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Alameda County
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Environmental Health

ADDITIONAL SITE INVESTIGATIONS
at
ALBANY HILL MINI MART
800 San Pablo Avenue
Albany, California

Prepared for:

Mr. Mohinder S. & Dr. Joginder K. Sikand
1300 Ptarmigan Drive # 1
Walnut Creek, California

September 13, 2002

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September 13, 2002

Ms. eva chu
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Subject: Submittal of Additional Site Investigation Report for
Albany Hill Mini Mart, 800 San Pablo Avenue, Albany, California

Dear Ms. chu:

Advanced Assessment and Remediation Services (AARS) is pleased to present this additional investigation report for the above referenced site.

This report has been prepared in general accordance with the Tri-Regional Board Staff Recommendation for Preliminary Investigation and Evaluation of Underground Tank Sites, Addendum to Appendix A, dated August 30, 1991, and the guidelines and requirements of the Alameda County Department of Environmental Health (ACDEH).

Please contact TridibGuha at (925) 363-1999 if you have any questions regarding this report.

Sincerely,

Advanced Assessment and Remediation Services

Tridib K. Guha, R.G., R.E.A.
Principal

cc: Mr. Mohinder S. & Dr. Joginder K. Sikand, Walnut Creek, California
Mr. Larry Oelkers, Sr., Albany, California
Mr. Sunil Ramdaas, SWRCB-USTCF, Sacramento, California
Ms. Erin Pinto, City of Albany, Albany, California

TG/AHMM.ASI/Enclosure

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ADDITIONAL SITE INVESTIGATION

at
ALBANY HILL MINI MART
800 San Pablo Avenue
Albany, California

1.0 INTRODUCTION

This report presents the results and findings of the additional site investigation conducted by Advanced Assessment and Remediation Services (AARS) to delineate the extent of the contaminant plume at the Albany Hill Mini Mart, 800 San Pablo Avenue, Albany, California. The work performed was based on the analytical results of soil and groundwater sampling of the supplemental site investigation conducted in June 2001 and quarterly monitoring and sampling conducted in October 2001 and January 2002. Analytical results of the soil and groundwater samples at the site detected high concentrations of petroleum hydrocarbon constituents. This investigative work evaluated the extent of the contaminant plume adjacent to the property. This work was performed pursuant to the requirements of the Alameda County Department of Environmental Health (ACDEH), as described in the Work Plan for Additional Site Investigation by AARS dated January 10, 2002.

2.0 SITE CHARACTERISTICS

A brief description of the site location and summary of past activities is presented below.

2.1 Site Description

The project site is located at 800 San Pablo Avenue, Albany, California. The site is set in a commercial development and consists of an occupied two-story store/office building with a concrete slab-on-grade floor with four gasoline pump islands.

The property is bounded by San Pablo Avenue to the east, and commercial development (United Transmission) to the south. An apartment complex residence is located west of the property. Washington Avenue area is located north of the property.

The site is located at an elevation of approximately 45 feet above mean sea level at the foothill of Albany Hill to the west. San Francisco Bay is located approximately 1½ miles southwest of the project site. A site vicinity map and a site plan are presented in Figure 1 and Figure 2 respectively.

2.2 Site History

According to Mr. Sikand (present owner) the site has been an automotive repair shop and a gas station since 1930. Mr. Sikand purchased the property in 1973. At that time three USTs (two 500-gallon regular and one 1000-gallon super) operated at the site. In 1986, when the site was remodeled, three old tanks were removed, and four new tanks were installed and automotive repair operation was ceased.

In March 1997, five underground fuel storage tanks (two 10,000 gallon gasoline tanks, one 6,000 gallon gasoline tank, one 2,000 gallon diesel tank, and one 750 gallon tank) were excavated and removed by

Superior Underground Tank Services (SUTS). The fifth tank was discovered when overexcavation activities uncovered it. Soil samples were collected from excavations. Analytical results indicated that the total petroleum hydrocarbon as gasoline (TPHg) and total petroleum hydrocarbon as diesel (TPHd) concentrations up to 3,800 mg/kg and 820 mg/kg respectively, were present in the soil. Benzene toluene ethylbenzene and xylenes (BTEX) and Methyl tertiary butyl ether (MTBE) constituents were also detected in soil samples. A grab groundwater sample was collected from the pit after the over excavation. Analytical results of groundwater sample indicated elevated concentrations of TPHg, TPHd, BTEX and MTBE.

Previous report issued for this site is:

"Underground Storage Tank Removal Summary Letter Report for Redwood Gasoline Station, 800 San Pablo Avenue, Albany, CA", GeoPlexus, Inc., March 22, 1997.

AARS conducted preliminary site assessment in August 1999, and the report was issued:

"Groundwater Quality Investigation Report, Albany Hill Mini Mart, Albany, CA", September 15, 1999.

AARS completed six quarters of groundwater monitoring and sampling under the direction of Alameda County Environmental Health Department (ACEHD). The groundwater sampling events confirmed the presence of elevated MTBE, TPHg and benzene concentrations in all three monitoring wells. The ACDEH required additional investigations to delineate the extent of the plume.

Mr. Lawrence Oelkers, Sr. (adjacent property owner - United Transmission Building) informed in a meeting with ACEHD staff and AARS, the drums containing automotive repair waste liquid were stored along the wall in the past. Further conversation with Mr. Mohinder Sikand, AARS learned that during the excavation and installation of a 10,000 gallon tank, soil contamination and floating product was noted in that area. However, due to the close proximity of the wall, no over excavation was conducted.

2.3 Regional Geology and Hydrogeology

The site is located on a broad alluvial plain on the east side of the San Francisco Bay. The plain is characterized by nearly level topography. The uppermost lithologic member is the San Antonio Formation. The San Antonio sediments were deposited in a complex and ever-changing depositional environment that ranged from alluvial fans to flood plains to lakes to swamps to beaches. Locally, the alluvial deposits consist largely of interfingered lenses of clayey gravel, sandy and silty clays and sand-clay-silt mixtures. Individual units are discontinuous and difficult to correlate over distance.

Groundwater at this site is shallow. Soil borings drilled during July of 1999, encountered groundwater at approximately 12 feet below ground surface (bgs). However, groundwater levels may fluctuate with tidal variations. The general groundwater flow direction is toward the San Francisco Bay to the southwest.

The other two common surficial deposits are Quaternary alluvial deposits and Quaternary artificial fill. The alluvial deposits are irregularly stratified, poorly consolidated materials of mud, silt, sand, and gravel deposited in stream and river beds and on adjoining flood plains. The alluvial deposits vary in thickness from 0 to 40 feet. The Quaternary artificial fill is composed of rock and surficial deposits derived from nearby cuts or quarries.

The Hayward Fault, located west of the site and separated by the Oakland Hills, is the nearest active fault. There are two inactive faults, the Calaveras Fault and the Franklin Fault, located approximately 3 miles east of the site.

The average annual rainfall in this region is approximately 24 inches, occurring mostly in the winter months. The alluvial deposits, which are commonly porous and permeable, may be the winter-bearing zone in this area.

3.0 SCOPE OF WORK

This additional site investigation was conducted by AARS in accordance with the requirements and guidelines of the ACEHD and California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) as presented in the work plan dated January 10, 2002. The scope of work included the following tasks:

Task 1. Summarized the previous site activities; submitted a work plan and acquired necessary permits;

Task 2. Conducted horizontal conduit investigation and well search;

Task 3. Installed seven soil borings, converted six of them into six groundwater monitoring wells;

Task 4. Sampled the temporary well;

Task 5. Developed, sampled and surveyed monitoring wells;

Task 6. Analyzed soil samples for specified constituents;

Task 7. Analyzed groundwater samples;

Task 8. Evaluated soil and groundwater sampling and analytical results and other data;

Task 9. Prepared this report presenting the results and findings of the above activities and appropriate recommendations.

The location of the monitoring wells and temporary well are presented in Figure 2. The various tasks associated with this site investigation is discussed below:

4.0 HORIZONTAL CONDUIT INVESTIGATION

Prior to commencement of field work, a conduit study was conducted to determine the affects of horizontal conduits on contamination migration and horizontal conduits acting as preferential pathways. The study involved a utility survey – researched records of the City of Albany Public Works Department and the City of Berkeley past utility work. Also, researched records of Pacific Gas and Electric Company and other local agencies using underground utilities.

5.0 FIELD METHODS AND PROCEDURES

To assess the nature and extent of contamination in groundwater, six soil borings were drilled off-site and one on-site. One soil boring was converted into a temporary well. Soil and groundwater samples were collected during drilling for laboratory analysis of petroleum hydrocarbon constituents specified in section 6.0. The monitoring wells were developed, sampled, and surveyed. The procedures and methods used during field activities were in accordance with the requirements and guidelines of the ACEHD and RWQCB. The methods utilized in drilling soil borings, sampling, and laboratory analyses are presented below.

5.1 Soil Borings and Sampling

Prior to commencement of drilling activities, permits for the proposed soil borings/temporary wells and groundwater monitoring wells were obtained from the ACPWA. The work plan prepared by AARS was approved by the ACEHD. An encroachment permit to drill on San Pablo Avenue (State Highway 123) was obtained from Caltrans and also from the City of Albany. Underground Service Alert was informed 72 hours prior to drilling. Also the site was cleared by California Utility Survey (underground utility locator). Copies of the permit and work plan approval letter are presented in Appendix A.

On June 5 and 6, 2002, AARS supervised the drilling of six soil borings (MW-4 through MW-8 and SB-6/TW). Ms. Eva Chu of ACEHD visited the site and modified the location of the proposed SB-5/TW into a monitoring well (MW-9). The drilling activities were performed by Gregg Drilling and Testing, Inc., of Martinez, California. The soil borings were drilled with a limited access drill rig (RHINO D-15) using 6-inch diameter, clean hollow stem augers. Soil boring MW-6 was drilled to 30 feet bgs; soil borings MW-4 and MW-5 were drilled to 25 feet bgs; and MW-7 and MW-8, and SB-6/TW were drilled 20 feet bgs using 6-inch diameter, clean hollow stem augers. The augers were steam cleaned at the Gregg Drillings facility, prior to drilling at the site.

During drilling, soil samples were collected at every 5 feet of depth or at any lithologic changes, starting at 5 feet bgs. Soil samples were collected during drilling by using a split-spoon sampler lined with clean brass tubes. Five soil samples were collected from each borehole (MW-4, MW-5 and MW-6) for laboratory analyses. Two soil samples were collected from each borehole MW-7 and MW-8 and one soil sample from SB-6/TW. Selection of the samples for laboratory analyses were based on the depth of groundwater encountered as well as the Photo Ionization Detector (PID) reading and petroleum hydrocarbon odor.

On June 24, 2002, AARS supervised the drilling of soil boring MW-9 (which was originally proposed SB-5/TW in the Work Plan). A revised monitoring well installation permit was obtained from the ACPWA. Because of the limited overhead clearance, a smaller limited access drill rig was used. The drilling activities were performed by Precision Sampling, Inc., of Richmond, California. The soil boring was drilled with a limited access drill rig (Geoprobe XD-2) using a 3½-inch diameter push rod. Drilling was extremely slow and could not advance beyond 16 feet bgs. Therefore, the driller (after consulting with the drilling foreman and drilling manager) changed the 3½-inch diameter push rod to 2-inch diameter and completed drilling to 20 feet bgs. The push rod was changed again to a 3½-inch diameter and attempted to reach 20 feet bgs to install a 20 feet monitoring well. However, drilling with 3½-inch diameter was unsuccessful beyond 17 feet bgs. A monitoring well was constructed to 17 feet bgs, hoping for groundwater to appear. During drilling soil samples were collected at every 5-foot interval using a macrocore sampler. Four soil samples were collected from this borehole for laboratory analyses.

The soil samples recovered for chemical analyses were immediately sealed with teflon squares, polyethylene caps and plastic tape. The samples were then labeled with sample identification, sample depth, and the date and time of collection. Soil samples were placed immediately in an iced cooler for shipment to the North State Environmental Laboratory, under chain-of-custody documents.

The soil borings were lithologically logged in the field using the Unified Soil Classification System. Soil samples were screened in the field using a PID. Soil type, color, density, moisture content, and depth were recorded on the boring logs (Appendix B).

5.2 Groundwater Sampling in Temporary Wells

The soil boring SB-6/TW was converted into a temporary well. During drilling, groundwater was encountered at approximately 17 feet bgs. Therefore, soil boring was advanced 3 feet below the top of the saturated zone approximately 20 feet bgs. The temporary well was constructed using a ten-foot long, 2 inch diameter 0.010-inch slotted screen (Schedule 40 PVC), and a ten-foot long blank casing (flush-threaded) was installed in the borehole. The water was allowed to stabilize and a small volume of water was purged. Following purging, a water sample was collected from the temporary well into three 40-milliliter volatile organic analysis vials with teflon-lined septa (VOA), preserved using hydrochloric acid to a pH of 2.0, and one 1-liter amber glass bottle. The casings were then removed and the borings were completely backfilled to grade with neat cement. The groundwater samples collected for chemical analysis were placed immediately into an iced cooler for shipment to North State Environmental Laboratory, under chain-of-custody documents.

5.3 Groundwater Monitoring Well Construction

Soil borings MW-4, MW-5 and MW-6 were converted into groundwater monitoring wells and completed to a total depth of 25 feet bgs. MW-6 was drilled, sampled and logged to 30 feet bgs, and then backfilled with bentonite chips to 25 feet bgs. Each monitoring well was constructed with one 7½-foot section flush-threaded, Schedule 40, PVC blank casing and one 10-foot and one 7½-foot section of two-inch diameter 0.010-inch, slotted PVC casing, which extended to a depth of at least 10 feet beneath the water table. The annular space surrounding the screened portion was backfilled with #2 Lonestar sand to 1½ feet above the top of the screened section. A 1-foot thick bentonite annular seal was placed above the filter pack. The remaining annulus was grouted with neat cement to the surface. A well box was installed slightly above grade with a locking watertight well cap to ensure the integrity of the well.

The monitoring wells MW-7 and MW-8 were constructed with one 7½-foot section flush-threaded, Schedule 40, PVC blank casing and one 10-foot and one 2½-foot section of two-inch diameter 0.010-inch, slotted PVC casing. The annular space surrounding the screened portion was backfilled with #2 Lonestar sand to 1½ feet above the top of the screened section. A 1-foot thick bentonite annular seal was placed above the filter pack. The remaining annulus was grouted with neat cement to the surface. A well box was installed slightly above grade with a locking watertight well cap to ensure the integrity of the well.

Monitoring well MW-9 was constructed with one 7-foot section flush-threaded, Schedule 40, PVC blank casing and one 10-foot section of two-inch diameter 0.010-inch, slotted PVC casing. The annular space surrounding the screened portion was backfilled with #2 Lonestar sand to 1½ feet above the top of the screened section. A 1-foot thick bentonite annular seal was placed above the filter pack. The remaining annulus was grouted with neat cement to the surface. A well box was installed slightly above grade with a

locking watertight well cap to ensure the integrity of the well. Monitoring well construction details are included in Appendix B.

5.4 Monitoring Well Development and Sampling

Well development and sampling procedures were conducted in accordance with RWQCB guidelines and ACEHD requirements.

Monitoring wells MW-4, through MW-8 were developed on June 6, 2002, by removing a minimum of 10 casing volumes of water from the wells with a two-inch-diameter PVC bailer. All eight monitoring wells, MW-1 through MW-8 were sampled on June 13, 2002.

Prior to sampling of wells a groundwater sample was collected from each for inspection. Groundwater samples from each well were inspected for floating product, sheen and odor. Groundwater samples from all eight monitoring wells were clear initially, without floating product. Very strong petroleum hydrocarbon odor and sheen was noted from MW-1, MW-4, MW-7 and MW-8 samples. During sampling of the wells, pH, specific conductivity, and temperature measurements of purged water were recorded. A groundwater sample was then collected from each well. Field parameters of groundwater sampling are presented in Table 4.

Monitoring well MW-9 was dry on June 27, 2002 and July 7, 2002. On June 27, 2002, a groundwater sample just enough to fill one 40-milliliter VOA was collected from this well.

The groundwater samples were collected in clean containers and transported in an iced cooler to the laboratory for analysis following standard chain of custody procedures.

5.5 Groundwater Level Monitoring and Surveying

Top-of-well-casing elevations for MW-1 through MW-3 were surveyed on July 30, 1999. A bench mark was established at the top of the southeast bolt (painted white) in the street signal light base; the common datum with an assumed elevation of 100.00 feet above mean sea level (MSL). All elevations are relative to this. The elevations at each well were taken on the top of the well casing. On July 7, 2002, the top of the well casing elevations for MW-4 through MW-8, were surveyed in reference to the bench mark.

Groundwater levels in each well were measured to the nearest 0.01 foot on July 7, 2002, from the top of the PVC casing using an electric sounder. Groundwater surface elevation contours, based on interpretation of groundwater level and survey data, are presented in Figure 3. Survey data and water level measurements are presented in Table 1.

5.6 Soil Cuttings and Well Development Water Storage and Disposal

Soil cuttings generated during drilling and sampling of the soil borings were transferred into 55-gallon DOT 17H drums, labeled and stored at the site for proper disposal.

All purged water generated from the well development and sampling, as well as decontamination rinseate, were stored in properly-labeled 55-gallon DOT 17H drums for proper disposal.

6.0 ANALYTICAL METHODS

All soil and groundwater samples were analyzed by North State Environmental Laboratory of South San Francisco, California, a California-certified Laboratory. All chemical analyses of soil and groundwater samples were performed using standard test methods of the United States Environmental Protection Agency (EPA) and the California Department of Health Services (Cal-DHS), as discussed below.

6.1 Analysis of Soil Samples

A total of 24 soil samples were collected from 7 soil borings for chemical analysis, (five samples each from MW-4, MW-5 and MW-6; two samples each from MW-7 and MW-8; four samples from MW-9; and one sample from SB-6/TW). The depth of each of the samples were recorded on the boring logs (Appendix A). Soil samples were analyzed for total petroleum hydrocarbon as gasoline (TPHg) using EPA Methods 8015M, benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8020, methyl tertiary butyl ether (MTBE) using EPA Method 8020 and total petroleum hydrocarbon as diesel (TPHd) using EPA Methods 8015M. Results of soil sample analyses are presented in Table 2. The official laboratory reports and chain of custody documents are included in Appendix C.

6.2 Analysis of Groundwater Samples

All groundwater samples from monitoring wells MW-1 through MW-8 and SB-6/TW were analyzed for TPHg using EPA Method 8015 modified, BTEX/MTBE using EPA Method 8020 and TPHd using EPA Methods 8015M. Groundwater sample from MW-9 was analyzed for TPHg using EPA Method 8015 modified, BTEX/MTBE using EPA Method 8020. Results of groundwater analyses are summarized in Table 3. The official laboratory reports and chain of custody documents are included in Appendix C.

7.0 DISCUSSION OF RESULTS

A brief description of site geology and hydrogeology based on the results of the drilling activities is presented below. The results of the laboratory analysis of the soil and groundwater samples collected during this investigation are also discussed below.

7.1 Site Geology

The subsurface lithology in all seven soil borings and the previous borings were comprised of a fine-grained alluvial material consisting of stiff clay, poorly sorted clay and silty clay, poorly sorted sand and silty sand to the maximum explored depth of 30 feet bgs. Geologic cross-sections A-A' (Figure 8), B-B' (Figure 9) show a similar pattern of deposits. Most of the clays and silty clays are stiff with high plasticity.

7.2 Site Hydrogeology

Groundwater was encountered approximately at 16 feet bgs during drilling and stabilized at 10 to 11 feet bgs on June 13, 2002. The groundwater elevations from monitoring wells MW-1 through MW-8, as measured on June 13, 2002, were used to develop the groundwater elevation contour map shown in Figure 3. The groundwater flow direction has been calculated to be to the southeast, with an average

gradient of approximately 0.015 foot per foot. The average depth to stabilized groundwater in these wells was approximately 10.50 feet bgs on June 13, 2002, which may vary with seasonal conditions.

7.3 Soil analysis

Analytical results of fourteen soil samples from (MW-4, 5, 6, 7, 8, 9 and SB-6/TW) detected TPHg concentrations ranging from 1200 to 144000 parts per billion (ppb); benzene in seven soil samples concentrations ranging from 55 to 731 ppb.; MTBE in eleven soil samples concentrations ranging from 13 to 610 ppb; toluene in nine samples concentrations ranging from 7 to 3030 ppb; ethylbenzene in ten soil samples concentrations ranging from 66 to 2220 ppb; xylenes in thirteen soil samples concentrations ranging from 19 to 34800 ppb; and TPHd in five soil samples concentrations ranging from 1000 to 14700 ppb. Results of soil sample analyses are presented in Table 2. The official laboratory reports and chain of custody documents are included in Appendix C.

7.4 Groundwater Analysis

Analytical results for groundwater samples from nine monitoring wells (MW-1/GW through MW-9/GW) and one temporary well (SB-6/TW) is presented in Table 3. Table 3 also includes the groundwater sampling results from the previous site investigation. The concentrations of TPHg, MTBE, benzene and TPHd measured during June 6, 13, and 27, 2002, are presented in Figures 4, 5, 6, and 7 respectively. Groundwater samples from all monitoring wells and temporary wells, were found to contain TPHg ranging from 86 to 24100; MTBE ranging from non-detect to 12000 ppb; benzene ranging from 6 to 2310 ppb; toluene ranging from 6.7 to 1750; ethylbenzene ranging from 1.1 to 1050 ppb; and total xylenes ranging from 4.5 to 5430. TPHd was detected in six groundwater samples, concentrations ranging from 1460 to 7760 ppb. However, laboratory reported samples do not match diesel pattern. The highest concentrations of petroleum constituents were measured in the groundwater samples from MW-7/GW and MW-8/TW.

8.0 WELL SEARCH

A two thousand-foot (2,000) radius well search was performed to ascertain whether any active drinking water production wells were located in the area. The search consisted of a review of the Alameda County Public Works Agency Water Resource Section records. The well survey report for the site is presented in Table 5.

9.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the present site investigation, the following conclusions are drawn:

1. The highest petroleum hydrocarbon constituents were detected in MW-7 and MW-8, the 10,000 gallon tank, located at the extreme southern property boundary adjacent to the United Transmission Building.
2. MTBE concentrations in MW-8, MW-3, and SB-6 are high at 12,600, 8,820 and 5,300 ppb respectively and decreases in MW-4 at 32 ppb.

3. Benzene concentrations in MW-1, MW-7 and MW-8 are high at 1,680, 2,310 and 2,200 ppb respectively and decreases in MW-4 at 425 ppb.

4. The groundwater flow direction has been calculated to be to the southeast, with an average gradient of approximately 0.015 foot per foot. The average depth to stabilized groundwater in these wells was approximately 10.5 feet bgs on June 13, 2002.

5. Maps showing contours TPHg, MTBE, benzene and TPHd concentrations in groundwater, developed from the results of groundwater analyses indicate that the dissolved-phase petroleum hydrocarbon plume has migrated off-site to the southeast in the direction of groundwater flow.

6. Based on the above findings, no further characterization of the dissolved-phase hydrocarbon plume is necessary at this time.

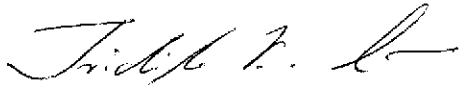
Recommendations are as follows:

1. Conduct a Feasibility Study/ Interim Corrective Action Plan for an expedited clean up and closure of the site.
2. Quarterly groundwater monitoring and sampling should be continued at the site to establish a history for water levels, and hydrocarbon concentrations.

10.0 CERTIFICATION

The information provided in this report is based on groundwater and soil sampling activities conducted at the site. All data presented in this report are believed to be accurate. All conclusions or recommendations provided herein are based on our expertise and experience conducting work of a similar nature.

Advanced Assessment and Remediation Services



Tridib K. Guha
Registered Geologist Number 5836

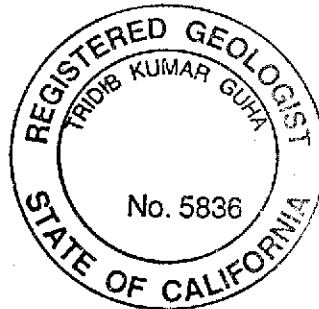


TABLE 1: SURVEY AND WATER LEVEL MONITORING DATA

**Albany Hill Mini Mart
800 San Pablo Avenue
Albany, California**

Well No.	Date of Measurement	Casing Elevation (Feet - Relative)	Depth to Groundwater (Feet - Relative)	Product Thickness (Feet)	Groundwater Elevation (Feet - Relative)
MW-1	8/6/99	101.68	11.95	0	89.73
	11/5/99	101.68	12.72	0	88.96
	2/7/00	101.68	10.34	0	91.34
	5/5/00	101.68	10.59	0	91.09
	8/3/00	101.68	11.75	0	89.93
	11/8/00	101.68	11.67	0	90.01
	2/8/01	101.68	11.2	0	90.48
	6/7/01	101.68	11.35	0	90.33
	9/7/01	101.68	11.71	0	89.97
	12/13/01	101.68	10.67	0	91.01
	6/13/02	101.68	11.42	0	90.26
MW-2	8/6/99	101.57	10.83	0	90.74
	11/5/99	101.57	11.66	0	89.91
	2/7/00	101.57	9.23	0	92.34
	5/5/00	101.57	9.54	0	92.03
	8/3/00	101.57	10.69	0	90.88
	11/8/00	101.57	10.62	0	90.95
	2/8/01	101.57	10.17	0	91.4
	6/7/01	101.57	10.3	0	91.27
	9/7/01	101.57	10.65	0	90.92
	12/13/01	101.57	9.65	0	91.92
	6/13/02	101.57	Jan-00	0	91.2
MW-3	8/6/99	100.33	10.58	0	89.75
	11/5/99	100.33	11.39	0	88.94
	2/7/00	100.33	9.05	0	91.28
	5/5/00	100.33	9.29	0	91.04
	8/3/00	100.33	10.43	0	89.9
	11/8/00	100.33	10.33	0	90
	2/8/01	100.33	9.94	0	90.39
	6/7/01	100.33	10.04	0	90.29
	9/7/01	100.33	10.31	0	90.02
	12/13/01	100.33	9.38	0	90.95
6/13/02	100.33	10.03	0	90.3	
MW-4	6/13/02	100.05	10.18	0	89.87
MW-5	6/13/02	98.37	8.88	0	89.49
MW-6	6/13/02	99.36	8.85	0	90.51
MW-7	6/13/02	100.96	10.95	0	90.01
MW-8	6/13/02	100.54	10.57	0	89.97

Note: A bench mark, with an elevation of 100.00 feet (Above Mean Sea Level) is located at the corner of Washington Avenue and San Pablo Avenue. The bench mark is the top of the southeast bolt (painted white) in the street signal light base; all well elevations are relative to this. The elevations at each well were taken on the top of the well casing on July 30, 1999. On July 8, 2002, the top of the well casing elevations for MW-4 through MW-8 were surveyed with reference to the benchmark.

TABLE 2: SUMMARY OF ANALYTICAL RESULTS OF SOIL SAMPLING

ALBANY HILL MINI MART

800 San Pablo Avenue

Albany, California

Sample ID	Date of Sampling	TPHg ug/kg	MTBE ug/kg	Benzene ug/kg	Toluene ug/kg	Ethylbenzene ug/kg	Xylenes ug/kg	TPHd ug/kg
MW-1/14S	7/28/99	1800	ND	ND	ND	5.6	12	2600
MW-1/14S	7/28/99	Polynuclear Aromatic Hydrocarbon Analyses by EPA Method 8010 were non-detect with the detection limit 0.01 mg/kg						
MW-2/14S	7/28/99	ND	ND	ND	ND	ND	ND	ND
MW-3/13S	7/28/99	ND	ND	ND	ND	ND	ND	ND
MW-4-S@6	6/5/02	3050	12	479	452	77	417	ND
MW-4-S@11	6/5/02	144000	*70	706	3030	3000	17600	**14700
MW-4-S@16	6/5/02	2160	ND	ND	7	33	203	ND
MW-4-S@21	6/5/02	ND	ND	ND	ND	ND	ND	ND
MW-4-S@26	6/5/02	ND	ND	ND	ND	ND	ND	ND
MW-5-S@6	6/5/02	7720	ND	ND	ND	112	684	ND
MW-5-S@11	6/5/02	12400	42	ND	29	195	243	ND
MW-5-S@16	6/5/02	ND	ND	ND	ND	ND	ND	ND
MW-5-S@21	6/5/02	ND	ND	ND	ND	ND	ND	ND
MW-5-S@26	6/5/02	ND	ND	ND	ND	ND	ND	ND
MW-6-S@6	6/5/02	ND	76	ND	ND	ND	ND	ND
MW-6-S@11	6/5/02	1200	17	55	ND	ND	ND	ND
MW-6-S@16	6/5/02	ND	13	ND	ND	ND	ND	ND
MW-6-S@21	6/5/02	1700	ND	ND	ND	ND	19	ND
MW-6-S@26	6/5/02	ND	*20	ND	ND	ND	24	ND
MW-7-S@11	6/6/02	2600	31	237	270	66	297	**1000
MW-7-S@16	6/6/02	1420	*60	ND	ND	ND	13	ND
MW-8-S@11	6/6/02	3520	39	217	173	75	455	**1300
MW-8-S@16	6/6/02	1820	*351	ND	6	11	64	ND
MW-9-S@5	6/24/02	ND	ND	ND	ND	ND	ND	ND
MW-9-S@10	6/24/02	26700	ND	64	15	848	4070	ND
MW-9-S@15	6/24/02	67000	ND	195	3490	2220	34800	**13100
MW-9-S@20	6/24/02	ND	ND	ND	ND	ND	ND	ND
SB-1/TW@10'	6/7/01	8100	18	580	620	200	1000	ND
SB-2/TW@10'	6/7/01	2300000	*ND	5300	78000	45000	330000	**550000
SB-3/TW@9.5'	6/7/01	61000	ND	130	41	790	5200	**27000
SB-4/TW@9'	6/7/01	160000	ND	710	2900	1900	1200	**47000
SB-6/TW@11	6/6/02	14900	*610	731	610	242	1510	**12600
RL	6/13/01	500	5	5	5	5	10	1000

Notes:

- ND- Not Detected RL- Reporting Limit NA- Not available NS- No Sample
- ug/L- Microgram per liter (parts per billion)
- TPHg- Total petroleum hydrocarbon as gasoline (EPA method modified 8015)
- TPHd- Total petroleum hydrocarbon as diesel (EPA method modified 8015)
- MTBE- Methyl Tertiary Butyl Ether (EPA Method 8020)
- Benzene, toluene, ethylbenzene, and total xylenes (EPA method 8020)
- PAH Polynuclear Aromatic Hydrocarbons (EPA method 8100)
- ** Laboratory reported does not match diesel pattern
- * Confirmed by GC/MS method 8260

TABLE 3: SUMMARY OF ANALYTICAL RESULTS OF GROUNDWATER SAMPLING

Albany Hill Mini Mart

800 San Pablo Avenue, Albany, California

Sample ID	Date of Sampling	TPHg ug/L	MTBE ug/L	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	TPHd ug/L
MW-1 GW	8/6/99	1500	ND	4.3	2.9	9.1	28	1200
	8/6/99	Polynuclear Aromatic Hydrocarbon Analyses by EPA method 610 were non-detect with detection limit 1.0 ug/L						
	11/5/99	1800	ND	5.1	3.2	8.9	33	1400
	2/7/00	1100	ND	3.3	1.9	5.6	21	890
	5/7/00	970	ND	2.9	1.7	4.9	18	650
	8/3/00	1200	360	190	43	41	160	**270
	11/8/00	4200	*840	990	200	130	560	**230
	2/8/01	2800	390	630	130	51	250	**380
	6/7/01	650	320	97	13	20	62	190
	9/7/01	970	460	260	17	44	140	400
	12/13/01	291	499	91.7	1.4	17.4	7.2	ND
6/13/02	5120	325	1860	22	316	318	**2160	
MW-2 GW	8/6/99	ND	ND	ND	ND	ND	ND	340
	11/5/99	ND	ND	ND	ND	ND	0.7	420
	2/7/00	ND	ND	ND	ND	ND	0.6	310
	5/7/00	ND	ND	ND	ND	ND	ND	280
	8/3/00	460	3300	79	3	43	8	**70
	11/8/00	200	3000	57	2	13	8	120
	2/8/01	290	3100	50	1	0.6	4	80
	6/7/01	210	2000	18	0.6	3	5	80
	9/7/01	230	2400	51	ND	8	8	ND
	12/13/01	172	1780	53	1.2	7.7	8.4	ND
6/13/02	86	1830	6	6.7	1.1	4.5	ND	
MW-3 GW	8/6/99	ND	ND	ND	ND	ND	ND	ND
	11/5/99	92	ND	ND	ND	0.6	1.7	54
	2/7/00	120	ND	ND	0.6	0.8	2.2	71
	5/7/00	100	ND	ND	ND	0.7	1.9	68
	8/3/00	910	*11000	220	9	35	16	**300
	11/8/00	990	8000	320	0.8	18	9	200
	2/8/01	990	*5200	180	21	7	24	110
	6/7/01	370	*6600	62	4	8	13	140
	9/7/01	460	*9400	87	1	11	25	ND
	12/13/01	251	6610	66.8	0.9	2.6	8.4	ND
6/13/02	3630	*8820	41	60	41	187	ND	

CONTINUED

TABLE 3: SUMMARY OF ANALYTICAL RESULTS OF GROUNDWATER SAMPLING

(Continued)

MW-4/GW	6/13/02	4460	32	425	409	115	730	**1500
MW-5/GW	6/13/02	536	11	6.4	0.6	22	23	ND
MW-6/GW	6/13/02	2980	310	31	2.3	3.8	12	**1460
MW-7/GW	6/13/02	24100	951	2310	657	945	5430	**1570
MW-8/GW	6/13/02	20000	12000	2200	1140	1050	4090	**7760
MW-9/GW	6/27/02	19000	ND	1430	1750	501	5410	NS
SB-1/TW	6/7/01	1400	33	120	160	48	240	**250
SB-2/TW	6/7/01	8900	26	1100	1900	280	1300	**770
SB-3/TW	6/7/01	2400	3600	280	31	110	340	**430
SB-4/TW	6/7/01	8800	*4500	1400	190	86	230	**19000
SB-6/GW	6/6/02	4270	*5300	332	226	127	511	**1340
RL		50	0.5	0.5	0.5	0.5	1	50

Notes:

ND- Not Detected RL- Reporting Limit

ug/L- Microgram per liter (parts per billion)

TPHg- Total petroleum hydrocarbon as gasoline (EPA method modified 8015)

TPHd- Total petroleum hydrocarbon as diesel (EPA method modified 8015)

MTBE- Methyl Tertiary Butyl Ether (EPA Method 8020; after 9/24/01 by Method 8260)

BTEX- Benzene, toluene, ethylbenzene, and xylene (EPA Method 8020)

PAH- Polynuclear Atomic Hydrocarbon (EPA method 610)

Fuel Oxygenates Ethanol, Di-isopropyl Ether, Tertiary Butyl Alcohol, Ethyl-t-Butyl Ether, t-Amyl Methyl Ether, MTBE (EPA Method 8260) were non-detect (6/7/01)

** Does not match diesel pattern

* Confirmed by GC/MS method 8260

TABLE 4: FIELD PARAMETERS OF GROUNDWATER SAMPLING

Albany Hill Mini Mart
800 San Pablo Avenue
Albany , California

Sample I.D. No.	Date of Sampling	Temperature °F	pH	Conductivity uS
MW-1	6/13/02	65.6	7.43	2168
MW-2	6/13/02	67.3	7.23	1023
MW-3	6/13/02	68.6	7.39	1437
MW-4	6/13/02	66.2	7.07	4287
MW-5	6/13/02	66.1	7.17	2888
MW-6	6/13/02	66.2	7.08	2112
MW-7	6/13/02	65.5	7.1	3638
MW-8	6/13/02	65.6	7.18	3886

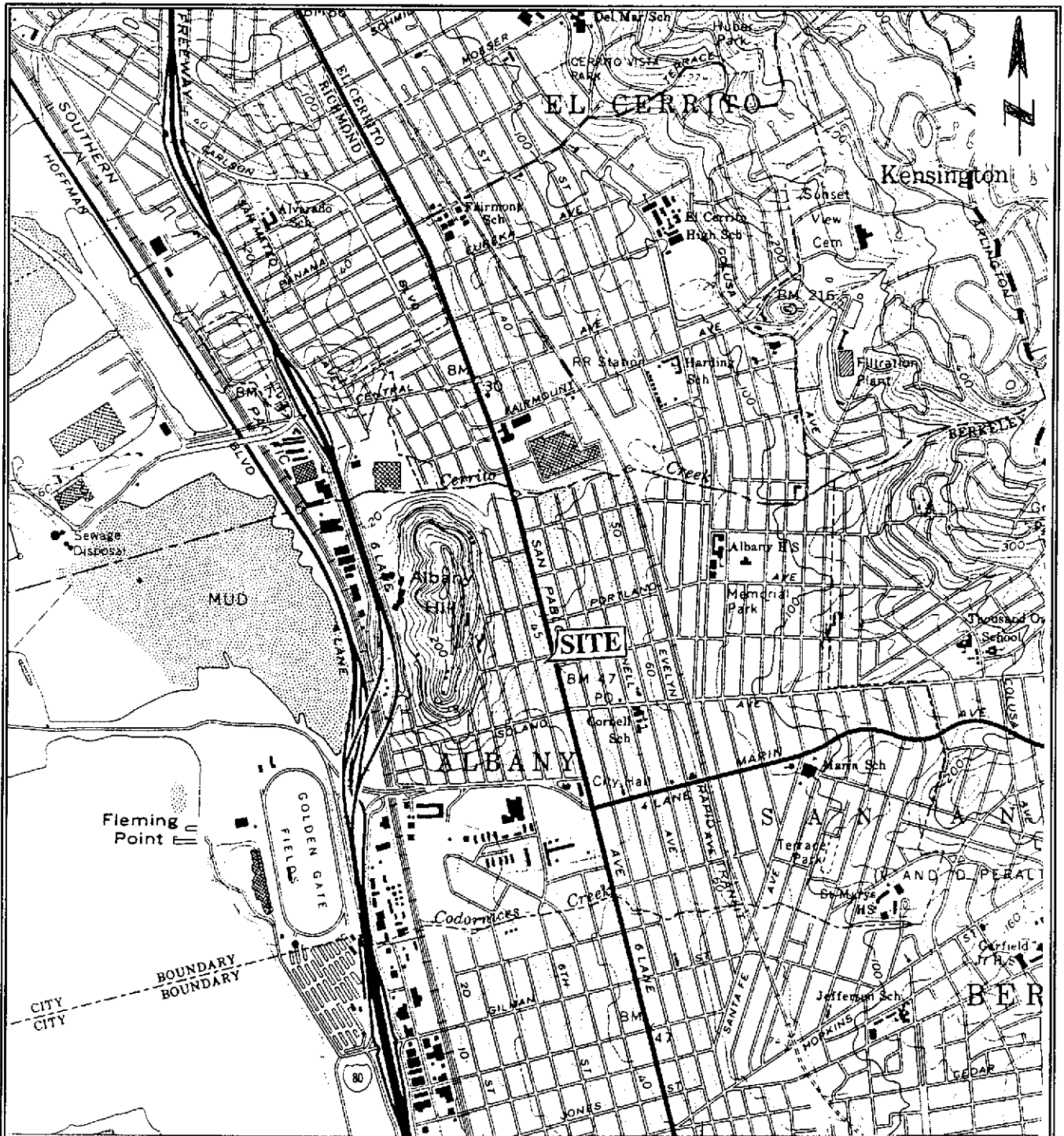
Note:

°F = degree Fahrenheit
uS = microSiemens

TABLE 5: WELL SURVEY FOR 800 SAN PABLO AVENUE, ALBANY, CA

Well I.D. No.	Address	Drill Date	Total Depth (ft)	Water Depth (ft)	Well Status	Distance from Site (ft)
T1N/R4W,34L1	1247 Marin Avenue	Sep-92	33	?	Abandoned	2827
T1N/R4W,33Q19	1055 Eastshore Highway	Sep-92	70	?	Destroyed	4459
T1N/R4W,27N3	1259 Brighton Avenue	Jul-94	28	12	Piezometer	2147
T1N/R4W,34M5	999 San Pablo Avenue	Apr-90	16	7	Test Well	2796
T1N/R4W,34M6	999 San Pablo Avenue	Apr-90	14	6	Test Well	2796
T1N/R4W,34M8	999 San Pablo Avenue	Aug-90	15	12	Test Well	2796
T1N/R4W,34M9	969 San Pablo Blvd	Aug-90	37	11	Test Well	2953

Note:
Source Alameda County Public Works Agency, Water Resources Section



Source: U.S.G.S. Map Richmond Quadrangle
 7.5 Minute Series (Topographic)
 Aerial Photograph taken 1959 Map Edited 1980

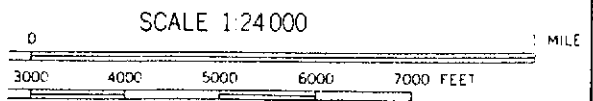
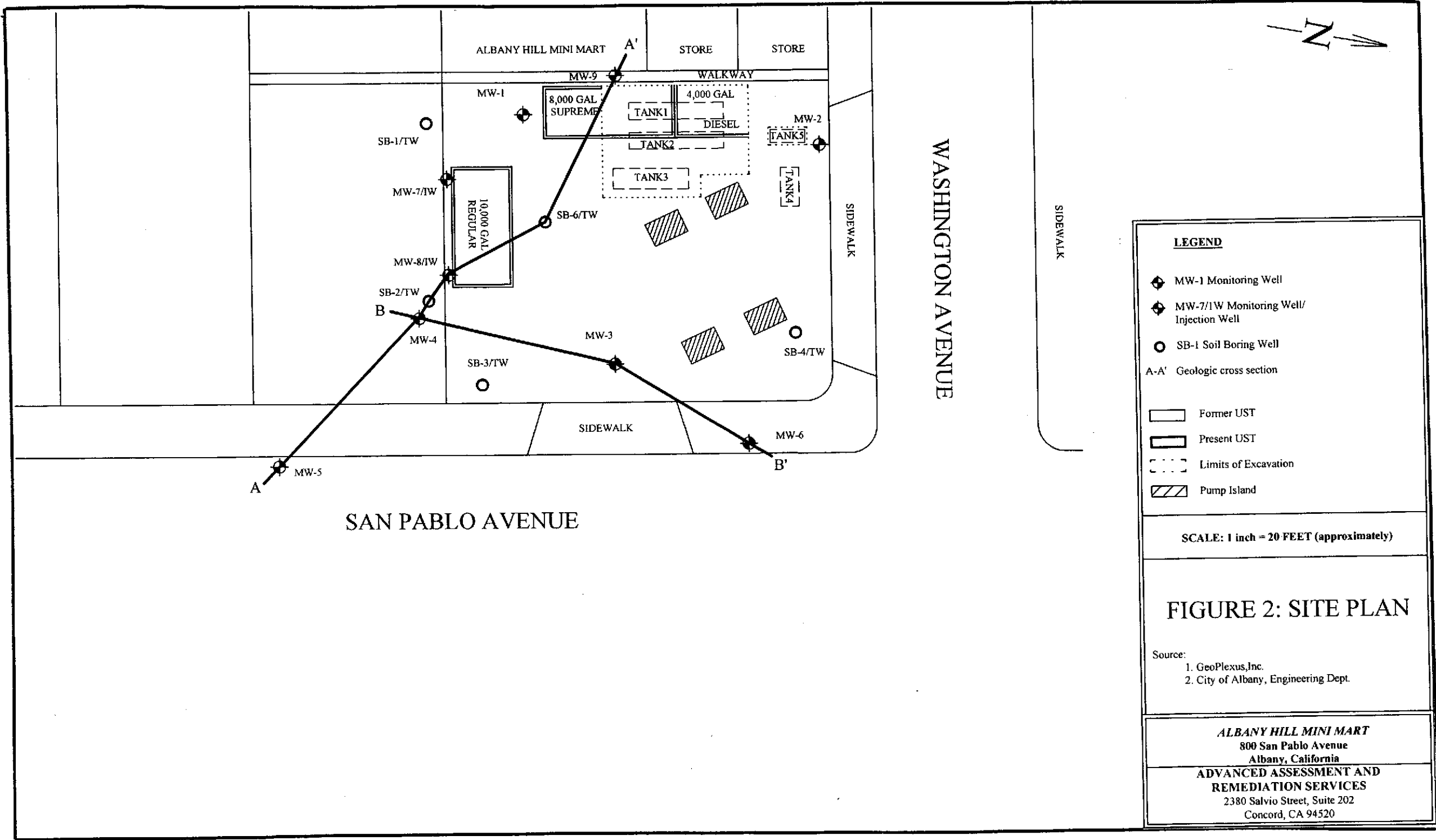


FIGURE 1: SITE VICINITY MAP
 ALBANY HILL MINI MART
 800 San Pablo Avenue
 Albany, California

**ADVANCED ASSESSMENT AND
 REMEDIATION SERVICES**
 2380 Salvio Street, Suite 202
 Concord, California



LEGEND

- ◆ MW-1 Monitoring Well
- ◆ MW-7/1W Monitoring Well/ Injection Well
- SB-1 Soil Boring Well
- A-A' Geologic cross section
- ▭ Former UST
- ▭ Present UST
- ⋯ Limits of Excavation
- ▨ Pump Island

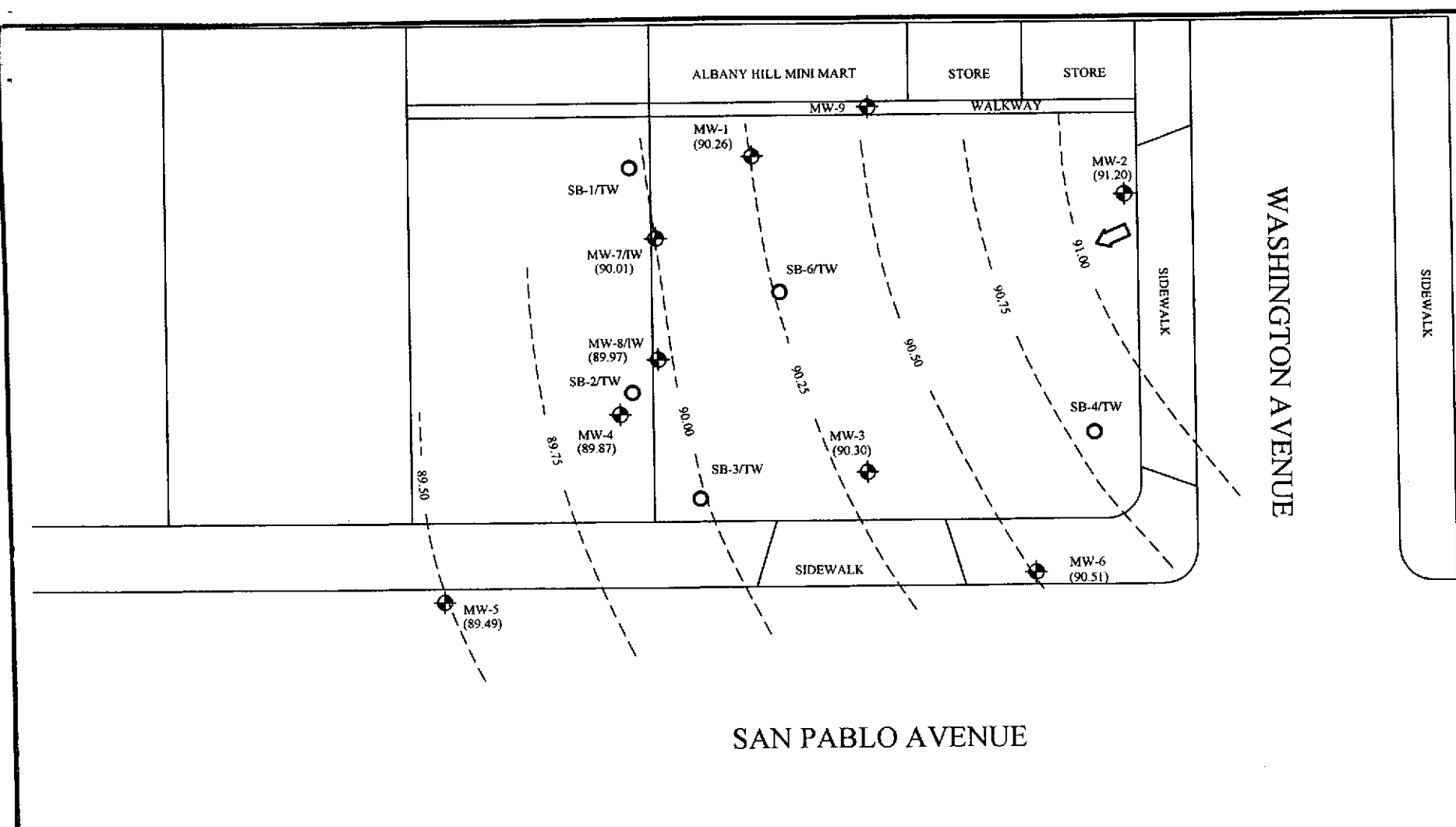
SCALE: 1 inch = 20 FEET (approximately)

FIGURE 2: SITE PLAN

Source:
 1. GeoPlexus, Inc.
 2. City of Albany, Engineering Dept.

ALBANY HILL MINI MART
 800 San Pablo Avenue
 Albany, California

**ADVANCED ASSESSMENT AND
 REMEDIATION SERVICES**
 2380 Salvio Street, Suite 202
 Concord, CA 94520



LEGEND

- MW-1 Monitoring Well
- MW-7/1W Monitoring Well/ Injection Well
- SB-1 Soil Boring Well
- (90.30) Relative Groundwater Elevation
- 90.00- Groundwater Elevation Countour
- General Direction of Groundwater Flow

Note:

1. Water Levels in Monitoring Wells measured on June 13,2002
2. Contour Interval- 0.25 foot
3. Hydraulic Gradient- 0.015 foot/foot

SCALE: 1 inch = 20 FEET (approximately)

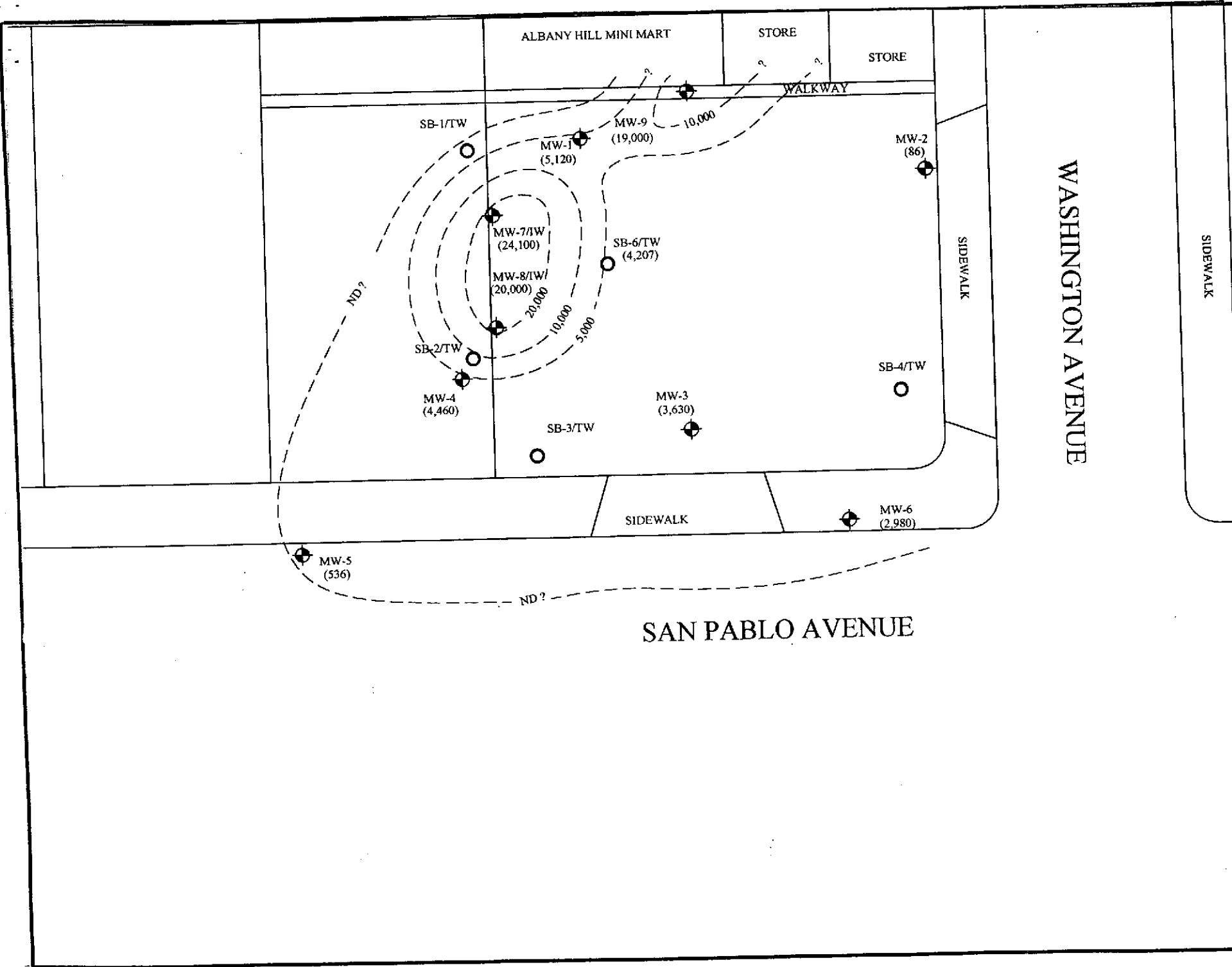
**FIGURE 3:
GROUNDWATER
SURFACE ELEVATIONS
(06/13/02)**

Source of base map:

1. GeoPlexus, Inc.
2. City of Albany, Engineering Dept.

ALBANY HILL MINI MART
800 San Pablo Avenue
Albany, California

**ADVANCED ASSESSMENT AND
REMEDATION SERVICES**
2380 Salvio Street, Suite 202
Concord, CA 94520



LEGEND

- ◆ MW-1 Monitoring Well
- ◆ MW-7/IW Monitoring Well/ Injection Well
- SB-1 Soil Boring Well

(24,100) Total Petroleum Hydrocarbon as Gasoline (TPHg) Concentration in Groundwater in Parts Per Billion (ppb)

-20,000- TPHg Concentration Countour

ND Not Detected above Reported Detection Limit

Note:

1. Groundwater samples collected June 13, 2002
2. Contour Interval- as labeled

SCALE: 1 inch = 20 FEET (approximately)

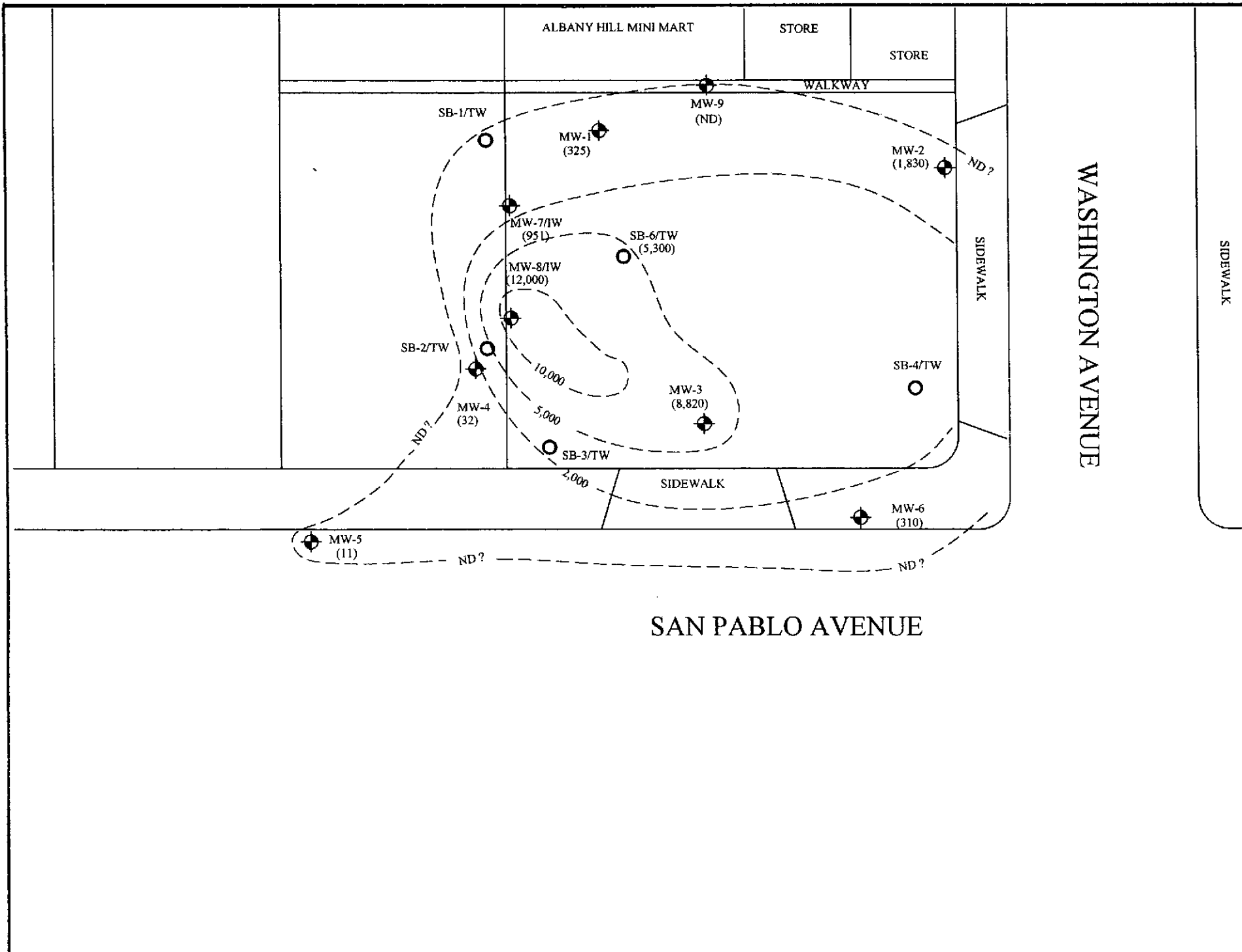
FIGURE 4: TPHg CONCENTRATIONS IN GROUNDWATER

Source of base map:

1. GeoPlexus, Inc.
2. City of Albany, Engineering Dept.

ALBANY HILL MINI MART
 800 San Pablo Avenue
 Albany, California

ADVANCED ASSESSMENT AND REMEDIATION SERVICES
 2380 Salvio Street, Suite 202
 Concord, CA 94520



LEGEND

- ◆ MW-1 Monitoring Well
- ◆ MW-7/1W Monitoring Well/ Injection Well
- SB-1 Soil Boring Well

(8,820) Methyl Tertiary Butyl Ether (MTBE)
Concentration in Groundwater
in Parts Per Billion (ppb)

-10,000-
MTBE Concentration Countour

ND
Not Detected above Reported
Detection Limit

Note:
1. Groundwater samples collected June 13, 2002
2. Contour Interval- as labeled

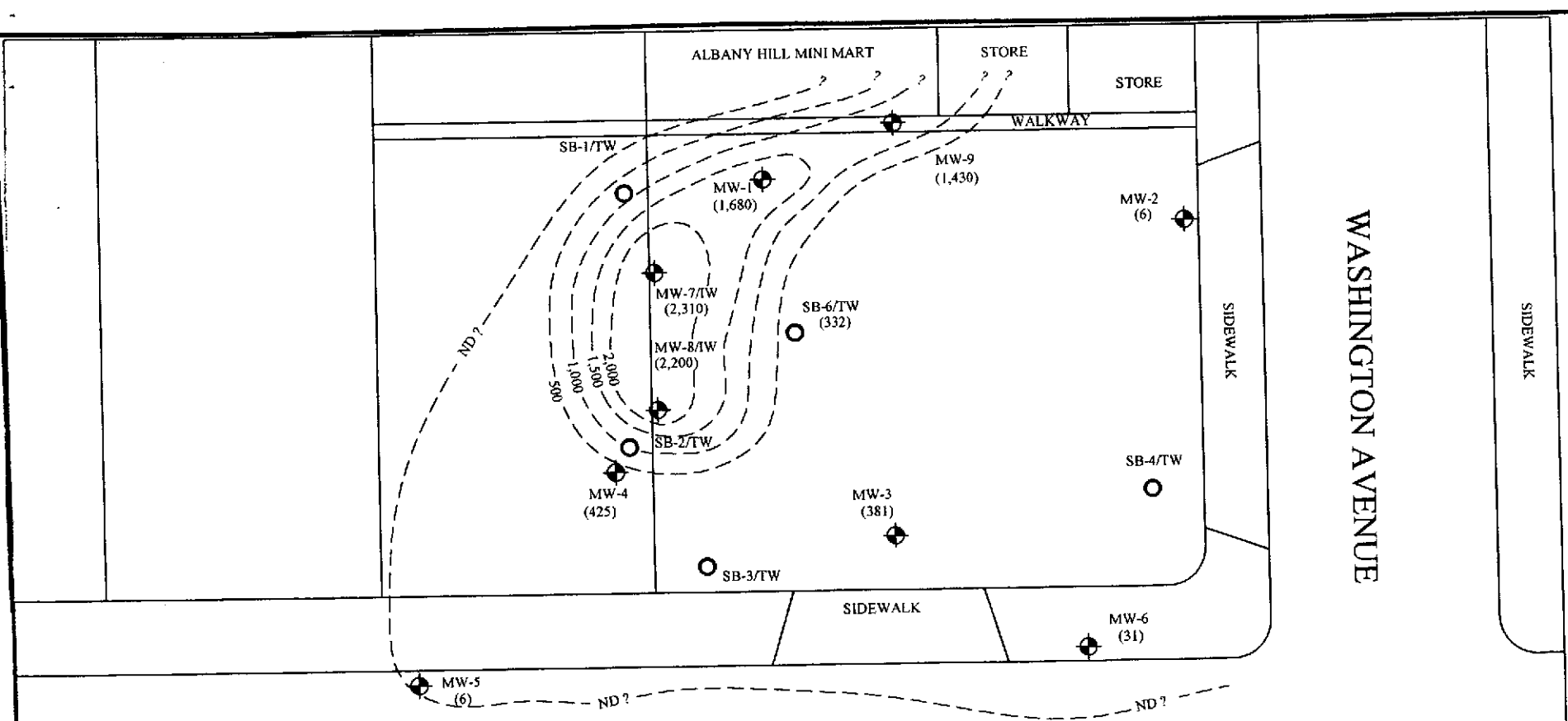
SCALE: 1 inch = 20 FEET (approximately)

**FIGURE 5: MTBE
CONCENTRATIONS IN
GROUNDWATER**

Source of base map:
1. GeoPlexus, Inc.
2. City of Albany, Engineering Dept.

ALBANY HILL MINI MART
800 San Pablo Avenue
Albany, California

**ADVANCED ASSESSMENT AND
REMEDATION SERVICES**
2380 Salvio Street, Suite 202
Concord, CA 94520



LEGEND

- ◆ MW-1 Monitoring Well
- ◆ MW-7/1W Monitoring Well/ Injection Well
- SB-1 Soil Boring Well
- (2,310) Benzene Concentration in Groundwater in Parts Per Billion (ppb)
- 2,000- Benzene Concentration Countour
- ND Not Detected above Reported Detection Limit

Note:

1. Groundwater samples collected June 13, 2002
2. Contour Interval- 500 ppb

SCALE: 1 inch = 20 FEET (approximately)

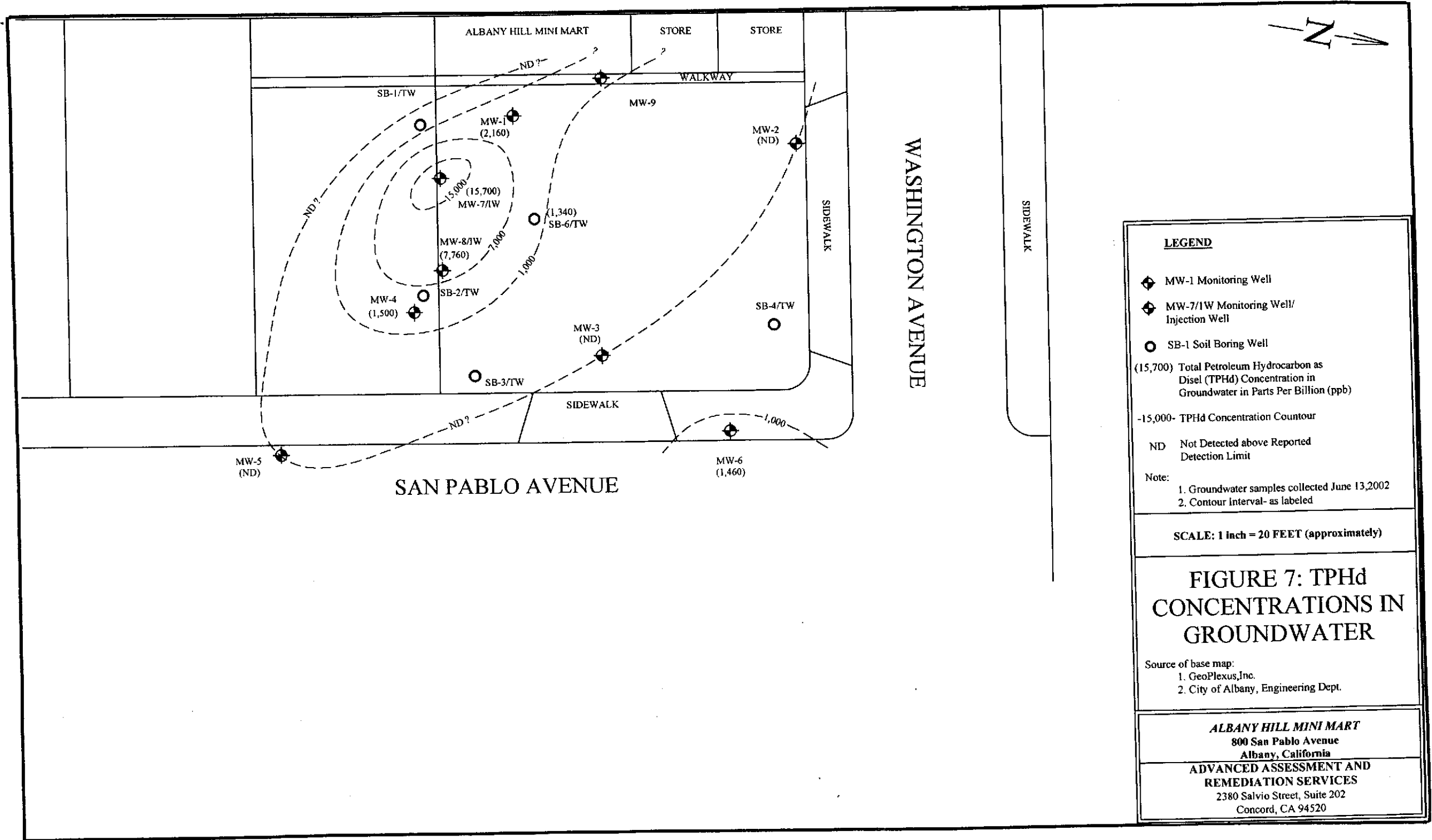
FIGURE 6: BENZENE CONCENTRATIONS IN GROUNDWATER

Source of base map:

1. GeoPlexus, Inc.
2. City of Albany, Engineering Dept.

ALBANY HILL MINI MART
 800 San Pablo Avenue
 Albany, California

ADVANCED ASSESSMENT AND REMEDIATION SERVICES
 2380 Salvio Street, Suite 202
 Concord, CA 94520



LEGEND

- ◆ MW-1 Monitoring Well
- ◆ MW-7/IW Monitoring Well/ Injection Well
- SB-1 Soil Boring Well
- (15,700) Total Petroleum Hydrocarbon as Diesel (TPHd) Concentration in Groundwater in Parts Per Billion (ppb)
- 15,000- TPHd Concentration Countour
- ND Not Detected above Reported Detection Limit

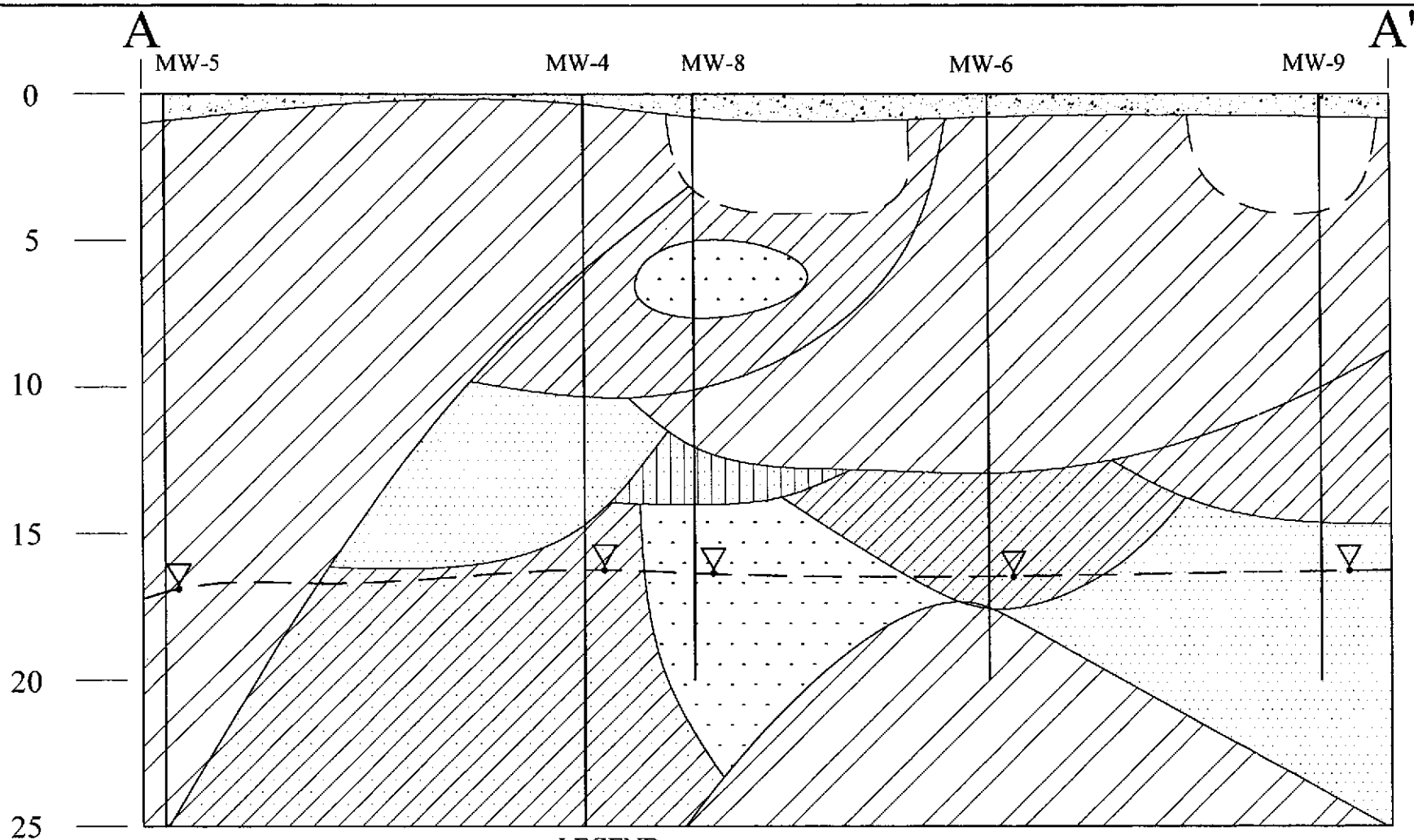
Note:
 1. Groundwater samples collected June 13,2002
 2. Contour interval- as labeled

SCALE: 1 inch = 20 FEET (approximately)

FIGURE 7: TPHd CONCENTRATIONS IN GROUNDWATER

Source of base map:
 1. GeoPlexus, Inc.
 2. City of Albany, Engineering Dept.

ALBANY HILL MINI MART
 800 San Pablo Avenue
 Albany, California
ADVANCED ASSESSMENT AND REMEDIATION SERVICES
 2380 Salvio Street, Suite 202
 Concord, CA 94520



0 30
Scale in feet

Vertical Exaggeration 3x

LEGEND










- | | | | | | |
|---|----------|--|-------------------|---|-----------------|
|  | Fill |  | CL- Silty Clay |  | SM- Silty Sand |
|  | Concrete |  | SP- Gravelly Sand |  | SW- Sand |
|  | CH- Clay |  | SC- Cleyey Sand |  | 1st Groundwater |

FIGURE 8: GEOLOGIC CROSS SECTION A-A'

Albany Hill Mini Mart
800 San Pablo Avenue
Albany, California

ADVANCED ASSESSMENT AND REMEDIATION SERVICES

2380 Salvio Street, Suite 202
Concord, California 94520

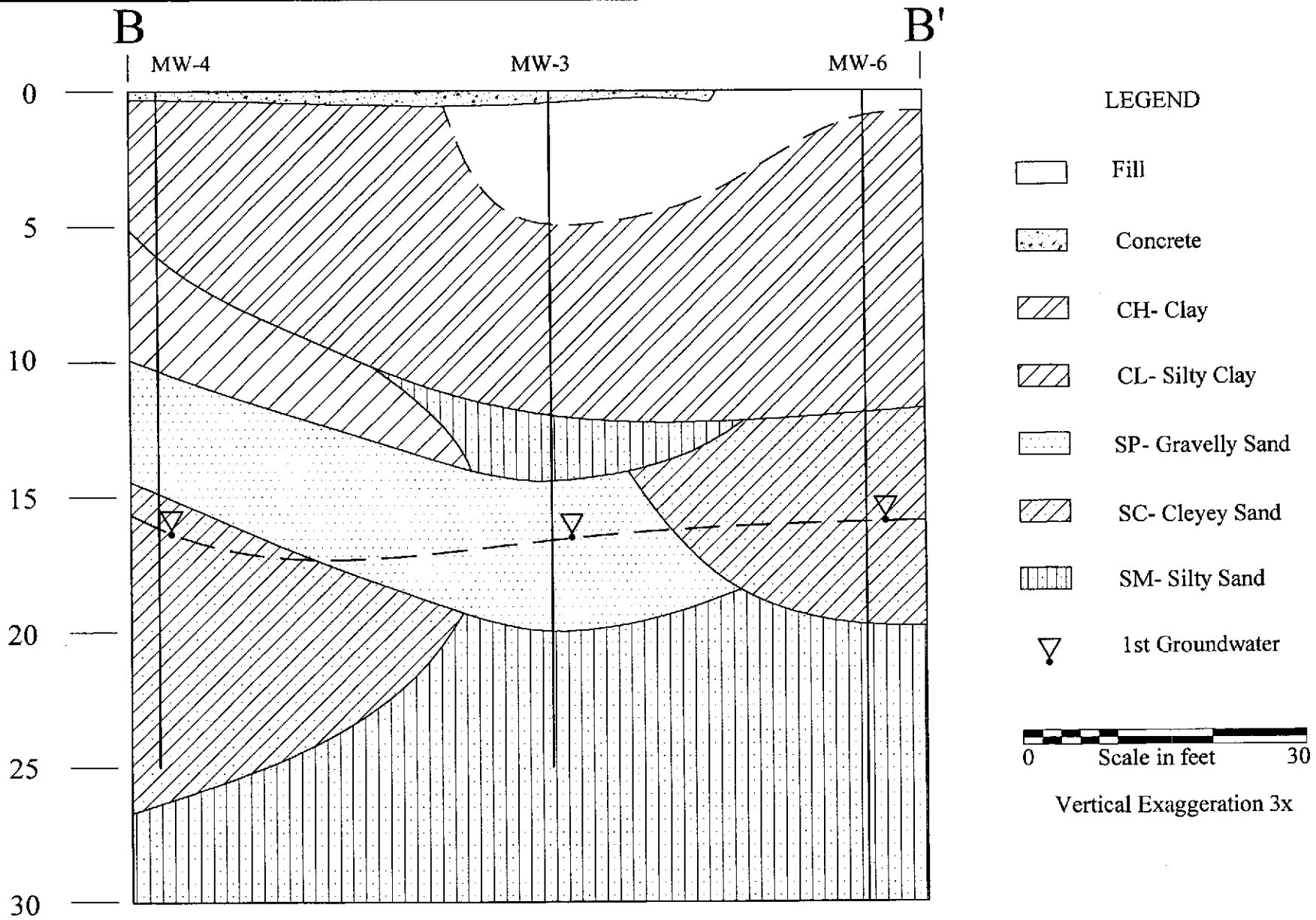
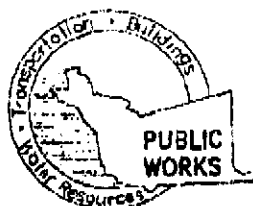


FIGURE 9: GEOLOGIC CROSS SECTION B-B'
 Albany Hill Mini Mart
 800 San Pablo Avenue
 Albany, California

ADVANCED ASSESSMENT AND REMEDIATION SERVICES
 2380 Salvio Street, Suite 202
 Concord, California 94520



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
 399 ELMHURST ST. HAYWARD CA. 94544-1395
 PHONE (510) 670-4633 James Yoo
 FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
 RESTRICTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 800 San Pablo Ave.
Albany, CA 94706

CLIENT Name Mohinda S and Jopinder K. Sikand
 Address 1300 Plumpton Drive Phone 925-256-1385
 City Walnut Creek Zip 94595

APPLICANT Name Advanced Assessment & Remediation Services
 Address 2380 Salvio Street, Suite 202 Phone 925-363-1999
 City Concord Zip 94520

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input checked="" type="checkbox"/>	Well Destruction	<input type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

DRILLER'S NAME: Gregg Drilling & Testing

DRILLER'S LICENSE NO: C57 485165

WELL PROJECTS

Drill Hole Diameter	<u>8</u> in	Maximum Depth	<u>30</u> ft
Casing Diameter	<u>3</u> in	Owner's Well Number	<u>MW-5</u>
Surface Seal Depth	<u>8</u> ft		

GEOTECHNICAL PROJECTS

Number of Borings	<u>1</u>	Maximum Depth	<u>1</u> ft
Hole Diameter	<u>4</u> in		

ESTIMATED STARTING DATE: June 5, 2002
 ESTIMATED COMPLETION DATE: June 7, 2002

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE: [Signature] DATE: 5/6/02

PLEASE PRINT NAME: TRIDIB K. GUHA Rev. 5-13-00

FOR OFFICE USE
 PERMIT NUMBER W02-0526

WELL NUMBER _____
 APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specifically approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

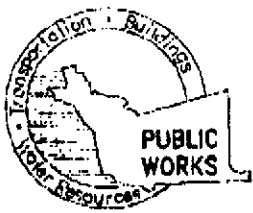
F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS - SC#1 Attached.

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED: [Signature] DATE: 5-14-02



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
 399 ELMHURST ST. HAYWARD CA. 94544-1395
 PHONE (510) 670-6633 James Yoo
 FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
 DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT: 800 San Pablo Ave
Albany, CA 94706

PERMIT NUMBER: 1402-0527
 WELL NUMBER: _____
 APN: _____

PERMIT CONDITIONS

Current Permit Requirements Apply

CLIENT Name: Mohinder S. and Joginder K. Sikand
 Address: 1300 Pharrigan Drive Phone: 925-236-1385
 City: Walnut Creek Zip: 94595

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT Name: Advanced Assessment & Remediation Services
 Address: 2380 Salvio Street, Suite 202 Phone: 925-363-1998
 City: Concord Zip: 94520

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input checked="" type="checkbox"/>	Well Destruction	<input type="checkbox"/>

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

DRILLING METHOD:

Mini Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

DRILLER'S NAME: Gregg Drilling & Testing

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

DRILLER'S LICENSE NO: C57485165

G. SPECIAL CONDITIONS - SC #1 Attached.

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

WELL PROJECTS

Drill Hole Diameter	<u>8</u> in	Maximum	
Casing Diameter	<u>2</u> in	Depth	<u>30</u> ft
Surface Seal Depth	<u>8</u> ft	Owner's Well Number	<u>MW-6</u>

GEOTECHNICAL PROJECTS

Number of Borings		Maximum	
Hole Diameter		Depth	

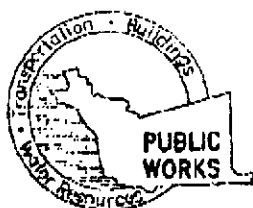
ESTIMATED STARTING DATE: June 5, 2002
 ESTIMATED COMPLETION DATE: June 7, 2002

APPROVED: _____ DATE: 5-14-02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE: [Signature] DATE: 5/14/02

PLEASE PRINT NAME: TRUDIB K. GUHA Rev 5-13-00



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT: 806 San Pablo Ave.
Albany, CA 94706

CLIENT
Name: Mehinder S. and Jaginder K. Sidani
Address: 1300 Pinnington Drive Phone: 925-256-1385
City: Walnut Creek Zip: 94595

APPLICANT
Name: Advanced Assessment & Remediation Services
Address: 2380 Salvio Street, Suite 202 Phone: 925-363-1999
City: Concord Zip: 91520

TYPE OF PROJECT

Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S NAME: Gregg Drilling & Testing

DRILLER'S LICENSE NO: C 57 485165

WELL PROJECTS

Drill Hole Diameter: 8 in. Maximum
Casing Diameter: 2 in. Depth: 20 ft.
Surface Seal Depth: 8 ft. Owner's Well Number: MW-8/W

GEO TECHNICAL PROJECTS

Number of Borings: _____ Maximum
Hole Diameter: _____ in. Depth: _____ ft.

ESTIMATED STARTING DATE: June 5, 2002
ESTIMATED COMPLETION DATE: June 7, 2002

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE: [Signature] DATE: 5/6/02

PLEASE PRINT NAME: TRIDIB K. GUHA Rev 5-13-00

FOR OFFICE USE

PERMIT NUMBER: W02-0528
WELL NUMBER: _____
APN: _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED: [Signature] DATE: 5-14-02



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James You
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE:

LOCATION OF PROJECT 800 San Pablo Ave
Albany, CA 94706

CLIENT
Name Mohinder S and Joginder K Sikand
Address 1300 Parmigan Drive Phone 925-256-1385
City Walnut Creek Zip 94595

APPLICANT
Name Advanced Assessment & Remediation Services
Address 2380 Salvin Street, Suite 202 Phone 925-363-1999
City Concord Zip 94520

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S NAME Gregg Drilling & Testing

DRILLER'S LICENSE NO C57 485165

WELL PROJECTS
Drill Hole Diameter 8 in Maximum
Casing Diameter 2 in Depth 30 ft
Surface Seal Depth 8 ft Owner's Well Number MW-4

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in Depth _____ ft

ESTIMATED STARTING DATE June 5, 2002
ESTIMATED COMPLETION DATE June 7, 2002

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [Signature] DATE 5/1/02

PLEASE PRINT NAME TRIDHU K. GOHA Rev 5-13-00

FOR OFFICE USE

PERMIT NUMBER WD2-0529
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted coatings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 5/1/02



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
 399 ELMHURST ST. HAYWARD CA. 94544-1395
 PHONE (510) 670-6633 James Yoo
 FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
 DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 800 San Pablo Ave.
Albany, CA 94706

CLIENT
 Name Mahender S. and Joginder K. Sikand
 Address 1300 Pasmigan Drive Phone 925-256-1335
 City Walnut Creek Zip 94595

APPLICANT
 Name Advanced Assessment & Remediation Services
 Address 2380 Salvio Street, Suite 202 Phone 925-363-1928
 City Concord Zip 94520

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

DRILLER'S NAME Gregg Drilling & Testing
 DRILLER'S LICENSE NO. C57485165

WELL PROJECTS

Drill Hole Diameter	<u>8</u> in.	Maximum Depth	<u>20</u> ft.
Casing Diameter	<u>2</u> in.	Owner's Well Number	<u>MW-71W</u>
Surface Seal Depth	<u>6</u> ft.		

GEOTECHNICAL PROJECTS

Number of Borings	<u>1</u>	Maximum Depth	<u>1</u> ft.
Hole Diameter	<u>1</u> in.		

ESTIMATED STARTING DATE June 5, 2002
 ESTIMATED COMPLETION DATE June 7, 2002

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-48.

APPLICANT'S SIGNATURE Fred K. Guha DATE 5/6/02
 PLEASE PRINT NAME FRED K. GUHA Rev 5-13-00

FOR OFFICE USE

PERMIT NUMBER W02-0530
 WELL NUMBER _____
 APN _____

PERMIT CONDITIONS
 Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole annode zone with concrete placed by tremie

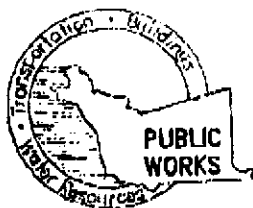
F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 5-14-02



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510)782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 800 San Pablo Ave
Albany, CA 94706

CLIENT
Name Mohinder S. and Joginder K. Sikand
Address 1300 Plumington Drive Phone 925-256-1385
City Walnut Creek Zip 94595

APPLICANT
Name Advanced Assessment & Remediation Services
Address 2380 Salvio Street, Suite 202 Phone 925-363-1999
City Concord Zip 94520

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE:

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

DRILLER'S NAME Clegg Drilling & Testing

DRILLER'S LICENSE NO. C57485165

WELL PROJECTS Soil Boring/Temporary Well (backfill with neat cement)
Drill Hole Diameter in. Maximum
Casing Diameter in. Depth 20 ft
Surface Seal Depth ft Owner's Well Number SD-6/TW

GEOTECHNICAL PROJECTS

Number of Borings Maximum
Hole Diameter in. Depth ft

ESTIMATED STARTING DATE June 5, 2002
ESTIMATED COMPLETION DATE June 7, 2002

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68

APPLICANT'S SIGNATURE Tridih K. Gulia DATE 5/6/02

PLEASE PRINT NAME TRIDIH K. GULIA Rev.5-13-00

FOR OFFICE USE

PERMIT NUMBER W02-0531
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout and mixture upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

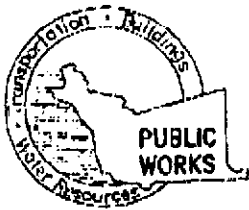
G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations

APPROVED

DATE

5-14-02



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
 399 ELMHURST ST. HAYWARD CA. 94544-1305
 PHONE (510) 670-6633 James Yoo
 FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 800 San Pablo Ave.
Albany, CA 94706

CLIENT
 Name Molinder S. and Joginder K. Sikand
 Address 1300 Plumigan Drive Phone 925-256-1335
 City Walnut Creek Zip 94595

APPLICANT
 Name Advanced Assessment & Remediation Services
 Address 2380 Salvio Street, Suite 202 Phone 925-363-1900
 City Concord Zip 94520

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

DRILLER'S NAME Gregg Drilling & Testing

DRILLER'S LICENSE NO. C57485165

WELL PROJECTS Soil boring/Temporary Well (backfill with neat cement)

Drill Hole Diameter	<u>8</u> in.	Maximum	
Casing Diameter	<u> </u> in.	Depth	<u>20</u> ft.
Surface Seal Depth	<u> </u> ft.	Owner's Well Number	<u>SB-S/TW</u>

GEOTECHNICAL PROJECTS

Number of Borings	<u> </u>	Maximum	
Hole Diameter	<u> </u> in.	Depth	<u> </u> ft.

ESTIMATED STARTING DATE June 5, 2002
 ESTIMATED COMPLETION DATE June 7, 2002

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [Signature] DATE 5/14/02

PLEASE PRINT NAME TRIDIB K. GUJIA Rev. 5-13-00

FOR OFFICE USE

PERMIT NUMBER W02-0532
 WELL NUMBER _____
 APN _____

PERMIT CONDITIONS
 Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie

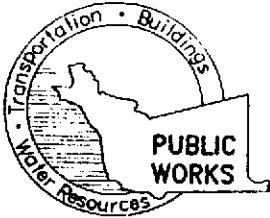
F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 5/14/02



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-6633 James Yoo

FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 800 San Pablo Ave.
Albany, CA 94706

CLIENT

Name Mohinder S. and Joginder K. Sikand
Address 1300 Parmigan Drive Phone 925-256-1385
City Walnut Creek Zip 94595

APPLICANT

Name Advanced Assessment & Remediation Services
Fax 925-363-1998
Address 2380 Salvio Street, Suite 202 Phone 925-363-1999
City Concord Zip 94520

TYPE OF PROJECT

Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other GEOPROBE

DRILLER'S NAME PRECISION SAMPLING, INC.

DRILLER'S LICENSE NO. C57 636387

WELL PROJECTS Soil Boring/Temporary Well (backfill with neat cement)

Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 20 ft.
Surface Seal Depth 6.5 ft. Owner's Well Number MW-9

GEOTECHNICAL PROJECTS

Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE June 26, 2002

ESTIMATED COMPLETION DATE June 26, 2002

FOR OFFICE USE

PERMIT NUMBER _____
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

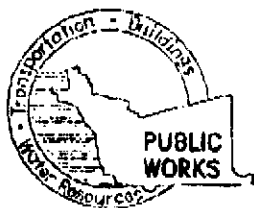
APPROVED _____ DATE _____

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [Signature] DATE 6/13/02

PLEASE PRINT NAME TRIDIB K. GUHA

Rev. 5-13-00



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 FLEMING ST. HAYWARD, CA. 94544-1395

PHONE (510) 670-6633 James Yoo FAX (510) 782-1939

PERMIT NO. W02-0526-0527

WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE
G. SPECIAL CONDITIONS #1
PLACEMENT OF MONITORING WELLS IN PUBLIC RIGHT-OF-WAY

1. Prior to installation of any monitoring wells into any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permits(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
2. Wells in the public right-of-way shall have a minimum surface seal depth of five (5) feet or the maximum depth practicable or twenty (20) feet.
3. Wells in the Public right-of-way shall have a Christy box or similar structure (flush with the road), with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or road construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
4. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
5. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days.
6. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT
 TR-0120

Permit No. 0402-6SV-0960	
Dist Co/Rte/PM 04-Ala-123-4.77/4.80	
Date May 29, 2002	
Fee Paid \$160.00	Deposit \$160.00
Performance Bond Amount (1) \$4,000.00	Payment Bond Amount (2)
Bond Company American Contractors Indemnity Company	
Bond Number (1) 161601	Bond Number (2)

In compliance with (Check one):

- Your application of May 17, 2002
- Utility Notice No. _____ of _____
- Agreement No. _____ of _____
- R/W Contract No. _____ of _____

TO: ADVANCED ASSESSMENT AND REMEDIATION
 2380 Salvio Street, Suite 202
 Concord, CA 94520

Attn: Tridib Guha
 Phone: (925) 363-1999 , PERMITTEE

And subject to the following, **PERMISSION IS HEREBY GRANTED** to:

Install two underground water monitoring wells on parking area of State Highway 04-Ala-123, Post Mile 4.77/4.80, at 800 San Pablo Avenue, in the City of Albany.

A minimum of one week prior to start of work under this permit, notice shall be given to, and approval of construction details, operations, public safety, and traffic control shall be obtained from State Representative N. Freitag, 600 Lewelling Blvd., San Leandro, 94579, 510-614 5951, weekdays, between 7:30 AM and 4:00 PM.

Immediately following completion of the work permitted herein, the permittee shall fill out and mail the Notice of completion attached to this permit.

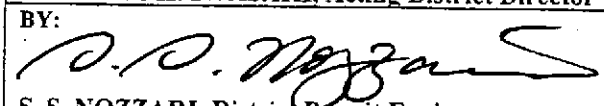
All personnel shall wear hard hats and lime green reflective vests, shirts, or jackets as appropriate .

The following attachments are also included as part of this permit (Check applicable):		In addition to fee, the permittee will be billed actual costs for:	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	-----
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
	General Provisions		Review
	Utility Maintenance Provisions		Inspection
	Special Provisions		Field Work
	A Cal-OSHA permit required prior to beginning work: # _____		

(If any Caltrans effort expended)

Yes No The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

This permit is void unless the work is completed before December 31, 2003
 This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.
 No project work shall be commenced until all other necessary permits and environmental clearances have been obtained.

	APPROVED: RANDELL H. IWASAKI, Acting District Director BY:  S. S. NOZZARI, District Permit Engineer
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The location of the monitoring wells shall not be within the traveled way portion of the highway. Their location shall be reviewed and approved by the State's representative before starting the work.

Traffic control is authorized only between 9:00 A.M. and 3:00 P.M., Monday through Friday, holidays excluded.

This permit does not authorize the closure of any traffic lane or ramp. The attached freeway traffic control plan shall be used for shoulder closures only.

Before any work is begun which will interrupt the normal flow of public traffic, approval shall be obtained from State's representative, and shoulder closures will be as shown on the attached copy of Standard Plan Sheet T-10 .

Certain details of work authorized hereby are shown on permittee's plan submitted with request for permit.

No excavation shall be left open overnight without written permission from the Caltrans representative or unless otherwise specified herein.

Drainage of treated or untreated effluent into the State drainage system is not permitted.

Upon completion of observation and testing, the well shall be abandoned in compliance with the requirements the Department of Water Resources publication "California Well Standards"- Bulletin 74 -90 latest edition.

If an accident or other incident (related to or not related to the permitted activity) occurs within, or close to the permitted activity, the permittee shall immediately stop work and remove traffic controls from the highway unless public health, welfare and safety is endangered by unfinished work. Only traffic control to protect open excavations may remain in place. After free traffic flow is restored, work in accordance with the conditions of the permit may be returned.



City of Albany



ENCROACHMENT PERMIT PERMANENT/TEMPORARY CONSTRUCTION WITHIN CITY RIGHT OF WAY

PERMIT NO. 02-103

LOCATION: 800 SAN PABLO AVE ALBANY

Receipt # 4634

NAME	ADDRESS	Phone No. Normal/Emergency	Business Lic. No. Workers Comp. No.
Applicant <u>ADVANCED ASSESSMENT & REMED. SVCS</u>	<u>2380 SALVIO STREET, SUITE 202 CONCORD, CA 94520</u>	<u>925-363-1999</u>	
Owner: <u>TRIDIB GUHA</u>	<u>SAME</u>		
Engineer / Architect <u>TRIDIB GUHA</u>	<u>SAME</u>		
Contractor <u>GREEN DRILLING & TESTING</u>	<u>950 HOWE RD. MARTINEZ, CA 94553</u>	<u>925-313-5800</u>	

TYPE OF WORK

- Sidewalk Curb & Gutter Sewer Street Tree
 Utility Co. Permanent Structure Other: INSTALLING MONITORING WELLS

DESCRIPTION OF WORK

two
Installation of flow monitoring wells.

REQUIRED CONDITIONS

- All work shall be in accordance with the attached standard conditions.
- No refund after 120 days or work begins, 70% of fee refundable within 120 days provided no work has begun.
- Permanent structures require City Council approval (City Code 14-2).
- Cut all Pavement to existing lines. CALL USA 1-800-227-2600. No damage to street trees or roots, without city authorization.
- Call for Final Inspection and Sign-Off 48 hr. in advance at (510) 528-5760.

Applicant's Signature: Tridib K. Guha Date: 5-30-02

STAFF USE ONLY	
Permit Fee Computation	
Total construction cost subject to fee:	
New construction at 8% of construction cost	
In-Lieu slurry seal fee (when street is out)	
Minimum fee per schedule (if greater than % fee)	
Total Fee due (transfer to fee schedule from) (Utilities to be billed, copy of permit to Finance)	
Special Conditions: <u>See Special Conditions</u>	
Issued by: <u>Ann Chan</u>	Date: <u>5/30/02</u>
Permit Expiration Date: <u>May 30, 2003</u> (not to exceed 180 days for date issued)	<u>365 + 180 = 545 days</u> ^{ac}
Final Sign Off by: <u>(145) of flow monitoring</u>	Date: _____

City of Albany

ENVIRONMENTAL PROTECTION STATEMENT OF RESPONSIBILITY FOR DISCHARGES & DAMAGE

I. PURPOSE

This statement is to provide notice to property owners, contractors, and others of the responsibility for compliance with Albany Municipal Code (AMC) as it relates to protection of public trees and waterways.

Public Trees: Damage to street trees or other trees located on public property is considered damage to public property. Damage to trees includes, but is not limited to cutting any amount of trees roots, ripping or tearing of branches, and peeling, tearing or scarring of tree bark. Damage may cause death and/or a dangerous condition by destabilizing the tree. Restoring a tree to its pre-damaged state can take years. Therefore, preventing damage to trees is a priority to the City of Albany.

Waterways: The City's storm water runoff system conveys rain water directly to the San Francisco Bay through a network of surface flows, underground pipes, and creek channels. Materials discharged to a sidewalk, street gutter, storm drain or creek can cause creeks and the Bay to become polluted. Any material other than rain water is considered an illicit discharge under the Federal Clean Water Act. Examples of illicit discharges include: concrete wash water, stucco wash water, paint wash water, chemicals, and runoff from stockpiled materials such as dirt aggregate, soil products, and other construction materials.

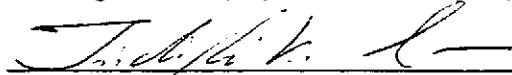
II. RESPONSIBILITY FOR DAMAGE TO PUBLIC TREES AND/OR ILLICIT DISCHARGES TO WATERWAYS

Public Trees: Pursuant to Albany Municipal Code Section 14-1.2., it is unlawful to cause damage to public property. When a public tree is damaged the cost of the damage and the value of the tree will be calculated by a certified arborist in accordance with International Society of Arboriculture Standards. Because valuable resources such as time, energy and money are invested in trees over many years, the calculated value of a tree can be high. The party damaging the tree is liable for all costs associated with the loss of the tree and the repair or replacement of the tree.

Waterways: Pursuant to Albany Municipal Code Section 15.4, it is unlawful to discharge materials (liquid or solid) to a sidewalk, street, gutter, storm drain or creek. An illicit discharge is defined as "any discharge to the City storm drain system that is not composed entirely of storm water...". The contractor and/or property owner is responsible for all fines and costs associated with the illicit discharge.

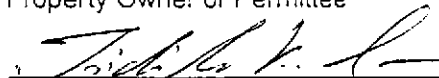
III. CERTIFICATION OF COMPLIANCE

I understand that as the applicant I am responsible for any damage to public trees and or all illicit discharges resulting from this project and that I am responsible for all fees and fines as a result or non-compliance.



Property Owner or Permittee

5/30/02
Date



Business Name & Contractor's Authorized Representative

5/30/02
Date

Location or Title of Project: 800 SAN PABLO AVE

For more information, contact the Community Development & Environmental Resources Department at (510) 528-5760

LOG OF EXPLORATORY BORING NO. MW-4

Project: Albany Hill Mini Mart
 Drilling Co.: Gregg Drilling
 Start Date: 6/5/02
 End Date: 6/5/02

Drill Method: HSA
 Driller: R. Deason
 Drill Rig: Rhino D-15

Logged By: T. Guha
 Sampler: Split Spoon
 Hole Dia.: 6 inch



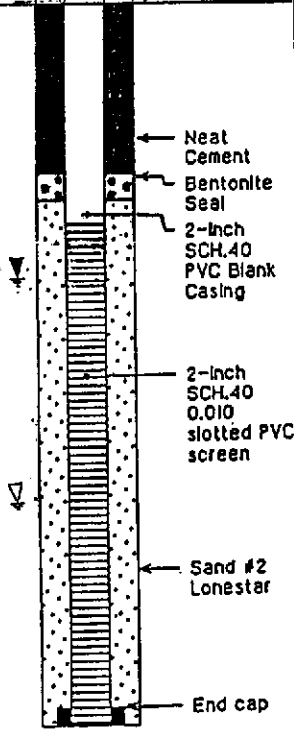
LITHOLOGIC DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	DRIVEN in	RECOVERY-in	OVA (ppm)	BORING CLOSURE
CONCRETE 2"			0					<p style="text-align: right; margin-right: 20px;">Christy Box</p> <p style="text-align: right; margin-right: 20px;">Neat Cement</p> <p style="text-align: right; margin-right: 20px;">Bentonite Seal</p> <p style="text-align: right; margin-right: 20px;">2-inch SCH.40 PVC Blank Casing</p> <p style="text-align: right; margin-right: 20px;">2-inch SCH.40 0.010 slotted PVC screen</p> <p style="text-align: right; margin-right: 20px;">Sand #2 Lonestar</p> <p style="text-align: right; margin-right: 20px;">End cap</p>
CLAY: dark greenish gray, moist, very stiff color changes to brown	CH	/ / / / /	-5-	■			100	
CLAY: light gray with angular gravels, moist, stiff	CL	/ / / / /	-10-	■			950	
SAND: light brown, with angular gravels moist, dense, very strong gasoline odor	SP	-15-	■			70	
SAND: brown, with clay, very moist, dense wet	SC	/ / / / /	-20-	■				
			-25-	■				
<i>BORE HOLE TERMINATED @ 25 feet</i>			-30-	■				
<p><i>Note:</i></p>								<p>Project No. 00010 Page 1 of 1</p>
<p>ADVANCED ASSESSMENT & REMEDIATION SERVICES 2380 Salvio Street, Suite 202 Concord, CA 94520</p>								

LOG OF EXPLORATORY BORING NO. MW-5

Project: Albany Hill Mini Mart
Drilling Co.: Gregg Drilling
Start Date: 6/5/02
End Date: 6/5/02

Drill Method: HSA
Driller: R. Deason
Drill Rig: Rhino D-15

Logged By: T. Guha
Sampler: Split Spoon
Hole Dia.: 6 inch

LITHOLOGIC DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	DRIVEN in	RECOVERY-in	OVA (ppm)	BORING CLOSURE
CONCRETE 7"			0					
CLAY: greenish gray, moist, very stiff Color changes to light gray, moist, very stiff, strong gasoline odor wet	CH		-5- -10- -15- -20- -25-	■ ■ ■ ■ ■ ■			150 650 0	
BORE HOLE TERMINATED @ 25 feet			-30-	■				
ADVANCED ASSESSMENT & REMEDIATION SERVICES 2380 Salvio Street, Suite 202 Concord, CA 94520	<i>Note:</i>							Project No. 00010 Page 1 of 1

LOG OF EXPLORATORY BORING NO. MW-6

Project: Albany Hill Mini Mart
 Drilling Co.: Gregg Drilling
 Start Date: 6/5/02
 End Date: 6/5/02

Drill Method: HSA
 Driller: R. Deason
 Drill Rig: Rhino D-15

Logged By: T. Guha
 Sampler: Split Spoon
 Hole Dia.: 6 inch

LITHOLOGIC DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	DRIVEN in	RECOVERY-in	OVA (ppm)	BORING CLOSURE
Top soil with rounded gravels 8"			0					<p style="text-align: right; margin-right: 10px;">Christy Box</p> <ul style="list-style-type: none"> ← Neat Cement ← Bentonite Seal ← 2-Inch SCH.40 PVC Blank Casing ← 2-Inch SCH.40 0.010 slotted PVC screen ← Sand #2 Lonestar ← End cap
CLAY: greenish gray, slightly moist, very stiff	CH	[Diagonal Hatching]	-5-	■			0	
Color changes to olive green, slightly moist, very stiff			-10-	■			100	
strong gasoline odor			-15-	■			10	
SILTY CLAY: yellowish brown, moist, stiff	CL	[Diagonal Hatching]	-20-	■			0	
wet			-25-	■				
SILTY SAND: brown, dense, wet	SM	[Vertical Dotted]	-30-	■				
BORE HOLE TERMINATED @ 30 feet								

ADVANCED ASSESSMENT & REMEDIATION SERVICES
 2380 Salvio Street, Suite 202
 Concord, CA 94520

Note: Hit PVC pipe at 2 feet while hand augering; move 1 foot north, hand auger to 5 feet. Borehole was drilled to 30 feet, sampled and logged and backfilled with bentonite chips to 25 feet and a monitoring well was constructed to 25 feet (see text).


Project No. 00010
 Page 1 of 1

LOG OF EXPLORATORY BORING NO. SB-6/TW

Project: Albany Hill Mini Mart
 Drilling Co.: Gregg Drilling
 Start Date: 6/6/02
 End Date: 6/6/02

Drill Method: HSA
 Driller: R. Deason
 Drill Rig: Rhino D-15

Logged By: T. Guha
 Sampler: Split Spoon
 Hole Dia.: 6 inch

LITHOLOGIC DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	DRIVEN in	RECOVERY-in	OVA (ppm)	BORING CLOSURE
CONCRETE 7"			0					 <p style="margin-left: 20px;">Neat Cement</p>
CLAY: dark gray, moist, very stiff color changes to greenish gray	CH	/ / / / /	-5-				5	
 very strong gasoline odor		/ / / / /	-10-	■			900	
SAND: yellowish brown, with silt & clay moist, dense, strong gas odor	SC	. / . / . / . / . /	-15-				200	
CLAY: greenish gray, very stiff, wet	CH	/ / / / /	-20-					
<i>BORE HOLE TERMINATED @ 20 feet</i>			-25-					
			-30-					

ADVANCED ASSESSMENT & REMEDIATION SERVICES
 2380 Salvio Street, Suite 202
 Concord, CA 94520

Note: Borehole was drilled by using hollow stem augers to 20 feet. A groundwater sample was collected (see text).

Project No.
 00010
 Page 1 of 1

LOG OF EXPLORATORY BORING NO. MW-7

Project: Albany Hill Mini Mart
 Drilling Co.: Gregg Drilling
 Start Date: 6/6/02
 End Date: 6/6/02

Drill Method: HSA
 Driller: R. Deason
 Drill Rig: Rhino D-15

Logged By: T. Guha
 Sampler: Split Spoon
 Hole Dia.: 6 inch

LITHOLOGIC DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	DRIVEN in	RECOVERY-in	OVA (ppm)	BORING CLOSURE
CONCRETE 7"			0					
CLAY: dark brown, with small gravels & sand, moist	CL	/ / / /	1					
CLAY: light gray, moist, very stiff	CH	/ / / /	5					
CLAY: gray with small gravels, moist, stiff, strong odor	CL	/ / / /	10	■				
SILTY SAND: greenish gray, moist, stiff	SM	15					
SAND: greenish gray, well sorted, moist, dense, gas odor	SW	15	■				
SAND: mottled brown, with angular gravels, wet			20					
SAND: yellowish brown, well sorted			20					
<i>BORE HOLE TERMINATED @ 20 feet</i>			25					
			30					

ADVANCED ASSESSMENT & REMEDIATION SERVICES
 2380 Salvio Street, Suite 202
 Concord, CA 94520

Note:

Project No.
 00010
 Page 1 of 1

LOG OF EXPLORATORY BORING NO. MW-8

Project: Albany Hill Mini Mart
 Drilling Co.: Gregg Drilling
 Start Date: 6/6/02
 End Date: 6/6/02

Drill Method: HSA
 Driller: R. Deason
 Drill Rig: Rhino D-15

Logged By: T. Guha
 Sampler: Split Spoon
 Hole Dia.: 6 inch

LITHOLOGIC DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	DRIVEN in	RECOVERY in	OVA (ppm)	BORING CLOSURE
CONCRETE 7" FILL: gravels and fines			0					
SILTY CLAY: light brown, moist, stiff	CL	/ /	-5-				5	
SAND: brown, small rounded gravels, moist, dense	SW	. . .	-10-				300	
SILTY CLAY: light brown, moist, stiff	CL	/ /	-15-				220	
CLAY: light gray, moist, very stiff, strong odor	CH	/ / /	-20-	■				
SILTY SAND: greenish gray, moist, stiff	SM	. . .	-25-					
SAND: greenish gray, well sorted, moist, dense, gas odor	SW	. . .	-30-	■				
SAND: mottled brown, with angular gravels, wet								
SAND: yellowish brown, well sorted								
BORE HOLE TERMINATED @ 20 feet								

ADVANCED ASSESSMENT & REMEDIATION SERVICES
 2380 Salvio Street, Suite 202
 Concord, CA 94520

Note:

Project No.
 00010
 Page 1 of 1

LOG OF EXPLORATORY BORING NO. MW-9

Project: Albany Hill Mini Mart
 Drilling Co.: Precision Sampling
 Start Date: 6/24/02
 End Date: 6/24/02

Drill Method: Direct Push Logged By: T. Guha
 Driller: J. Carranza Sampler: Macrocore
 Drill Rig: Geoprobe XD-2 Hole Dia.: 3 1/2 in.

LITHOLOGIC DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	DRIVEN in	RECOVERY-in	OVA (ppm)	BORING CLOSURE
CONCRETE 4"			0					
FILL: gravels, sands and clay			0					
CLAY: greenish gray, moist, very stiff color changes to brown	CH		-5-	■			0	
CLAY: light gray with angular gravels, moist, stiff, gas odor	CL		-10-	■			820	
SAND: light brown, with angular gravels moist, dense, very strong gasoline odor wet	SP		-15-	■			1200	
			-20-	■			0	
<i>BORE HOLE TERMINATED @ 20 feet</i>								
			-25-					
			-30-					

ADVANCED ASSESSMENT & REMEDIATION SERVICES
 2380 Salvio Street, Suite 202
 Concord, CA 94520

Note: Drilled using 3 1/2 inch dia. rod push; drilling was slow and will not advanced beyond 16 feet. Changed to 2 inch dia. Rod, drilled to 20 feet, Again changed to 3 1/2 inch rod and drilling stopped at 17 feet. Constructed a well to 17 feet, hoping for groundwater. It is a dry hole (see text)

Project No.
 00010
 Page 1 of 1

UNIFIED SOIL CLASSIFICATION SYSTEM

ASTM D2488-84

MAJOR DIVISIONS			SYMBOLS	TYPICAL NAMES	
COARSE GRAINED SOILS OVER 50% > No. 200 SIEVE SIZE	GRAVELS	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		Well graded gravels or gravel-sand mixtures, little or no fines
			GP		Poorly graded gravels or gravel-sand mixtures, little or no fines
		GRAVELS WITH OVER 12% FINES	GM		Silty gravels, gravel-sand mixtures
			GC		Clayey gravels, gravel-sand-clay mixtures
	SANDS	CLEAN SANDS WITH LITTLE OR NO FINES	SW		Well graded sands or gravelly sands, little or no fines
			SP		Poorly graded sands or gravelly sands, little or no fines
		SANDS WITH OVER 12% FINES	SM		Silty sands, sand-silt mixtures
			SC		Clayey sands, sand-clay mixtures *
FINE GRAINED SOILS OVER 50% < No. 200 SIEVE SIZE	SILTS & CLAYS		ML		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
	LIQUID LIMIT 50% OR LESS		CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
	LIQUID LIMIT 50% OR LESS		OL		Organic silts and organic silty clays of low plasticity
	SILTS & CLAYS		MH		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
	LIQUID LIMIT GREATER THAN 50%		CH		Inorganic clays of high plasticity, fat clays
	LIQUID LIMIT GREATER THAN 50%		OH		Organic clays of medium to high plasticity, organic silty clays, organic silts
	HIGHLY ORGANIC SOILS		Pt		Peat and other highly organic soils

SYMBOLS KEY

	Driven Interval
	Bulk or Classification Sample
	Laboratory Sample
	Undisturbed Samp. for Classification
	First encountered groundwater level
	Static groundwater level
(10YR 4/4) Munsell soil color 1990 edition	

GRAIN SIZE CHART

CLASSIFICATION	RANGE OF GRAIN SIZES	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL coarse fine	3" to No.4 3" to 3/4" 3/4" to No.4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76
SAND coarse medium fine	No.4 to No.200 No.4 to No.10 No.10 to No.40 No.40 to No.200	4.76 to 0.074 4.76 to 2.00 2.00 to 0.420 0.420 to 0.074
SILT & CLAY	Below No.200	Below No.0.074

ADVANCED ASSESSMENT & REMEDIATION SERVICES
 2380 Salvio Street, Suite 202
 Concord, CA 94520

SOIL CLASSIFICATION CHART AND KEY TO BORING LOG



North State Environmental Laboratory

CA ELAP#1753

90 South Spruce Avenue, Suite V • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-4560

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0754
 Client: Advanced Assessment & Remd.
 Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/15/2002

Gasoline, BTEX and MTBE by Methods SW8020F
 Diesel Range Hydrocarbons by Method CATFH

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0754-11	Client ID: MW-4-S@6'			06/05/2002	SO
Benzene	SW8020F	479	UG/KG		06/12/2002
Ethylbenzene	SW8020F	77	UG/KG		06/12/2002
Gasoline Range Organics	SW8020F	3050	UG/KG		06/12/2002
Methyl-tert-butyl ether	SW8020F	12	UG/KG		06/12/2002
Toluene	SW8020F	452	UG/KG		06/12/2002
Xylenes	SW8020F	417	UG/KG		06/12/2002
Diesel Fuel #2	CATFH	ND<1	MG/KG		06/12/2002
Sample: 02-0754-12	Client ID: MW-4-S@11'			06/05/2002	SO
Benzene	SW8020F	706	UG/KG		06/13/2002
Ethylbenzene	SW8020F	3000	UG/KG		06/13/2002
Gasoline Range Organics	SW8020F	144000	UG/KG		06/13/2002
Methyl-tert-butyl ether	SW8020F	*70	UG/KG		06/13/2002
Toluene	SW8020F	3030	UG/KG		06/13/2002
Xylenes	SW8020F	17600	UG/KG		06/13/2002
Diesel Fuel #2	CATFH	**147	MG/KG		06/12/2002
Sample: 02-0754-13	Client ID: MW-4-S@16'			06/05/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/12/2002
Ethylbenzene	SW8020F	33	UG/KG		06/12/2002
Gasoline Range Organics	SW8020F	2160	UG/KG		06/12/2002
Methyl-tert-butyl ether	SW8020F	ND<5	UG/KG		06/12/2002
Toluene	SW8020F	7	UG/KG		06/12/2002

*Confirmed by GC/MS.**Does not match diesel pattern.



North State Environmental Laboratory

CA ELAP#1753

90 South Spruce Avenue, Suite V • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-4560

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0754
 Client: Advanced Assessment & Remd.
 Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/15/2002

Gasoline, BTEX and MTBE by Methods SW8020F
 Diesel Range Hydrocarbons by Method CATFH

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0754-13 Client ID: MW-4-S@16'					
				06/05/2002	SO
Xylenes	SW8020F	203	UG/KG		06/12/2002
Diesel Fuel #2	CATFH	ND<1	MG/KG		06/12/2002
Sample: 02-0754-14 Client ID: MW-4-S@21'					
				06/05/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/12/2002
Ethylbenzene	SW8020F	ND<5	UG/KG		06/12/2002
Gasoline Range Organics	SW8020F	ND<500	UG/KG		06/12/2002
Methyl-tert-butyl ether	SW8020F	ND<5	UG/KG		06/12/2002
Toluene	SW8020F	ND<5	UG/KG		06/12/2002
Xylenes	SW8020F	ND<10	UG/KG		06/12/2002
Diesel Fuel #2	CATFH	ND<1	MG/KG		06/12/2002
Sample: 02-0754-15 Client ID: MW-4-S@26'					
				06/05/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/12/2002
Ethylbenzene	SW8020F	ND<5	UG/KG		06/12/2002
Gasoline Range Organics	SW8020F	ND<500	UG/KG		06/12/2002
Methyl-tert-butyl ether	SW8020F	ND<5	UG/KG		06/12/2002
Toluene	SW8020F	ND<5	UG/KG		06/12/2002
Xylenes	SW8020F	ND<10	UG/KG		06/12/2002
Diesel Fuel #2	CATFH	ND<1	MG/KG		06/12/2002

*Confirmed by GC/MS.**Does not match diesel pattern.



North State Environmental Laboratory

CA ELAP# 1753

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C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

Lab Number: 02-0754
 Client: Advanced Assessment & Remd.
 Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/15/2002

Gasoline, BTEX and MTBE by Methods SW8020F
 Diesel Range Hydrocarbons by Method CATH

Analyte	Method	Reporting Limit	Unit	Blank	Avg MS/MSD Recovery	RPD
Gasoline Range	SW8020F	500	UG/KG	ND	94/92	2
Benzene	SW8020F	5	UG/KG	ND	105/100	5
Toluene	SW8020F	5	UG/KG	ND	101/96	5
Ethylbenzene	SW8020F	5	UG/KG	ND	105/102	3
Xylenes	SW8020F	10	UG/KG	ND	102/97	5
Methyl-tert-butyl	SW8020F	5	UG/KG	ND	111/105	6
Diesel Fuel #2	CATH	1	MG/KG	ND	88/102	15

ELAP Certificate NO:1753

Reviewed and Approved

John A. Murphy, Laboratory Director



North State Environmental Laboratory

CA ELAP#1753

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C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0754
 Client: Advanced Assessment & Remd.
 Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/15/2002

Gasoline, BTEX and MTBE by Methods SW8020F
 Diesel Range Hydrocarbons by Method CATFH

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0754-01 Client ID: MW-6-S@6'					
				06/05/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/11/2002
Ethylbenzene	SW8020F	ND<5	UG/KG		06/11/2002
Gasoline Range Organics	SW8020F	ND<500	UG/KG		06/11/2002
Methyl-tert-butyl ether	SW8020F	76	UG/KG		06/11/2002
Toluene	SW8020F	ND<5	UG/KG		06/11/2002
Xylenes	SW8020F	ND<10	UG/KG		06/11/2002
Diesel Fuel #2	CATFH	ND<1	MG/KG		06/12/2002
Sample: 02-0754-02 Client ID: MW-6-S@11'					
				06/05/2002	SO
Benzene	SW8020F	55	UG/KG		06/11/2002
Ethylbenzene	SW8020F	ND<5	UG/KG		06/11/2002
Gasoline Range Organics	SW8020F	1200	UG/KG		06/11/2002
Methyl-tert-butyl ether	SW8020F	17	UG/KG		06/11/2002
Toluene	SW8020F	ND<5	UG/KG		06/11/2002
Xylenes	SW8020F	ND<10	UG/KG		06/11/2002
Diesel Fuel #2	CATFH	ND<1	MG/KG		06/12/2002
Sample: 02-0754-03 Client ID: MW-6-S@16'					
				06/05/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/11/2002
Ethylbenzene	SW8020F	ND<5	UG/KG		06/11/2002
Gasoline Range Organics	SW8020F	ND<500	UG/KG		06/11/2002
Methyl-tert-butyl ether	SW8020F	13	UG/KG		06/11/2002
Toluene	SW8020F	ND<5	UG/KG		06/11/2002

*Confirmed by GC/MS.**Does not match diesel pattern.



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C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0754
Client: Advanced Assessment & Remd.
Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/15/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATFH

Table with 5 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains three sample entries (02-0754-03, 02-0754-04, 02-0754-05) with various analyte results.

*Confirmed by GC/MS.**Does not match diesel pattern.



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CA ELAP#1753

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0754
Client: Advanced Assessment & Remd.
Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/15/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATFH

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0754-06 Client ID: MW-5-S@6'					
				06/05/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/11/2002
Ethylbenzene	SW8020F	112	UG/KG		06/11/2002
Gasoline Range Organics	SW8020F	7720	UG/KG		06/11/2002
Methyl-tert-butyl ether	SW8020F	ND<5	UG/KG		06/11/2002
Toluene	SW8020F	ND<5	UG/KG		06/11/2002
Xylenes	SW8020F	684	UG/KG		06/11/2002
Diesel Fuel #2	CATFH	ND<1	MG/KG		06/12/2002
Sample: 02-0754-07 Client ID: MW-5-S@11'					
				06/05/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/11/2002
Ethylbenzene	SW8020F	195	UG/KG		06/11/2002
Gasoline Range Organics	SW8020F	12400	UG/KG		06/11/2002
Methyl-tert-butyl ether	SW8020F	42	UG/KG		06/11/2002
Toluene	SW8020F	29	UG/KG		06/11/2002
Xylenes	SW8020F	243	UG/KG		06/11/2002
Diesel Fuel #2	CATFH	ND<1	MG/KG		06/12/2002
Sample: 02-0754-08 Client ID: MW-5-S@16'					
				06/05/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/11/2002
Ethylbenzene	SW8020F	ND<5	UG/KG		06/11/2002
Gasoline Range Organics	SW8020F	ND<500	UG/KG		06/11/2002
Methyl-tert-butyl ether	SW8020F	ND<5	UG/KG		06/11/2002
Toluene	SW8020F	ND<5	UG/KG		06/11/2002

*Confirmed by GC/MS.**Does not match diesel pattern.



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C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0754
 Client: Advanced Assessment & Remd.
 Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/15/2002

Gasoline, BTEX and MTBE by Methods SW8020F
 Diesel Range Hydrocarbons by Method CATFH

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0754-08	Client ID: MW-5-S@16'			06/05/2002	SO
Xylenes	SW8020F	ND<10	UG/KG		06/11/2002
Diesel Fuel #2	CATFH	ND<1	MG/KG		06/12/2002
Sample: 02-0754-09	Client ID: MW-5-S@21'			06/05/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/11/2002
Ethylbenzene	SW8020F	ND<5	UG/KG		06/11/2002
Gasoline Range Organics	SW8020F	ND<500	UG/KG		06/11/2002
Methyl-tert-butyl ether	SW8020F	ND<5	UG/KG		06/11/2002
Toluene	SW8020F	ND<5	UG/KG		06/11/2002
Xylenes	SW8020F	ND<10	UG/KG		06/11/2002
Diesel Fuel #2	CATFH	ND<1	MG/KG		06/12/2002
Sample: 02-0754-10	Client ID: MW-5-S@26'			06/05/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/12/2002
Ethylbenzene	SW8020F	ND<5	UG/KG		06/12/2002
Gasoline Range Organics	SW8020F	ND<500	UG/KG		06/12/2002
Methyl-tert-butyl ether	SW8020F	ND<5	UG/KG		06/12/2002
Toluene	SW8020F	ND<5	UG/KG		06/12/2002
Xylenes	SW8020F	ND<10	UG/KG		06/12/2002
Diesel Fuel #2	CATFH	ND<1	MG/KG		06/12/2002

*Confirmed by GC/MS. **Does not match diesel pattern.



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CA ELAP# 1753

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0763
Client: Advanced Assessment & Remd.
Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/19/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATHF

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0763-01 Client ID: MW-8-S@11'					
				06/06/2002	SO
Benzene	SW8020F	217	UG/KG		06/17/2002
Ethylbenzene	SW8020F	75	UG/KG		06/17/2002
Gasoline Range Organics	SW8020F	3520	UG/KG		06/17/2002
Methyl-tert-butyl ether	SW8020F	39	UG/KG		06/17/2002
Toluene	SW8020F	173	UG/KG		06/17/2002
Xylenes	SW8020F	455	UG/KG		06/17/2002
Diesel Fuel #2	CATHF	*13	MG/KG		06/14/2002
Sample: 02-0763-02 Client ID: MW-8-S@16'					
				06/06/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/13/2002
Ethylbenzene	SW8020F	11	UG/KG		06/13/2002
Gasoline Range Organics	SW8020F	1820	UG/KG		06/13/2002
Methyl-tert-butyl ether	SW8020F	351	UG/KG		06/13/2002
Toluene	SW8020F	6	UG/KG		06/13/2002
Xylenes	SW8020F	64	UG/KG		06/13/2002
Diesel Fuel #2	CATHF	ND<1	MG/KG		06/14/2002
Sample: 02-0763-03 Client ID: SB-6-S@11'					
				06/06/2002	SO
Benzene	SW8020F	731	UG/KG		06/17/2002
Ethylbenzene	SW8020F	242	UG/KG		06/17/2002
Gasoline Range Organics	SW8020F	14900	UG/KG		06/17/2002
Methyl-tert-butyl ether	SW8020F	**610	UG/KG		06/17/2002
Toluene	SW8020F	610	UG/KG		06/17/2002

*Does not match diesel. **Confirmed by GC/MS method 8260B.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0763
Client: Advanced Assessment & Remd.
Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/19/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATHF

Table with 5 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains three sample entries with various analyte results.

*Does not match diesel. **Confirmed by GC/MS method 8260B.



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CA ELAP#1753

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0763
Client: Advanced Assessment & Remd.
Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/19/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATFH

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0763-06	Client ID: SB-6/GW			06/06/2002	W
Benzene	SW8020F	332	UG/L		06/13/2002
Ethylbenzene	SW8020F	127	UG/L		06/13/2002
Gasoline Range Organics	SW8020F	4270	UG/L		06/13/2002
Methyl-tert-butyl ether	SW8020F	**5300	UG/L		06/13/2002
Toluene	SW8020F	226	UG/L		06/13/2002
Xylenes	SW8020F	511	UG/L		06/13/2002
Diesel Fuel #2	CATFH	*1.34	MG/L		06/13/2002



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CA ELAP#1753

C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

Lab Number: 02-0763
 Client: Advanced Assessment & Remd.
 Project: 800 SAN PABLO AVE. ALBANY, CA

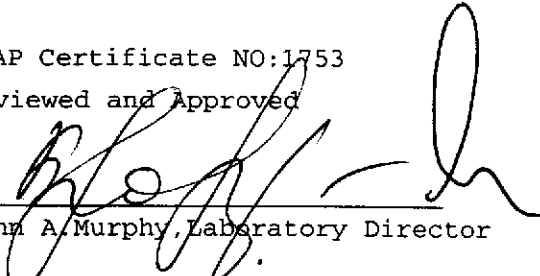
Date Reported: 06/19/2002

Gasoline, BTEX and MTBE by Methods SW8020F
 Diesel Range Hydrocarbons by Method CATFH

Analyte	Method	Reporting Limit	Unit	Blank	Avg MS/MSD Recovery	RPD
Diesel Fuel #2	CATFH	0.05	MG/L	ND	88/85	3
Gasoline Range	SW8020F	50	UG/L	ND	87/89	2
Benzene	SW8020F	0.5	UG/L	ND	88/90	2
Toluene	SW8020F	0.5	UG/L	ND	92/95	3
Ethylbenzene	SW8020F	0.5	UG/L	ND	93/95	2
Xylenes	SW8020F	1.0	UG/L	ND	95/97	2
Methyl-tert-butyl	SW8020F	0.5	UG/L	ND	95/100	5
Diesel Fuel #2	CATFH	1	MG/KG	ND	80/84	5
Gasoline Range	SW8020F	500	UG/KG	ND	92/91	1
Benzene	SW8020F	5	UG/KG	ND	90/89	1
Toluene	SW8020F	5	UG/KG	ND	97/96	1
Ethylbenzene	SW8020F	5	UG/KG	ND	100/99	1
Xylenes	SW8020F	10	UG/KG	ND	101/100	1
Methyl-tert-butyl	SW8020F	5	UG/KG	ND	102/99	3

ELAP Certificate NO:1753

Reviewed and Approved


 John A. Murphy, Laboratory Director



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0850
Client: Advanced Assessment & Remd.
Project: ALBANY HILL MINI MART

Date Reported: 07/09/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATHF

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0850-01 Client ID: MW-9-S@5'					
				06/24/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/28/2002
Ethylbenzene	SW8020F	ND<5	UG/KG		06/28/2002
Gasoline Range Organics	SW8020F	ND<500	UG/KG		06/28/2002
Methyl-tert-butyl ether	SW8020F	ND<5	UG/KG		06/28/2002
Toluene	SW8020F	ND<5	UG/KG		06/28/2002
Xylenes	SW8020F	ND<10	UG/KG		06/28/2002
Diesel Fuel #2	CATHF	ND<1	MG/KG		06/28/2002
Sample: 02-0850-02 Client ID: MW-9-S@10'					
				06/24/2002	SO
Benzene	SW8020F	64	UG/KG		06/28/2002
Ethylbenzene	SW8020F	848	UG/KG		06/28/2002
Gasoline Range Organics	SW8020F	26700	UG/KG		06/28/2002
Methyl-tert-butyl ether	SW8020F	ND<5	UG/KG		06/28/2002
Toluene	SW8020F	15	UG/KG		06/28/2002
Xylenes	SW8020F	4070	UG/KG		06/28/2002
Diesel Fuel #2	CATHF	ND<1	MG/KG		06/28/2002
Sample: 02-0850-03 Client ID: MW-9-S@15'					
				06/24/2002	SO
Benzene	SW8020F	195	UG/KG		06/28/2002
Ethylbenzene	SW8020F	2220	UG/KG		06/28/2002
Gasoline Range Organics	SW8020F	67000	UG/KG		06/28/2002
Methyl-tert-butyl ether	SW8020F	*ND<10	UG/KG		06/28/2002
Toluene	SW8020F	3490	UG/KG		06/28/2002

*Confirmed by GC/MS Method 8260. **Does not match diesel



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0850
Client: Advanced Assessment & Remd.
Project: ALBANY HILL MINI MART

Date Reported: 07/09/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATHF

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0850-03 Client ID:	MW-9-S@15'			06/24/2002	SO
Xylenes	SW8020F	34800	UG/KG		06/28/2002
Diesel Fuel #2	CATHF	**131	MG/KG		06/28/2002
Sample: 02-0850-04 Client ID:	MW-9-S@20'			06/24/2002	SO
Benzene	SW8020F	ND<5	UG/KG		06/28/2002
Ethylbenzene	SW8020F	ND<5	UG/KG		06/28/2002
Gasoline Range Organics	SW8020F	ND<500	UG/KG		06/28/2002
Methyl-tert-butyl ether	SW8020F	ND<5	UG/KG		06/28/2002
Toluene	SW8020F	ND<5	UG/KG		06/28/2002
Xylenes	SW8020F	ND<10	UG/KG		06/28/2002
Diesel Fuel #2	CATHF	ND<1	MG/KG		06/28/2002



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C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

Lab Number: 02-0850
Client: Advanced Assessment & Remd.
Project: ALBANY HILL MINI MART

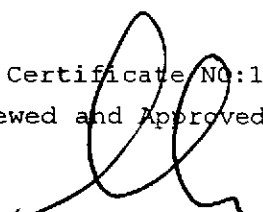
Date Reported: 07/09/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATHF

Analyte	Method	Reporting Limit	Unit	Blank	Avg MS/MSD Recovery	RPD
Gasoline Range	SW8020F	500	UG/KG	ND	91/96	5
Benzene	SW8020F	5	UG/KG	ND	110/115	4
Toluene	SW8020F	5	UG/KG	ND	105/106	1
Ethylbenzene	SW8020F	5	UG/KG	ND	105/109	4
Xylenes	SW8020F	10	UG/KG	ND	101/103	2
Methyl-tert-butyl	SW8020F	5	UG/KG	ND	103/114	10
Diesel Fuel #2	CATHF	1	MG/KG	ND	66/74	11

ELAP Certificate NO: 1753

Reviewed and Approved


John A. Murphy, Laboratory Director



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CA ELAP# 1753

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0794
Client: Advanced Assessment & Remd.
Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/21/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATFH

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0794-01 Client ID: MW-1/GW 06/13/2002 W					
Benzene	SW8020F	1860	UG/L		06/19/2002
Ethylbenzene	SW8020F	316	UG/L		06/19/2002
Gasoline Range Organics	SW8020F	5120	UG/L		06/19/2002
Methyl-tert-butyl ether	SW8020F	325	UG/L		06/19/2002
Toluene	SW8020F	22	UG/L		06/19/2002
Xylenes	SW8020F	318	UG/L		06/19/2002
Diesel Fuel #2	CATFH	*2.16	MG/L		06/15/2002
Sample: 02-0794-02 Client ID: MW-2/GW 06/13/2002 W					
Benzene	SW8020F	6.0	UG/L		06/19/2002
Ethylbenzene	SW8020F	1.1	UG/L		06/19/2002
Gasoline Range Organics	SW8020F	86	UG/L		06/19/2002
Methyl-tert-butyl ether	SW8020F	1830	UG/L		06/19/2002
Toluene	SW8020F	6.7	UG/L		06/19/2002
Xylenes	SW8020F	4.5	UG/L		06/19/2002
Diesel Fuel #2	CATFH	ND<0.05	MG/L		06/15/2002
Sample: 02-0794-03 Client ID: MW-3/GW 06/13/2002 W					
Benzene	SW8020F	381	UG/L		06/19/2002
Ethylbenzene	SW8020F	41	UG/L		06/19/2002
Gasoline Range Organics	SW8020F	3630	UG/L		06/19/2002
Methyl-tert-butyl ether	SW8020F	**8820	UG/L		06/19/2002
Toluene	SW8020F	60	UG/L		06/19/2002

*Does not match diesel pattern.**Confirmed by GC/MS.



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CA ELAP# 1753

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0794
Client: Advanced Assessment & Remd.
Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/21/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATFH

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0794-03 Client ID: MW-3/GW 06/13/2002 W					
Xylenes	SW8020F	187	UG/L		06/19/2002
Diesel Fuel #2	CATFH	ND<0.05	MG/L		06/15/2002
Sample: 02-0794-04 Client ID: MW-4/GW 06/13/2002 W					
Benzene	SW8020F	425	UG/L		06/19/2002
Ethylbenzene	SW8020F	115	UG/L		06/19/2002
Gasoline Range Organics	SW8020F	4460	UG/L		06/19/2002
Methyl-tert-butyl ether	SW8020F	32	UG/L		06/19/2002
Toluene	SW8020F	409	UG/L		06/19/2002
Xylenes	SW8020F	730	UG/L		06/19/2002
Diesel Fuel #2	CATFH	*1.5	MG/L		06/15/2002
Sample: 02-0794-05 Client ID: MW-5/GW 06/13/2002 W					
Benzene	SW8020F	6.4	UG/L		06/19/2002
Ethylbenzene	SW8020F	22	UG/L		06/19/2002
Gasoline Range Organics	SW8020F	536	UG/L		06/19/2002
Methyl-tert-butyl ether	SW8020F	11	UG/L		06/19/2002
Toluene	SW8020F	0.6	UG/L		06/19/2002
Xylenes	SW8020F	23	UG/L		06/19/2002
Diesel Fuel #2	CATFH	ND<0.05	MG/L		06/15/2002

*Does not match diesel pattern.**Confirmed by GC/MS.



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CA ELAP# 1753

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0794
Client: Advanced Assessment & Remd.
Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/21/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATFH

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0794-06 Client ID: MW-6/GW 06/13/2002 W					
Benzene	SW8020F	31	UG/L		06/19/2002
Ethylbenzene	SW8020F	3.8	UG/L		06/19/2002
Gasoline Range Organics	SW8020F	2980	UG/L		06/19/2002
Methyl-tert-butyl ether	SW8020F	310	UG/L		06/19/2002
Toluene	SW8020F	2.3	UG/L		06/19/2002
Xylenes	SW8020F	12	UG/L		06/19/2002
Diesel Fuel #2	CATFH	*1.46	MG/L		06/15/2002
Sample: 02-0794-07 Client ID: MW-7/GW 06/13/2002 W					
Benzene	SW8020F	2310	UG/L		06/19/2002
Ethylbenzene	SW8020F	945	UG/L		06/19/2002
Gasoline Range Organics	SW8020F	24100	UG/L		06/19/2002
Methyl-tert-butyl ether	SW8020F	951	UG/L		06/19/2002
Toluene	SW8020F	657	UG/L		06/19/2002
Xylenes	SW8020F	5430	UG/L		06/19/2002
Diesel Fuel #2	CATFH	*15.7	MG/L		06/15/2002
Sample: 02-0794-08 Client ID: MW-8/GW 06/13/2002 W					
Benzene	SW8020F	2200	UG/L		06/19/2002
Ethylbenzene	SW8020F	1050	UG/L		06/19/2002
Gasoline Range Organics	SW8020F	20000	UG/L		06/19/2002
Methyl-tert-butyl ether	SW8020F	12000	UG/L		06/19/2002
Toluene	SW8020F	1140	UG/L		06/19/2002

*Does not match diesel pattern. **Confirmed by GC/MS.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0794
Client: Advanced Assessment & Remd.
Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/21/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATFH

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0794-08 Client ID:	MW-8/GW			06/13/2002	W
Xylenes	SW8020F	4090	UG/L		06/19/2002
Diesel Fuel #2	CATFH	*7.76	MG/L		06/15/2002

*Does not match diesel pattern. **Confirmed by GC/MS.



North State Laboratory

CA ELAP# 1753

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C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

Lab Number: 02-0794
Client: Advanced Assessment & Remd.
Project: 800 SAN PABLO AVE. ALBANY, CA

Date Reported: 06/21/2002

Gasoline, BTEX and MTBE by Methods SW8020F
Diesel Range Hydrocarbons by Method CATFH

Analyte	Method	Reporting Limit	Unit	Blank	Avg MS/MSD Recovery	RPD
Diesel Fuel #2	CATFH	0.05	MG/L	ND	83/86	4
Gasoline Range	SW8020F	50	UG/L	ND	91/84	8
Benzene	SW8020F	0.5	UG/L	ND	81/74	9
Toluene	SW8020F	0.5	UG/L	ND	95/87	9
Ethylbenzene	SW8020F	0.5	UG/L	ND	100/92	8
Xylenes	SW8020F	1.0	UG/L	ND	101/94	7
Methyl-tert-butyl	SW8020F	0.5	UG/L	ND	78/75	4

ELAP Certificate NO:1753

Reviewed and Approved

John A. Murphy, Laboratory Director



North State Laboratory

CA ELAP#1753

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C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 02-0861
Client: Advanced Assessment & Remd.
Project: ALBANY HILL MINI MART/800 SAN PABLO AVE.
Date Reported: 07/08/2002

Gasoline, BTEX and MTBE by Methods SW8020F

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 02-0861-01	Client ID: MW-9/GW			06/27/2002	W
Benzene	SW8020F	1430	UG/L		07/03/2002
Ethylbenzene	SW8020F	501	UG/L		07/03/2002
Gasoline Range Organics	SW8020F	19000	UG/L		07/03/2002
Methyl-tert-butyl ether	SW8020F	ND<10	UG/L		07/03/2002
Toluene	SW8020F	1750	UG/L		07/03/2002
Xylenes	SW8020F	5410	UG/L		07/03/2002



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CA ELAP# 1753

C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

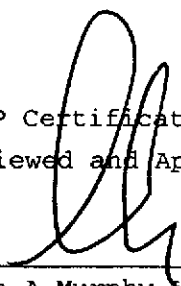
Lab Number: 02-0861
Client: Advanced Assessment & Remd.
Project: ALBANY HILL MINI MART/800 SAN PABLO AVE.

Date Reported: 07/08/2002
Gasoline, BTEX and MTBE by Methods SW8020F

Analyte	Method	Reporting Limit	Unit	Blank	Avg MS/MSD Recovery	RPD
Gasoline Range	SW8020F	50	UG/L	ND	70/71	1
Benzene	SW8020F	0.5	UG/L	ND	85/85	0
Toluene	SW8020F	0.5	UG/L	ND	90/91	1
Ethylbenzene	SW8020F	0.5	UG/L	ND	92/92	0
Xylenes	SW8020F	1.0	UG/L	ND	92/93	1
Methyl-tert-butyl	SW8020F	0.5	UG/L	ND	82/84	2

ELAP Certificate NO:1753

Reviewed and Approved


John A. Murphy, Laboratory Director



North State Environmental Analytical Laboratory

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02-0754

Chain of Custody / Request for Analysis

Lab Job No.: _____ Page 1 of 2

Client: <i>ADVANCED ASSESSMENT + REMED.</i>	Report to: <i>TRIDIB GUHA</i>	Phone: <i>925-363-1999</i>	Turnaround Time <i>5 DAY</i>
Mailing Address: <i>2380 SALVIO STREET, #202 CONCORD, CA 94520</i>	Billing to: <i>SAME</i>	Fax: <i>925-363-1998</i>	
		PO# / Billing Reference: <i>AHMM</i>	Date: <i>6/5/02</i>
			Sampler: <i>T. GUHA</i>

Project / Site Address: *500 SAN PABLO AVE.
ACBAAY, CA*

Analysis Requested

Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	TPH8/3TEX MTRAE	TPH2						Comments / Hazards
1 MW-6-S@6'	SOIL	1 BRASSTON	NONE	6/5/02 8:45	✓	✓						
2 MW-6-S@11'				9:00	✓	✓						
3 MW-6-S@16'				9:12	✓	✓						
4 MW-6-S@21'				9:20	✓	✓						
5 MW-6-S@26'				9:25	✓	✓						
6 MW-5-S@6'				11:45	✓	✓						
7 MW-5-S@11'				11:55	✓	✓						
8 MW-5-S@16'				12:05	✓	✓						
9 MW-5-S@21'				12:12	✓	✓						
10 MW-5-S@26'	✓	✓	✓	6/5/02 12:20	✓	✓						
												Soil samples received in field in good condition, cooled to 4°C

Relinquished by: <i>[Signature]</i>	Date: <i>6/5/2</i>	Time: <i>4:15</i>	Received by: <i>[Signature]</i>	Lab Comments <i>N.S LABS</i> <i>[Signature]</i>
Relinquished by:	Date:	Time: <i>(P)</i>	Received by:	
Relinquished by:	Date:	Time:	Received by:	



North State Environmental Analytical Laboratory

90 South Spruce Avenue, Suite W, South San Francisco, CA 94080

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Chain of Custody / Request for Analysis

Lab Job No.: _____ Page 2 of 2

Client: <u>ADVANCED ASSESSMENT & Remd. Svc.</u>	Report to: <u>TRIDIB GUHA</u>	Phone: <u>925-363-1999</u>	Turnaround Time <u>5 DAYS</u>
Mailing Address: <u>2380 SALVIO STREET, # 202</u> <u>CONCORD, CA 94520</u>	Billing to: <u>SAMC</u>	Fax: <u>925-363-1998</u>	
		PO# / Billing Reference: <u>AHMM</u>	Date: <u>6/5/02</u>
			Sampler: <u>T. GUHA</u>

Project / Site Address: <u>800 SAN PABLO AVE. Analysis</u> <u>ALBANY, CA</u>					Requested									Comments / Hazards
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	TPHs / STEH / M-T-SE	TPHs								
<u>11 MW-4-SC 6'</u>	<u>SOIL</u>	<u>1 ANST.</u>	<u>NONE</u>	<u>6/5/02 14:10</u>	<u>X</u>	<u>X</u>								
<u>12 MW-4-SC 11'</u>	<u> </u>	<u> </u>	<u> </u>	<u>14:17</u>	<u>X</u>	<u>X</u>								
<u>13 MW-4-SC 16'</u>	<u> </u>	<u> </u>	<u> </u>	<u>14:24</u>	<u>X</u>	<u>X</u>								
<u>14 MW-4-SC 21'</u>	<u> </u>	<u> </u>	<u> </u>	<u>14:30</u>	<u>X</u>	<u>X</u>								
<u>15 MW-4-SC 26'</u>	<u> </u>	<u> </u>	<u> </u>	<u>6/5/02 14:40</u>	<u>X</u>	<u>X</u>								

Soil Samples RECEIVED
IN FIELD IN GOOD CONDITION
COOL TO 4°C

NS LABS

Lab Comments

Relinquished by: <u>Tridib Guha</u>	Date: <u>6/5/02</u> Time: <u>4:15</u>	Received by: <u>[Signature]</u>
Relinquished by:	Date: _____ Time: _____	Received by:
Relinquished by:	Date: _____ Time: _____	Received by:



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02-0763

Chain of Custody / Request for Analysis

Lab Job No.: _____ Page 1 of 1

Client: <u>ADVANCED ASSESSMENT & REMED. SVCS</u>	Report to: <u>TRIDIS (LVA)</u>	Phone: <u>925-363-1999</u>	Turnaround Time <u>5 DAY</u>
Mailing Address: <u>2380 SALVIO ST. # 202</u> <u>CONCORD, CA 94520</u>	Billing to: <u>SAME</u>	Fax: <u>925-363-1998</u>	
		PO# / Billing Reference: <u>AHMM</u>	Date: <u>6-6-02</u>
			Sampler: <u>T. GUHA</u>

Project / Site Address: <u>800 SAN PABLO AVE ALBANY CA</u>					Analysis Requested								Comments / Hazards
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	TPH	BTEX	MTE	TPHA					
<u>MW-8-S@11'</u>	<u>SOIL</u>	<u>1 BRASS</u>	<u>NONE</u>	<u>6-6-02 8:55</u>	X	X	X	X					
<u>MW-8-S@16'</u>	↓	↓	↓	<u>9:05</u>	X	X	X	X					
<u>SB-6-S@11'</u>	↓	↓	↓	<u>10:30</u>	X	X	X	X					
<u>MW-7-S@11'</u>	↓	↓	↓	<u>11:30</u>	X	X	X	X					
<u>MW-7-S@16'</u>	<u>SOIL</u>	<u>1 BRASS</u>	<u>NONE</u>	<u>11:40</u>	X	X	X	X					
<u>SB-6/GW</u>	<u>WATER</u>	<u>3 VOAS</u> <u>1 AMBER</u>	<u>HEC</u>	<u>6-6-02 10:45</u>	X	X	X	X					

Relinquished by: <u>[Signature]</u>	Date: <u>6-6-02</u> Time: <u>12:20</u>	Received by: <u>KIAN ATKINSON</u>	Lab Comments <u>SAMPLES RECEIVED</u> <u>IN GOOD</u> <u>CONDITION</u>
Relinquished by: <u>KIAN ATKINSON</u>	Date: <u>6/6/02</u> Time: <u>4:55</u>	Received by: <u>[Signature]</u>	
Relinquished by: _____	Date: _____ Time: _____	Received by: _____	



North State Environmental Analytical Laboratory

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02-0850

Chain of Custody / Request for Analysis

Lab Job No.: _____ Page 1 of 1

Client: <i>ADVANCED ASSESSMENT & REM SVCS.</i>	Report to: <i>TRIDIB GUHA</i>	Phone: <i>925-363-1999</i>	Turnaround Time <i>5 DAYS</i>
Mailing Address: <i>2380 SALVIO ST. SUITE 202 CONCORD, CA 94520</i>	Billing to: <i>SAME</i>	Fax: <i>925-363-1998</i>	
		PO# / Billing Reference: <i>AHMM</i>	Date: <i>6-24-02</i>
			Sampler: <i>T. GUHA</i>

Project / Site Address: <i>Albany Hill Mini Mart 800 San Pablo Ave</i>					Analysis Requested							Comments / Hazards
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	<i>TPH/ATEX MTBC</i>	<i>TPH2</i>						
<i>MW-9-S@5'</i>	<i>SOIL</i>	<i>1 BRASS.</i>	<i>NONE</i>	<i>6-24-02/ 9:25</i>	X	X						
<i>MW-9-S@10'</i>	<i> </i>	<i>1 BRASS.</i>	<i> </i>	<i>6-24-02/ 11:45</i>	X	X						
<i>MW-9-S@15'</i>	<i> </i>	<i>1 BRASS.</i>	<i> </i>	<i>6-24-02/ 12:15</i>	X	X						
<i>MW-9-S-20'</i>	<i>↓</i>	<i>1 BRASS.</i>	<i>↓</i>	<i>6-24-02/ 12:30</i>	X	X						

Relinquished by: <i>[Signature]</i>	Date: <i>6/26/02</i> Time: <i>14:50</i>	Received by: <i>KATH RICHSON</i>	Lab Comments <i>SAMPLES RECEIVED IN GOOD CONDITION</i>
Relinquished by:	Date: _____ Time: _____	Received by:	
Relinquished by:	Date: _____ Time: _____	Received by:	



North State Environmental Analytical Laboratory

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02-0861

Chain of Custody / Request for Analysis

Lab Job No.: _____ Page 1 of 1

Client: <i>ADVANCED ASSESSMENT + REMED. SVCS</i>	Report to: <i>TRIDIB GUHA</i>	Phone: <i>925-363-1999</i>	Turnaround Time 5 DAYS
Mailing Address: <i>2380 SALVIO STREET, SUITE 202 CONCORD, CA 94520</i>	Billing to: <i>SAME</i>	Fax: <i>925-363-1998</i>	
		PO# / Billing Reference: <i>AHMM</i>	Date: <i>6-27-02</i>
		Sampler: <i>T. GUHA</i>	

Project / Site Address: <i>ALBANY HILL MINI MART 800 SAN PABLO AVE ALBANY, CA</i>					Analysis Requested								Comments / Hazards
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	<i>TPH / BTEX / MTBE</i>								
<i>MW-9/GW</i>	<i>WATER</i>	<i>1 VOA</i>	<i>HEL</i>	<i>6/27-02/15:00HR</i>	<i>X</i>								
<i>[Large X across the rest of the table]</i>													

Relinquished by: <i>[Signature]</i>	Date: <i>6/28/02</i>	Time: <i>11:40</i>	Received by: <i>[Signature]</i>	NSLABC Lab Comments <i>AC</i>
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by:	