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10:49 am, Jun 03, 2009

Alameda County
Environmental Health



Shell Oil Products US

June 1, 2009

Re: Interim Remediation Work Plan
Shell-Branded Service Station
4212 First Street
Pleasanton, California

Dear Mr. Jerry Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,
Shell Oil Products US

A handwritten signature in black ink, appearing to read "Denis L. Brown".

Denis L. Brown
Project Manager

June 1, 2009
Delta Project No. SCA421211A
SAP No. 135782

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502

RE: Interim Remediation Work Plan
Shell-Branded Service Station
4226 First Street
Pleasanton, California



Dear Mr. Wickham:

Delta Consultants (Delta), on behalf of Shell Oil Products US (Shell), submits this *Interim Remediation Work Plan* for the above-referenced site (Figure 1). This work plan was prepared in compliance with a requirement contained in a letter from the Alameda County Health Care Services Agency (ACHCS) to Shell dated March 27, 2009 (Appendix A). In that letter, ACHCS requested "...that you submit an Interim Remediation Work Plan for soil vapor extraction (SVE) and air sparging (AS) by June 1, 2009 that includes installation of extraction wells, sparging wells, and monitoring wells to evaluate system performance." This directive was issued based on the conclusions in *Dual-Phase Extraction Pilot Test Report* submitted by Delta on behalf of Shell on February 12, 2009. Corrective action is required to address the methyl tertiary butyl ether (MTBE) and tertiary butyl alcohol (TBA) that was encountered at concentrations exceeding Environmental Screening Levels (ESLs) in soils beneath the northern portion of the site from approximately 20 to 35 feet below ground surface (bgs) and to address the elevated concentrations of MTBE and TBA detected in groundwater in the northern portion of the site.

This document has been prepared to comply with the California Code of Regulations, Title 23, Division 3, Chapter 16, Article 11. Provided below is a detailed scope of work for the remediation wells and monitoring wells installation activities. All work will be performed under the supervision of a California-registered geologist and/or professional civil engineer.

a member of:



312 PIERCY ROAD SAN JOSE, CALIFORNIA 95138 USA
PHONE +1 408.224.4724 / USA TOLL FREE 800.477.7411
FAX +1 408.225.8506 WWW.DELTAENV.COM

BACKGROUND

The subject site is a Shell-branded service station located at the southern corner of First Street and Vineyard Avenue (Figure 1) in a mixed commercial and residential area of Pleasanton, California. Three 10,000-gallon gasoline underground storage tanks (USTs) and one 550-gallon waste oil UST are located at the site. The site contains two dispenser islands, a service station building with attached service garage (Figure 2). Previous environmental activities, regional geology and hydrogeology, sensitive receptors, and site characterization, including hydrocarbon distribution in soil and groundwater, are described in the previously submitted *Dual-Phase Extraction Pilot Test Report* submitted by Delta on behalf of Shell on February 12, 2009. Appendix B contains historical soil analytical data, a geologic cross section, and historical boring logs. An updated narrative of regional hydrogeology and hydrocarbon distribution in groundwater based on the First Quarter 2009 groundwater monitoring event conducted on February 5, 2009 is described below.

REGIONAL HYDROGEOLOGY

During the most recent quarterly monitoring and sampling event conducted on February 5, 2009, groundwater was measured from onsite groundwater monitoring wells MW-1, MW-1B, MW-2, MW-3, and MW-4 at depths of 32.29 feet (MW-2) to 76.11 feet (MW-1B) below ground surface (bgs). The groundwater flow direction beneath the site in the shallower zone was toward the northeast with a hydraulic gradient of approximately 0.05 feet per foot. Appendix C contains the First Quarter 2009 groundwater elevation contour map.

HYDROCARBON DISTRIBUTION IN GROUNDWATER

The results of the First Quarter 2009 groundwater monitoring event indicated the presence of dissolved-phase hydrocarbons in groundwater collected from the monitoring wells. The maximum total petroleum hydrocarbons as gasoline (TPH-g) concentration in groundwater samples collected was detected in well MW-4 at 15,000 micrograms per liter ($\mu\text{g/L}$). The maximum benzene concentration in groundwater samples collected was detected in well MW-4 at 200 $\mu\text{g/L}$. The maximum MTBE concentration in groundwater samples collected was detected in well MW-4 at 13,000 $\mu\text{g/L}$. The maximum TBA concentration in groundwater samples collected was detected in well MW-1 at 340 $\mu\text{g/L}$. Toluene, ethylbenzene, and total xylenes were not detected above the reporting limit in groundwater samples collected. Di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), and tert-amyl methyl ether (TAME) were not analyzed in groundwater samples collected.

The dissolved-phase hydrocarbon plume stretches across the site. The highest concentrations have generally been detected in wells MW-1, MW-2, and MW-4.

Historical groundwater analytical data is tabulated in Table 1. The First Quarter 2009 hydrocarbon distribution in groundwater map is included as Appendix C.

PROPOSED REMEDIAL APPROACH

Conceptual Remedial System Design. Based on the review of remedial alternatives contained in the *Draft Corrective Action Plan (CAP)*, submitted by Delta on November 11, 2007 and the evaluation contained within the *Dual-Phase Extraction (DPE) Pilot Test Report* submitted by Delta on February 12, 2009, SVE was selected as the most effective remedial strategy for this site, along with a recommendation to investigate the application of air sparging in addition to SVE. As discussed in the pilot test report, minimal groundwater movement was observed in the observation wells during the tests. As a result, the vapor radius of influence (ROI) could not be calculated, other than noting the ROI appears to be less than 40 feet. Calculating an ROI based on the average observed flow rate and known site subsurface conditions produced a theoretical ROI of approximately 26 feet. Dissolved oxygen (DO) levels increased throughout the pilot tests, which was correlated to generally decreasing hydrocarbon concentrations in groundwater. The pilot test results also indicate that SVE may be a viable component of an overall remediation strategy as mass removal rates of TPH-g were calculated as 58 pounds per day (lb/day) based on a total of 286.3 pounds removed during the total extraction test time of 118.25 hours. Furthermore, the soil permeability documented by the relative success of SVE suggests that air sparging may also be suitable to address the oxygenate issues in the groundwater at the site. While air sparging strips the hydrocarbons from the impacted groundwater, the SVE system removes the resulting volatilized hydrocarbons. Further, the injection of air to the subsurface will encourage the bioremediation of TPH-g and MTBE. However, before the installation of a full-scale AS system, it is prudent to install a single AS well and perform feasibility testing to ensure this technology would prove effective at remediating groundwater contamination at the site.

The SVE system design will generally consist of a vacuum pump, which will be selected based on the results of the pilot test. Vapor extracted from the vadose zone will be treated by a thermal or catalytic oxidizer (therm/cat-ox). Initially, all SVE wells will be connected to the system to extract vapors; as remediation progresses, Delta will evaluate the need to add additional SVE wells to the system.

Air sparging will be evaluated by the installation of an air sparge well and feasibility testing; air will be injected through the initial AS point at flow rates varying from approximately 5 to 20 standard cubic feet per minute (scfm) and pressures of approximately 5 to 10 pounds per square inch (psi) above static head pressure. An onsite air blower will be used for air injection into the groundwater. Hydrocarbons volatilized by the air sparge system will be extracted through the SVE well(s), while increased dissolved oxygen levels from the sparging should stimulate aerobic biodegradation in the saturated zone. Should the AS test prove effective, additional AS well locations will be proposed for inclusion in the remediation system design.

Treatment of Waste Streams. The only waste stream generated by this remedial alternative will be soil vapors. These will be treated by either thermal or catalytic oxidation. The SVE system will be designed to meet agency discharge requirements and operation will be done in compliance with a permit to operate to be obtained by the local air district.

Progress Monitoring and Sampling. Progress of the SVE system will be monitored by sampling the system influent stream of soil vapors. In addition, individual extraction wells will be monitored in an effort to optimize system performance and focus the operation of the system on those wells removing the highest mass of hydrocarbons from the subsurface. The system will operate in compliance with the discharge permit and as

necessary for routine maintenance and monitoring. The system vapor inlet, exhaust, and individual wells will be monitored with a photoionization detector (PID) to provide an indication of general trends in vapor concentrations.

Vapor concentrations will be analyzed in accordance with the operating permit. Vapor samples will also be analyzed on a quarterly basis to assist in remedial optimization. Laboratory sampling will consist of the collection of soil vapor samples in Tedlar bags. The Tedlar bags will be kept in an opaque container until delivered to the laboratory. Samples will be analyzed for TPH-g by Environmental Protection Agency (EPA) Method TO-3, BTEX compounds (benzene, toluene, ethylbenzene and xylene), fuel oxygenates (MTBE, TBA, DIPE, ETBE and TAME), and ethanol (ETOH) by EPA Method TO-15, and nitrogen, methane, carbon dioxide, carbon monoxide, and oxygen using ASTM Method D-1946 ("Fixed Gas Analysis"). Fixed gas analysis will be conducted on inlet soil vapor samples only in an effort to ensure that short-circuiting from atmosphere is not occurring from SVE.

Prior to the start of the AS feasibility test, groundwater samples will be collected from onsite wells and proposed observation wells. Samples will be analyzed for TPH-g, BTEX compounds, fuel oxygenates, and ethanol by EPA Method 8260. Should air sparging be found to be effective and further air sparge well installed at the site, a quarterly schedule would be implemented for analysis of natural attenuation parameters including dissolved oxygen (DO), oxidation reduction potential (ORP), ferrous iron, sulfate, nitrate and methane, along with quarterly measurements for DO, ORP, ferrous iron, sulfate and nitrate will be taken using field kits and instrumentation. In addition, quarterly groundwater samples would be proposed for laboratory analysis of methane by Method RSK 175(M).

Operation and maintenance of the SVE system will be conducted on a weekly basis in compliance with all regulatory agency requirements.

Progress Evaluation. Progress of the SVE system will be evaluated based on influent soil vapor data and mass removal trends. Should the AS feasibility test prove effective, additional AS wells would be proposed for installation; the progress of the AS system would be evaluated based on the reduction of TPH-g, BTEX compounds, and fuel oxygenates in the groundwater surrounding the AS injection points. The rate of reduction would be used to estimate clean-up times and evaluate the effectiveness of the AS system.

Progress Reports. Quarterly progress reports of the remediation system will be submitted as part of the quarterly reports. This report will include the following items:

- The percentage of time the system has operated;
- The flow rate of vapor;
- The mass of hydrocarbons removed as soil vapor;
- The percentage of reduction in hydrocarbon concentration in the vapor phase;
- The percentage of reduction in hydrocarbon concentration in the groundwater.

Confirmation Sampling. Once asymptotic reduction of hydrocarbon concentrations has been confirmed in the vapor phase samples, soil confirmation samples will be collected. A work plan describing confirmation sampling activities will be prepared for review and approval by the ACHCS.

Implementation Schedule. Design and construction of the SVE system will commence as soon as the SVE wells and AS test well are installed and feasibility testing has been performed on the AS test well, following approval from the ACHCS. Activities performed by Delta under this scope of work will be supervised by either a state of California registered geologist or civil engineer, and will be conducted consistent with applicable agency standards.

REMEDIATION WELL INSTALLATION SCOPE OF WORK

Delta proposes to initially install four SVE wells (SVE-1 through SVE-4), one AS well (AS-1), and one observation well (OBS-1), all located in the vicinity of onsite wells MW-1, MW-2, MW-4, and the former UST complex. The SVE wells are proposed to be spaced on 40 foot centers; the AS test well is proposed to be installed down-gradient of impacted monitoring well MW-4. Figure 3 presents the proposed locations of all wells. Each of the SVE wells are proposed to be screened from approximately 20 to 30 feet bgs, the AS well is proposed to be screened from approximately 45 to 47 feet bgs, and the observation well is proposed to be screened from approximately 22 to 47 feet bgs.

PRE-FIELD ACTIVITIES

Upon approval of the work plan, Delta will arrange the drilling schedule and coordinate mobilization of the drilling equipment and materials, contact Underground Services Alert a minimum of 48 hours prior to drilling, and visit the site to mark the well locations. Prior to boring advancement, a utility locator contractor will perform a geophysical survey of the proposed boring and well locations. Notifications regarding the field activities will be made in advance to the appropriate agencies and the property owner, and any necessary permits will be obtained.

WELL INSTALLATION FIELD ACTIVITIES

Drilling and Sampling Procedures. Prior to drilling, the well locations will be cleared using air-knife equipment to a minimum depth of approximately eight feet bgs.

Proposed SVE well locations (SVE-1 through SVE-4) will be drilled to approximately 30 feet bgs using hollow stem auger (HSA) drill rig equipment. The proposed AS well location (AS-1) will be drilled to approximately 52 feet bgs, using HSA drill rig equipment. Proposed observation well location (OBS-1) will be drilled to approximately 50 feet bgs, using HSA drill rig equipment. Soil samples will be collected from well AS-1 at 5-foot intervals, starting at 10 feet bgs, to the total depth of the boring, for submittal to an analytical laboratory. Soil samples for laboratory analysis will not be collected from the remaining borings.

Each well location will be sampled for lithologic description at 5-foot intervals, starting at 10 feet bgs, to the termination depths of each boring location using a 2-inch diameter California modified split-spoon sampler. At each sampling interval, the soil samples from each boring will be logged using the Unified Soil Classification System and select samples will be retrieved in 2-inch diameter brass rings. Following removal of the

rings from selected borings, the rings will be sealed at each end with TeflonTM-lined plastic end caps, and will be labeled in accordance with specified sampling procedures and stored on ice for transport with the appropriate chain-of-custody documentation to a state-certified analytical laboratory.

During sampling operations, all soil samples will be field screened for the presence of volatile organic compounds (VOCs) by headspace analysis using a PID calibrated to 100 parts per million by volume (ppmv) of isobutylene. PID readings will be recorded on the boring logs.

SVE Well Installation. Upon completion, four of the borings will be converted into SVE wells (SVE-1 through SVE-4). The SVE wells for each location will be constructed of 4-inch diameter Schedule 40 PVC with screened intervals from approximately 20 to 30 feet bgs, depending on soil lithology and depth to water encountered. Based on existing site data, the SVE wells will be constructed of 0.020-inch wound screen. The well annulus will be backfilled with #2/16 Monterey sand approximately one foot above each well screened interval, followed by a hydrated bentonite chip seal to the surface in the SVE wells. A locking cap will be placed on each wellhead, which will be enclosed in a flush-mounted traffic-rated vault. Actual screen size, screen intervals, and sand pack will be determined based on the lithology and depth to water encountered during the well installation activities.

AS Well Installation. Upon completion, one of the borings will be converted into an AS well (AS-1). The AS well will be constructed of 2-inch diameter Schedule 40 PVC with a screened interval from approximately 45 to 47 feet bgs, or 15 feet below first encountered groundwater, and a blank casing interval from 47 to 52 feet bgs to act as a silt sump, depending on soil lithology encountered and depth to groundwater. Based on existing site data, the AS well will be constructed of 0.020-inch slotted screen. The well annulus will be backfilled with hydrated bentonite chips around the silt sump, followed by #2/12 Monterey sand from approximately one foot below to approximately one foot above each well screened interval, followed by a 3-foot hydrated bentonite chip seal. Bentonite cement grout will be backfilled above the bentonite chip sealed zone to the surface in the AS well, and a locking cap will be placed on the wellhead, which will be enclosed in a flush-mounted or monument style traffic-rated vault. Actual screen size, screen intervals, and sand pack will be determined based on the lithology and depth to groundwater encountered during the well installation activities.

Observation Well Installation. Upon completion, one boring will be converted into observation well OBS-1. The well will be screened from approximately 22 to 47 bgs, or 10 feet above and 15 feet below first encountered groundwater. Based on existing site data, the observation well will be constructed of 0.020-inch slotted screen. The well annulus will be backfilled with #2/12 Monterey sand to approximately 2 feet above the well screen, followed by an approximately 2-foot hydrated bentonite chip seal, and then a bentonite cement grout to near the ground surface. A locking cap will be placed on the wellhead, which will be enclosed in a flush-mounted traffic-rated vault. Actual screen size, screen interval, and sand pack will be determined based on the lithology and depth to groundwater encountered during the well installation.

Equipment Decontamination. All down-hole sampling equipment will be washed between well and sample locations and samples in a non-phosphate detergent and rinsed with distilled water.

Laboratory Analyses. Selected soil samples from each boring will be submitted to a State-certified analytical laboratory for chemical analyses. The samples will be analyzed for TPH-g, BTEX compounds, MTBE, TBA, DIPE, ETBE, TAME (fuel oxygenates), and ethanol using EPA Method 8260B.

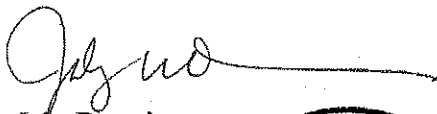
Disposal of Drill Cuttings and Rinseate. Soil cuttings and rinseate generated during drilling activities will be placed in Department of Transportation (DOT)-approved 55-gallon drums and/or roll-off bins. The drums and/or bins will be sealed and labeled in accordance with the appropriate protocols and each container will be identified on a waste inventory form. The drums and/or bins will be temporarily left onsite, pending transport and disposal to an appropriate facility by Shell's waste management contractor.

CLOSING REMARKS


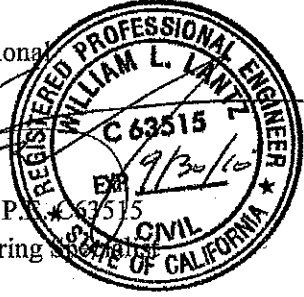
This work plan represents Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This work plan is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This work plan is intended only for the use of Delta's Client and anyone else specifically listed on this work plan. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this document.

Should you have any questions or need any further assistance, please contact Suzanne McClurkin-Nelson (Delta) at (408) 826-1875 or Dennis Brown (Shell Project Manager) at (707) 865-0251.

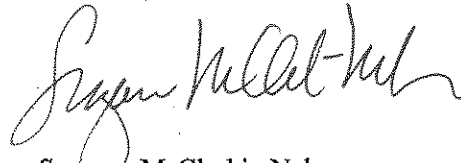
Sincerely,
Delta Consultants



Joby Dunmire
Project Professional

William Lantz, P.E.
Senior Engineering



Suzanne McClurkin-Nelson
Senior Project Manager

cc: Denis Brown, Shell Oil Products US, Carson

ATTACHMENTS:

Figures

Figure 1 – Site Location Map

Figure 2 – Site Map

Figure 3 – Site Map with Proposed Well Locations

Tables

Table 1 – Historical Groundwater Gauging and Analytical Data

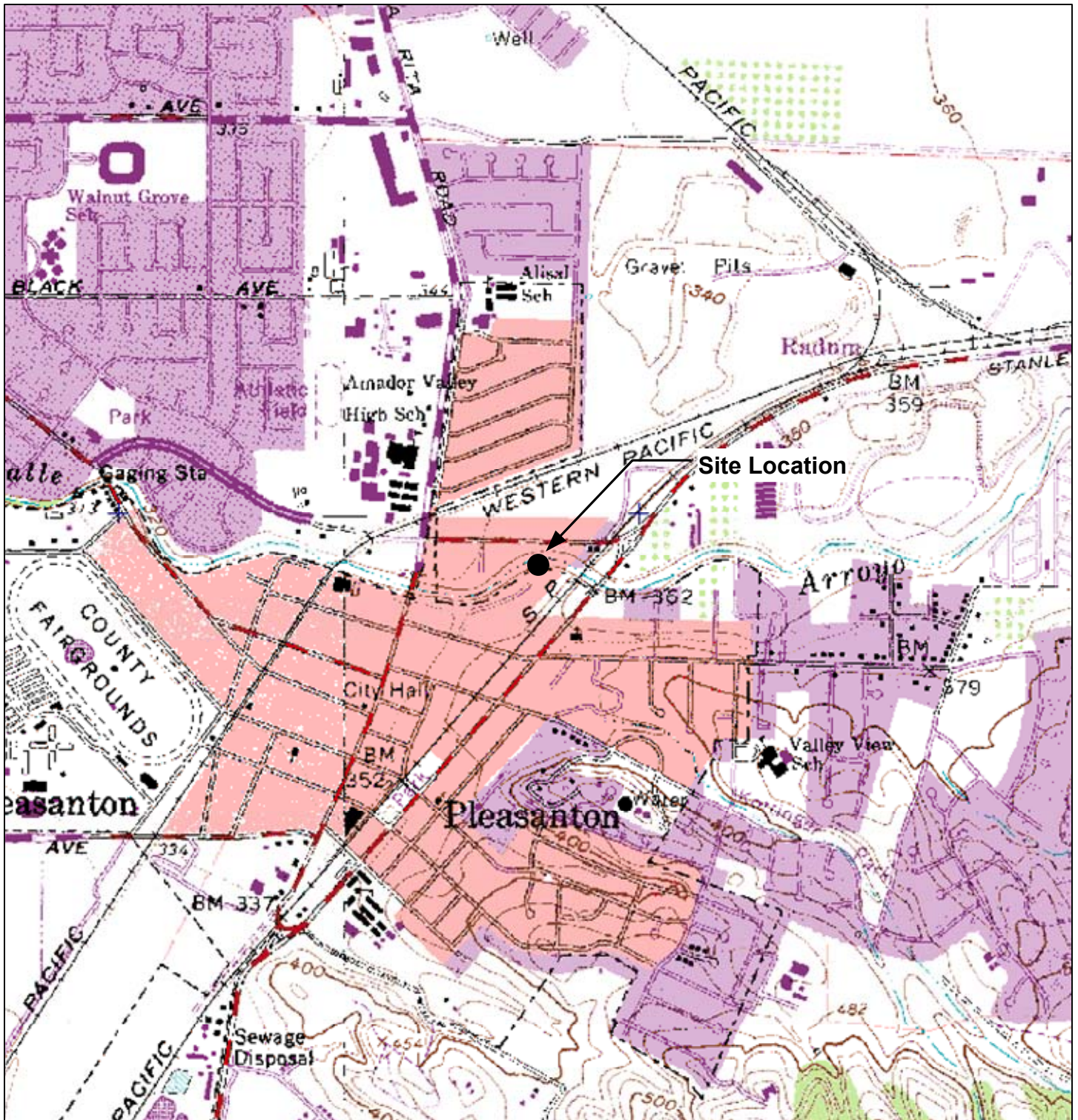
Appendices

Appendix A – ACHCS Letter dated March 27, 2009

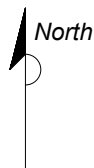
Appendix B – Historical Soil Analytical Data, Cross Section, and Boring Logs

Appendix C – First Quarter 2009 Groundwater Maps

FIGURES



GENERAL NOTES:
 Base Map from: DeLorme Yarmouth, ME 04096
 Source Data: USGS



QUADRANGLE LOCATION

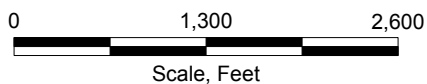
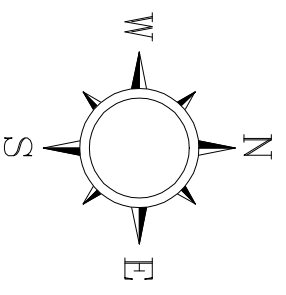
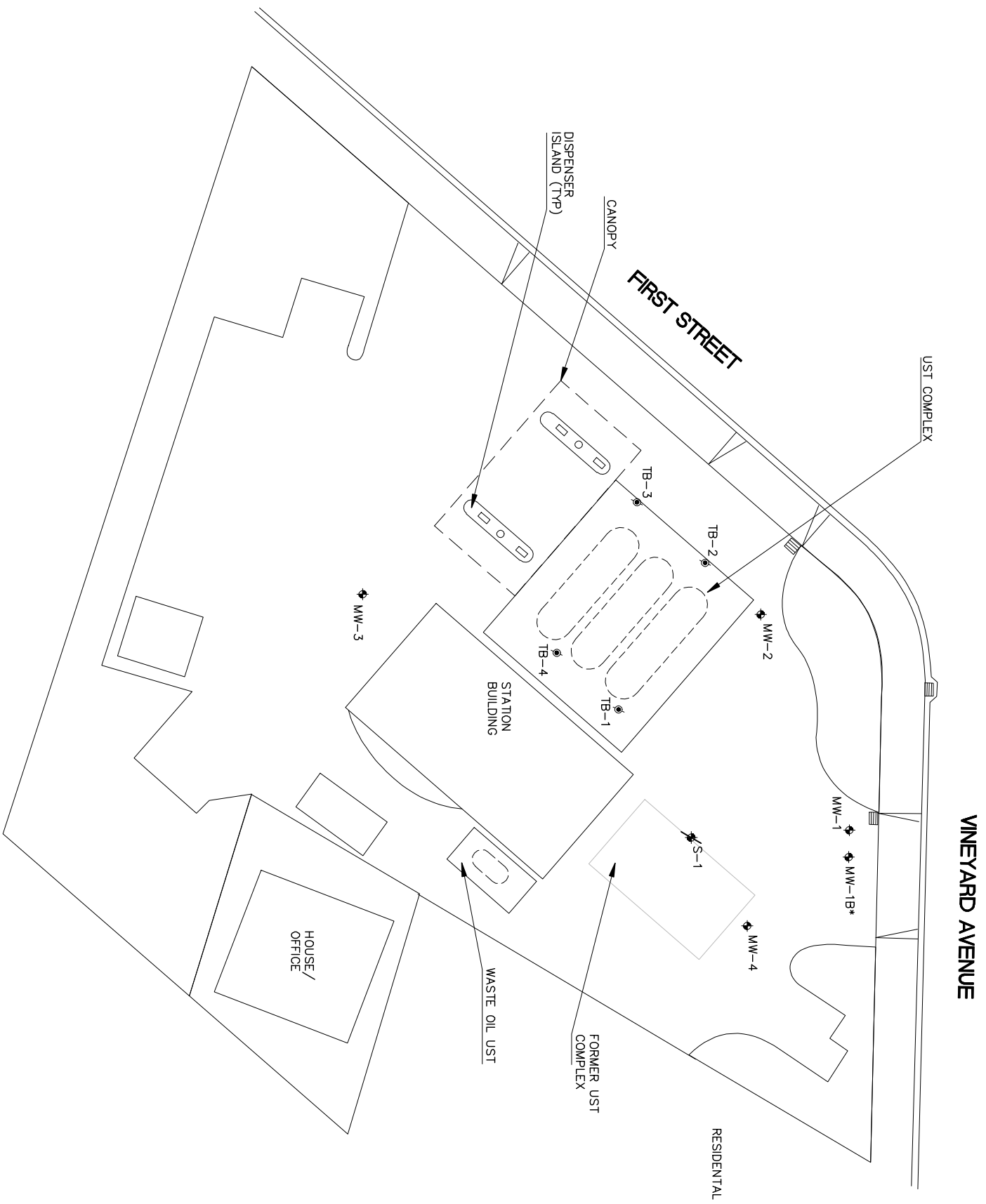
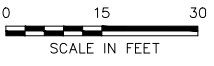


FIGURE 1
 SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION
 4226 First Street
 Pleasanton, California

PROJECT NO. SCA421211	DRAWN BY V. F. 5/5/05
FILE NO.	PREPARED BY VF
REVISION NO.	REVIEWED BY





- LEGEND**
- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - TB-1 ABANDONED TANK BACKFILL WELL LOCATION



SHELL OIL PRODUCTS US
SHELL-BRANDED SERVICE STATION
PLEASANTON, CALIFORNIA

FIGURE 2
SITE MAP

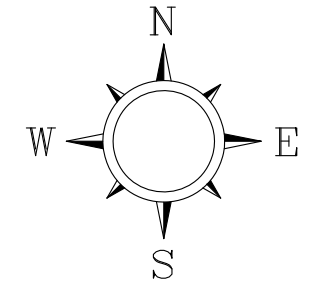
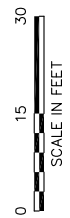
4212 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NUMBER
SCA421211A

APPROVED BY

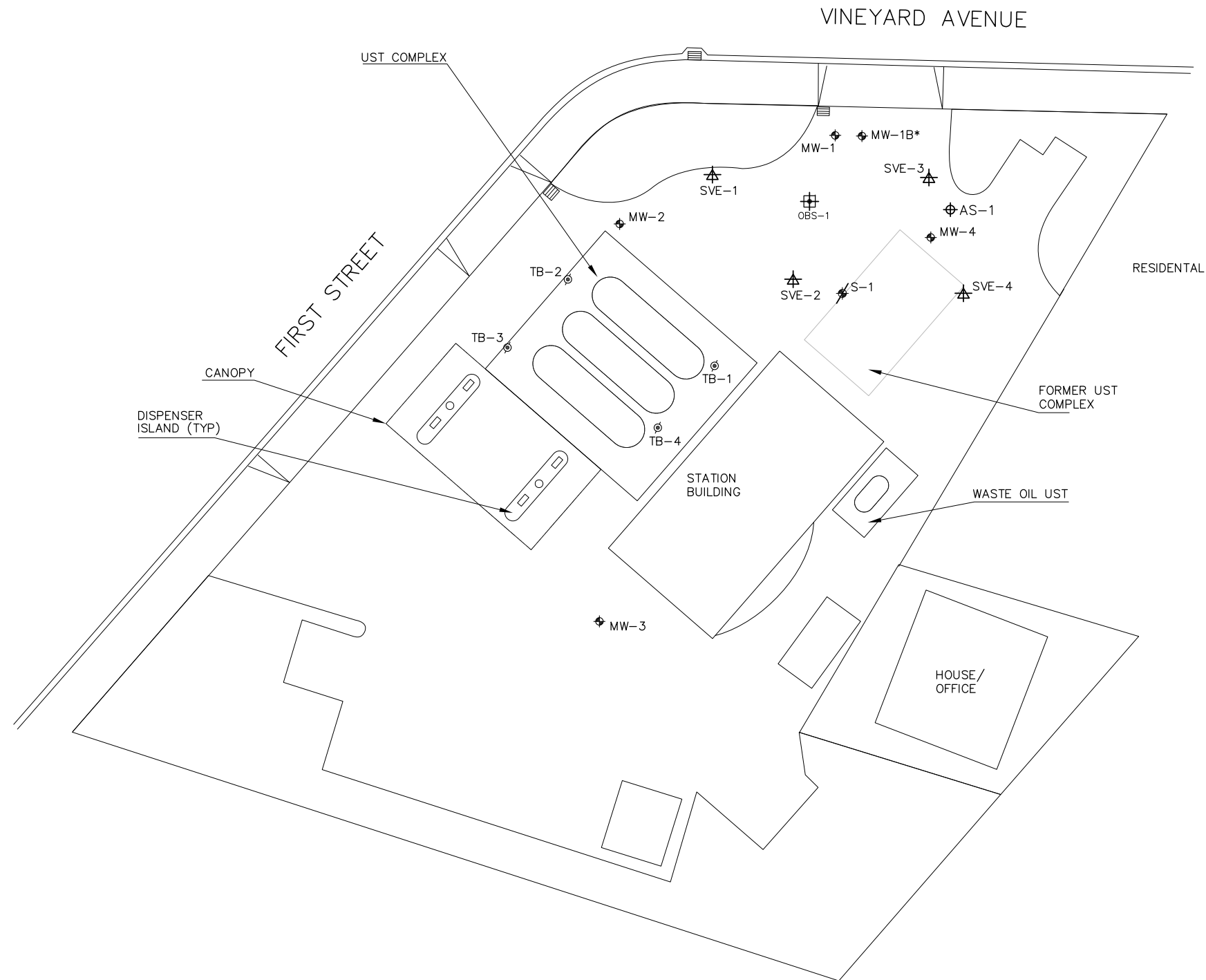
CHECKED BY

DRAWN BY
A.D
5/29/2009



LEGEND

- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- S-1 DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- TB-1 ABANDONED TANK BACKFILL WELL LOCATION
- SVE-1 PROPOSED SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
- AS-1 PROPOSED AIR SPARGE WELL LOCATION AND DESIGNATION
- OBS-1 PROPOSED OBSERVATION WELL LOCATION AND DESIGNATION



SHELL OIL PRODUCTS US
SHELL-BRANDED SERVICE STATION
PLEASANTON, CALIFORNIA

FIGURE 3
SITE MAP WITH
PROPOSED WELL LOCATIONS

4212 FIRST STREET
PLEASANTON, CALIFORNIA

TABLE

TABLE 1
Historical Groundwater Gauging and Analytical Data
 Shell-branded Service Station
 4212 First Street
 Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	6/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	371.20	37.81	333.39
MW-1	6/30/1999	89.0	5.89	<0.500	<0.500	0.652	<5.00	NA	NA	NA	NA	NA	371.20	33.65	337.55
MW-1	9/24/1999	1,560	473	<10.0	<10.0	22.8	<2.50	NA	NA	NA	NA	NA	371.20	37.04	334.16
MW-1	12/8/1999	1,020	375	<5.00	<5.00	15.2	<50.0	NA	NA	NA	NA	NA	371.20	36.79	334.41
MW-1	2/10/2000	523	106	<5.00	<5.00	31.8	2.9	NA	NA	NA	NA	NA	371.20	34.90	336.30
MW-1	5/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	37	29.5	NA	NA	NA	NA	371.20	32.55	338.65
MW-1	8/3/2000	808	290	<2.50	<2.50	8.9	<12.5	NA	NA	NA	NA	NA	371.20	39.13	332.07
MW-1	10/31/2000	507	250	0.962	<0.500	23.5	3.76	NA	NA	NA	NA	NA	371.20	37.91	333.29
MW-1	3/1/2001	<50.0	<0.500	<0.500	<0.500	<0.500	74.6	NA	NA	NA	NA	NA	371.20	39.60	331.60
MW-1	5/30/2001	780	280	<2.0	<2.0	11	NA	<2.0	NA	NA	NA	NA	371.20	39.53	331.67
MW-1	8/2/2001	1,900	580	<2.5	<2.5	12	NA	<25	NA	NA	NA	NA	371.20	39.61	331.59
MW-1	12/6/2001	840	190	<0.50	<0.50	13	NA	<5.0	NA	NA	NA	NA	371.20	39.63	331.57
MW-1	2/5/2002	2,700	650	<2.5	<2.5	7.2	NA	<25	NA	NA	NA	NA	371.20	35.53	335.67
MW-1	6/17/2002	2,500	550	<2.0	<2.0	5.9	NA	<20	NA	NA	NA	NA	371.20	39.29	331.91
MW-1	7/25/2002	690	130	<0.50	<0.50	4.4	NA	18	NA	NA	NA	NA	371.20	39.39	331.81
MW-1	11/14/2002	400	31	<0.50	<0.50	2.7	NA	27	NA	NA	NA	NA	371.20	40.00	331.20
MW-1	2/12/2003	840	0.85	<0.50	<0.50	<0.50	NA	40	NA	NA	NA	NA	371.20	32.92	338.28
MW-1	5/14/2003	680	190	<2.5	<2.5	<5.0	NA	95	NA	NA	NA	NA	371.20	32.57	338.63
MW-1	7/29/2003	870	190	<2.5	<2.5	<5.0	NA	150	NA	NA	NA	NA	371.20	33.82	337.38
MW-1	11/19/2003	<200	14	<2.0	<2.0	<4.0	NA	230	NA	NA	NA	NA	371.20	38.28	332.92
MW-1	2/19/2004	58 d	11	<0.50	<0.50	<1.0	NA	85	NA	NA	NA	NA	371.20	36.93	334.27
MW-1	5/3/2004	670	310	<2.5	<2.5	<5.0	NA	420	NA	NA	NA	NA	371.20	32.70	338.50
MW-1	8/24/2004	430 d	34	<2.5	<2.5	<5.0	NA	690	NA	NA	NA	NA	371.20	34.66	336.54
MW-1	11/15/2004	<250	29	<2.5	<2.5	<5.0	NA	470	NA	NA	NA	NA	371.20	38.27	332.93
MW-1	2/2/2005	540 e	87	<2.5	<2.5	<5.0	NA	700	NA	NA	NA	NA	371.20	32.02	339.18
MW-1	5/5/2005	460 e	88	<2.5	<2.5	<5.0	NA	300	NA	NA	NA	NA	371.20	36.82	334.38
MW-1	8/5/2005	910	230	<2.5	<2.5	<5.0	NA	480	NA	NA	NA	NA	371.20	33.35	337.85

TABLE 1
Historical Groundwater Gauging and Analytical Data
 Shell-branded Service Station
 4212 First Street
 Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	11/22/2005	1,760	27	<0.500	<0.500	1	NA	1,160	NA	NA	NA	NA	371.20	33.42	337.78
MW-1	2/7/2006	4,620	225	<0.500	<0.500	<0.500	NA	1,480	NA	NA	NA	NA	371.20	31.63	339.57
MW-1	5/16/2006	1,100	130	<0.50	2	2	NA	1,600	NA	NA	NA	NA	371.20	31.16	340.04
MW-1	8/21/2006	2,700	86	<0.500	1	1	NA	1,960	NA	NA	NA	NA	371.20	33.07	338.13
MW-1	11/14/2006	1,400 g	30	<25	<25	<25	NA	2,100	<25	<25	<25	<1,000	371.20	33.73	337.47
MW-1	2/1/2007	800	21	<0.50	<0.50	<1.0	NA	2,300	NA	NA	NA	NA	371.20	33.02	338.18
MW-1	6/1/2007	1,400 j,k	68	<20	<20	4.4 l	NA	2,200	NA	NA	NA	NA	371.20	32.87	338.33
MW-1	8/22/2007	250 j	20	<20	<20	<20	NA	3,100	NA	NA	NA	1,500	371.20	34.64	336.56
MW-1	11/26/2007	1,800 j	33	<20	<20	<20	NA	3,100	<40	<40	<40	930	371.20	35.59	335.61
MW-1	2/19/2008	1,800 j	33	<20	<20	<20	NA	3,700	NA	NA	NA	1,700	371.20	31.05	340.15
MW-1	5/23/2008	3,700	100	<25	<25	<25	NA	3,100	NA	NA	NA	1,300	371.20	31.80	339.40
MW-1	8/7/2008	4,200	33	<25	<25	<25	NA	3,500	NA	NA	NA	<250	371.20	33.03	338.17
MW-1	12/3/2008	3,400	34	<25	<25	<25	NA	3,200	NA	NA	NA	980	371.20	35.19	336.01
MW-1	2/5/2009	2,100	26	<25	<25	<25	NA	1,700	NA	NA	NA	340	371.20	35.07	336.13
MW-1B	9/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	371.67	76.94	294.73
MW-1B	9/28/2006	<50	<0.50	<0.50	<0.50	<0.50	NA	21	NA	NA	NA	<20	371.67	77.15	294.52
MW-1B	11/14/2006	320 g	<5.0	<5.0	<5.0	<5.0	NA	310	<5.0	<5.0	<5.0	<200	371.67	69.38	302.29
MW-1B	2/1/2007	77	0.53	<0.50	<0.50	<1.0	NA	150	NA	NA	NA	NA	371.67	60.92	310.75
MW-1B	6/1/2007	<50 j,k	0.25 l	<1.0	<1.0	<1.0	NA	74	NA	NA	NA	NA	371.67	61.07	310.60
MW-1B	8/22/2007	<50 j	0.25 l	<1.0	<1.0	<1.0	NA	35	NA	NA	NA	7.1 l	371.67	77.54	294.13
MW-1B	11/26/2007	<50 j	<0.50	<1.0	<1.0	<1.0	NA	1.7	<2.0	<2.0	<2.0	<10	371.67	68.50	303.17
MW-1B	2/19/2008	65 j	2.6	4.2	<1.0	1.1	NA	58	NA	NA	NA	<10	371.67	57.21	314.46
MW-1B	5/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	3.6	NA	NA	NA	<10	371.67	57.53	314.14
MW-1B	8/7/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.1	NA	NA	NA	<10	371.67	72.51	299.16
MW-1B	12/3/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	3.4	NA	NA	NA	<10	371.67	80.84	290.83
MW-1B	2/5/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	4.4	NA	NA	NA	<10	371.67	76.11	295.56

TABLE 1
Historical Groundwater Gauging and Analytical Data
 Shell-branded Service Station
 4212 First Street
 Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	2/3/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372.40	32.65	339.75
MW-2	2/7/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372.40	35.51	336.89
MW-2	2/10/2000	<50.0	<0.500	<0.500	<0.500	<0.500	2.61	NA	NA	NA	NA	NA	372.40	36.62	335.78
MW-2	5/17/2000	120	4.09	<0.500	<0.500	<0.500	29	NA	NA	NA	NA	NA	372.40	32.14	340.26
MW-2	8/3/2000	<50.0	0.692	<0.500	<0.500	<0.500	40.5	36.6b	NA	NA	NA	NA	372.40	32.42	339.98
MW-2	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	57.4	44.8c	NA	NA	NA	NA	372.40	33.02	339.38
MW-2	3/1/2001	173	1.64	1.65	2.86	3.97	127	167	NA	NA	NA	NA	372.40	32.54	339.86
MW-2	5/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	NA	NA	NA	NA	372.40	32.42	339.98
MW-2	8/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	160	NA	NA	NA	NA	372.40	32.55	339.85
MW-2	12/6/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	NA	NA	NA	NA	372.40	33.15	339.25
MW-2	2/5/2002	<50	0.72	<0.50	<0.50	1.7	NA	170	NA	NA	NA	NA	372.40	32.29	340.11
MW-2	6/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	260	NA	NA	NA	NA	372.40	32.63	339.77
MW-2	7/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	280	NA	NA	NA	NA	372.40	32.80	339.60
MW-2	11/14/2002	120	13	9	3.8	14	NA	430	NA	NA	NA	NA	372.40	33.31	339.09
MW-2	2/12/2003	<100	<1.0	<1.0	<1.0	<1.0	NA	430	NA	NA	NA	NA	372.40	32.15	340.25
MW-2	5/14/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	470	NA	NA	NA	NA	372.40	32.01	340.39
MW-2	7/29/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	670	NA	NA	NA	NA	372.40	32.51	339.89
MW-2	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	54	NA	NA	NA	NA	372.40	33.83	338.57
MW-2	2/19/2004	65	<0.50	3.4	1.4	6.5	NA	8.2	NA	NA	NA	NA	372.40	32.68	339.72
MW-2	5/3/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	5.2	NA	NA	NA	NA	372.40	32.07	340.33
MW-2	8/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	2.7	NA	NA	NA	NA	372.40	32.44	339.96
MW-2	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	1.3	NA	NA	NA	NA	372.40	32.95	339.45
MW-2	2/2/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	24	NA	NA	NA	NA	372.40	31.94	340.46
MW-2	5/5/2005	72 f	<0.50	<0.50	<0.50	<1.0	NA	4.9	NA	NA	NA	NA	372.40	31.91	340.49
MW-2	8/5/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	16	NA	NA	NA	NA	372.40	32.15	340.25
MW-2	11/22/2005	840	1	<0.500	<0.500	1	NA	556	NA	NA	NA	NA	372.40	32.31	340.09
MW-2	2/7/2006	3,550	<0.500	<0.500	<0.500	<0.500	NA	2,500	NA	NA	NA	NA	372.40	31.70	340.70
MW-2	5/16/2006	1,400	<5.0	<5.0	<5.0	<10	NA	1,700	NA	NA	NA	NA	372.40	31.38	341.02

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 Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	8/21/2006	1,910	<0.500	<0.500	<0.500	<0.500	NA	2,590	NA	NA	NA	NA	372.40	33.29	339.11
MW-2	11/14/2006	2,300 g	<25	<25	<25	<25	NA	2,500	<25	<25	<25	<1,000	372.40	32.67	339.73
MW-2	2/1/2007	670	<0.50	<0.50	<0.50	<1.0	NA	2,000	NA	NA	NA	NA	372.40	32.13	340.27
MW-2	6/1/2007	500 j,k	<10	<20	<20	<20	NA	2,000	NA	NA	NA	NA	372.40	32.14	340.26
MW-2	8/22/2007	100 j,k	<10	<20	<20	<20	NA	2,400	NA	NA	NA	120 l	372.40	32.93	339.47
MW-2	11/26/2007	1,600 j,k	<10	<20	<20	<20	NA	2,900	<40	<40	<40	<200	372.40	33.44	338.96
MW-2	2/19/2008	1,300 j,k	<10	<20	<20	<20	NA	3,300	NA	NA	NA	<200	372.40	31.18	341.22
MW-2	5/23/2008	1,900	<12	<25	<25	<25	NA	1,700	NA	NA	NA	<250	372.40	31.44	340.96
MW-2	8/7/2008	1,700	<10	<20	<20	<20	NA	1,300	NA	NA	NA	<200	372.40	31.94	340.46
MW-2	12/3/2008	3,000	<10	<20	<20	<20	NA	2,900	NA	NA	NA	<200	372.40	32.53	339.87
MW-2	2/5/2009	1,200	<10	<20	<20	<20	NA	1,000	NA	NA	NA	<200	372.40	32.29	340.11
MW-3	2/3/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	375.05	32.06	342.99
MW-3	2/7/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	375.05	32.57	342.48
MW-3	2/10/2000	180	5.12	<0.500	<0.500	0.714	26.8	21.5a	NA	NA	NA	NA	375.05	32.77	342.28
MW-3	5/17/2000	1,360	414	<5.00	<5.00	17.6	<25.0	NA	NA	NA	NA	NA	375.05	31.00	344.05
MW-3	8/3/2000	<50.0	0.536	<0.500	<0.500	<0.500	22	NA	NA	NA	NA	NA	375.05	31.03	344.02
MW-3	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	31.1	NA	NA	NA	NA	NA	375.05	31.28	343.77
MW-3	3/1/2001	384	172	0.815	<0.500	8	5.16	NA	NA	NA	NA	NA	375.05	31.21	343.84
MW-3	5/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	110	NA	NA	NA	NA	375.05	31.02	344.03
MW-3	8/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	93	NA	NA	NA	NA	375.05	30.94	344.11
MW-3	12/6/2001	110	<0.50	<0.50	<0.50	2.3	NA	180	NA	NA	NA	NA	375.05	31.28	343.77
MW-3	2/5/2002	<50	0.89	0.6	<0.50	2.1	NA	130	NA	NA	NA	NA	375.05	31.12	343.93
MW-3	6/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	72	NA	NA	NA	NA	375.05	31.21	343.84
MW-3	7/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	81	NA	NA	NA	NA	375.05	30.96	344.09
MW-3	11/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	60	NA	NA	NA	NA	375.05	31.44	343.61
MW-3	2/12/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	43	NA	NA	NA	NA	375.05	31.28	343.77
MW-3	5/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	24	NA	NA	NA	NA	375.05	31.20	343.85

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 Shell-branded Service Station
 4212 First Street
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MW-3	7/29/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	21	NA	NA	NA	NA	375.05	31.29	343.76
MW-3	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	8.2	NA	NA	NA	NA	375.05	31.86	343.19
MW-3	2/19/2004	81	0.67	4.4	1.8	8.6	NA	13	NA	NA	NA	NA	375.05	31.66	343.39
MW-3	5/3/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	13	NA	NA	NA	NA	375.05	31.72	343.33
MW-3	8/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	10	NA	NA	NA	NA	375.05	32.09	342.96
MW-3	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	6.6	NA	NA	NA	NA	375.05	31.50	343.55
MW-3	2/2/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	3.1	NA	NA	NA	NA	375.05	31.28	343.77
MW-3	5/5/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.3	NA	NA	NA	NA	375.05	31.42	343.63
MW-3	8/5/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.4	NA	NA	NA	NA	375.05	31.35	343.70
MW-3	11/22/2005	<50	<0.500	<0.500	<0.500	<0.500	NA	3.84	NA	NA	NA	NA	375.05	31.98	343.07
MW-3	2/7/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	375.05	31.24	343.81
MW-3	5/16/2006	<50	<0.50	<0.50	<0.50	<1.0	NA	4.5	NA	NA	NA	NA	375.05	31.37	343.68
MW-3	8/21/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	4.04	NA	NA	NA	NA	375.05	31.95	343.10
MW-3	11/14/2006	<50	<0.50	<0.50	<0.50	<0.50	NA	3.8	<0.50	<0.50	<0.50	<20	375.05	32.24	342.81
MW-3	2/1/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	2.8	NA	NA	NA	NA	375.05	32.17	342.88
MW-3	6/1/2007	<50 j	<0.50	<1.0	<1.0	<1.0	NA	3.1	NA	NA	NA	NA	375.05	31.86	343.19
MW-3	8/22/2007	<50 j	<0.50	<1.0	<1.0	<1.0	NA	4.6	NA	NA	NA	<10	375.05	32.18	342.87
MW-3	11/26/2007	<50 j	<0.50	<1.0	<1.0	<1.0	NA	3.5	<2.0	<2.0	<2.0	<10	375.05	32.69	342.36
MW-3	2/19/2008	<50 j	<0.50	1.2	<1.0	<1.0	NA	2.6	NA	NA	NA	<10	375.05	30.94	344.11
MW-3	5/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	3.6	NA	NA	NA	<10	375.05	31.45	343.60
MW-3	8/7/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	3.0	NA	NA	NA	<10	375.05	31.40	343.65
MW-3	12/3/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	2.1	NA	NA	NA	<10	375.05	32.12	342.93
MW-3	2/5/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	1.1	NA	NA	NA	<10	375.05	32.74	342.31
MW-4	9/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372.78	31.58	341.20
MW-4	9/28/2006	11,000	<250	<250	<250	<250	NA	13,000	NA	NA	NA	<10,000	372.78	31.57	341.21
MW-4	11/14/2006	30,000	<250	<250	<250	<250 h,i	NA	14,000	<250	<250	<250	<10,000	372.78	32.11	340.67
MW-4	2/1/2007	6,300	50	<5.0	19	120	NA	14,000	NA	NA	NA	NA	372.78	33.23	339.55

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4212 First Street
Pleasanton, CA

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MW-4	6/1/2007	8,200 j	52	<25	26	150	NA	11,000	NA	NA	NA	NA	372.78	31.57	341.21
MW-4	8/22/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372.78	33.40	339.38
MW-4	11/26/2007	12,000 j	71	<100	<100	<100	NA	20,000	<200	<200	<200	<1,000	372.78	34.74	338.04
MW-4	2/19/2008	13,000 j	<100	<200	<200	<200	NA	18,000	NA	NA	NA	2,900	372.78	29.70	343.08
MW-4	5/23/2008	21,000	<100	<200	<200	<200	NA	16,000	NA	NA	NA	<2,000	372.78	31.67	341.11
MW-4	8/7/2008	27,000	<100	<200	<200	<200	NA	21,000	NA	NA	NA	<2,000	372.78	31.90	340.88
MW-4	12/3/2008	20,000	19	<25	<25	29	NA	21,000	NA	NA	NA	2,500	372.78	34.32	338.46
MW-4	2/5/2009	15,000	200	<200	<200	<200	NA	13,000	NA	NA	NA	<2,000	372.78	34.58	338.20
TB-1	2/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-1	2/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.54	NA
TB-1	5/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	12.31	NA
TB-2	2/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-2	2/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.56	NA
TB-2	5/14/2003	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.54	NA
TB-3	2/12/2003	Well dry		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-3	2/28/2003	Well dry		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-3	5/14/2003	Well dry		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	2/12/2003	Well dry		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	2/28/2003	Well dry		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	5/14/2003	Well dry		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

TABLE 1
Historical Groundwater Gauging and Analytical Data
 Shell-branded Service Station
 4212 First Street
 Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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Notes:

a = Sample was analyzed outside of the EPA recommended holding time.

b = Concentration is an estimate value above the linear quantitation range.

c = The result reported was generated out of time. The sample was originally run within hold time, but needed to be re-analyzed.

d = Sample contains discrete peak in addition to gasoline.

e = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

f = The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

g = The result for this hydrocarbon is elevated due to the presence of single analyte peak(s) in the quantitation range.

h = Sample was originally analyzed with a positive result, however the reanalysis did not confirm the presence of the analyte.

i = Confirmatory analysis was past holding time.

j = Analyzed by EPA Method 8015B (M).

k = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

l = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Well MW-1 surveyed on May 4, 1999 by Virgil Chavez Land Surveying of Vallejo, CA.

Site surveyed on March 19, 2000 by Virgil Chavez Land Surveying of Vallejo, CA.

Site surveyed on January 15, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

3Q06 survey data for wells MW-1B and MW-4 provided by Delta Environmental Consultants, Inc. of San Jose, CA.

APPENDIX A

ACHCS LETTER DATED MARCH 27, 2009



APR 06 2009

ENVIRONMENTAL SERVICES
WESTERN REGION

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-93

March 27, 2009

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Douglas and Mary Safreno
1627 Vineyard Avenue
Pleasanton, CA 94566-6389

aka 4212/

Subject: Fuel Leak Case No. RO0000360 and Geotracker Global ID T0600101259, Shell#13-5782, 4226 First Street, Pleasanton, CA 94566

Dear Mr. Brown and Mr. and Ms. Safreno:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the reports entitled, "Dual-Phase Extraction Pilot Test Report, Shell-branded Service Station, 4226 First Street, Pleasanton, California," dated February 12, 2009 (Report) and "Dispenser Repair Report, Shell-branded Service Station, 4226 First Street, Pleasanton, California," dated March 6, 2009. Both reports were prepared on Shell's behalf by Delta Environmental Consultants, Inc.

The Report presents the results of a 5-day pilot test of dual-phase extraction (DPE) using existing monitoring wells. Based on the results of the pilot test, the Report concludes that groundwater extraction is likely to have limited success as a remedial strategy but soil vapor extraction and air sparging may be successful. The Report recommends implementing SVE and sparge-based remediation for the site. We request that you submit an Interim Remediation Work Plan for SVE and air sparging by June 2, 2009 that includes installation of extraction wells, sparging wells, and monitoring wells to evaluate system performance.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **June 2, 2009** – Interim Remediation Work Plan
- **45 days following the end of each quarter** – Quarterly Monitoring Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Denis Brown
Douglas and Mary Safreno
RO0000360
March 27, 2009
Page 2

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

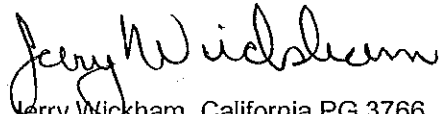
Denis Brown
Douglas and Mary Safreno
RO0000360
March 27, 2009
Page 3

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,



Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Cheryl Dizon, QIC 80201, Zone 7 Water Agency, 100 North Canyons Parkway
Livermore, CA 94551

Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street
Pleasanton, CA 94566

Suzanne McClurkin-Nelson, Delta Environmental Consultants, Inc., 312 Piercy Road, San Jose, CA
95138

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	ISSUE DATE: July 5, 2005
	REVISION DATE: December 16, 2005
	PREVIOUS REVISIONS: October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

Effective January 31, 2006, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in Excel format. These are for use by assigned Caseworker only.

Submission Instructions

1) Obtain User Name and Password:

- a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to dehloptoxic@acgov.org
 - or
 - ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
- b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker)** you will be posting for.

2) Upload Files to the ftp Site

- a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>.
 - (i) Note: Netscape and Firefox browsers will not open the FTP site.
- b) Click on File, then on Login As.
- c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
- d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
- e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs

- a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
- b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
- c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload)

APPENDIX B

**HISTORICAL SOIL ANALYTICAL DATA,
CROSS SECTION, AND BORING LOGS**

Table 2
Soil Analytical Data
Shell Service Station
4226 1st Street, Pleasanton, California

Sample Location	Sample Name	Sample Depth (feet)	Sample Date	TPH-g	Benzene	Ethyl-benzene	Toluene	Total Xylenes	MTBE	TBA
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				EPA 8015 Mod.	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
B-1	B-1 d 5	5	03/27/07	ND< 0.1		ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-1	B-1 d 9.5	9.5	03/29/07	5.4	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-1	B-1 d 14.5	14.5	03/29/07	0.13 QP	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.046	0.068
B-1	B-1 d 19.5	19.5	03/29/07	0.57 QP	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.01	0.6	0.8
B-1	B-1 d 24.5	24.5	03/29/07	0.92 QP	ND< 0.05	ND< 0.05	ND< 0.05	ND< 0.05	0.78	0.2
B-1	B-1 d 29.5	29.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.059	ND< 0.02
B-1	B-1 d 34.5	34.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.12	0.033
B-2	B-2 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-2	B-2 d 9.5	9.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-2	B-2 d 14.5	14.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-2	B-2 d 19.5	19.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.082
B-2	B-2 d 24.5	24.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.11	0.03
B-2	B-2 d 29	29	03/29/07	0.25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.22	0.14
B-2	B-2 d 34.5	34.5	03/29/07	0.32 QP	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.45	0.75
B-3	B-3 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-3	B-3 d 9.5	9.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-3	B-3 d 14.5	14.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.08	ND< 0.02
B-3	B-3 d 19.5	19.5	03/28/07	0.11 QP	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.14	0.021
B-3	B-3 d 24.5	24.5	03/28/07	0.45	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.083	ND< 0.02
B-3	B-3 d 29	29	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.016	0.073
B-3	B-3 d 34.5	34.5	03/28/07	710	0.096	2.3	ND< 0.05	16	ND< 0.025	ND< 5
B-4	B-4 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-4	B-4 d 9.5	9.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-4	B-4 d 14.5	14.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-4	B-4 d 20	20	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.04	ND< 0.02
B-4	B-4 d 24.5	24.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.026	ND< 0.02
B-4	B-4 d 29.5	29.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.0063	0.071
B-4	B-4 d 35	35	03/28/07	0.54 QP	ND< 0.025	ND< 0.025	ND< 0.025	ND< 0.025	0.8	0.63
B-5	B-5 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-5	B-5 d 10.5	10.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-5	B-5 d 15.5	15.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-5	B-5 d 20.5	20.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.0054	ND< 0.02
B-5	B-5 d 25.5	25.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-5	B-5 d 30	30	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.065	0.1
B-5	B-5 d 35	35	03/28/07	ND< 0.5	ND< 0.025	ND< 0.025	ND< 0.025	ND< 0.025	0.3	0.46

Notes:

mg/kg - milligrams per kilogram

ND - Not detected above laboratory detection limits

NA - Not analyzed

TPH-g - Total Petroleum Hydrocarbons as gasoline

MTBE - Methyl tert-butyl ether

TBA - Tert-butyl alcohol

Data Qualifiers and Definitions:

QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.

Table 2
Summary of Soil Analytical Data
Shell Service Station
4226 First Street, Pleasanton, CA

Sample Designation	Date Sampled	Depth (feet)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)
MW-1B@65'	8/23/2006	65	<2.5	<0.025	<0.025	<0.025	<0.050	<0.025	<0.250
MW-1B@69.5'	8/23/2006	69.5	<2.5	<0.025	<0.025	<0.025	<0.050	<0.025	<0.250
MW-1B@95'	8/23/2006	95	<2.5	<0.025	<0.025	<0.025	<0.050	<0.025	<0.250
MW-4@35'	8/24/2006	35	51	<0.025	<0.025	<0.025	<0.050	0.17	<0.250
MW-4@36.5'	8/24/2006	36.5	380	<0.025	<0.025	1.2	1.6	0.092	<0.250
MW-4@39.5'	8/24/2006	39.5	6.7	<0.025	<0.025	0.05	0.064	0.038	<0.250
MW-4@44.5'	8/24/2006	44.5	<2.5	<0.025	<0.025	<0.025	<0.050	0.59	<0.250
MW-4@50'	8/24/2006	50	<2.5	<0.025	<0.025	<0.025	<0.050	0.56	<0.250
Notes: mg/kg = milligrams per kilogram TPH-G = Total petroleum hydrocarbons as gasoline MTBE = Methyl tert-butyl ether									

Table 1
Summary of Soil Analytical Data
 Shell-branded Service Station
 4226 First Street
 Pleasanton, California

Sample	Depth (feet)	TPH-G (mg/kg)	TPH-D (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	TPH-o&g (mg/kg)	PCBs (ug/kg)	Semi VOCs	VOCs
W0-1 @ 10	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<100	NA	NA	NA
W0-1 @ 20	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<100	NA	NA	NA
W0-3 @ 30	30	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	NA	<100	<50	No Detections	No Detections

Notes:
 mg/kg = milligrams per kilogram
 TPH-G = Total petroleum hydrocarbons as gasoline
 TPH-D = Total petroleum hydrocarbons as diesel
 TPH-o&g = Total petroleum hydrocarbons as oil and grease
 PCBs = polychlorinated biphenyl
 Semi VOCs = Semi volatile organics compounds
 VOCs = volatile organic compounds

Sample WO-1 @ 30 feet CAM 17 Metals		
	Site (mg/kg)	ESL (mg/kg)
Antimony	<2.0	310
Arsenic	2.8	16
Barium	93	2500
Beryllium	<0.50	98
Cadmium	1.0	38
Chromium	30	58
Cobalt	6.2	94
Copper	13	2500
Lead	7.4	750
Molybdenum	<1.0	2500
Nickel	32	1000
Selenium	<2.0	2500
Thallium	<1.0	51
Vanadium	22	2500
Zinc	28	2500
Mercury	0.05	110

June 2005

Note: ESL = Environmental screening level, deep soils (<3 m), potential source of drinking water, residential land use.
 San Francisco Bay Regional Water Quality Control Board

CAMBRIA

Table 1 Soil Analytical Results - Shell-branded Service Station Incident# 98995840
4226 First Street, Pleasanton, California

Sample	TPHg	Benzene	Toluene	Ethylbenzene	Xylene	MTBE
	← (concentrations reported in ppm) →					
MW-2-6.3'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-2-16.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-2-21.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-2-26.0'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-2-30.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-2-35.0'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-3-5.0'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-3-10.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-3-15.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-3-20.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-3-25.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-Butyl Ether by EPA 8020.

ppm = parts per million

Samples collected January 18 and 19, 2000

TABLE 1
CHEMICAL ANALYSIS OF SOIL SAMPLES
SHELL SERVICE STATION
4226 FIRST STREET
PLEASANTON, CALIFORNIA

Concentrations in mg/kg (parts per million)

<u>Boring</u>	<u>Depth (ft)</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylene</u>
SB-1	15	4.2	ND	ND	ND	ND
SB-1	35	18	ND	ND	ND	ND
SB-1	50	ND	ND	ND	ND	ND
SB-2	15	ND	ND	ND	ND	ND
SB-2	30	7.2	ND	0.17	ND	ND
SB-3	10	ND	ND	ND	ND	ND
SB-3	30	ND	ND	ND	ND	ND
WA-1	30	380	2.2	2.7	5.3	32
WA-1	35	290	1.8	0.35	0.24	1.5
WA-1	40	ND	ND	ND	ND	ND
WA-1	50	ND	ND	ND	ND	ND

Detection Limits:	1.0	0.050	0.10	0.10	0.10
-------------------	-----	-------	------	------	------

- Notes:
- 1) TPH - Total Petroleum Hydrocarbons (gasoline range) analyzed by EPA Methods 5030/8015
 - 2) Benzene, Toluene, Ethylbenzene and Xylene analyzed by EPA Method 8020
 - 3) ND- Not Detected at detection limit shown
 - 4) SB-1, SB-2 and SB-3 samples collected March 5, 1990
 WA-1 samples collected March 6, 1990

TABLE 1

ANALYTICAL RESULTS OF SOIL SAMPLES
 Concentrations in mg/kg (parts per million)

SHELL OIL COMPANY
 4226 FIRST STREET
 PLEASANTON, CALIFORNIA

Boring	TPH	Benzene	Toluene	Ethylbenzene	Xylenes
SB4-15	N.D.	N.D.	N.D.	N.D.	N.D.
SB4-35	N.D.	0.023	0.0071	N.D.	0.0055
SB4-50	N.D.	0.030	0.0059	N.D.	N.D.
SB5-35	820	65	3.7	6.5	65
SB5-40	N.D.	N.D.	N.D.	N.D.	N.D.
SB5-50	N.D.	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS:	1.0	0.0050	0.0050	0.0050	0.0050

- NOTES: 1) TPH - Total Petroleum Hydrocarbons (Gasoline Range) analyzed by EPA Methods 5030/8015.
 2) Benzene, Toluene, Ethylbenzene and Xylene analyzed by EPA Method 8020.
 3) ND - Not detected.

CAMBRIA

Table 1 Soil Analytical Results - Shell-branded Service Station Incident# 98995840
4226 First Street, Pleasanton, California

Sample	TPHg	Benzene	Toluene	Ethyl Benzene	Xylene	MTBE
	← (ppm) →					
SB-6-15.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-19.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-25.0'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-30.0'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-35.0'	<1.0	0.0069	<0.0050	<0.0050	<0.0050	<0.025
SB-6-40.0'	<1.0	<0.0050	0.28	<0.0050	<0.0050	<0.025
SB-6-45.0'	<1.0	0.1	<0.0050	<0.0050	<0.0050	<0.025
SB-7-15.0'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-19.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-24.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-29.3'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-34.3'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-40.0'	83	<0.0050	0.37	0.26	0.26	<0.025
SB-7-44.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-59.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
SB-7-64.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-Butyl Ether

ppm = parts per million

Samples collected April 7 through 9, 1999

CAMBRIA

Table 1 Soil Analytical Results - Shell-branded Service Station Incident# 98995840
4226 First Street, Pleasanton, California

Sample	TPHg	Benzene	Toluene	Ethyl Benzene	Xylene	MTBE
SB-6-15.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-19.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-25.0'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-30.0'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-35.0'	<1.0	0.0069	<0.0050	<0.0050	<0.0050	<0.025
SB-6-40.0'	<1.0	<0.0050	0.28	<0.0050	<0.0050	<0.025
SB-6-45.0'	<1.0	0.1	<0.0050	<0.0050	<0.0050	<0.025
SB-7-15.0'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-19.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-24.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-29.3'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-34.3'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-40.0'	83	<0.0050	0.37	0.26	0.26	<0.025
SB-7-44.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-59.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
SB-7-64.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-Butyl Ether

ppm = parts per million

Samples collected April 7 through 9, 1999

TABLE 1

ANALYTICAL RESULTS OF SOIL SAMPLES

Concentrations in mg/kg (parts per million)

SHELL OIL COMPANY
4226 FIRST STREET
PLEASANTON, CALIFORNIA

Boring	TPH	Benzene	Toluene	Ethylbenzene	Xylenes
SB4-15	N.D.	N.D.	N.D.	N.D.	N.D.
SB4-35	N.D.	0.023	0.0071	N.D.	0.0055
SB4-50	N.D.	0.030	0.0059	N.D.	N.D.
SB5-35	820	65	3.7	6.5	65
SB5-40	N.D.	N.D.	N.D.	N.D.	N.D.
SB5-50	N.D.	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS:					
	1.0	0.0050	0.0050	0.0050	0.0050

- NOTES: 1) TPH - Total Petroleum Hydrocarbons (Gasoline Range) analyzed by EPA Methods 5030/8015.
2) Benzene, Toluene, Ethylbenzene and Xylene analyzed by EPA Method 8020.
3) ND - Not detected.

TABLE 1
CHEMICAL ANALYSIS OF SOIL SAMPLES
SHELL SERVICE STATION
4226 FIRST STREET
PLEASANTON, CALIFORNIA

Concentrations in mg/kg (parts per million)

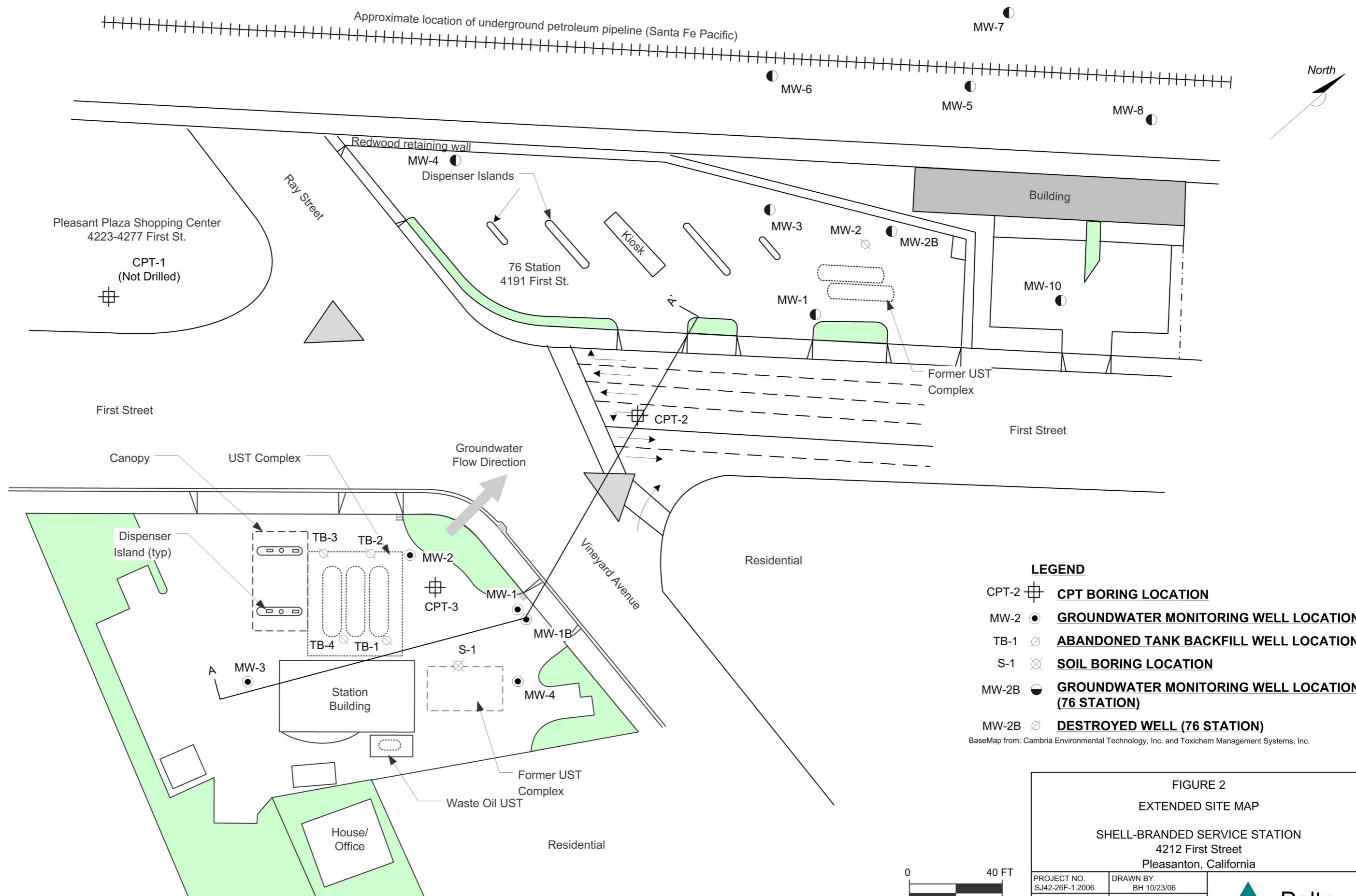
Boring	Depth (ft)	TPH	Benzene	Toluene	Ethylbenzene	Xylene
SB-1	15	4.2	ND	ND	ND	ND
SB-1	35	18	ND	ND	ND	ND
SB-1	50	ND	ND	ND	ND	ND
SB-2	15	ND	ND	ND	ND	ND
SB-2	30	7.2	ND	0.17	ND	ND
SB-3	10	ND	ND	ND	ND	ND
SB-3	30	ND	ND	ND	ND	ND
WA-1	30	380	2.2	2.7	5.3	32
WA-1	35	290	1.8	0.35	0.24	1.5
WA-1	40	ND	ND	ND	ND	ND
WA-1	50	ND	ND	ND	ND	ND
Detection Limits:		1.0	0.050	0.10	0.10	0.10

- Notes:
- 1) TPH - Total Petroleum Hydrocarbons (gasoline range) analyzed by EPA Methods 5030/8015
 - 2) Benzene, Toluene, Ethylbenzene and Xylene analyzed by EPA Method 8020
 - 3) ND- Not Detected at detection limit shown
 - 4) SB-1, SB-2 and SB-3 samples collected March 5, 1990
 WA-1 samples collected March 6, 1990

Table 2
Summary of Soil Analytical Data
 Shell Service Station
 4226 First Street, Pleasanton, CA

Sample Designation	Date Sampled	Depth (feet)		TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Xylene and Ethyl-benzene (mg/kg)
S-B	9/27/1985	3.5 to 5	*	2	<0.1	<0.1	<0.4
S-B	9/27/1985	7 to 8.5	*	460	<2.0	2	32
S-B	9/27/1985	10.5 to 12		610	<2.0	3.5	63
S-B	9/27/1985	14 to 15.5		1,300	<2.5	9.6	260
S-B	9/27/1985	19 to 20.5		<2	<0.1	<0.1	<0.4
S-C	9/27/1985	10.5 to 12		<2	<0.1	<0.1	<0.4
S-D	9/27/1985	10.5 to 12		<2	<0.1	<0.1	<0.4

Notes:
 mg/kg = milligrams per kilogram
 TPH-G = Total petroleum hydrocarbons as gasoline
 * Sample of gravel from UST pit



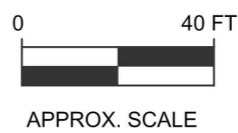
- LEGEND**
- CPT-2 **CPT BORING LOCATION**
 - MW-2 **GROUNDWATER MONITORING WELL LOCATION**
 - TB-1 **ABANDONED TANK BACKFILL WELL LOCATION**
 - S-1 **SOIL BORING LOCATION**
 - MW-2B **GROUNDWATER MONITORING WELL LOCATION (76 STATION)**
 - MW-2B **DESTROYED WELL (76 STATION)**

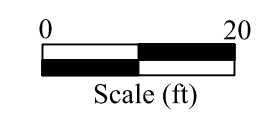
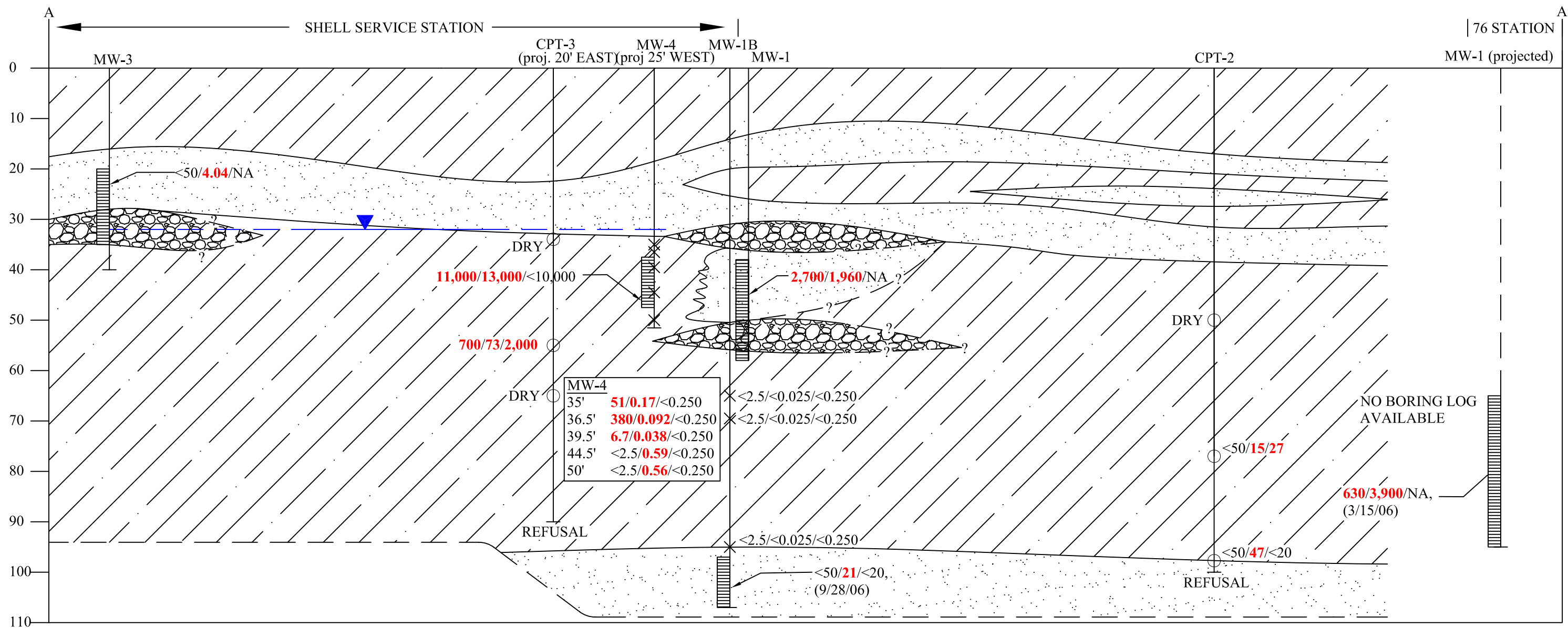
BaseMap from: Cambria Environmental Technology, Inc. and Toxicchem Management Systems, Inc.

FIGURE 2
EXTENDED SITE MAP
SHELL-BRANDED SERVICE STATION
4212 First Street
Pleasanton, California

PROJECT NO. SJ42-26F-1.2006	DRAWN BY BH 10/23/06
FILE NO. SJ42-26F-1.2006	PREPARED BY
REVISION NO. 2	REVIEWED BY

Delta
Environmental
Consultants, Inc.





LEGEND

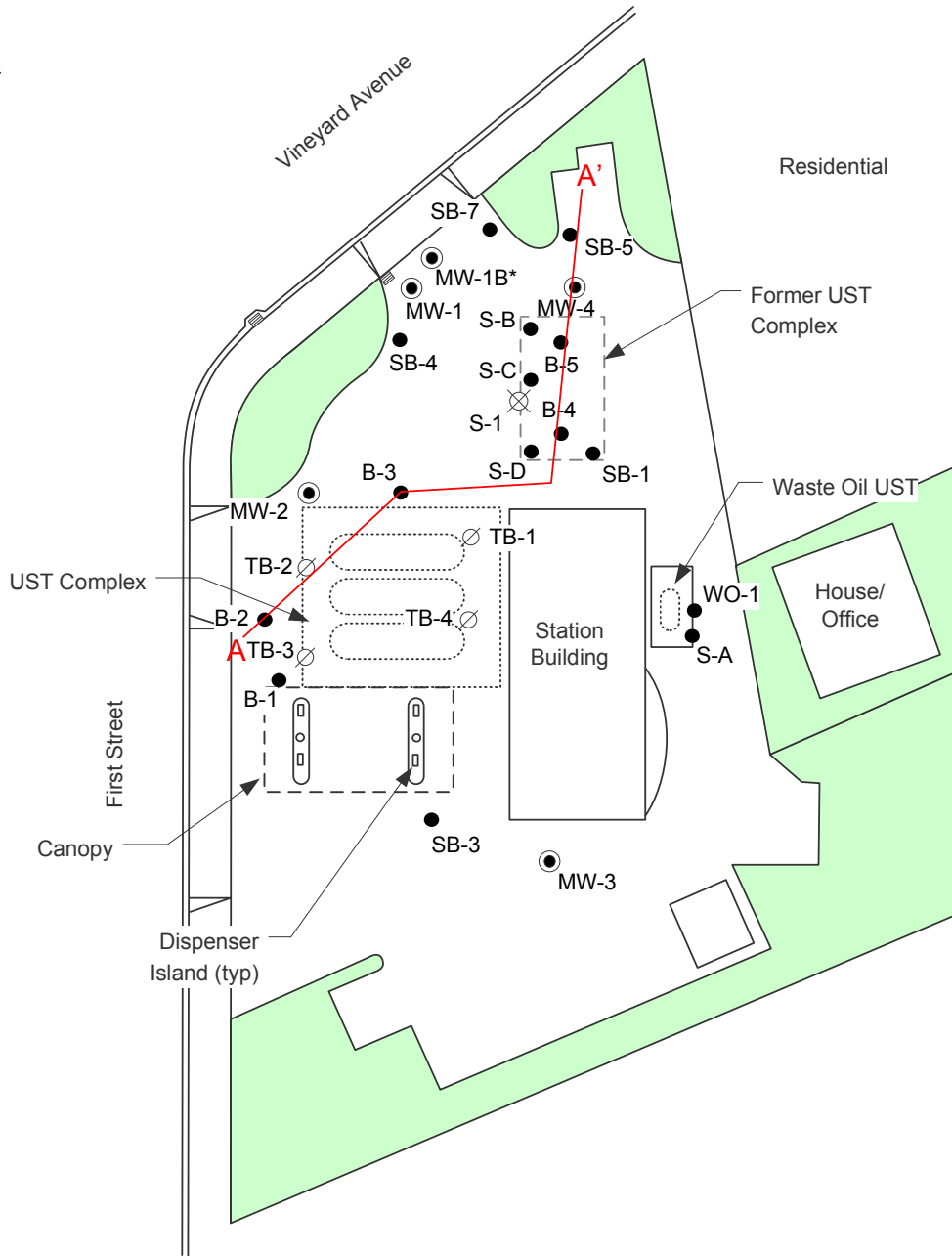
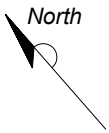
- <50/47/<20: TPH-G/MTBE/TBA CONCENTRATIONS IN GROUNDWATER (µg/L), AUGUST 15 AND SEPTEMBER 29, 2006
- ✕ <2.5/<0.025/<0.250: TPH-G/MTBE/TBA CONCENTRATIONS IN SOIL (mg/kg)
- ▼: GROUNDWATER ELEVATION
- NA: NOT ANALYZED
- ▨: CLAY; SILT; SANDY SILT
- ▧: SILTY SAND; CLAYEY SAND WITH GRAVEL; SAND; GRAVELLY SAND
- ⊞: SANDY GRAVEL; GRAVEL
- ▭ (with horizontal lines): SCREENED INTERVAL
- ▭ (with vertical lines): WELL/BORING IDENTIFICATION
- ▭ (with diagonal lines): (<50/21/<20) TPH-G/MTBE/TBA CONCENTRATIONS GROUNDWATER (µg/L), AUGUST 21, 2006

FIGURE 3
GEOLOGIC CROSS SECTION A-A'

SHELL SERVICE STATION
4212 FIRST ST.
PLEASANTON, CA

PROJECT NO.	DRAWN BY BH 10/19/06
FILE NO.	PREPARED BY HB
REVISION NO. 3	REVIEWED BY





LEGEND

- MW-2 ● **GROUNDWATER MONITORING WELL LOCATION**
- S-1 ⊗ **DESTROYED WELL**
- TB-1 ∅ **ABANDONED TANK BACKFILL WELL LOCATION**
- B-3 ● **SOIL BORING LOCATION**
- A—A' **CROSS SECTION DIRECTION**

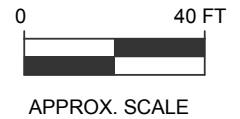


FIGURE 2
SITE MAP

SHELL-BRANDED SERVICE STATION
4226 First Street
Pleasanton, California

PROJECT NO. SJ422-6F1-X	DRAWN BY AD 6/15/07
FILE NO. SJ422-6F1-X	PREPARED BY AD
REVISION NO. 1	REVIEWED BY



BaseMap from: Cambria Environmental Technology, Inc. and Toxichem Management Systems, Inc.

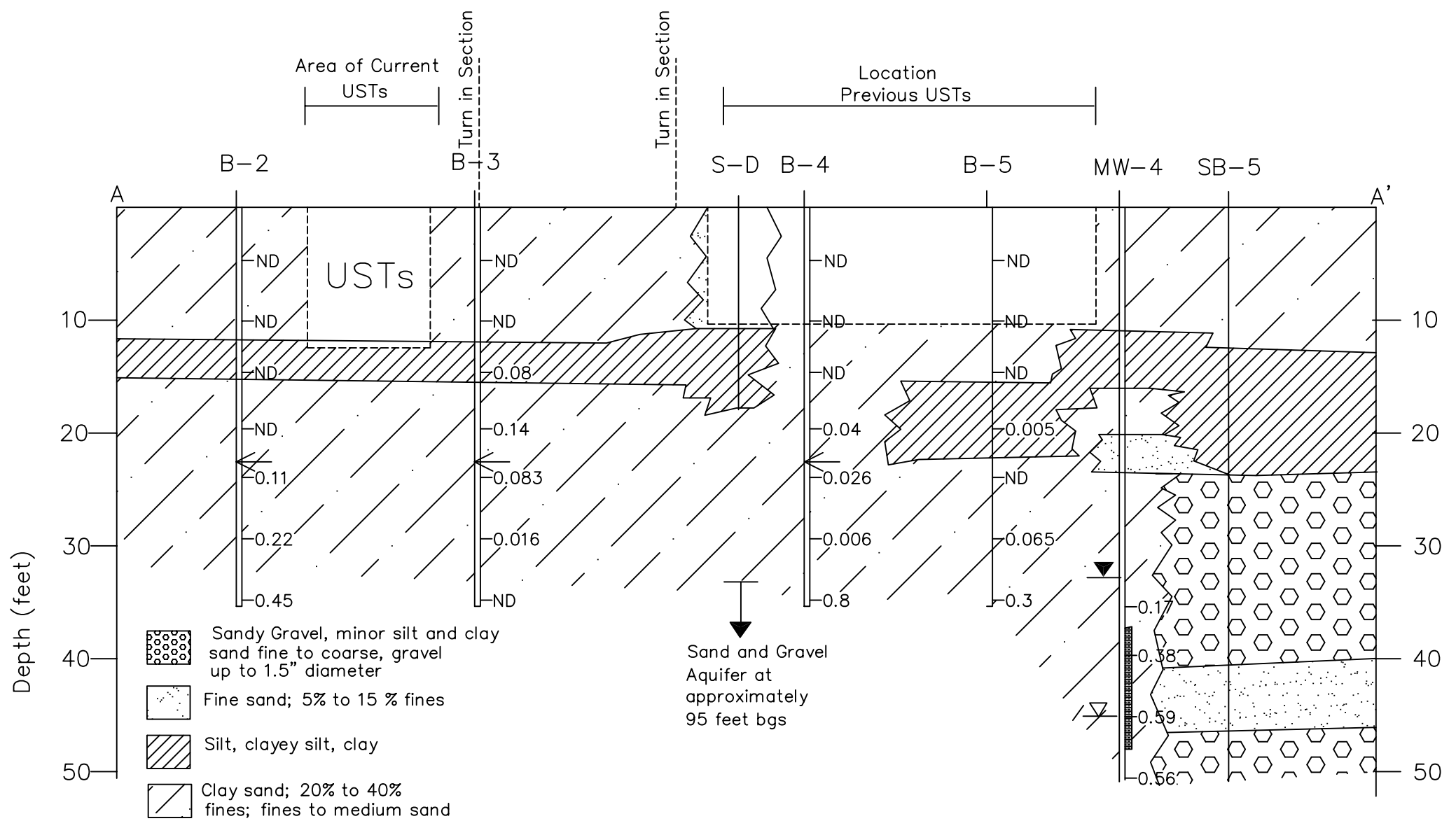
PROJECT NUMBER SJ4226

APPROVED BY

CHECKED BY

DRAWN BY TTM 01/25/08

SCALE IN FEET 0 20 40



- Sandy Gravel, minor silt and clay sand fine to coarse, gravel up to 1.5" diameter
- Fine sand; 5% to 15 % fines
- Silt, clayey silt, clay
- Clay sand; 20% to 40% fines; fines to medium sand
- 0.59 MTBE soil concentrations: ND - not detected mg/Kg; all data from 2006 and 2007
- Boring
- Well screen interval if present
- Stabilized groundwater level
- Initial encountered groundwater level

DELTA CONSULTANTS
SHELL OIL PRODUCTS US
SHELL SERVICE STATION
FIGURE 3
GEOLOGIC CROSS SECTION
A - A'
4226 FIRST STREET
PLEASANTON, CALIFORNIA

Shell-branded Service Station
 4226 First Street
 Pleasanton, California

Designed By: B. Jakub	Drawn By: G. Glasser	Approved By: B. Jakub
Revisions By:	Date:	
Description:		

Geologic Cross Section
 Incident #98995840

C A M B R I A

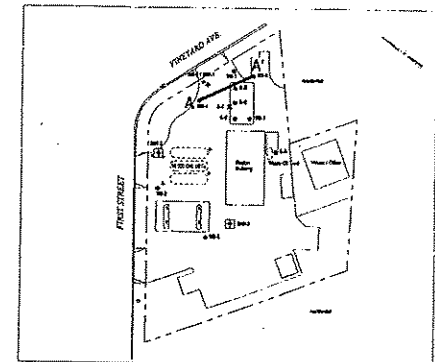
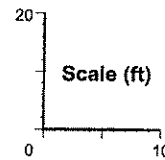
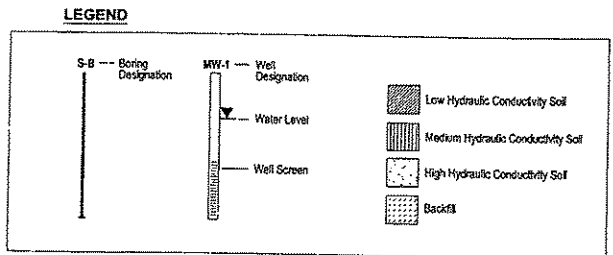
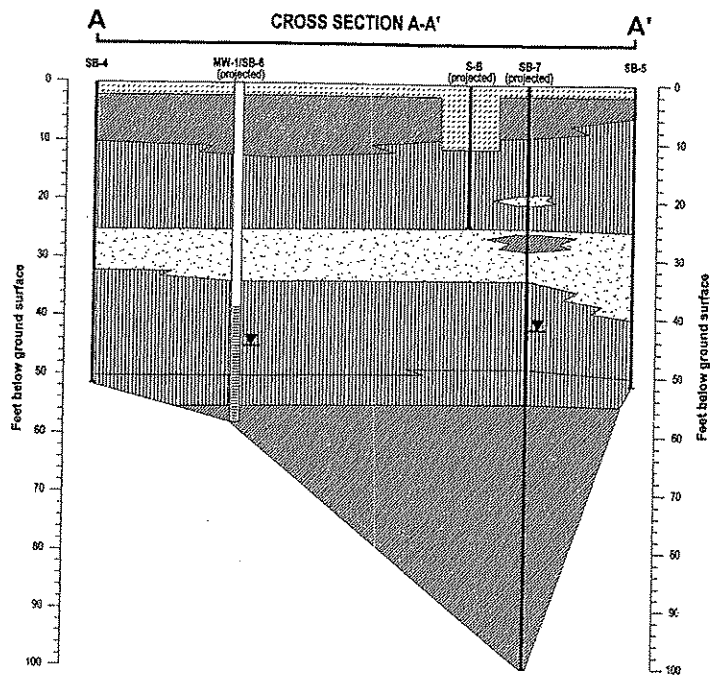


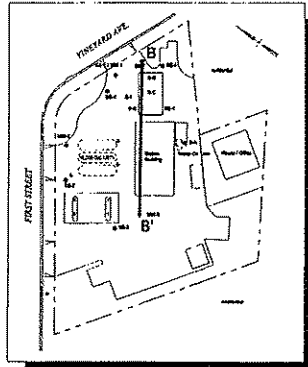
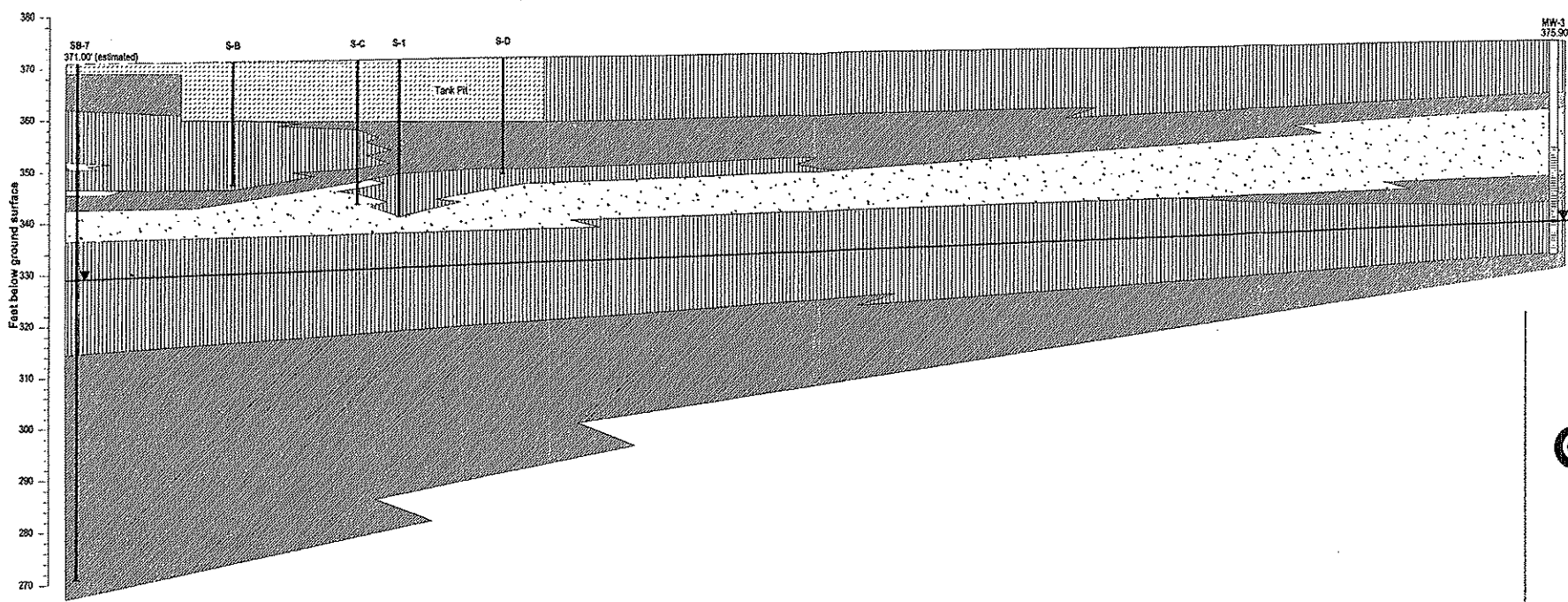
FIGURE 4



C:\CAMBRIA\GEOLOGICAL\SECTION 5.DWG

05/06/00

CROSS SECTION B-B'



LEGEND

<p>S-B — Boring Designation</p>	<p>MW-1 — Well Designation</p> <p>Water Level</p> <p>Well Screen</p>	<p>Low Hydraulic Conductivity Soil</p> <p>Medium Hydraulic Conductivity Soil</p> <p>High Hydraulic Conductivity Soil</p> <p>Backfill</p>
---------------------------------	----------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------

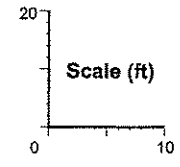


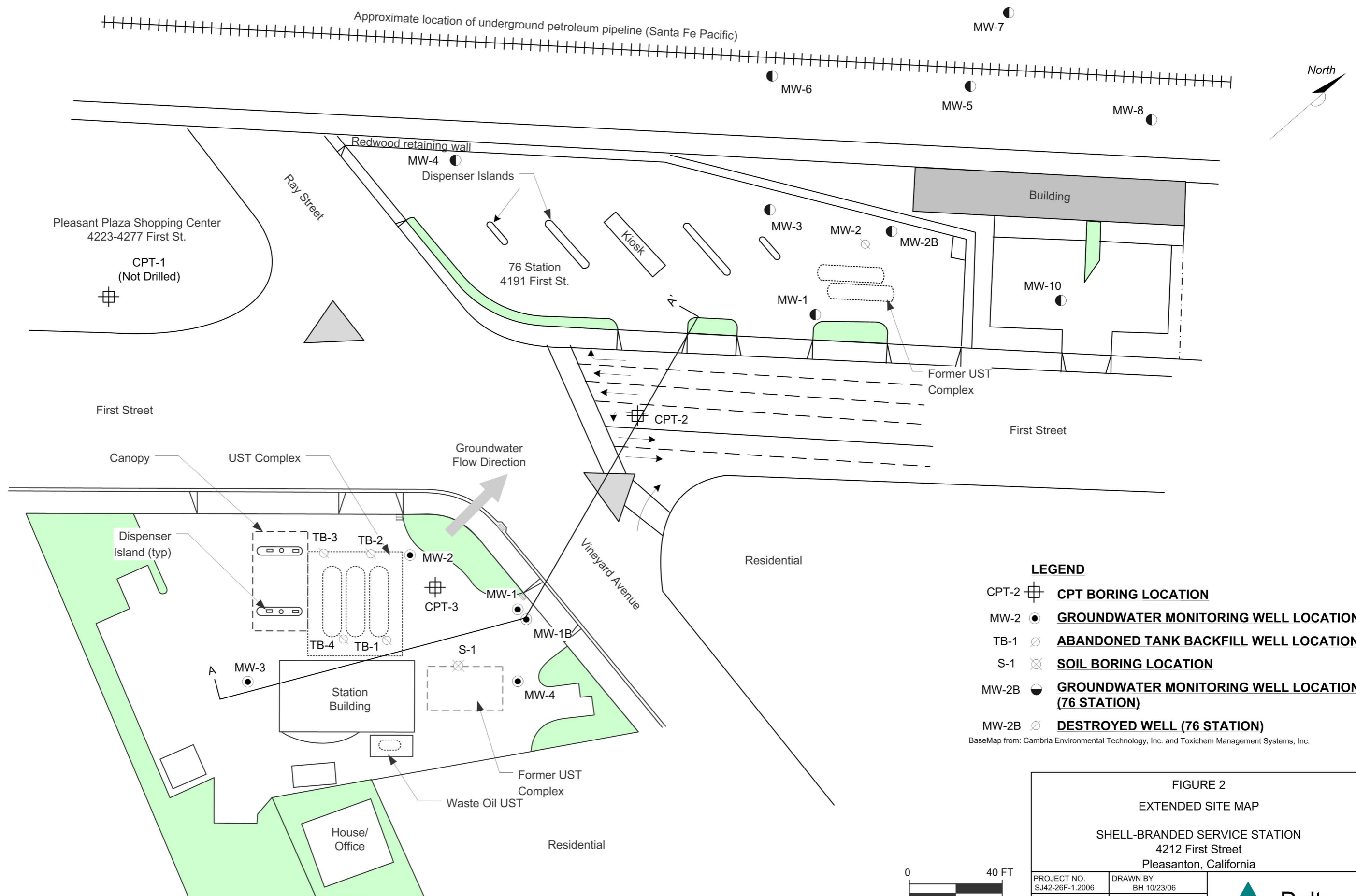
FIGURE 5

Geologic Cross Section B-B'



C A M B R I A

Shell-branded Service Station
 4226 First Street
 Pleasanton, California



- LEGEND**
- CPT-2 **CPT BORING LOCATION**
 - MW-2 **GROUNDWATER MONITORING WELL LOCATION**
 - TB-1 **ABANDONED TANK BACKFILL WELL LOCATION**
 - S-1 **SOIL BORING LOCATION**
 - MW-2B **GROUNDWATER MONITORING WELL LOCATION (76 STATION)**
 - MW-2B **DESTROYED WELL (76 STATION)**

BaseMap from: Cambria Environmental Technology, Inc. and Toxicchem Management Systems, Inc.

FIGURE 2
EXTENDED SITE MAP
SHELL-BRANDED SERVICE STATION
4212 First Street
Pleasanton, California

PROJECT NO. SJ42-26F-1.2006	DRAWN BY BH 10/23/06
FILE NO. SJ42-26F-1.2006	PREPARED BY
REVISION NO. 2	REVIEWED BY

Delta

Environmental
Consultants, Inc.

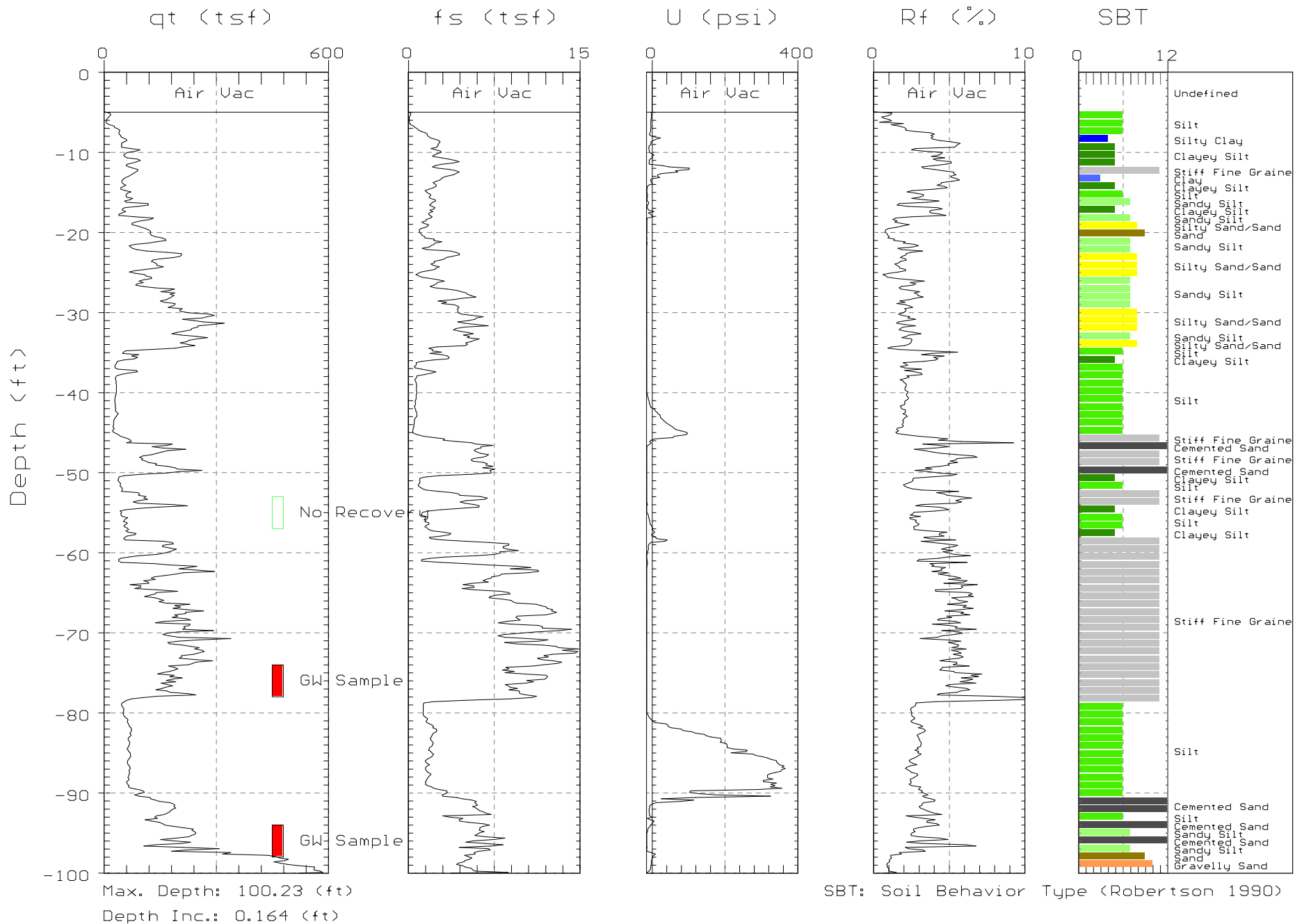




DELTA ENV.

Site: 4212 FIRST ST.
Location: CPT-2

Engineer: L.DOOLEY
Date: 09/29/06 10:34



LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-60.01

BORING NO. S-A

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB DATE 9/27/85

SURFACE ELEV. 375'±

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION
				0		ML CL	ASPHALT and SAND - Fill
				5	①	CL	GRAVELLY SILT - Fill; black (5Y, 2.5/2); 20% fine to coarse sand; 10% fine gravel; damp; no product odor.
	4.4	88		10			CLAY; light olive brown (2.5Y, 5/6); silty; 10% fine to medium sand; stiff; damp; no product odor.
				15	②		@7': no sand; hard; no product odor.
	1.5	21		20	③		@10': 20% fine gravel; no product odor.
				25			@14': 15-20% fine to medium sand; trace fine gravel; stiff; moist; no product odor.
	5	61		30			@18½': brownish yellow (10YR, 6/8); silty; hard; moist; no product odor.
				35			BOTTOM OF BORING AT 20 FEET.
				40			

REMARKS Drilled by 5-inch continuous flight auger; samples collected with 2-inch California modified split-spoon sampler; borehole backfilled with soil cuttings to ½ foot; concrete to surface.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-60.01

BORING NO. S-B

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton PAGE 1 OF 1

BY MGB DATE 9/27/85

SURFACE ELEV. 373'±

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				0		SW	CONCRETE.
		Push		5	①		SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; loose; damp; strong gasoline odor.
		2		10	②		@7': strong gasoline odor.
		64		15	③	GC	CLAYEY GRAVEL; olive gray (5Y, 5/2); to olive (5Y, 4/3); fine to coarse grained; 30% fines; 15% fine to coarse sand; very dense; damp; moderate gasoline odor.
	3.6	39		20	④	CL	CLAY; light olive brown (2.5Y, 5/6) to dark grayish brown (2.5Y, 4/2); 15% fine sand; trace coarse sand; very stiff; damp; no gasoline odor.
		41		25	⑤		@19': olive gray (5Y, 4/2) to olive (5Y, 5/6); 20% fine to medium sand; no coarse sand; no gasoline odor.
	2.3		▽	30	⑥		@24': olive (5Y, 4/4); 25% fine to coarse sand; very plastic; soft; faint gasoline odor.
	0.4	50 for 6"		35			BOTTOM OF BORING AT 24½ FEET.
				40			

REMARKS Drilled by 8-inch continuous flight, hollow stem auger;
samples collected with 2-inch California modified split-spoon sampler;
borehole backfilled with soil cuttings to ½ foot; concrete to surface.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-60.01

BORING NO. S-C

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB DATE 9/27/85

SURFACE ELEV. 373'±

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				0		SW	CONCRETE.
		Push		5	①		SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; damp; strong gasoline odor.
		2		10	②		@7': loose; strong gasoline odor.
	4.3	30		15	③	CL	CLAY; olive (5Y, 5/6, 5/3); 20% fine to coarse sand; silty; hard; damp; no gasoline odor.
		50 for 6"		20	④	GC	CLAYEY GRAVEL; olive (5Y, 5/6, 5/4); fine grained; 35% fine to coarse sand; 15% fines; very dense; damp; no gasoline odor.
	0.4	19		25	⑤	CL	CLAY; yellowish brown (10YR, 5/6, 5/8); 35% fine to coarse sand; silty; soft; moist; no gasoline odor.
		72		30	⑥	SW ML SC	SAND: olive (5Y, 4/3); fine to coarse grained; 10% fines; medium dense; moist; no gasoline odor.
		48		35	⑦		SANDY SILT; light olive brown (2.5Y, 5/6) 40% fine sand; very stiff; moist; no gasoline odor.
				40			CLAYEY SAND; olive brown (2.5Y, 4/4); fine to coarse grained; 40% clay; dense, moist; faint gasoline odor.
							BOTTOM OF BORING AT 28 FEET

REMARKS Drilled by 8-inch continuous flight, hollow-stem auger;
samples collected with 2-inch California modified split-spoon sampler;
borehole backfilled with concrete from 28 to 15 feet, soil cuttings to
½ foot; concrete to surface.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-60.01

BORING NO. S-D

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB DATE 9/27/85

SURFACE ELEV. 374'±

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION
				0		SW	CONCRETE.
		Push		5	①		SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; 15% fine gravel; trace fines; loose; damp; strong gasoline odor.
				10	②		@7': strong gasoline odor.
4.25		37		15	③	CL	CLAY; olive yellow (5Y, 6/8) to olive (5Y, 4/3); 20% fine to coarse sand; silty; hard; damp; faint gasoline odor.
5		44		20	④		@14': olive (5Y, 4/3); 35% fine to coarse sand; 10% fine gravel; faint gasoline odor.
2.2		22		25	⑤		@19': olive (5Y, 4/3); to gray (5Y, 5/1); 20% fine to medium sand; slightly silty; very stiff; damp; faint gasoline odor.
1.25		31		30	⑥	ML	SANDY SILT; olive (5Y, 4/4); 40% fine sand; slightly clayey; stiff; damp; faint gasoline odor.
				35			BOTTOM OF BORING AT 22½ FEET.
				40			

REMARKS Drilled by 8-inch continuous flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler; borehole backfilled with concrete from 22½ to 11½ feet, soil cuttings to ½ foot ; concrete to surface.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-60.01

BORING NO. S-1

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB DATE 9/27/85

SURFACE ELEV. 373'±

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				0		SW SC	ASPHALT and GRAVEL - Fill SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; 10% fine gravel; trace fines; damp; moderate gasoline odor.
				5			CLAYEY SAND; very dark gray (5Y, 3/1); fine to coarse grained; damp; moderate gasoline odor.
	4.25	34		15	①	CL	@12½': 10% fine gravel. CLAY; light olive brown (2.5Y, 5/6); 5% fine to coarse sand; silty; hard; damp; faint gasoline odor.
	3.6	28		20	②		@19': 20% fine to coarse sand; silty; very stiff; faint gasoline odor.
				25	③	GC	CLAYEY GRAVEL; olive (5Y, 5/4); fine grained; 35% fine to coarse sand; clayey; very dense; damp; no gasoline odor.
				30	④		@29': no gasoline odor.
				30½			BOTTOM OF BORING AT 30½ FEET.
				35			
				40			

REMARKS Drilled by 8-inch continuous flight, hollow-stem auger;
samples collected with 2-inch California modified split-spoon sampler;
borehole converted to 3-inch monitoring well as detailed on Plate F.

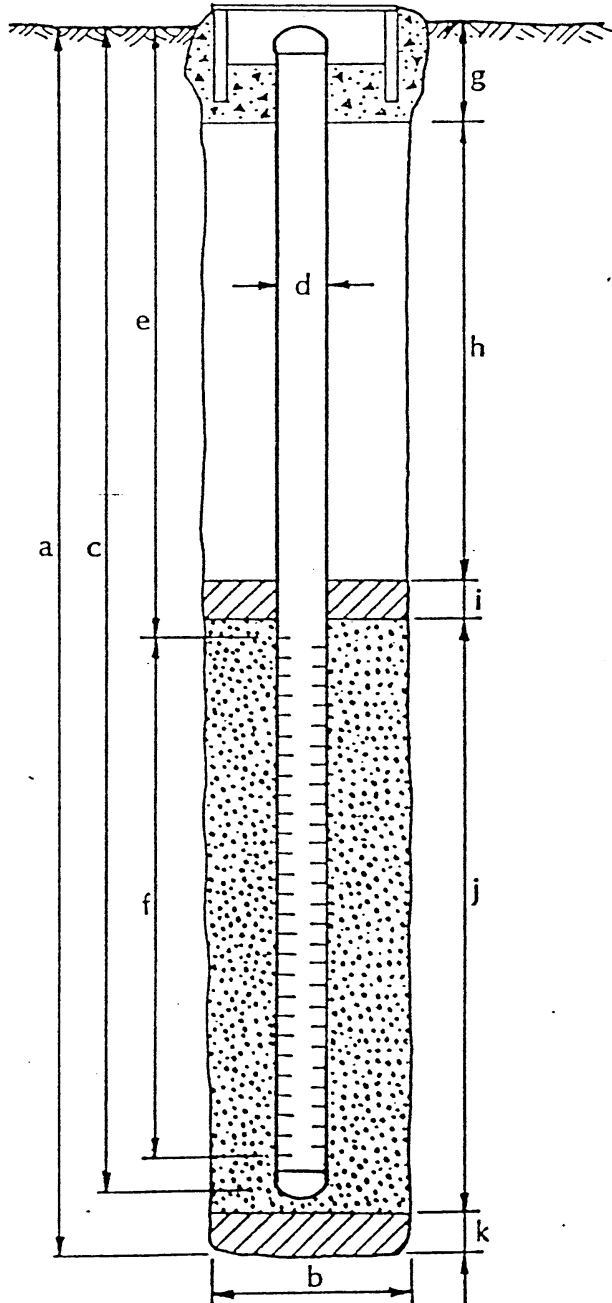


WELL DETAILS



PROJECT NUMBER 738-60.01 BORING / WELL NO. S-1
 PROJECT NAME Gettler-Ryan, Shell TOP OF CASING ELEV. _____
 COUNTY Alameda GROUND SURFACE ELEV. 373'±
 WELL PERMIT NO. _____ DATUM MSL

G-5 vault box (Std.)



EXPLORATORY BORING

- a. Total depth 30½ ft.
- b. Diameter 8 in.
- Drilling method Hollow-Stem Auger

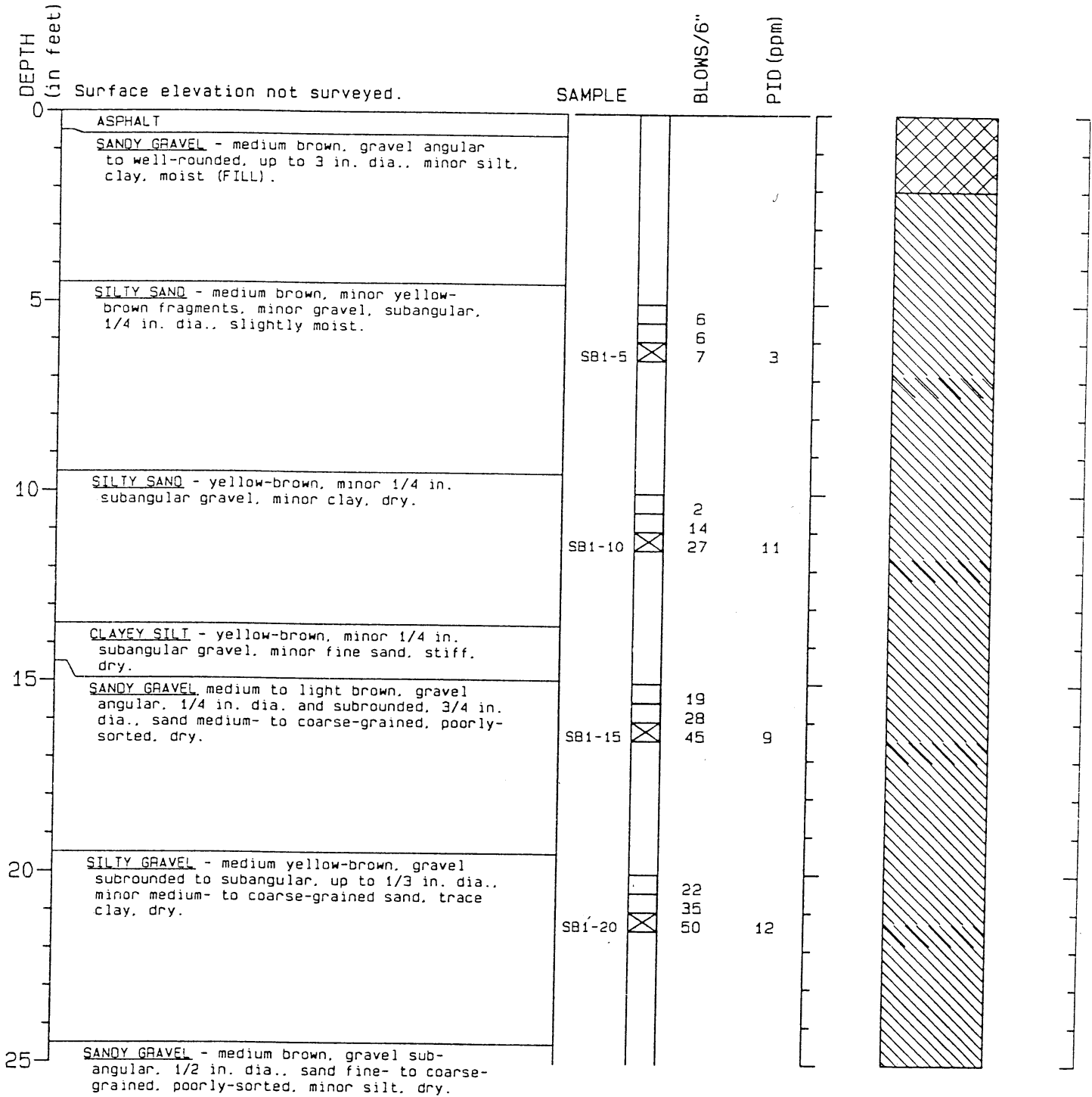
WELL CONSTRUCTION

- c. Casing length 28½ ft.
Material Schedule 40 PVC
- d. Diameter 3 in.
- e. Depth to top perforations 14 ft.
- f. Perforated length 14½ ft.
Perforated interval from 14 to 28½ ft.
Perforation type Machined Slot
Perforation size 0.020 inch
- g. Surface seal 1 ft.
Seal material Concrete
- h. Backfill 10 ft.
Backfill material Concrete
- i. Seal 1 ft.
Seal material Bentonite
- j. Gravel pack (12'-28½') 16½ ft.
Pack material Coarse Aquarium Sand
- k. Bottom seal - ft.
Seal material -

NOTE: Caved to 28½ feet.

Boring Log SB-1

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-6006

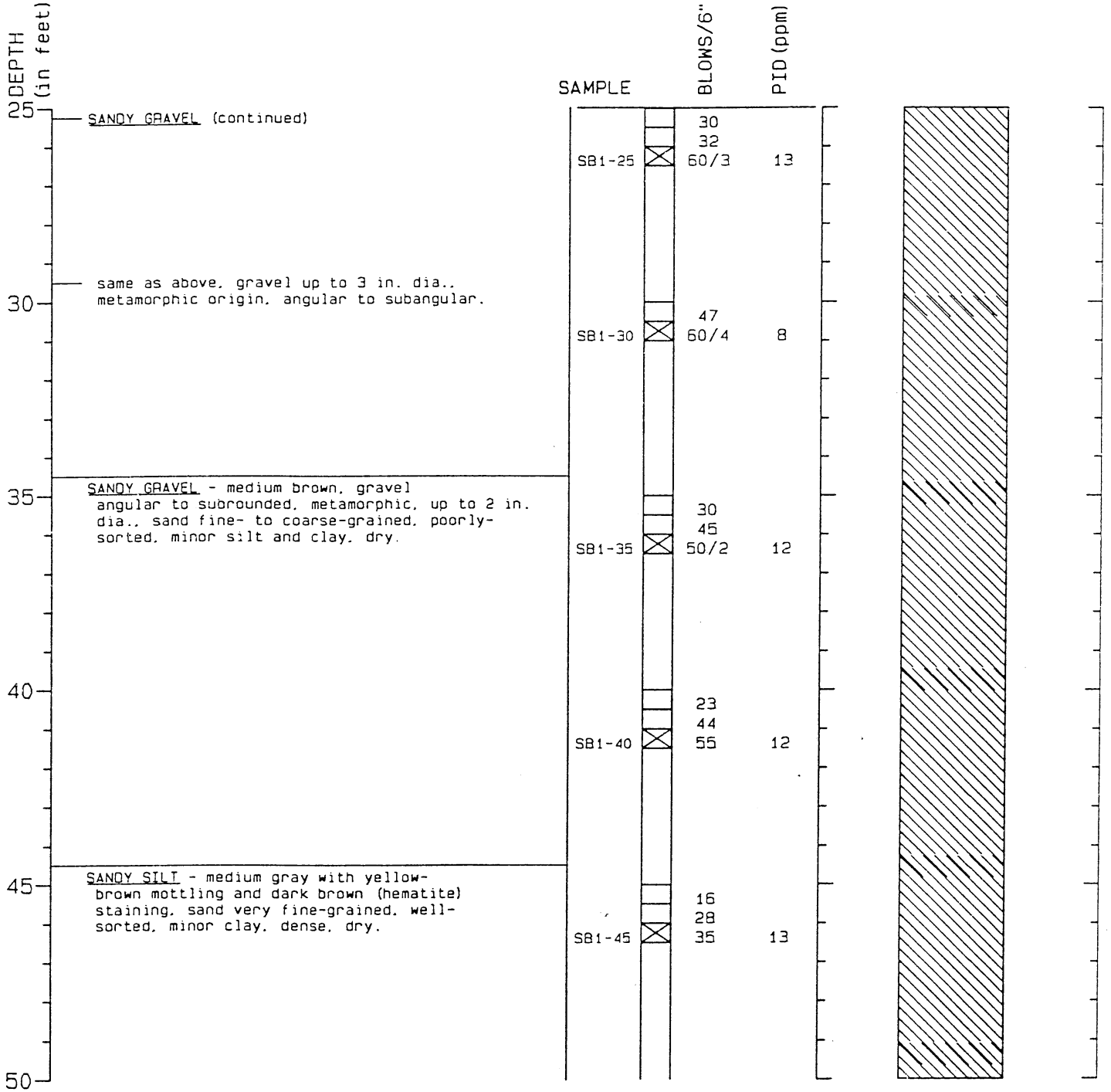
4/90

Figure A-2

Page 1 of 3

Boring Log SB-1

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-6006

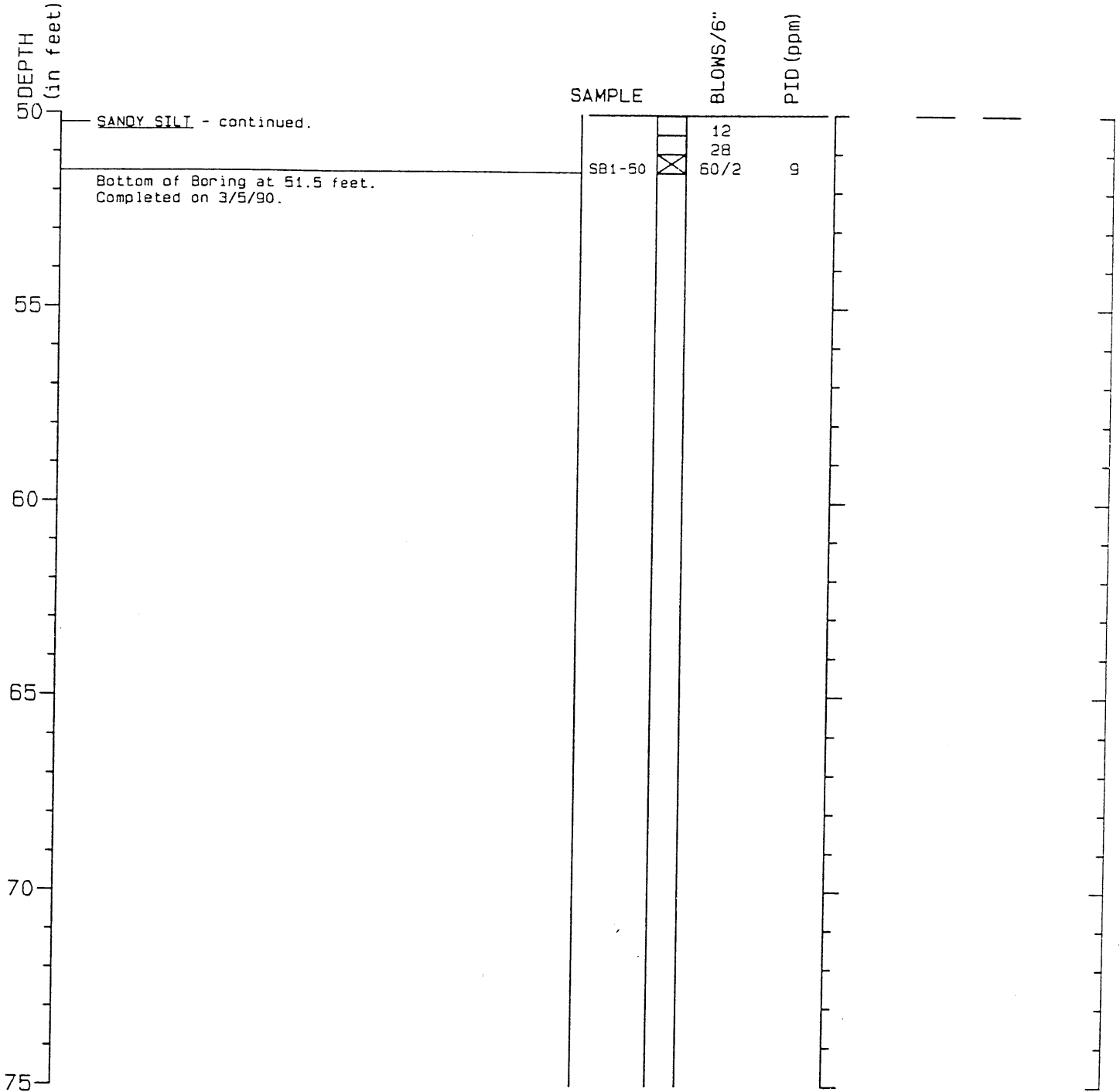
4/90

Figure A-2

Page 2 of 3

Boring Log SB-1

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-6006

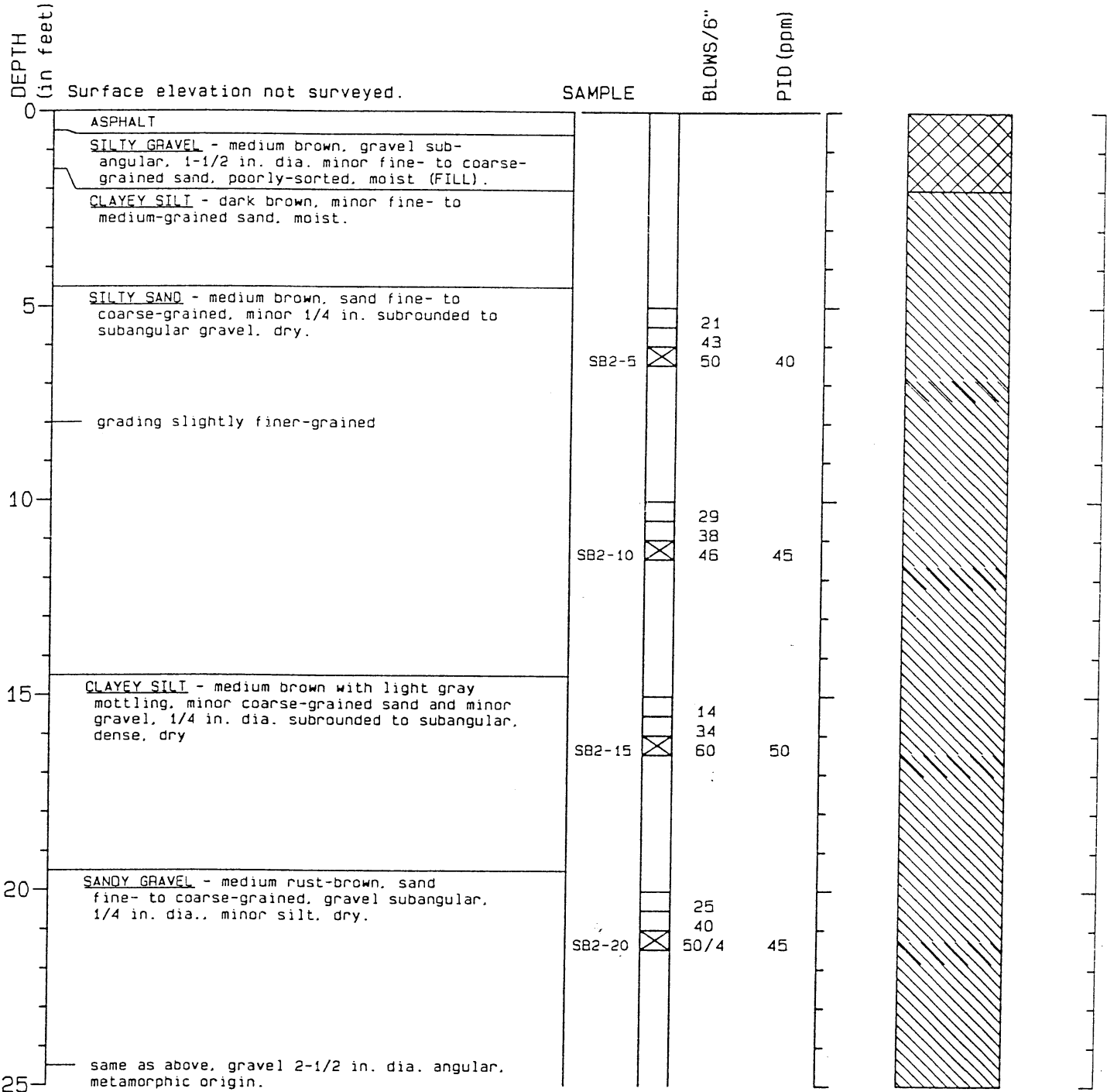
4/90

Figure A-2

Page 3 of 3

Boring Log SB-2

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-6006

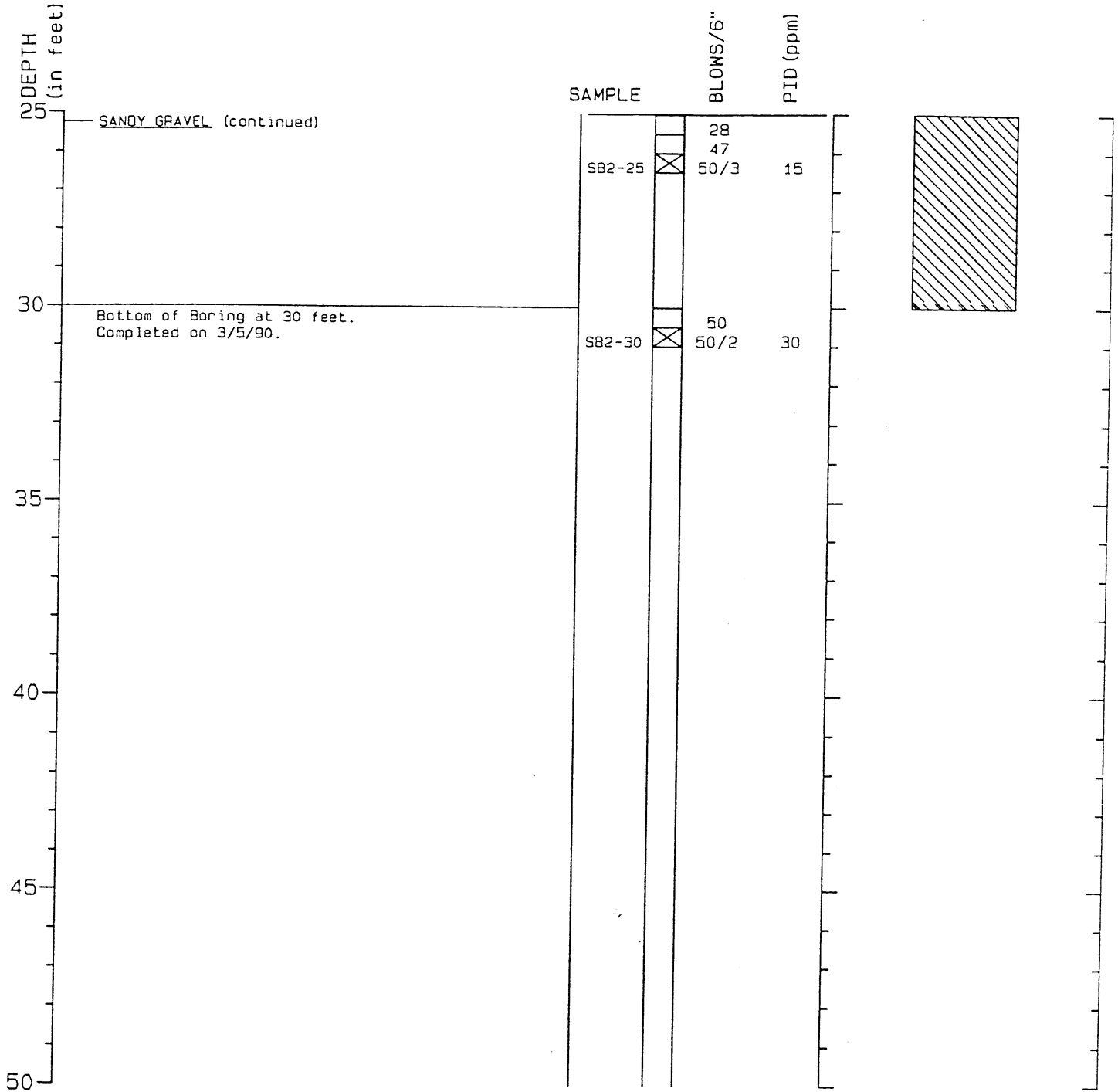
3/90

Figure A-3

Page 1 of 2

Boring Log SB-2

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-6006

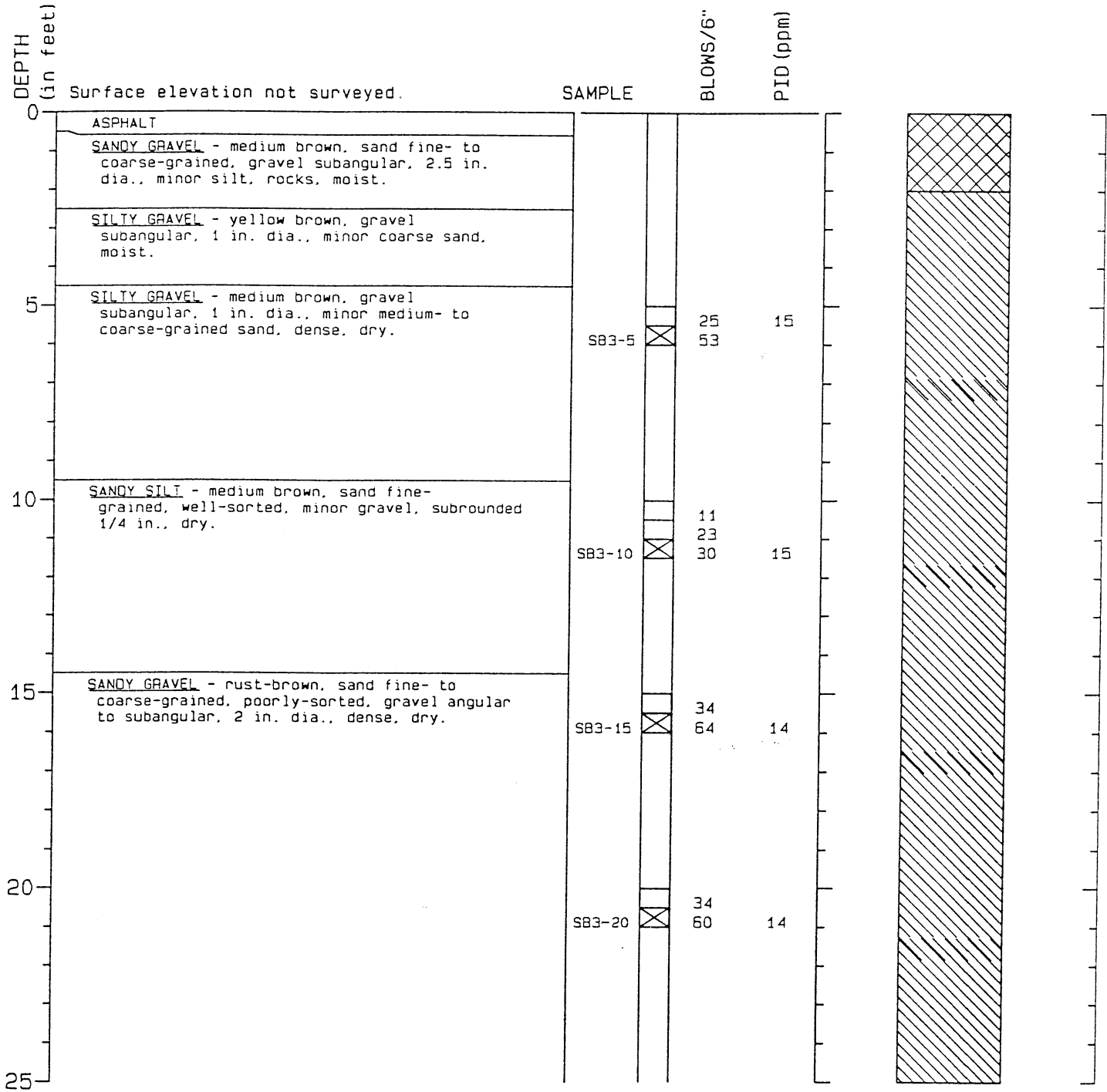
3/90

Figure A-3

Page 2 of 2

Boring Log SB-3

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-5006

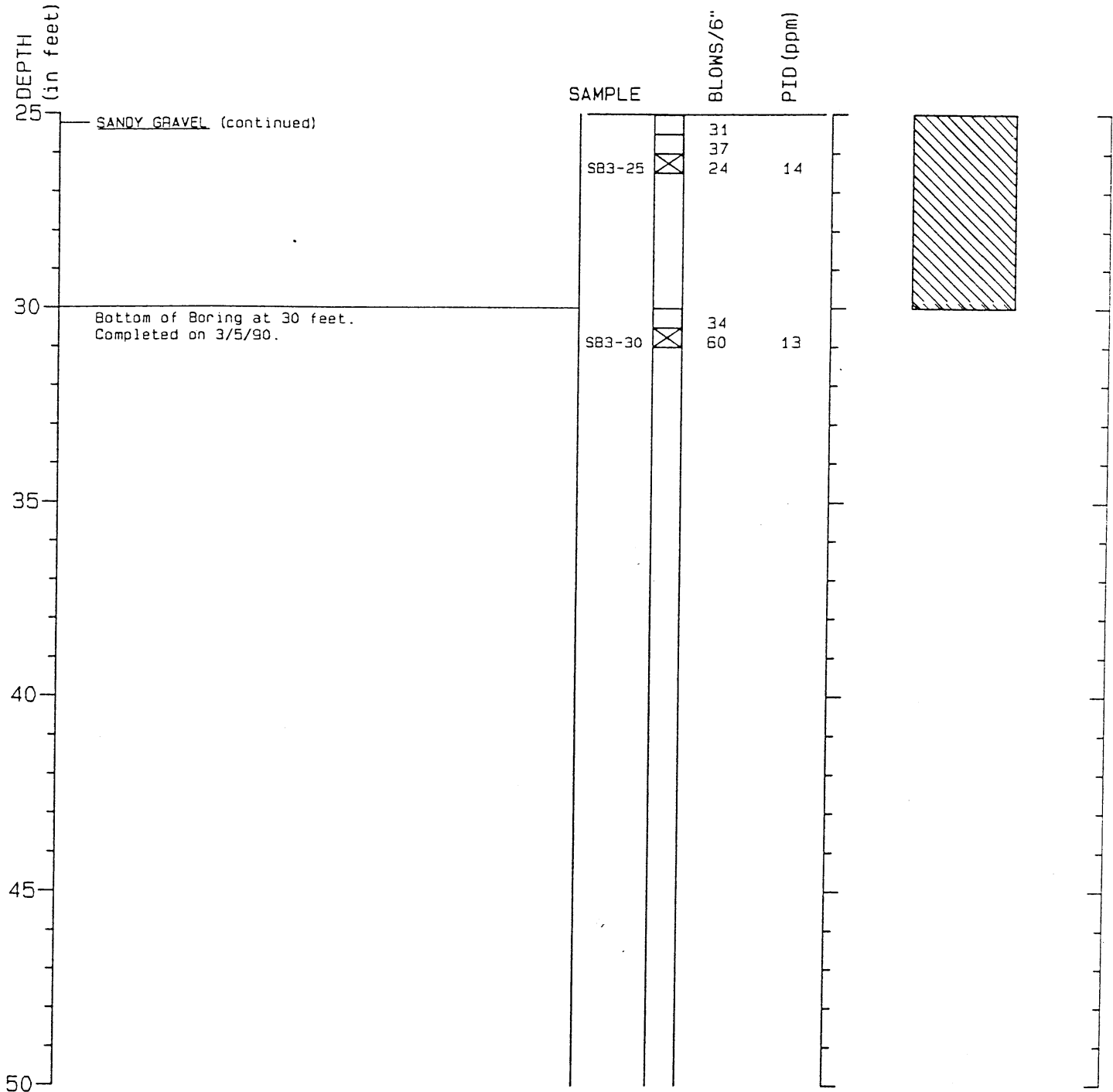
3/90

Figure A-4

Page 1 of 2

Boring Log SB-3

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-6006

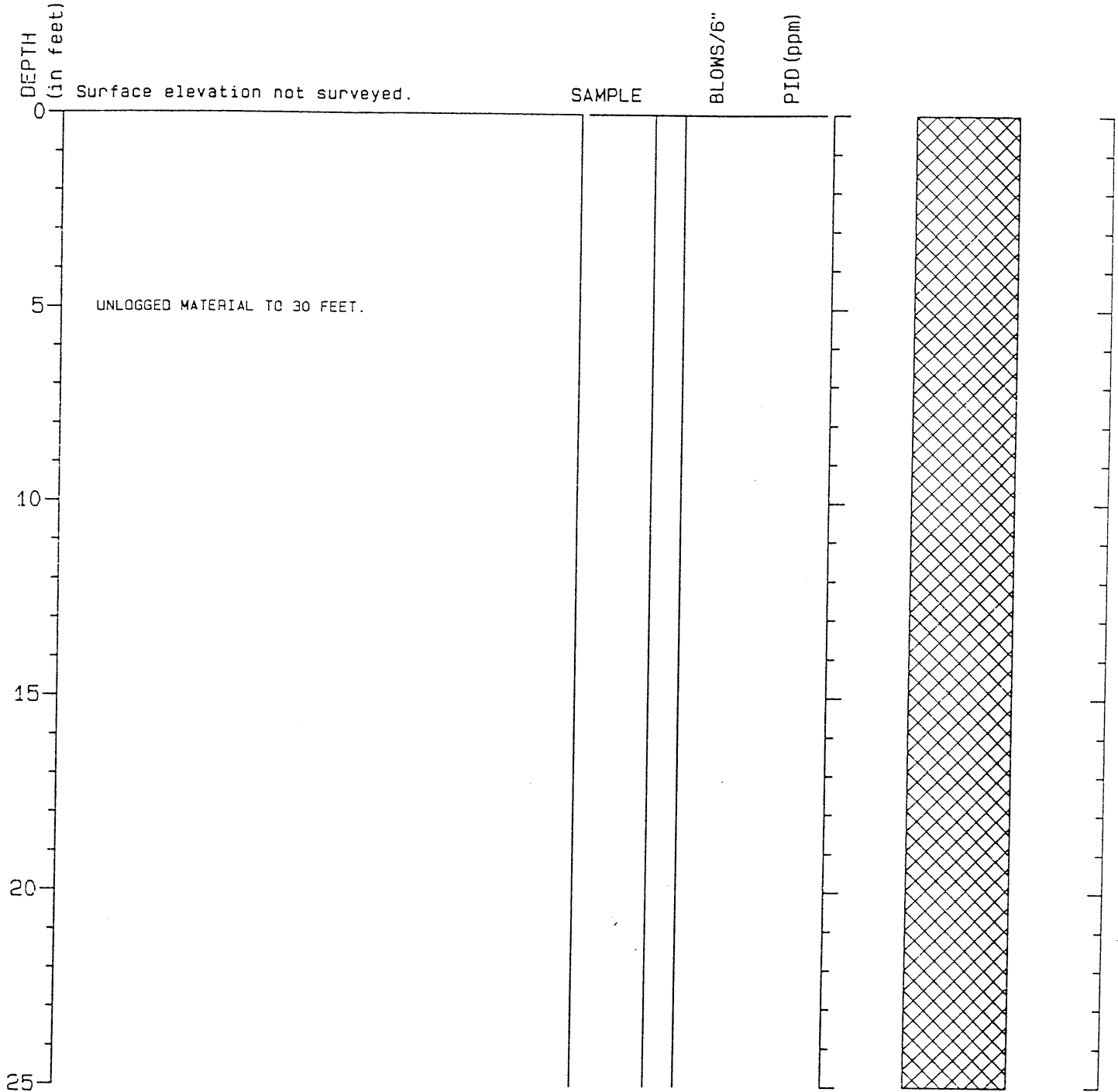
3/90

Figure A-4

Page 2 of 2

Boring Log WA-1

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-6006

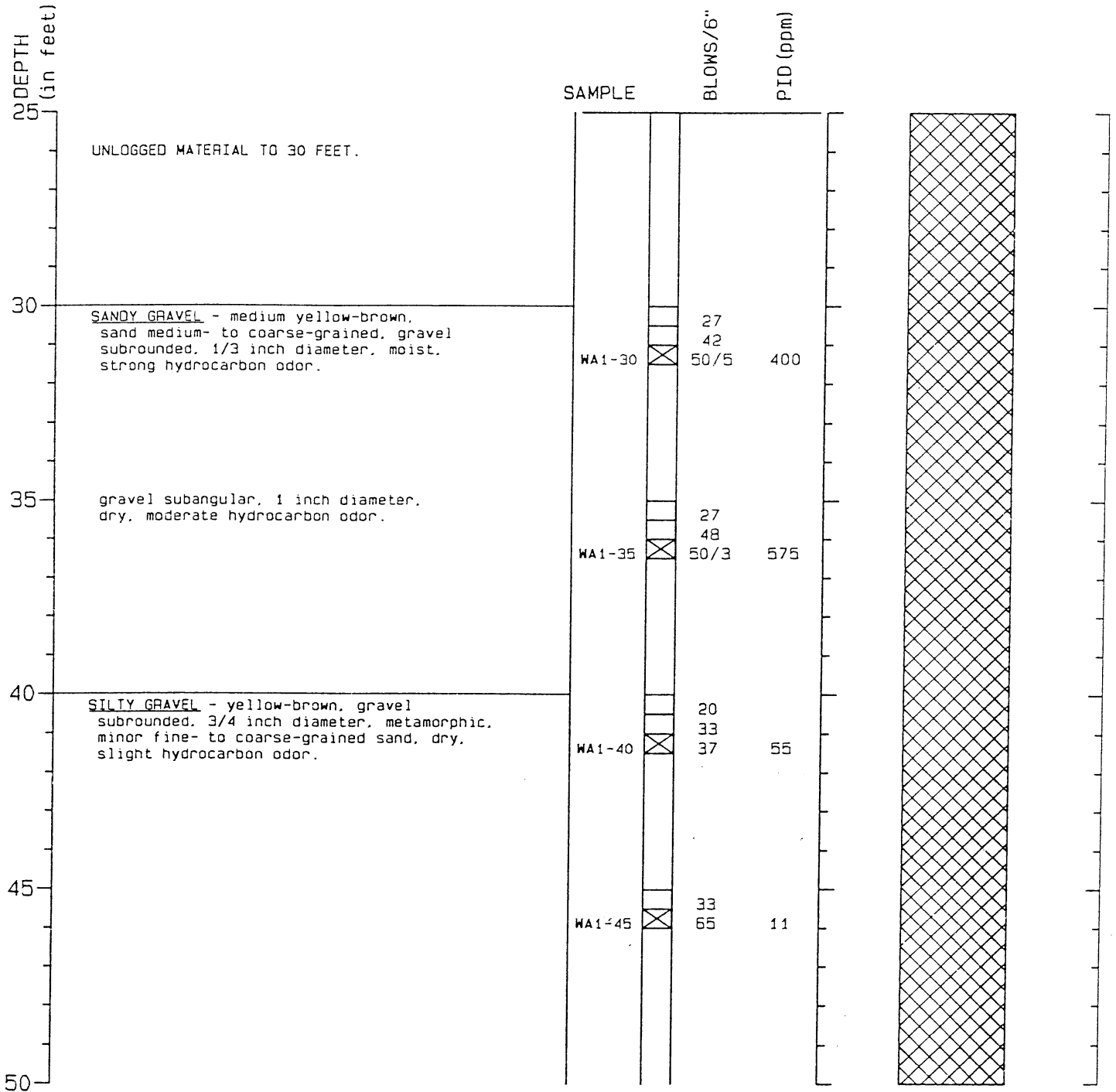
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Figure A-5

Page 1 of 3

Boring Log WA-1

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-6006

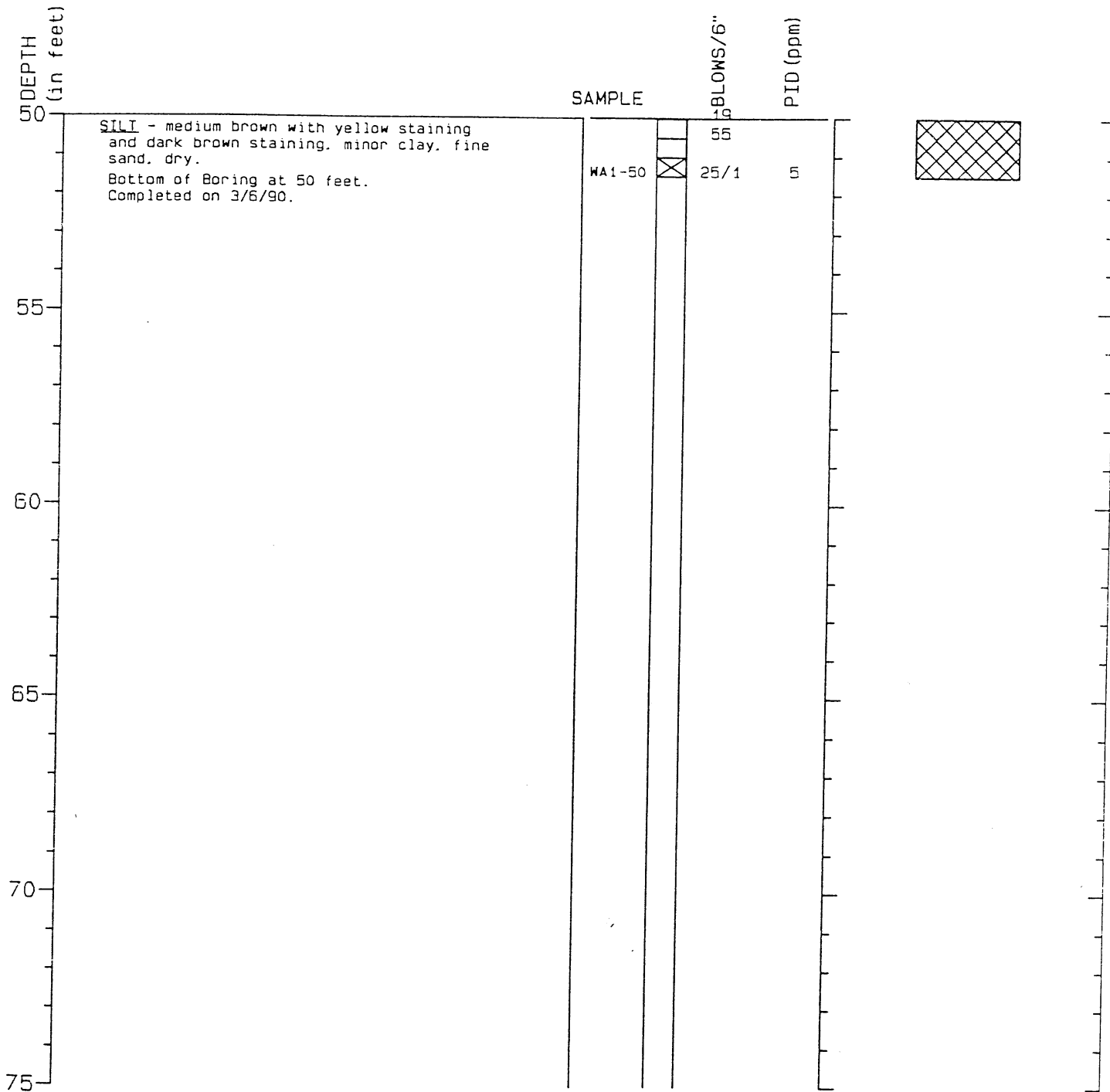
4/90

Figure A-5

Page 2 of 3

Boring Log WA-1

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-6006

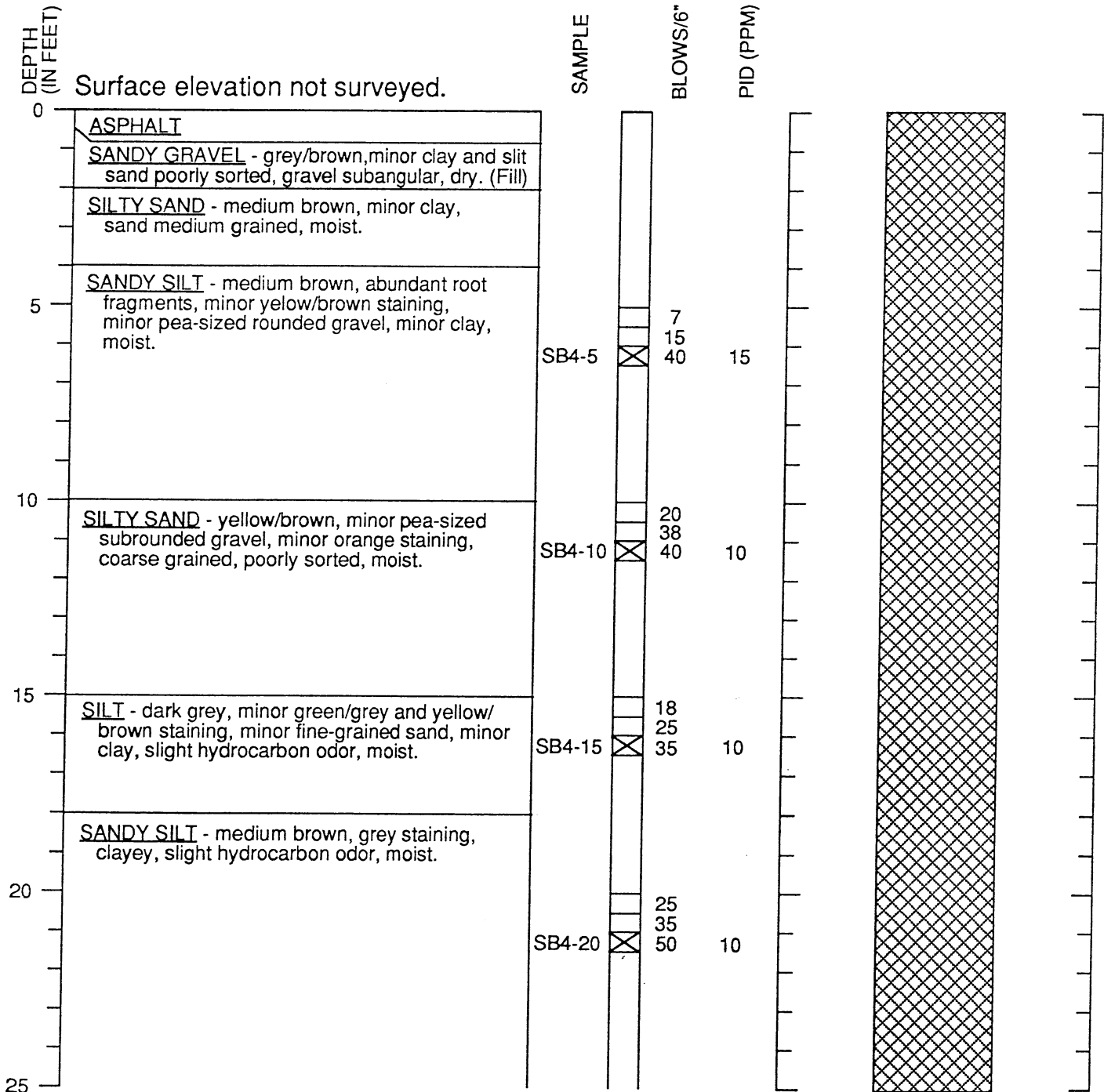
4/90

Figure A-5

Page 3 of 3

Boring Log SB-4

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-6006

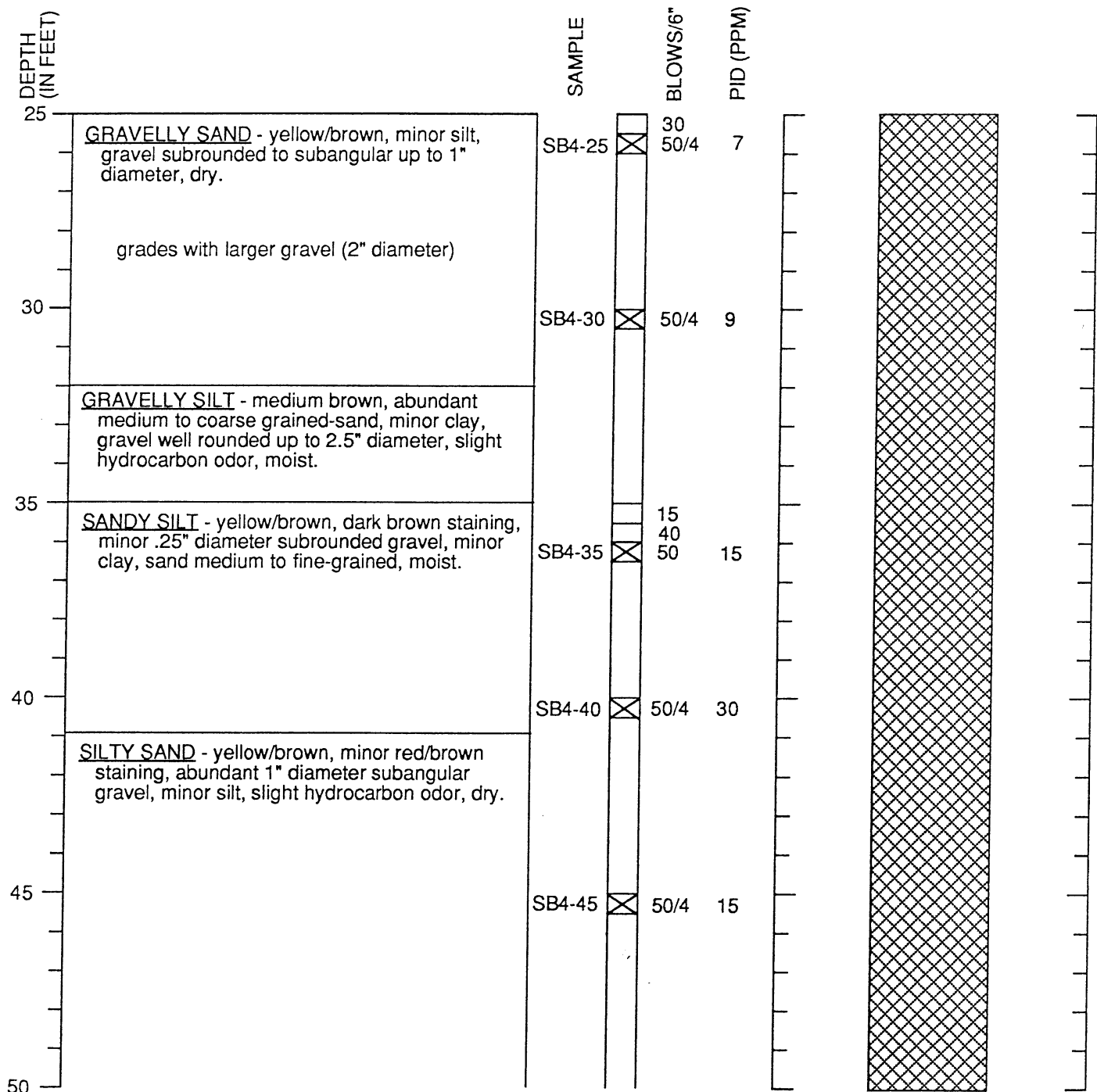
12/90

Figure A-2

Page 1 of 3

Boring Log SB-4

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-6006

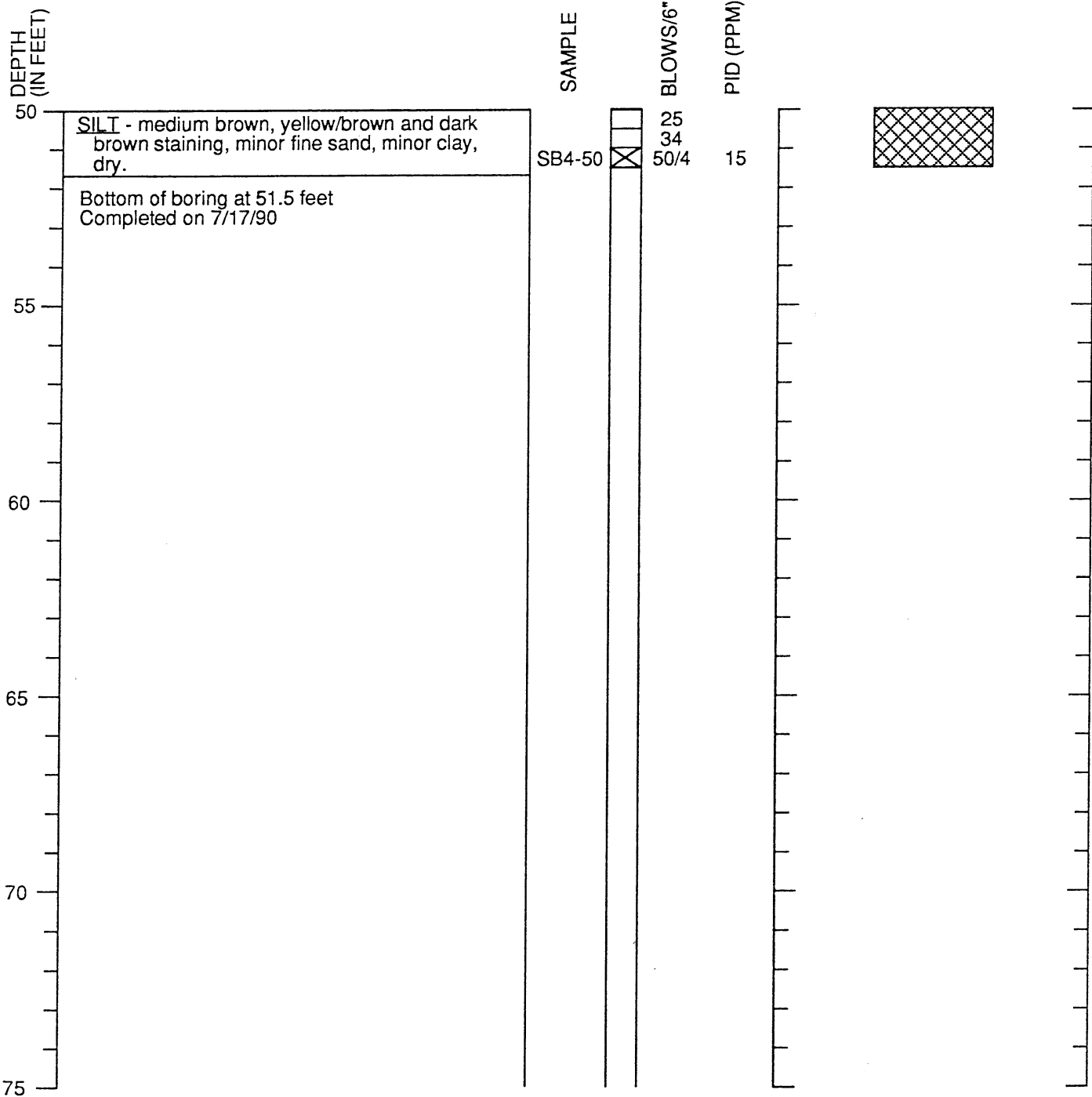
12/90

Figure A-2

Page 2 of 3

Boring Log SB-4

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.



HARTCROWSER

J-6006

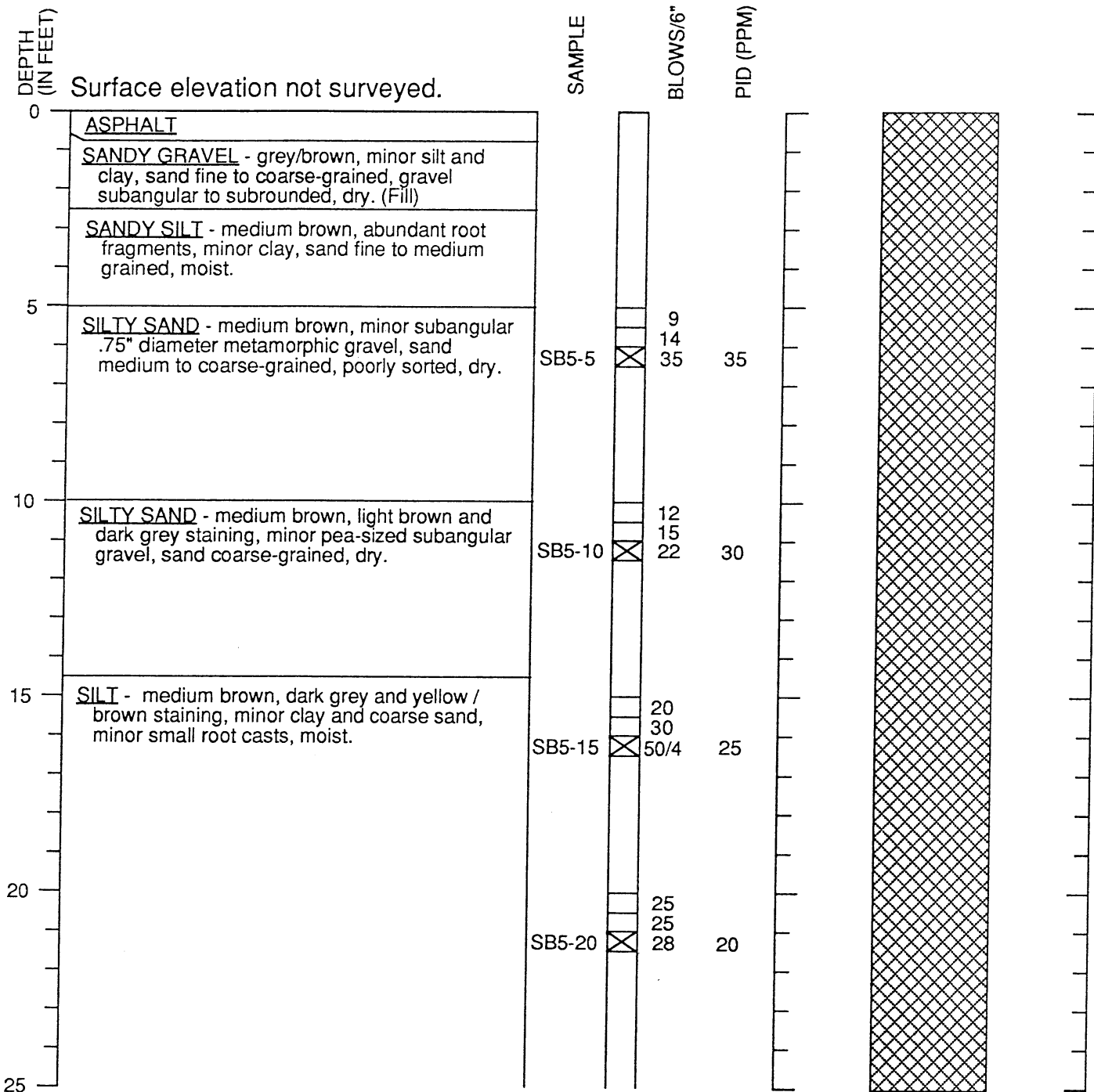
12/90

Figure A-2

Page 3 of 3

Boring Log SB-5

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Perched water encountered at 49.5 feet BGS.



HARTCROWSER

J-6006

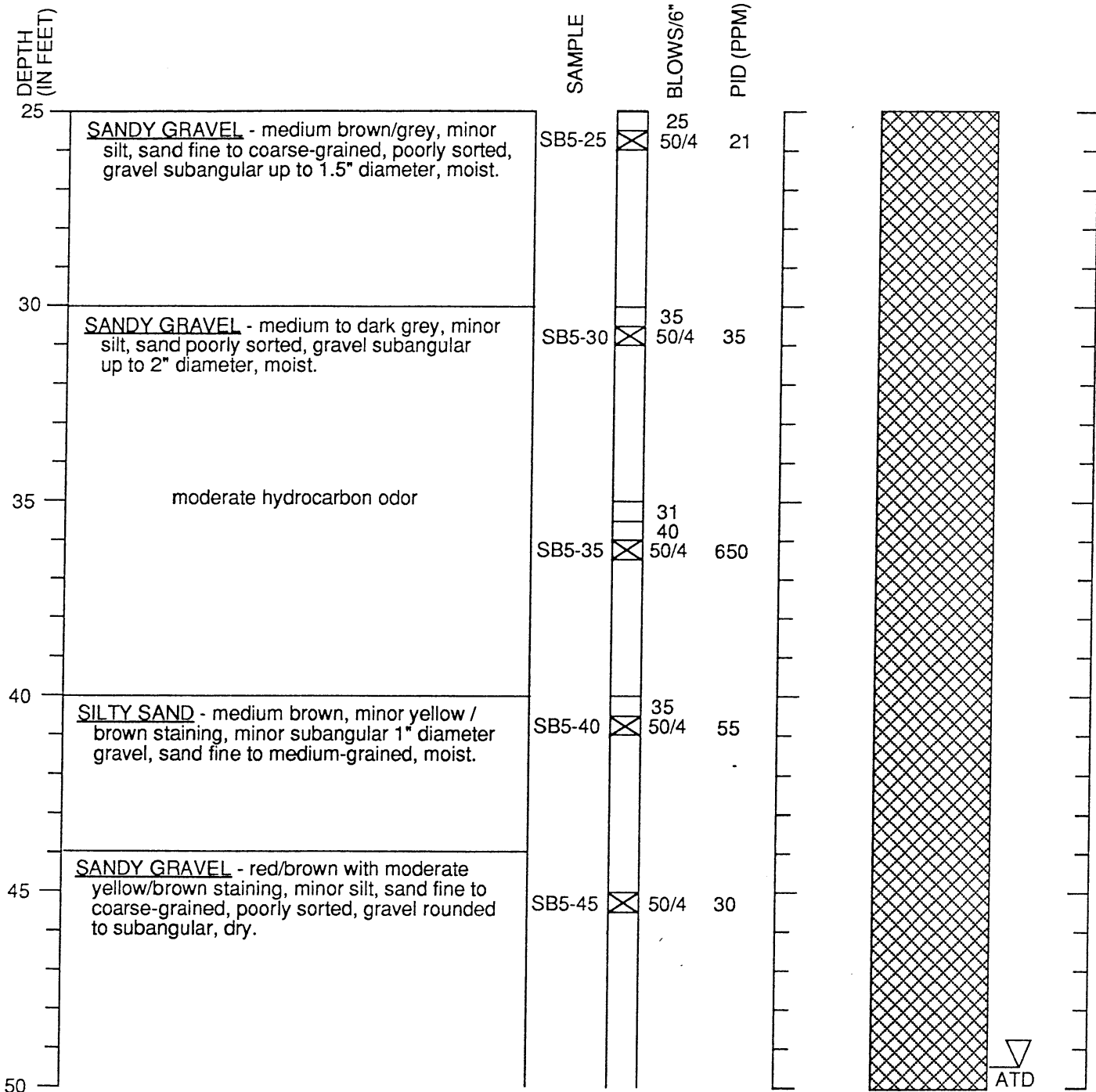
12/90

Figure A-3

Page 1 of 3

Boring Log SB- 5

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Perched water encountered at 49.5 feet BGS



HARTCROWSER

J-6006

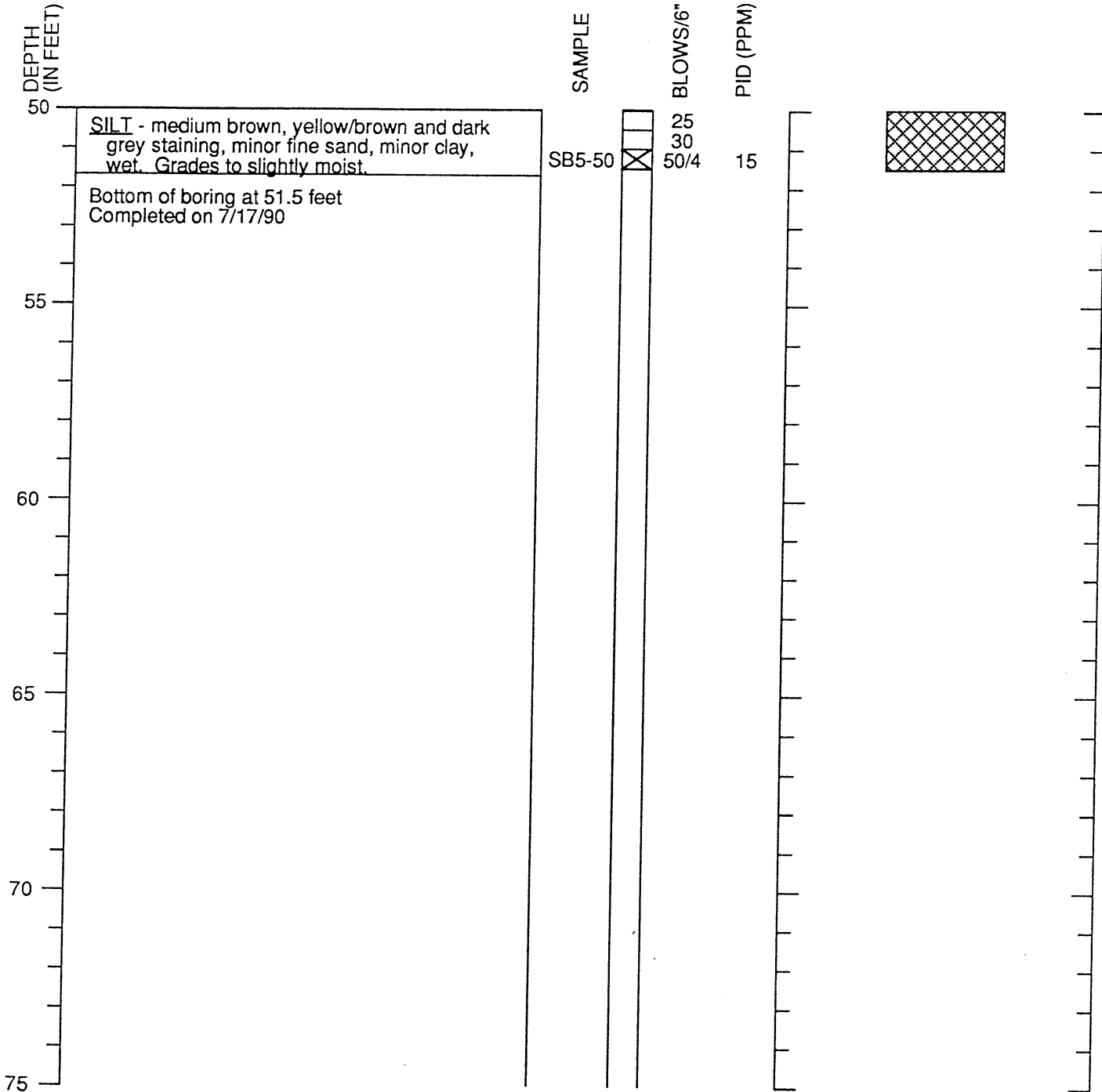
12/90

Figure A-3

Page 2 of 3

Boring Log SB-5

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Perched water encountered at 49.5 feet.



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J-6006

12/90

Figure A-3

Page 3 of 3

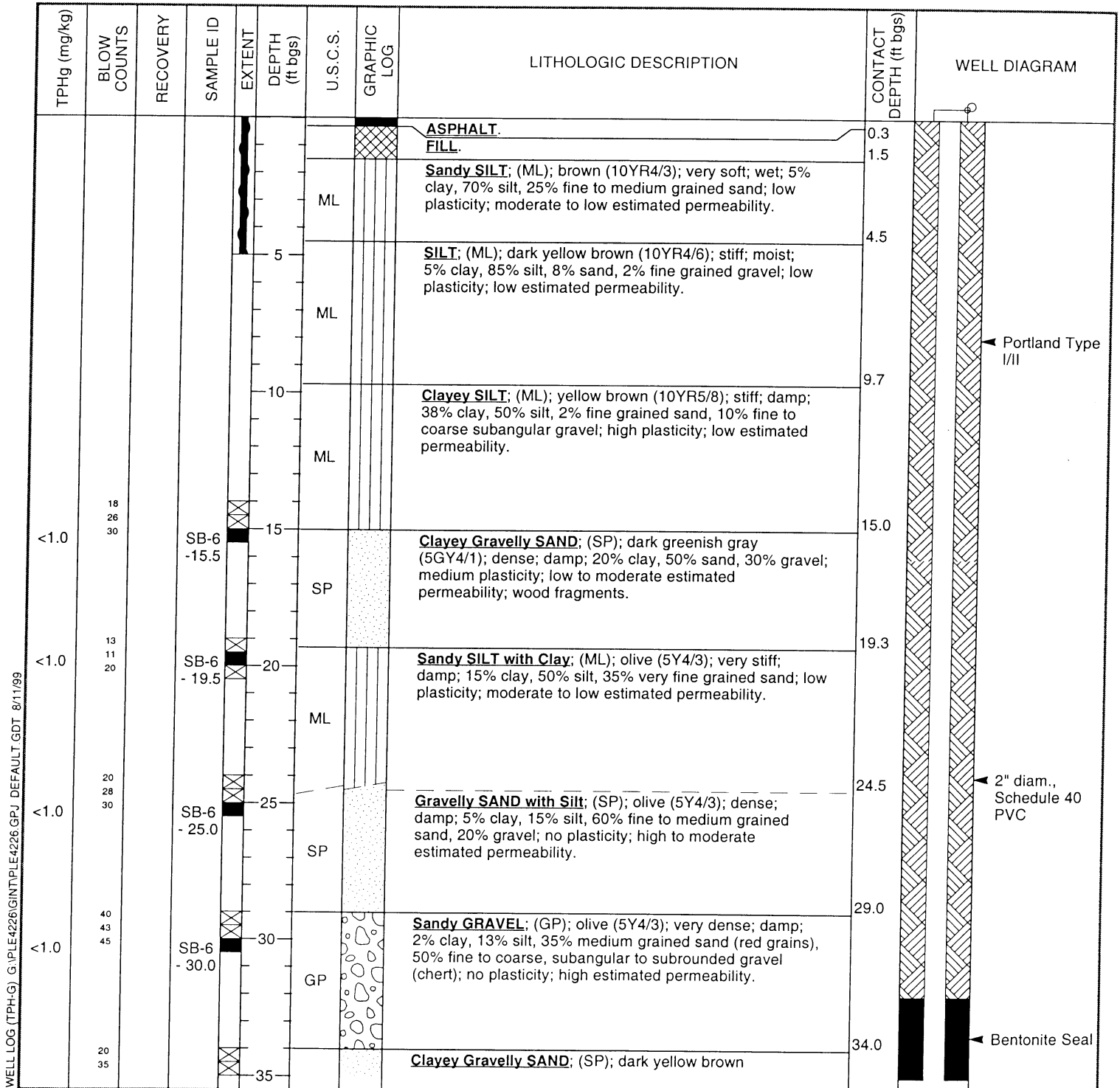


Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

(SB-6)

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-1
JOB/SITE NAME	ple-4226	DRILLING STARTED	08-Apr-99
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	09-Apr-99
PROJECT NUMBER	241-0395	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	371.83 ft
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	371.20 ft
BORING DIAMETER	8"	SCREENED INTERVAL	37.5 to 57.5 ft bgs
LOGGED BY	B. Jakub	DEPTH TO WATER (First Encountered)	42.5 ft (08-Apr-99) ▽
REVIEWED BY	B. Jakub	DEPTH TO WATER (Static)	NA ▼
REMARKS	Hand augered to 5' bgs; located near NW planter/entrance to Shell station on Vineyard and W of SB-7.		



WELL LOG (TPH-G) G:\PLE4226\GINT\PLE4226.GPJ DEFAULT.GDT 8/11/99



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 1144 - 65th St.
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 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-1
JOB/SITE NAME	ple-4226	DRILLING STARTED	08-Apr-99
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	09-Apr-99

Continued from Previous Page

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
<1.0	56		SB-6		35.0			(10YR4/6); very dense; damp; 20% clay, 10% silt, 40% medium grained sand, 30% fine to coarse grained gravel (sandstone/claystone, serpentinite, some MnO ₂ /Fe staining); low plasticity; moderate to low estimated permeability.		Monterey Sand #3
<1.0	20 45 50/4		SB-6		40	SP		@ 44' - moist to wet.		
	25 45 45				45					
	32 60/6				50	GC		Clayey GRAVEL with Silt ; (GC); dark yellow brown (10YR4/6); very dense; moist to wet; 25% clay, 15% silt, 20% fine to coarse grained sand, 40% fine to coarse grained gravel.	50.0	2"-diam., 0.020" Slotted Schedule 40 PVC
	15 40 50				55	MH		Clayey SILT ; (MH); light olive brown (2.5Y5/4); hard; damp; 25% clay, 75% silt; medium to high plasticity; very low estimated permeability; black MnO ₂ blebs throughout.	55.2	
					58.0				58.0	Bottom of Boring @ 58 ft

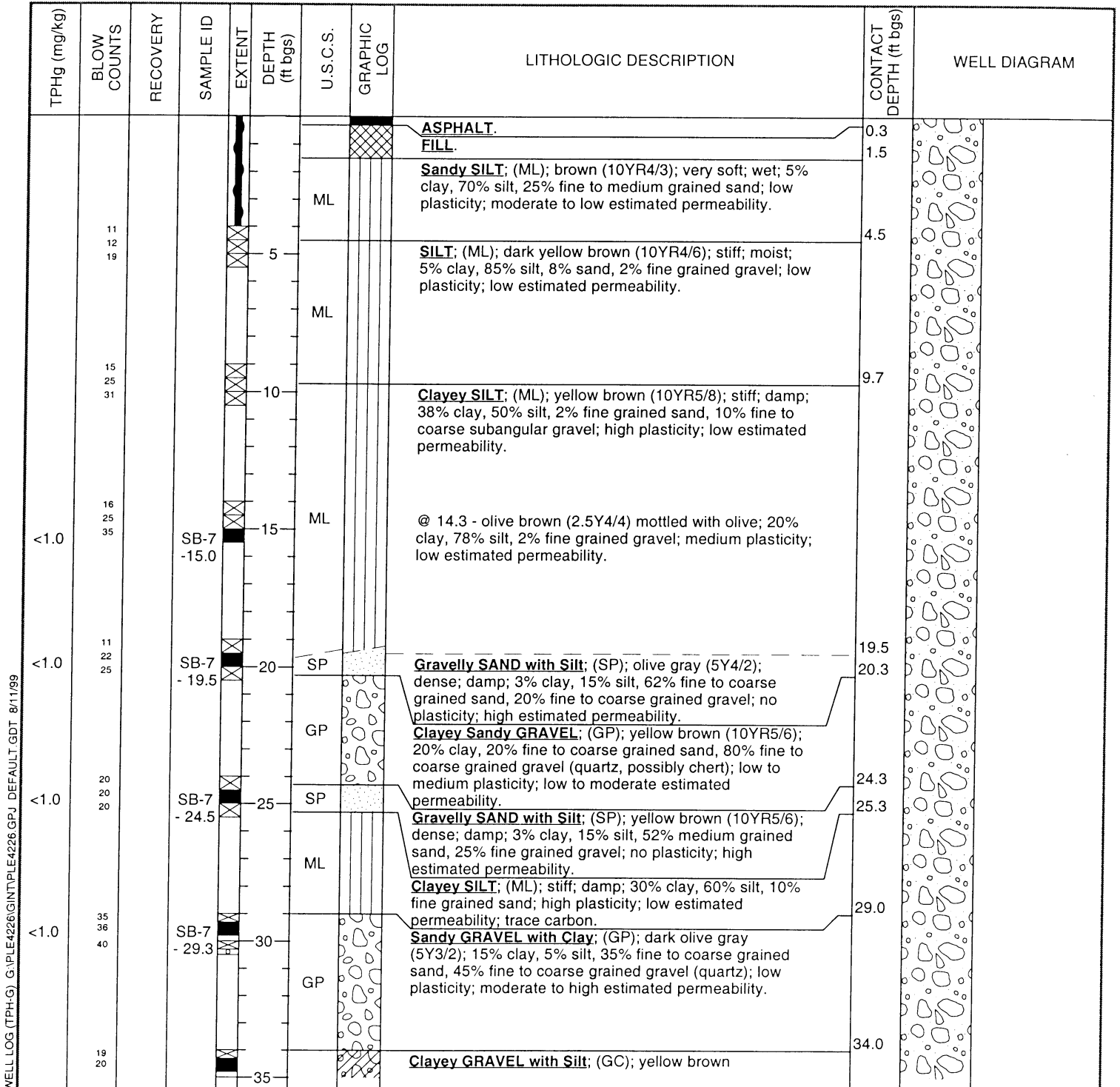
WELL LOG (TPH-G) G:\PLE4226\GINT\PLE4226.GPJ DEFAULT.GDT 8/11/99



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 Telephone: (510) 420-0700
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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-7
JOB/SITE NAME	ple-4226	DRILLING STARTED	07-Apr-99
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	07-Apr-99
PROJECT NUMBER	241-0395	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	8"	SCREENED INTERVAL	NA
LOGGED BY	B. Jakub	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Jakub	DEPTH TO WATER (Static)	42.50ft (08-Apr-99)
REMARKS	Hand augered to 4' bgs; located E side of Vineyard exit near planter.		



Continued Next Page



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 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>SB-7</u>
JOB/SITE NAME	<u>ple-4226</u>	DRILLING STARTED	<u>07-Apr-99</u>
LOCATION	<u>4226 First Street, Pleasanton, California</u>	DRILLING COMPLETED	<u>07-Apr-99</u>

Continued from Previous Page

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
<1.0	58 25 45 53		SB-7 - 34.3					(10YR5/8); very dense; damp; 35% clay, 15% silt, 10% sand, 40% fine to coarse grained gravel (quartz); medium plasticity; moderate to low estimated permeability.		
			SB-7 - 40.0		40	GC		@ 39' - quartz, siltstone, chert gravels.		
83	25 40 50/3		SB-7 - 44.5		45			@ 44' - moist to wet.		
<1.0	20 30 50		SB-7 - 49.5		50	GC		Clayey GRAVEL; (GC); yellow brown (10YR5/4); very dense; moist to wet; 20% clay, 10% silt, 10% medium to coarse grained sand, 60% fine grained gravel; medium plasticity; low to moderate estimated permeability.	49.0	← Portland Type I/II
<1.0	30 50/3		SB-7 - 54.3		55	GC				
<1.0	20 30 50/3		SB-7 - 59.5		60	MH		Clayey SILT; (MH); mottled yellow brown (10YR4/6) and light brownish gray (2.5Y6/2); hard; dry; 20% clay, 70% silt, 10% very fine to fine grained sand; medium plasticity; low estimated permeability.	59.0	
<1.0	25 35 50/3		SB-7 - 64.5		65			@ 64' - dark brown MnO ₂ or organic blebs throughout.		
	17 32 50/4		SB-7 - 69.5		70			Clayey SILT; (MH); light olive brown (2.5Y5/4); hard; dry; 25% clay, 75% silt; medium plasticity; very low estimated permeability.	69.0	
	20 40				75			@ 74' - increasing mottled with yellow brown (10YR5/8).	74.5	

WELL LOG (TPH-G) G:\PLE4226\GINT\PLE4226.GPJ_DEFAULT.GDT 8/11/99

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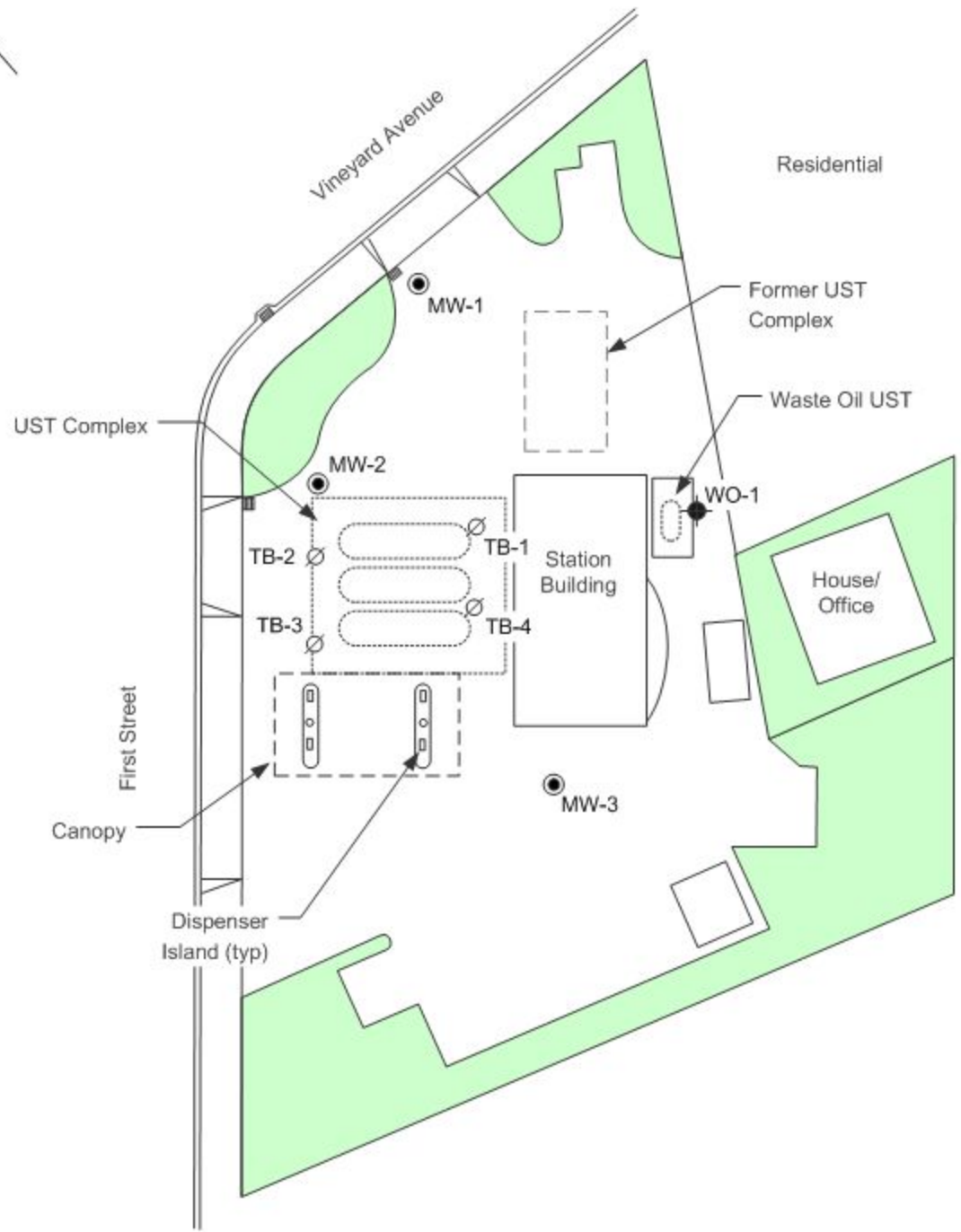
BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>SB-7</u>
JOB/SITE NAME	<u>ple-4226</u>	DRILLING STARTED	<u>07-Apr-99</u>
LOCATION	<u>4226 First Street, Pleasanton, California</u>	DRILLING COMPLETED	<u>07-Apr-99</u>

Continued from Previous Page

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
50/4			SB-7 - 74.5	74.5			@ 74' to 74.5' - black blebs, possibly MnO ₂ .		
15 30 50/2			SB-7 - 79.5	80					
15 25 50			SB-7 - 85.0	85	MH		@ 84' - dark yellow brown (10YR4/6); damp; 30% clay, 70% silt.		
15 46 50			SB-7 - 94.5	95			@ 94' - MnO ₂ blebs throughout; becomes siltier.		
25 30 50			SB-7 - 94.5	95					
25 50/3			SB-7 - 100.0	100	SC		Clayey SAND with Gravel; (SC); dark yellow brown (10YR4/6); dense; damp; 30% clay, 5% silt, 50% fine to coarse grained sand, 15% fine grained gravel (quartz); medium plasticity; low to moderate estimated permeability.	99.0 100.0	Bottom of Boring @ 100 ft
							Ground water sample (SB-7-GW) collected.		

WELL LOG (TPH-G) G:\PLE4226\GINT\PLE4226.GPJ DEFAULT.GDT 8/11/99



LEGEND

- MW-2 ● **GROUNDWATER MONITORING WELL LOCATION**
- TB-1 ∅ **ABANDONED TANK BACKFILL WELL LOCATION**
- WO-1 ● **PROPOSED SOIL BORING LOCATION**



FIGURE 1
SITE MAP

SHELL-BRANDED SERVICE STATION
4226 First Street
Pleasanton, California

PROJECT NO. SJ42-26F-1.2005	DRAWN BY V.F. 5/9/05
FILE NO. SJ42-26F-1.2005	PREPARED BY J.T.
REVISION NO. 2	REVIEWED BY

Delta

Environmental
Consultants, Inc.

BaseMap from: Cambria Environmental Technology, Inc. and Toxichem Management Systems, Inc.

Delta

Environmental Consultants, Inc.

Project No: SJ42-26F-1	Client: Shell Oil Products US	Boring No: WO-1
Logged By: Heather Buckingham	Location: 4226 First Street, Pleasanton	Page 2 of 2
Driller: Gregg	Date Drilled: 6/10/2005	Location Map Please see site map
Drilling Method: Direct Push	Hole Diameter: 3"	
Sampling Method: GeoProbe	Hole Depth: 37 ft	
Casing Type:	Well Diameter:	
Slot Size:	Well Depth:	
Gravel Pack:	Casing Stickup:	

Elevation	Northing	Easting
-----------	----------	---------

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout		wet moist	0.1		23		CL	Sandy Lean CLAY with Gravels (Continued)
						SC	Clayey SAND: orange brown; ~70% poorly graded fine grained sand; ~30% fines	
					24		CL	Sandy Lean CLAY with Gravels: same as above
					25			
					26			
					27		GW	Well-graded GRAVEL with Sand: orange brown; 10% fines; 30% coarse grained sand; 60% well graded sub-angular gravels
					28			
					29		CL	Sandy Lean CLAY with Gravel: same as above
					30			
					31		GW	Well-graded GRAVEL with Silt: orange tan; 10-20% silt; sub-angular gravels up to 0.5 cm in length
		32		GW	Well-graded GRAVEL with Sand: orange brown; ~40% coarse grained sand; 55-60% sub-rounded gravels; trace fines			
		33		GW	Well-graded GRAVEL with Clay: orange brown; 20-30% clay; 80-70% sub-angular gravel up to 0.5 cm in length; trace coarse grained sand			
		34						
		35						
		36						
		37						
		38			Refusal at 37 feet below grade. Hole remained dry after three hour wait.			
		39						
		40						
		41						
42								
43								
44								

5.7



BORING LOG

Client **Shell Oil Products US**
 Project Number **SJ4226F1X**

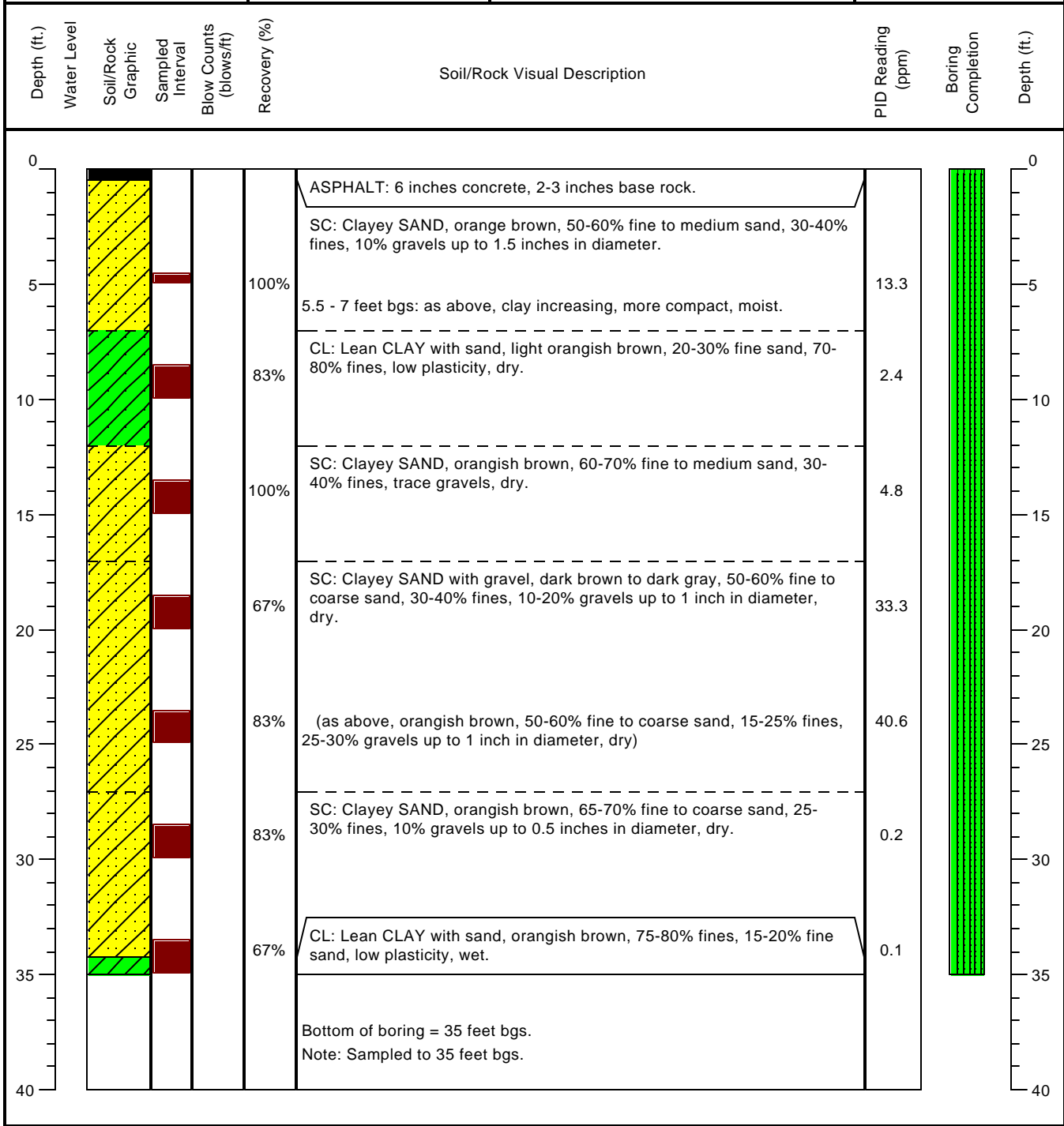
Boring No. **B-1**

Address:
4226 1st Street
Pleasanton, California
 Logged By: **Andy Persio**

Drilling Date(s): **3/27/07**
 Drilling Company: **Gregg**
 Drilling Method: **HSA**
 Boring Depth (ft): **35**

Boring diameter (in.): **8**
 Sampling Method: **Hand Auger/Split Spoon**
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SJ4226F1X**

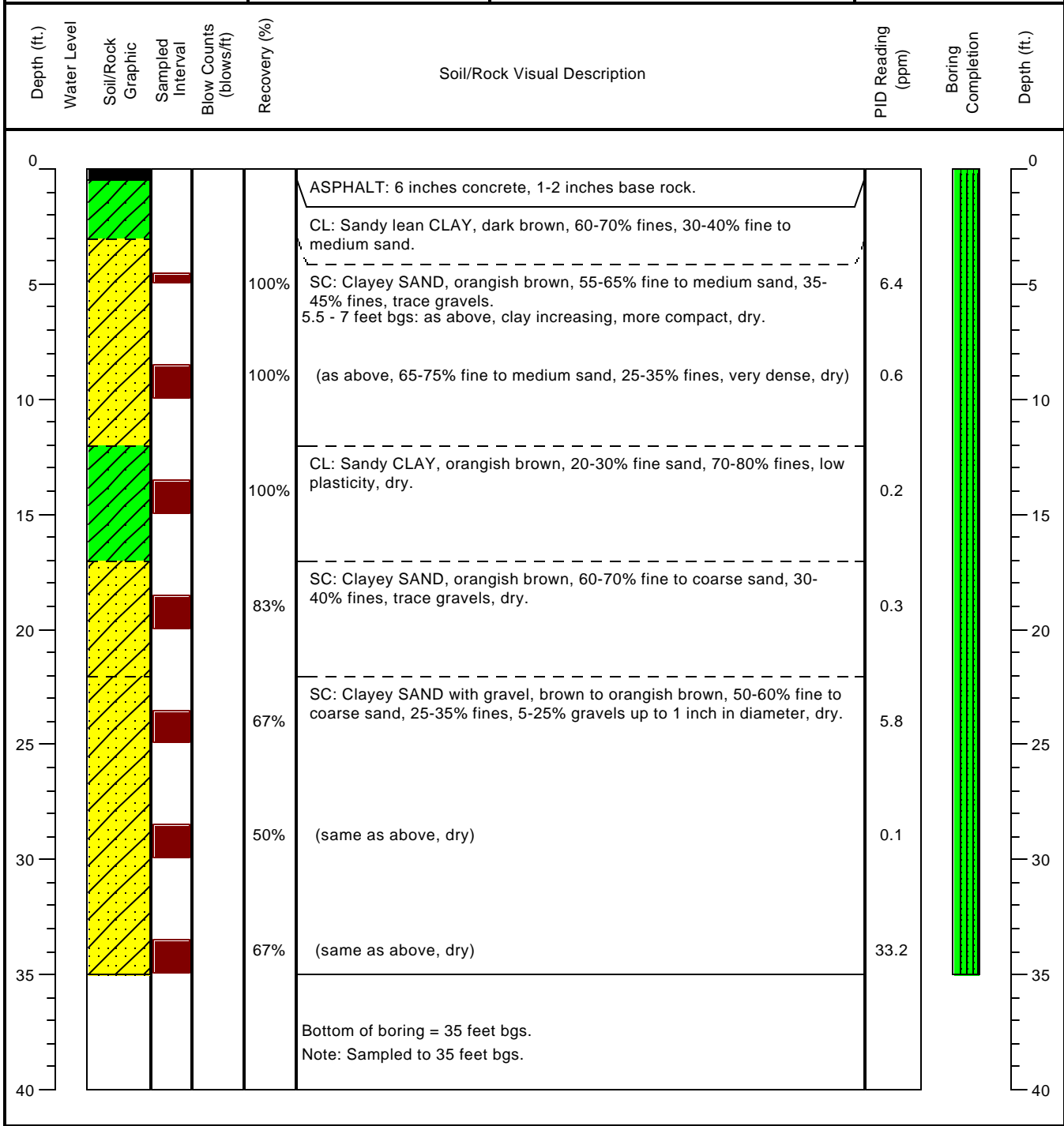
Boring No.
B-2

Address:
4226 1st Street
Pleasanton, California
 Logged By: **Andy Persio**

Drilling Date(s): **3/27/07**
 Drilling Company: **Gregg**
 Drilling Method: **HSA**
 Boring Depth (ft): **35**

Boring diameter (in.): **6**
 Sampling Method: **Hand Auger/Split Spoon**
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SJ4226F1X**

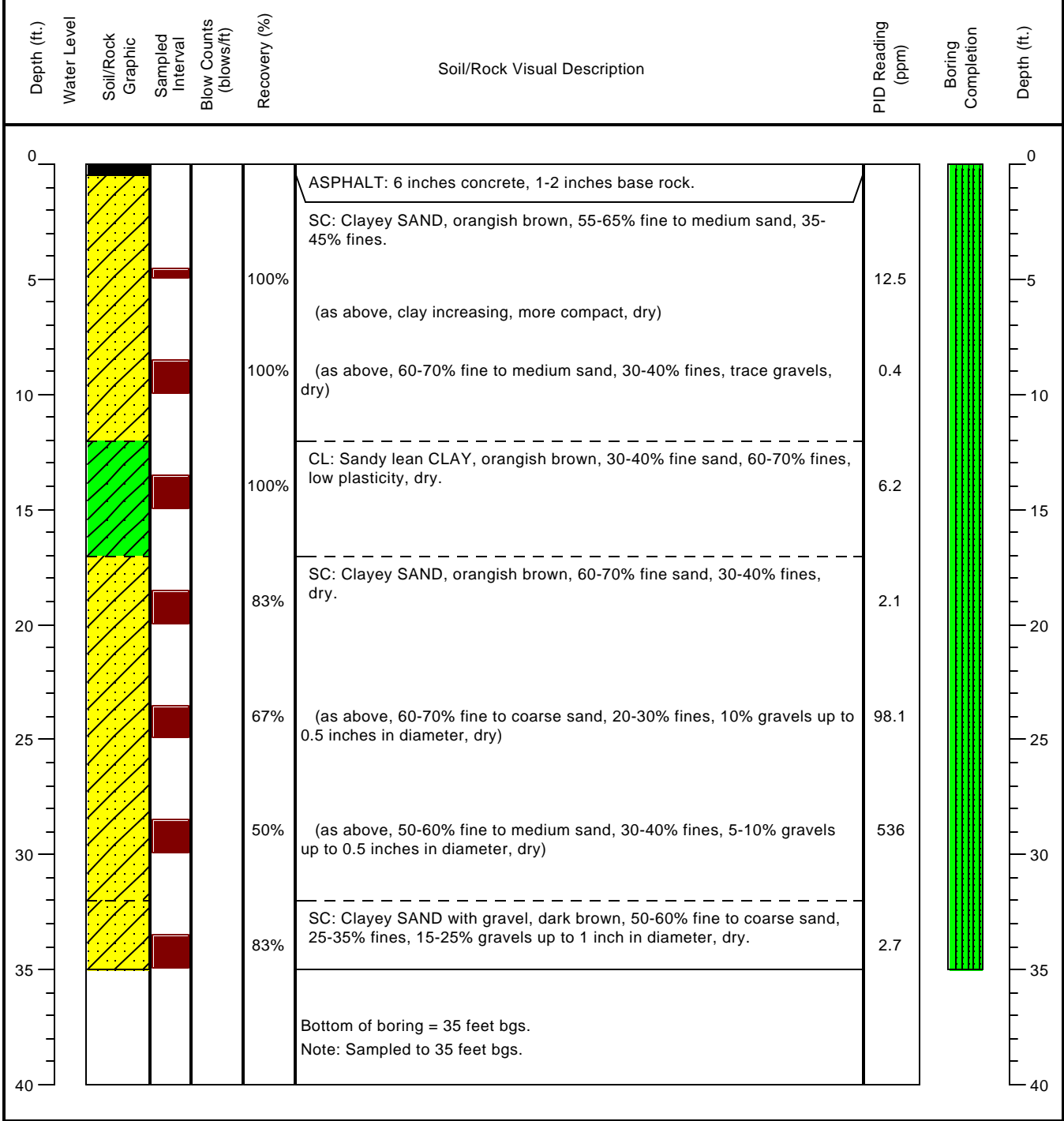
Boring No.
B-3

Address:
4226 1st Street
Pleasanton, California
 Logged By: **Andy Persio**

Drilling Date(s): **3/27-28/07**
 Drilling Company: **Gregg**
 Drilling Method: **HSA**
 Boring Depth (ft): **35**

Boring diameter (in.): **8**
 Sampling Method: **Hand Auger/Split Spoon**
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SJ4226F1X**

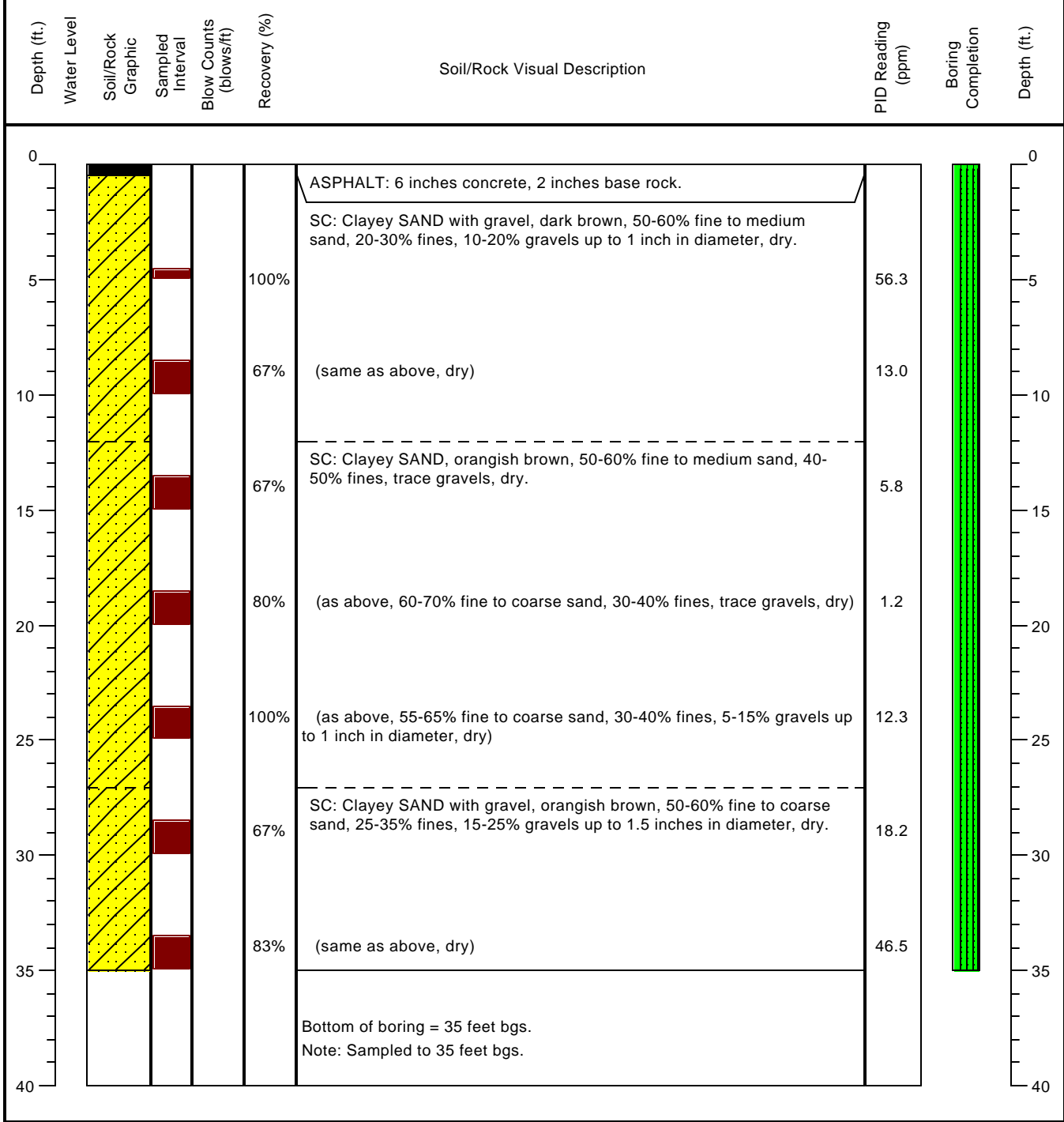
Boring No.
B-4

Address:
4226 1st Street
Pleasanton, California
 Logged By: **Andy Persio**

Drilling Date(s): **3/27-28/07**
 Drilling Company: **Gregg**
 Drilling Method: **HSA**
 Boring Depth (ft): **35**

Boring diameter (in.): **6**
 Sampling Method: **Hand Auger/Split Spoon**
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SJ4226F1X**

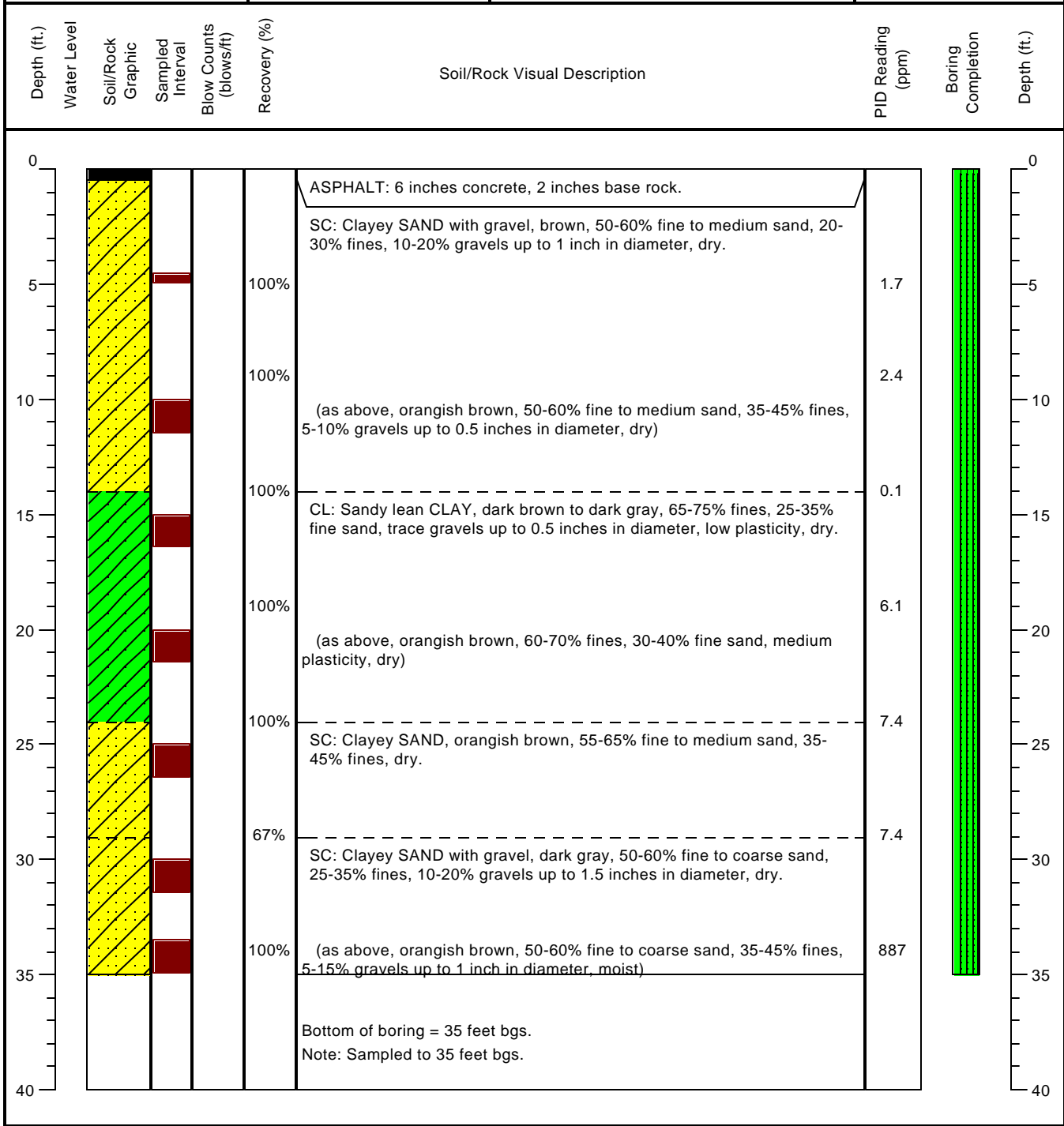
Boring No.
B-5

Address:
4226 1st Street
Pleasanton, California
 Logged By: **Andy Persio**

Drilling Date(s): **3/27-28/07**
 Drilling Company: **Gregg**
 Drilling Method: **HSA**
 Boring Depth (ft): **35**

Boring diameter (in.): **6**
 Sampling Method: **Hand Auger/Split Spoon**
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

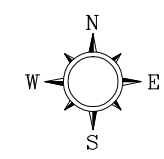
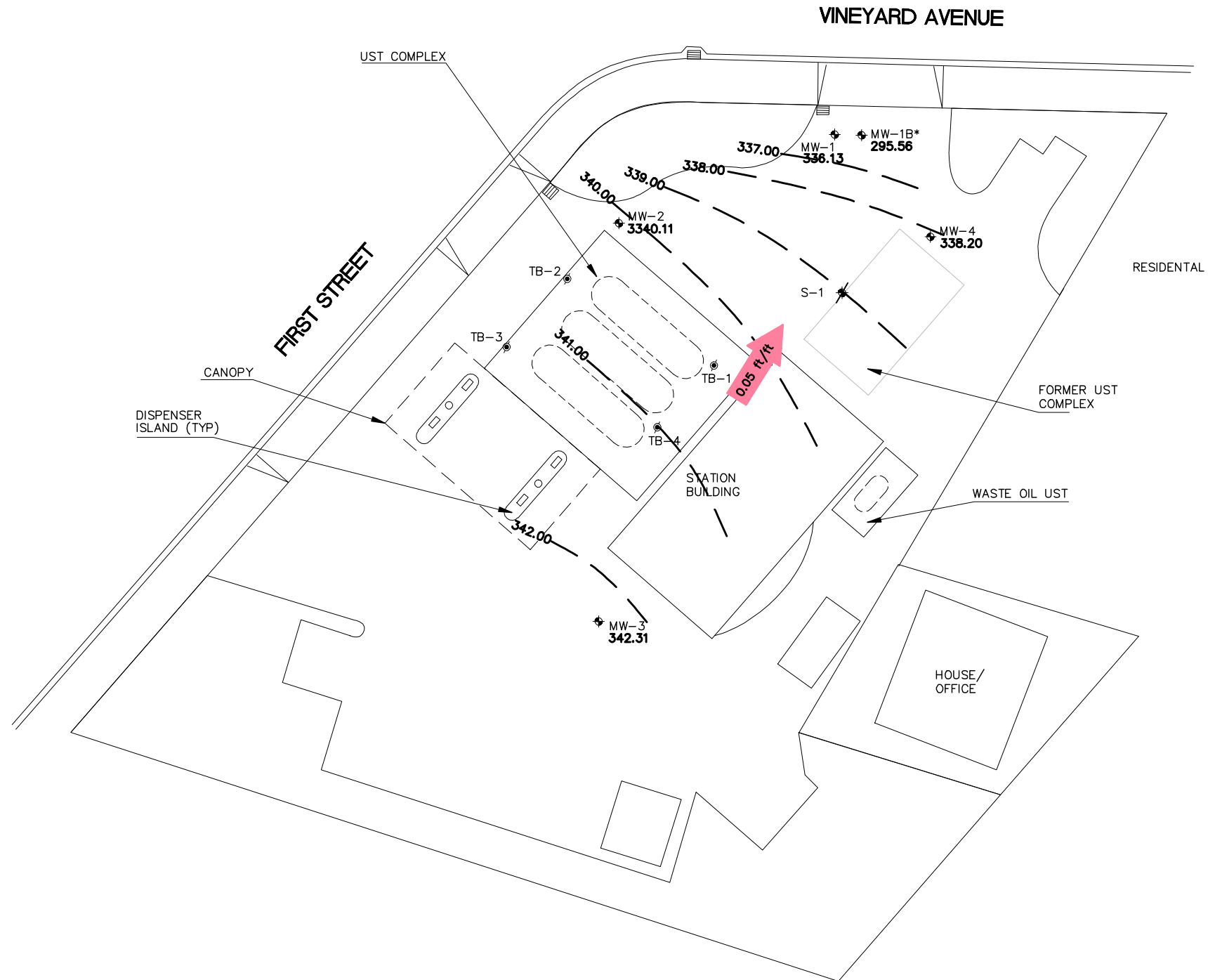
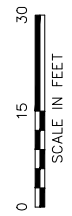
Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**



APPENDIX C

FIRST QUARTER 2009 GROUNDWATER MAPS

PROJECT NUMBER SCA421211A
 APPROVED BY
 CHECKED BY
 DRAWN BY J.F.F. 3/3/2009



LEGEND

MW-1	GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
S-1	DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
TB-1	ABANDONED TANK BACKFILL WELL LOCATION
343.08	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
344.00	GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL) CONTOUR INTERVAL=1.0 FEET
MW-1B*	MONITORS DEEPER WATER BEARING ZONE; NOT USED USED IN CONTOURING
← 0.05 ft/ft	APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)

DELTA CONSULTANTS

SHELL OIL PRODUCTS US
 SHELL-BRANDED SERVICE STATION
 PLEASANTON, CALIFORNIA

FIGURE 2

GROUNDWATER ELEVATION CONTOUR MAP
 2/5/2009

4212 FIRST STREET
 PLEASANTON, CALIFORNIA

PROJECT NUMBER SCA421211A
 APPROVED BY
 CHECKED BY
 DRAWN BY J.F.F. 3/3/2009

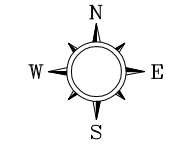
MW-1				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
2/5/209	2,100	26	1,700	340

MW-2				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
2/5/209	1,200	ND<10	1,000	ND<200

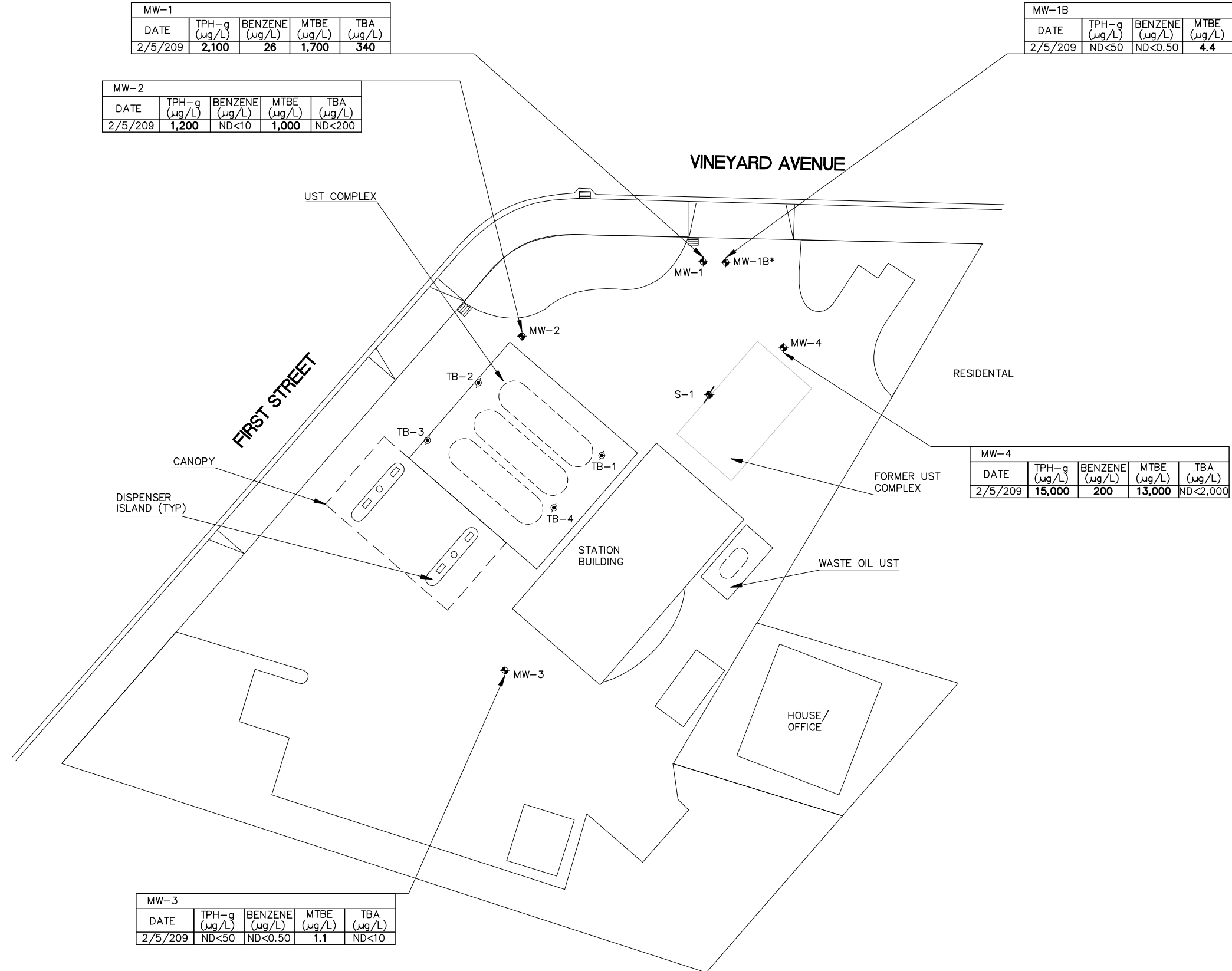
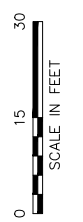
MW-1B				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
2/5/209	ND<50	ND<0.50	4.4	ND<10

MW-4				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
2/5/209	15,000	200	13,000	ND<2,000

MW-3				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
2/5/209	ND<50	ND<0.50	1.1	ND<10



- LEGEND
- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - TB-1 ABANDONED TANK BACKFILL WELL LOCATION
 - TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 - MTBE METHYL TERT-BUTYL ETHER
 - TBA TERT-BUTYL ALCOHOL
 - µg/L MICROGRAMS PER LITER
 - ND< NOT DETECTED ABOVE LIMIT NOTED
 - MW-1B* MONITORS DEEPER WATER BEARING ZONE



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 PLEASANTON, CALIFORNIA

**FIGURE 3
 GROUNDWATER HYDROCARBON
 DISTRIBUTION MAP
 2/5/2009**

4212 FIRST STREET
 PLEASANTON, CALIFORNIA