Shell Oil Products US

February 6, 2006

Re: **Initial Site Conceptual Model (September 2005)**
Shell-branded Service Station
4226 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

Denis L. Brown
Project Manager

20945 S. Wilmington Avenue, Carson, CA 90810 P: (559) 645-9306; F: (559) 645-5643

Shell Oil Products US
Initial Site Conceptual Model (September 2005)
Shell-branded Service Station
4226 First Street, Pleasanton, California

Explanation of abbreviations at bottom of table.

	DESCRIPTION	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
Professional Certification	Dated, signed and stamped certification by Lee Dooley, California Certified Hydrogeologist.		Certification				
Regional Setting	**Geology/Stratigraphy** The site located is located near the southwestern edge of the Livermore Valley. The site area slopes to the north from the base of nearby hills (See topographic map). Arroyo Valle stream is located approximately 1,100 feet north of the site. A geologic map and geologic cross section (J-J) are provided from California Department of Water Resources (DWR) Bulletin 118-2. The site is mapped as being underlain by Younger Alluvial Fan Deposits (Qyf). These deposits are described in DWR Bulletin 118-2 as consisting of "unconsolidated, moderately sorted, permeable fine sand and silt, with gravel becoming more abundant toward fan heads and within canyons." The northwest trending Pleasanton Fault is located west of the site (See geologic cross section J-J) and may impact local stratigraphy. The alluvial fan deposits are underlain by northward dipping sand and gravel deposits of the Livermore Formation. Additional geologic cross sections are provided from the Zone 7 Well Master Plan. Section locations are shown on Figure 1.1-1. The site is located at the southern end of Section E-E'. The section shows a contact in the site area between flat lying alluvium (A-Zone) and underlying northerly dipping Livermore Formation (D-Zone). Water Well Drillers Reports obtained from DWR indicate that the site area is underlain by interlayered clay, sand, and gravel to depths greater than 250 feet bg (below grade).		Surficial geology map Geologic cross section J-J USGS topographic map Well field map and series of geologic cross sections	DWR Bulletin 118-2 Zone 7 Well Field Plan (10/03)	Depth to subsurface contact between Qyf and underlying Livermore Formation in site area	Additional boring(s) downgradient (northeast) of the site	See map and aerial photo in Site Geology
	Hydrogeology The site located on the western edge of the Amador subbasin of the Livermore Valley Groundwater Basin. The Amador subbasin is bounded on the east by the middle zone of the Livermore Fault and on the west by the Pleasanton Fault (See Regional Geologic Section J-J). Much of the groundwater of the Amador subbasin is derived from sandy gravel and sandy clayey gravel deposits that are up to 150 feet in thickness. Gravel pits occur throughout the central portion of the subbasin. Groundwater in the Amador subbasin occurs in both unconfined and confined conditions. In the shallower, unconfined aquifers, groundwater is first encountered generally about 30 to 50 feet bg. Deeper aquifers are encountered within sand and gravel deposits at a depth of approximately 90 to 100 feet bg (See Zone 7 Groundwater Contour Map). The Zone 7 contour map shows groundwater flow in both confined and unconfined aquifers toward the gravel pits in the center of the subbasin (See Zone 7 Groundwater Contour Map). A contour map from the Zone 7 Well Master Plan (Figure ES.2-2) shows a flow within the "deeper aquifer" to the west.		Zone 7 Groundwater Contour Map Subbasin map Figure ES.2-2 - Historic Composite Low Water Levels in the Deeper Aquifer	Zone 7 DWR Bulletin 118-2 Zone 7 Well Field Plan (10/03)	Location of Pleasanton Fault; impact on groundwater occurrence in site area	Perform additional literature survey; collect additional subsurface data both west and east of site.	See attached work plan and site area map

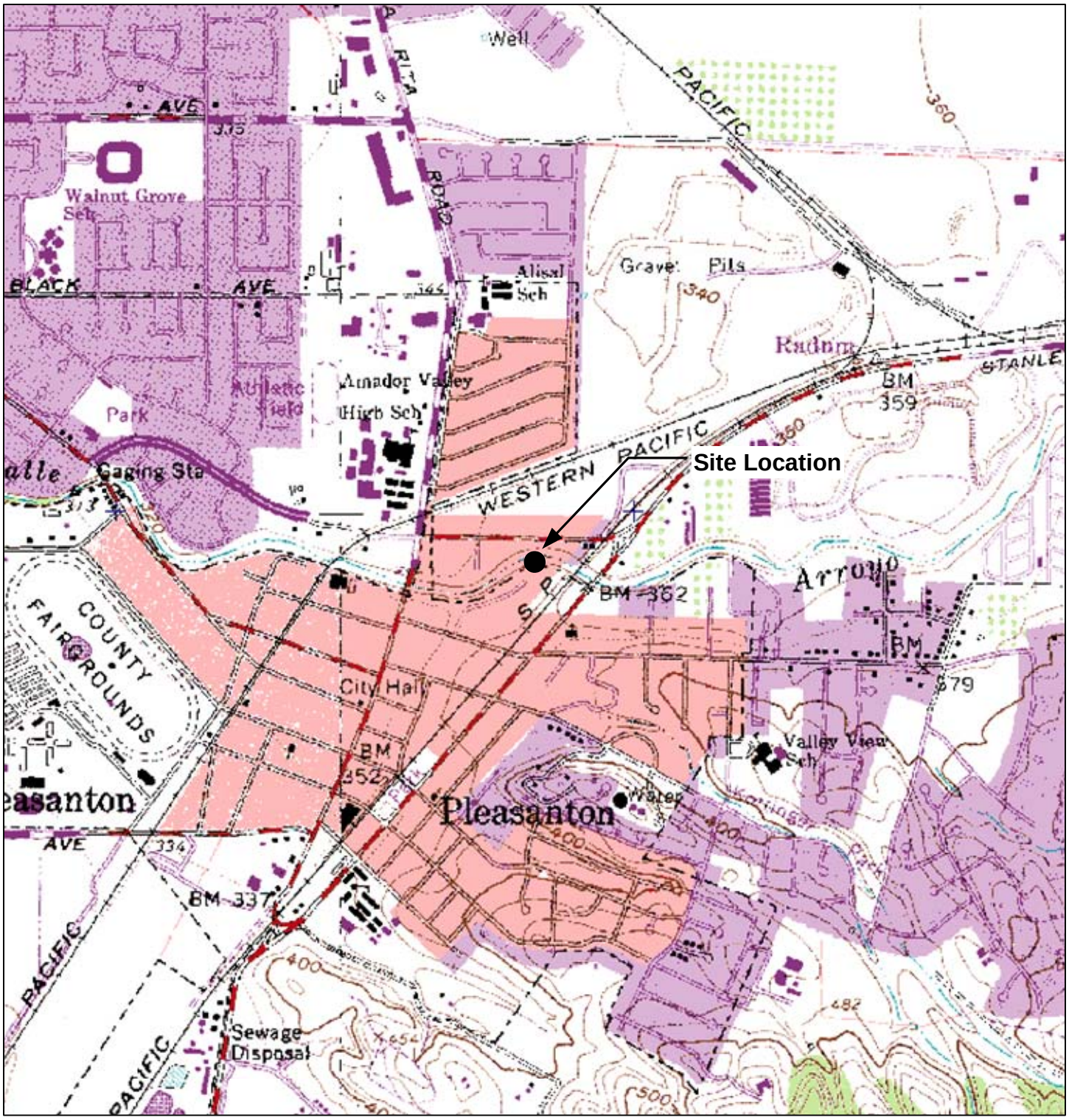
	DESCRIPTION	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	Groundwater Pumping The site is located on the southwestern edge of the Amador subbasin. Sand and gravel pit groundwater extraction areas are located greater than 1 mile north of the site in the central portion of the subbasin. The site appears to be outside the area of influence of any groundwater extraction wells (See well survey discussion below).		Zone 7 Groundwater Contour Map	Zone 7	None		Site not within influence of any pumping wells.
	Preferential Pathways Well Survey – In May 2004, Toxichem Management Systems, Inc. (Toxichem) obtain information from the Zone 7 Water District (Zone 7) and the DWR. A copy of Toxichem's well survey map and summary table are attached. The nearest wells identified were a well of "unknown" use (3S/1E-21B) and a municipal well (3S/1E-21B1) both located approximately 900 feet northeast of the site. Toxichem was unable to locate either well in the field and concluded that they were likely abandoned. In November 2005, Delta Environmental Consultants, Inc. (Delta) observed an old water tower building near the location of the two wells. A municipal well (3S/1E-16P1) was identified to be located >1,200 feet north of the site. Again, Toxichem could not field locate the well. In September 2005, Delta performed an additional well survey for the site area. A well location map was obtained from Zone 7. The map identified three wells approximately 1,000 feet northwest of the site (3S/1E-21C1, -21C3, and -21C4.) Well -21C1 was classified as a "supply well", -21C3 as "abandoned or unlocatable", and -21C4 as "other designated well." Delta was only able to field located Well -21C4. The well provides irrigation water for a small city park. Delta also located a similar well in Kottinger Park located approximately 800 feet east of the site. Utility Survey – Delta was unable to locate a map of underground utilities for the site area. Depth to groundwater beneath the site is >30 feet below grade (bg), thus underground utilities are not considered a vertical conduit to shallow groundwater. Analysis – No vertical conduits appear to be present in the site area that would result in movement of contaminants to groundwater.	Well survey data tables Sensitive receptor data table	Well survey map Well location aerial photograph Sensitive receptor location map	Toxichem (2004) Zone 7 Delta (2005)	None	.	
	Nearby Release Sites 76 Service Station, 4191 First Street, Pleasanton An operating 76-branded service station is located on the northwest side of First Street approximately 200 feet north of the site (see attached site area map and aerial photograph). On- and off-site soil and groundwater investigations have been performed for the 76 station (See site information). The site groundwater monitoring system consists of twelve monitoring wells (See attached map and Geotracker data). On March 17, 2005, depth to groundwater ranged from 72.54 to 94.66 feet below top of well casing (TOC). The average groundwater elevation in the area of the 76 station was 290 feet MSL. This compares with depth to groundwater beneath the Shell station on February 2, 2005 of 31.28 to 32.02 feet TOC and an average groundwater elevation of 340 feet MSL. The groundwater flow beneath and downgradient of the 76 station was toward the south and west on March 17, 2005. However, the distribution of contaminants dissolved in groundwater appears to be		Site map (Cambria, 2001), Location map and DTW data from Geotracker Site geologic cross sections; concentration maps Map and aerial photograph of site area	Geotracker Gettler-Ryan (2001) Delta (2005)	Hydrogeologic relationship between groundwater beneath the site and 76-branded station. Possibility of faulting in the site area.	Drilling of boring(s) between the two stations	See attached work plan

	DESCRIPTION	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	more indicative of flow to the north (See concentration maps). Groundwater flow beneath the Shell station is consistently to the northeast. Three hydrogeologic cross sections prepared by Gettler-Ryan, Inc. for the 76 station are provided. The sections show a series of sand and gravel beds dipping to the north beneath the 76 station (See Section B-B). These beds appear to meet the regional description of the Livermore Formation. In contrast, sand and gravel beds beneath the Shell station have been interpretted as nearly flat lying and likely representative of alluvium capping the Livermore Formation (See Site Geology below). It appears, based on available data, that the two sites monitor different but possibly interconnected sand and gravel aquifers.						
Site Setting	**Site Geology** A series of site maps are attached that show the location of borings and wells. Borings have found the site is underlain by interlayered silt, silty sand, gravelly sand, and silty gravel to the maximum depth explored of 100 feet bg (Boring SB-7). Two geologic cross sections prepared by Cambria Environmental Technology, Inc. (Cambria) are attached. The sections indicate that deposits beneath the site are nearly flat lying. An approximately 40-foot thick silt layer was encountered in Boring SB-7 from 59 to 99 feet bg. Silt was also encountered at a depth of 40 to 50 feet in Borings SB-1, SB-4, SB-5, SB-6, MW-1, MW-2, and MW-3.		Boring logs for S-A, S-B, S-C, S-D, and S-1 Boring logs for SB-1, SB-2, SB-3, and WA-1 Boring logs for SB-4 and SB-5 Borings logs for SB-6 and SB-7 Boring logs for MW-1, MW-2, and MW-3 Geologic Cross Sections A-A' and B-B'	Emcon Associates (1985) HartCrowser (1990) HartCrowser (1990) Cambria (1999) Cambria (1999) Cambria (date ?)	Extent of silt layer not defined	Drill additional boring(s) to define extent of silt layer	See attached work plan and area site map
	Groundwater Conditions Three groundwater monitoring wells (MW-1 through MW-3) have been installed on site. No off-site wells have been installed. Groundwater was encountered in the borings for Wells MW-1 and MW-3 at depths of 43 feet and 25 feet bg, respectively. Groundwater was not encountered during the drilling of the boring for Well MW-2 (See Boring Logs above). The total depths of the three wells are 58 feet, 48 feet, and 41.5 feet bg, respectively. Well MW-1 is screened from 37 feet to 58 feet bg; Well MW-2 from 26 feet to 46 feet bg; and Well MW-3 from 19 feet to 35 feet bg (See well construction details on boring logs). Depth to water in wells has historically been approximately 30 to 40 feet bg. Groundwater appears to be perched above the silt layer described above (site geologic section). This silt layer appears to prevent further downward migration of petroleum hydrocarbons and fuel oxygenates. Benzene, toluene, ethylbenzene, and xylene (BTEX compounds) and MTBE were not detected in any soil samples collected within the silt layer (see summary of soil analytical data, Boring SB-7). The silt layer is believed to separate perched groundwater beneath the site from deeper groundwater encountered beneath the 76-branded service station. A series of historic groundwater elevation contour maps are attached. Groundwater flow has ranged from north to northeast.	Groundwater depth and elevation data	Groundwater Elevation Contour Maps (historic)	Cambria; Toxichem; Delta; Blaine Tech	Relationship between perched groundwater beneath the site and deeper groundwater beneath the 76-branded station Water quality beneath perching silt layer	Drill additional boring (s) between the two stations Drill additional boring(s)	See attached work plan and area site map See attached work plan and area site plan

	DESCRIPTION	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	The most recent groundwater measurements were on November 19, 2005. Historic depth to groundwater and groundwater elevations are provided on the attached Blaine Tech Services report dated December 19, 2005. Groundwater flow was to the northeast (See Groundwater Contour Map for 4Q05).		August 5, 2005 November 22, 2005	Services			
	Source Area In September 1985, Emcon Associates drilled three soil borings in the vicinity of the former underground fuel storage tanks (S-B, S-C, and S-D). The four former fuel underground storage tanks (USTs) were originally located in the northern portion of the site. Total petroleum hydrocarbons as gasoline (TPH-G) was detected at 1,300 mg/kg in the 14- to 15.5-foot sample from boring S-B. In May 1986, the USTs were removed and the pit backfilled. Soil samples were collected beneath the ends of each of the former tanks. The maximum TPH-G detected was 240 mg/kg. New USTs were installed in front of the service station building (current location). In March 1990, Hart Crowser, Inc. advanced three additional soil borings (SB-1, SB-2, and SB-3). The boring for the destruction of Well S-1 was advanced 20 feet beyond the bottom of the well. This boring was designated WA-1. The highest concentrations of TPH-G were detected in two soil samples from boring WA-1; 30 feet bg (380 mg/kg) and 35 feet (290 mg/l). Analysis for for methyl tert-butyl ether (MTBE) was not performed. In December 1990, Hart Crowser, Inc. advanced Borings SB-4 and SB-5 downgradient (north) of the location of the former USTs. Petroleum hydrocarbons were only detected in one soil sample (SB-5 at 35 feet, TPH-G 820 ug/l). In September 1995, Weiss and Associates collected soil samples beneath four site dispensers and product piping. TPH-G was detected at 120 mg/kg beneath the eastern-most dispenser island. Approximately 40 cubic yards of impacted soil were removed. TPH-G was detected at less than 3 mg/kg in confirmation soil samples. Analysis for MTBE was not performed. In July 1998, Cambria collected a sample of the pea gravel backfill near the waste oil tank remote fill piping. No evidence of a release was found. In April 1999, Cambria advanced two soil borings (SB-6 and SB-7) to depths of 58 and 100 feet, respectively. TPH-G was only detected in the 40-foot sample of boring SB-7 (83 mg/kg). MTBE was not detected in any soil sample. The boring was converted to Well MW-1. In January 2000, Cambria installed Wells MW-2 and MW-3. TPH-G and MTBE were not detected in any soil sample. In January 2005, it was determined that a liquid had likely been poured into a second port on the waste oil tank which goes directly into the pea gravel surrounding the tank. An Unauthorized Release Report (URR) dated January 19, 2005 was submitted to the local Fire Prevention District and Alameda County Environmental Health Department. Total petroleum hydrocarbons as oil and grease were	Soil analytical data summary tables Soil analytical data summary tables Soil analytical data summary tables Soil analytical data summary tables	Soil boring locations map Weiss Associates report dated December 21, 1995 Cambria report dated September 22, 1998 Toxichem work plan dated March 16, 2005	Cambria report dated August 12, 1999	None		

	DESCRIPTION	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	detected in a sample of the pea gravel at 10,000 mg/kg. The impacted soil near the fill port was removed and transported off site for disposal. On June 10, 2005, Delta advanced a boring (WO-1) adjacent to the waste oil UST. Analysis of soil sample indicated that waste oil had not moved outside the UST backfill.		Delta report dated July 11, 2005				
	Dissolved plume A plume of dissolved petroleum hydrocarbons and MTBE exists in groundwater at a depth of approximately 30 feet beneath the site. The plume extends from the central portion of the site, off-site to the north-northeast. The highest concentrations of total petroleum hydrocarbons as gasoline (TPH-G), benzene, and MTBE have been detected in groundwater samples from Well MW-1 located on the downgradient (northern) edge of the property. The groundwater sample from Well MW-1 collected on November 22, 2005 contained TPH-G (1,760 ug/l), benzene (27.4 ug/l), and MTBE (1,160 ug/l). MTBE concentrations in Well MW-1 increased to a historic high. A MTBE time/concentration graph is attached.	Summary of groundwater analytical data Historic groundwater analytical data	Map of TPH-G, benzene, and MTBE Concentrations in Groundwater, August 5, 2005 November 22, 2005 MTBE concentration graph	Delta (July 2005) Delta (November 2005)	Downgradient extent of MTBE in shallow perched aquifer	Collect groundwater sample from downgradient of the site.	See attached work plan
	Remediation Approximately 40 cubic yards of petroleum hydrocarbon impacted soil were removed during the dispenser and product line upgrade activities in September 1995. Impacted soil was transported off site for disposal at a licensed landfill facility.		Weiss Associates report dated December 21, 1995		No remediation proposed at this time pending results of additional site assessment		
	Evaluation of potential impacts to water supply wells The potential for shallow groundwater containing MTBE to impact a water supply well appears to be low.		Zone 7 Well Location Aerial Photograph	Zone 7		None	Site outside of well capture zone.
	Work Plans						See attached work plan

Abbreviations
DWR = California Department of Water Resources
Zone 7 = Zone 7 Water District
MTBE = methyl tert-butyl ether
bg = below grade
mg/kg = milligrams per kilogram
ug/l = micrograms per liter



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

North

QUADRANGLE LOCATION

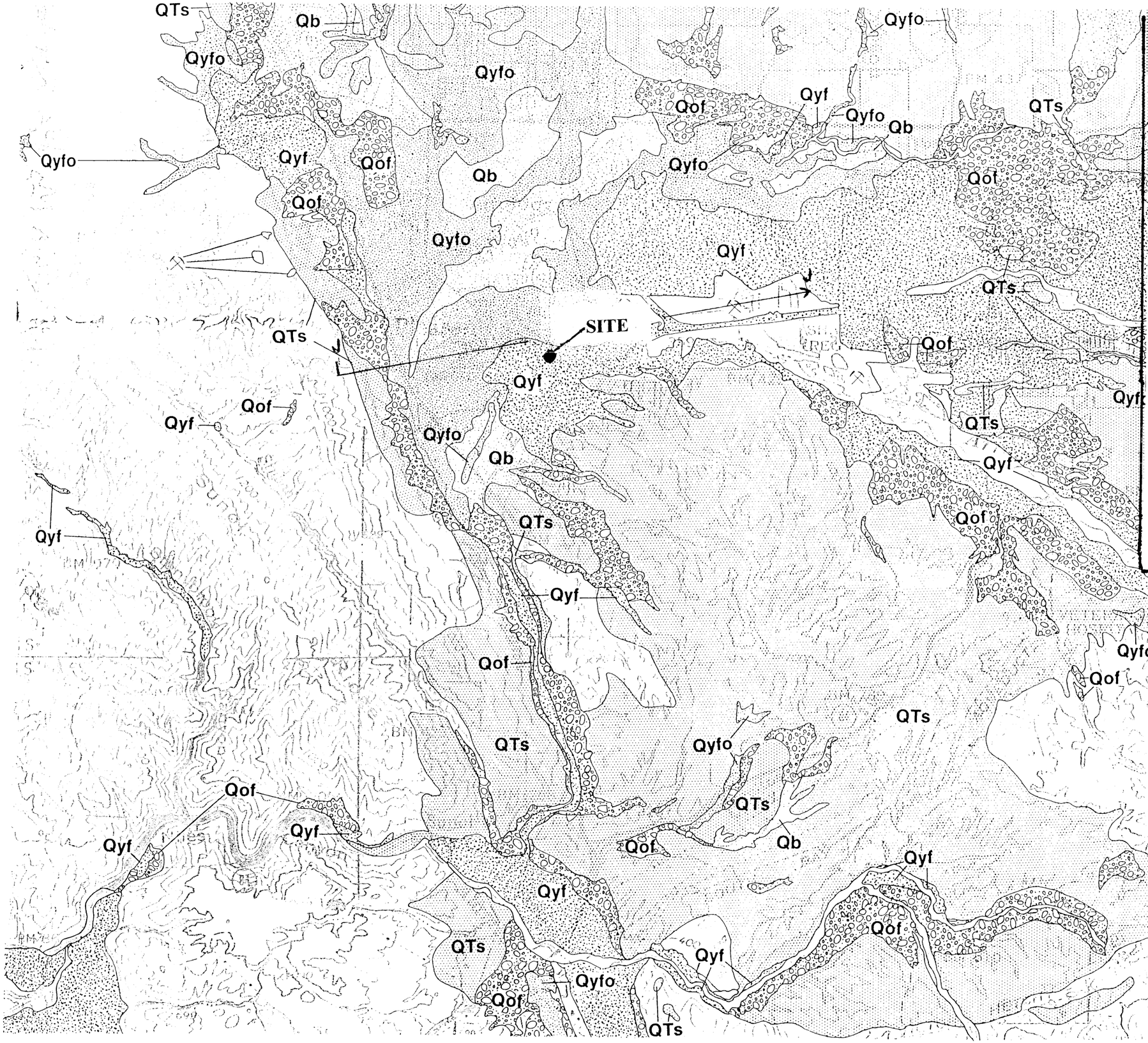
0 1,300 2,600
Scale, Feet

FIGURE 1
SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION
4226 First Street
Pleasanton, California

PROJECT NO. SJ42-26F-1.2005	DRAWN BY V. F. 5/5/05
FILE NO. SJ42-26F-1.2005	PREPARED BY VF
REVISION NO.	REVIEWED BY

Delta
Environmental
Consultants, Inc.



DESCRIPTION OF UNITS

GRAVEL PITS

Qsc STREAM CHANNEL MATERIAL -- Mainly loose, well-sorted sand and gravel. This material is presently being transported during periods of normal runoff.

Qyf YOUNGER ALLUVIAL FAN DEPOSITS -- Includes colluvial fill in narrow canyons. Unconsolidated, moderately sorted, permeable fine sand and silt, with gravel becoming more abundant toward fan heads and within canyons. Forms well-drained levees which grade headward to stream deposits on terraces cut in Qof. Thickness varies from as much as 50 feet at fan heads and in canyons to about 20 feet where Qyf interfingers with Qyfo and Qb at the outer margins of fans. Locally contains aboriginal artifacts and skeletal remains.

Qyfo YOUNGER FLUVIAL DEPOSITS -- Unconsolidated deposits of fine, but variable grain size--mainly fine sand, silt, and silty clay; intermediate in character and lateral extent between Qb and Qyf. Forms levees and overbank deposits along the San Francisco Bay margin and in Livermore Valley, as well as valley fill in some open canyons. May be in part windblown in the southwestern part of the county. Generally less than 15 feet thick. Overbank deposits locally contain minor amounts of organic matter including fresh-water gastropods and pelecypods.

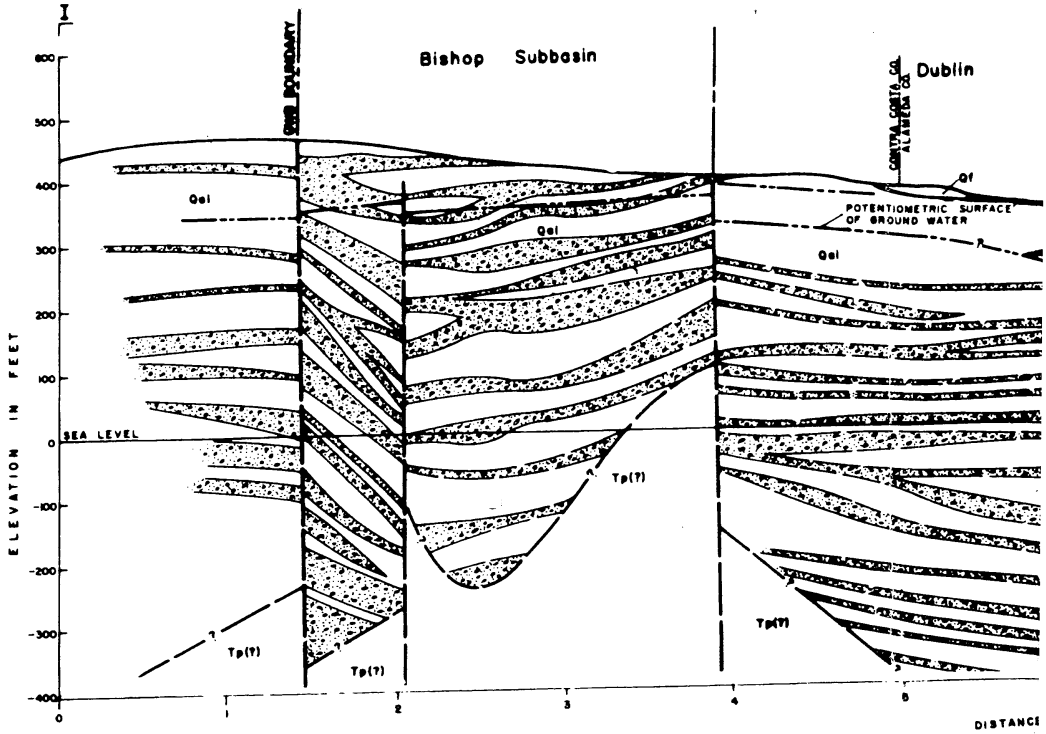
Qb INTERFLUVIAL BASIN DEPOSITS -- Plastic, poorly sorted, organic-rich clay and silty clay in poorly drained areas marginal to the bay and in Livermore Valley. Interfingers with Qyf, Qyfo, and recent mud of San Francisco Bay. Generally less than 10 feet thick. Locally contains fresh-water gastropods and pelecypods.

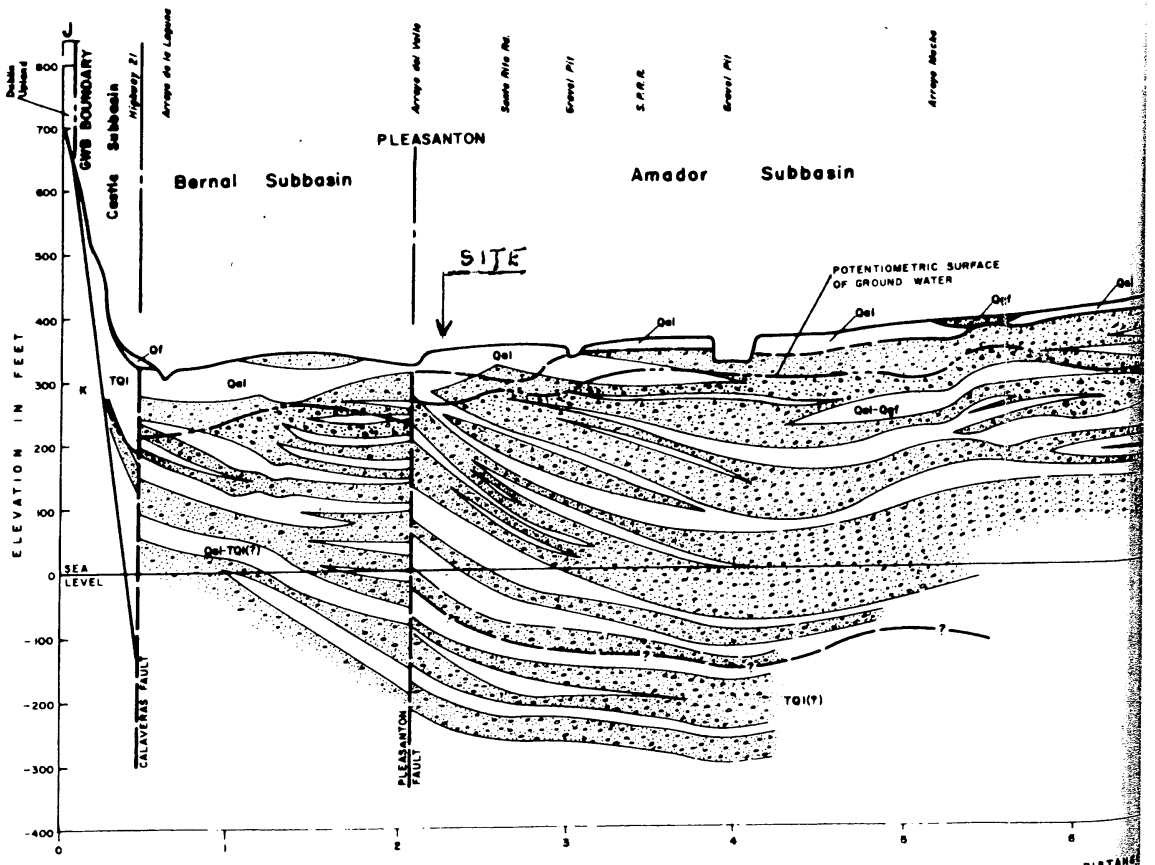
Qm MERRITT SAND -- Loose, fine-grained, very well sorted beach and wind-blown sand at Alameda Island and adjacent bay margin near Oakland (Lawson, 1914).

Qof OLDER ALLUVIAL FAN DEPOSITS -- Includes stream terrace deposits in some narrow canyons and on the margins of Livermore Valley. Weathered, weakly consolidated, poorly sorted silt sand and gravel (generally fine grained in northeastern Livermore Valley owing to derivation from friable sandstone bedrock). Less permeable and more poorly drained than younger alluvial fan deposits. Maximum thickness unknown but at least several hundred feet thick near bay margin. Headward portions overlapped by younger deposits on southern bay margin and incised by channels that are partially filled with younger deposits on northern bay margin and in Livermore Valley. Locally contains concentrations of continental vertebrate and invertebrate fossils. Includes the San Antonio Formation of Lawson (1914).

Qom OLDER MUD -- Dark, plastic, semiconsolidated, organic-rich clay and silty clay. Interfingers with Qof. Maximum thickness is unknown but greater than 50 feet near bay margin. Underlies recent mud of San Francisco Bay and locally underlies younger alluvial deposits on bay margin. Locally contains continental vertebrate fossils, fresh-water invertebrate fossils, and plant remains.

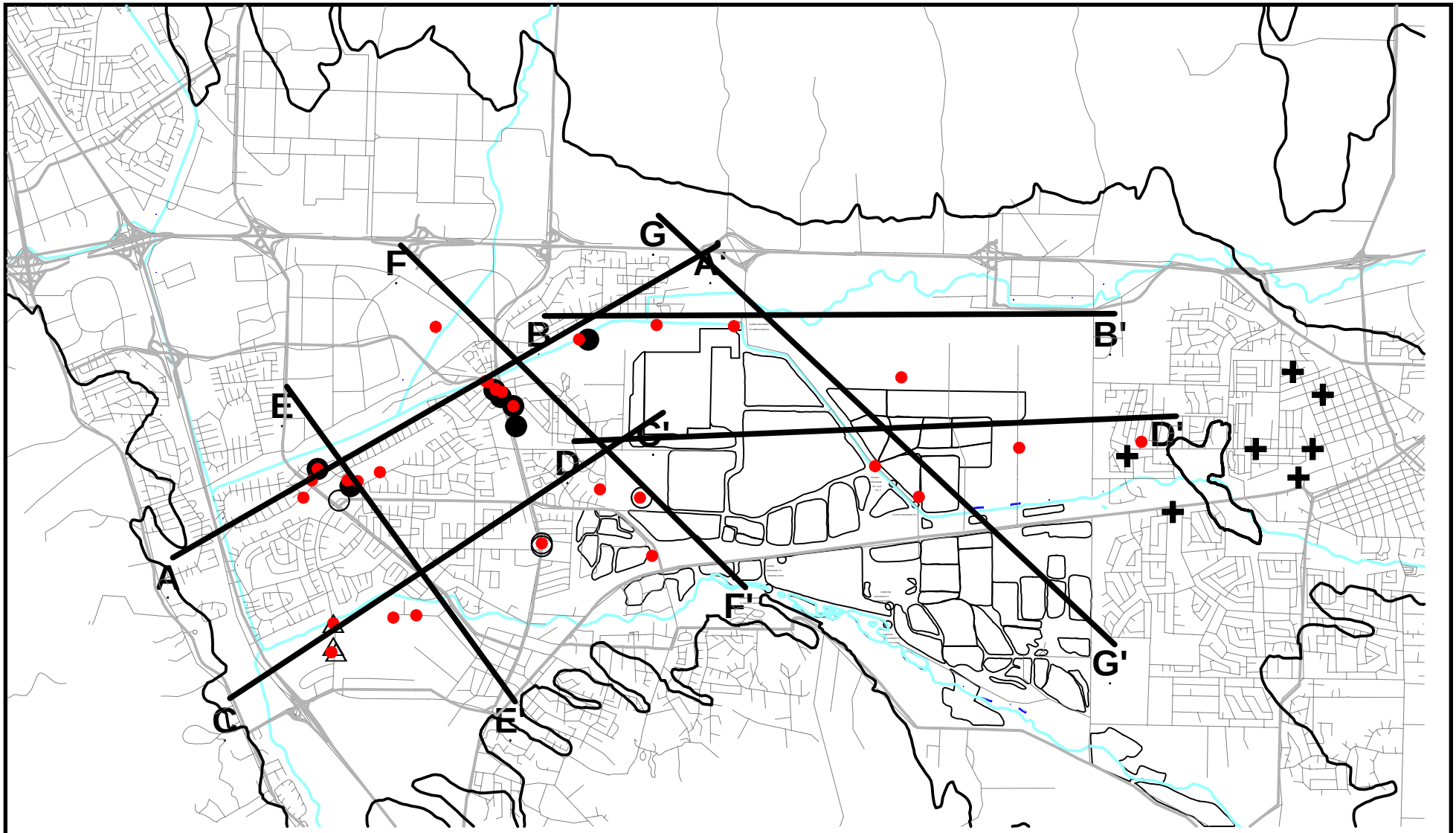
QTs DEFORMED OLDER SEDIMENTARY DEPOSITS -- Poorly consolidated to semiconsolidated alluvial deposits of gravel, sand, silt and clay with subordinate fine-grained lacustrine deposits; locally tuffaceous; locally contains abundant remains of continental vertebrate and invertebrate fossils. Maximum thickness unknown but over 5,000 feet in the hills south of Livermore Valley. Includes the Irvington Gravels of Savage (1951) in the Warm Springs and Mission San Jose districts of Fremont, the Livermore Gravels of Clark (1930) south of Livermore Valley, and the Tassajara Formation of Oestereich (1958) north of Livermore Valley.





For location of sections, see Fig. 4, Shts. 1, 2 & 3
For legend, see Fig. 5, Sheet 6

GEOLOGIC SECTIONS



LEGEND

- Zone 7 wells
- City of Pleasanton wells
- City of San Francisco wells
- Cal-Water wells
- Well used in construction

N

0 feet 5280 feet 10560 feet 15840 feet

FIGURE 1.1-1
CROSS-SECTION LOCATION AND WELLS
ZONE 7 WATER AGENCY
WELL WATER PLAN

CH2MHILL

163304.WM.06_W102003001SFO_Z7 FIGURE 1.1-1_10/10/03_ccc

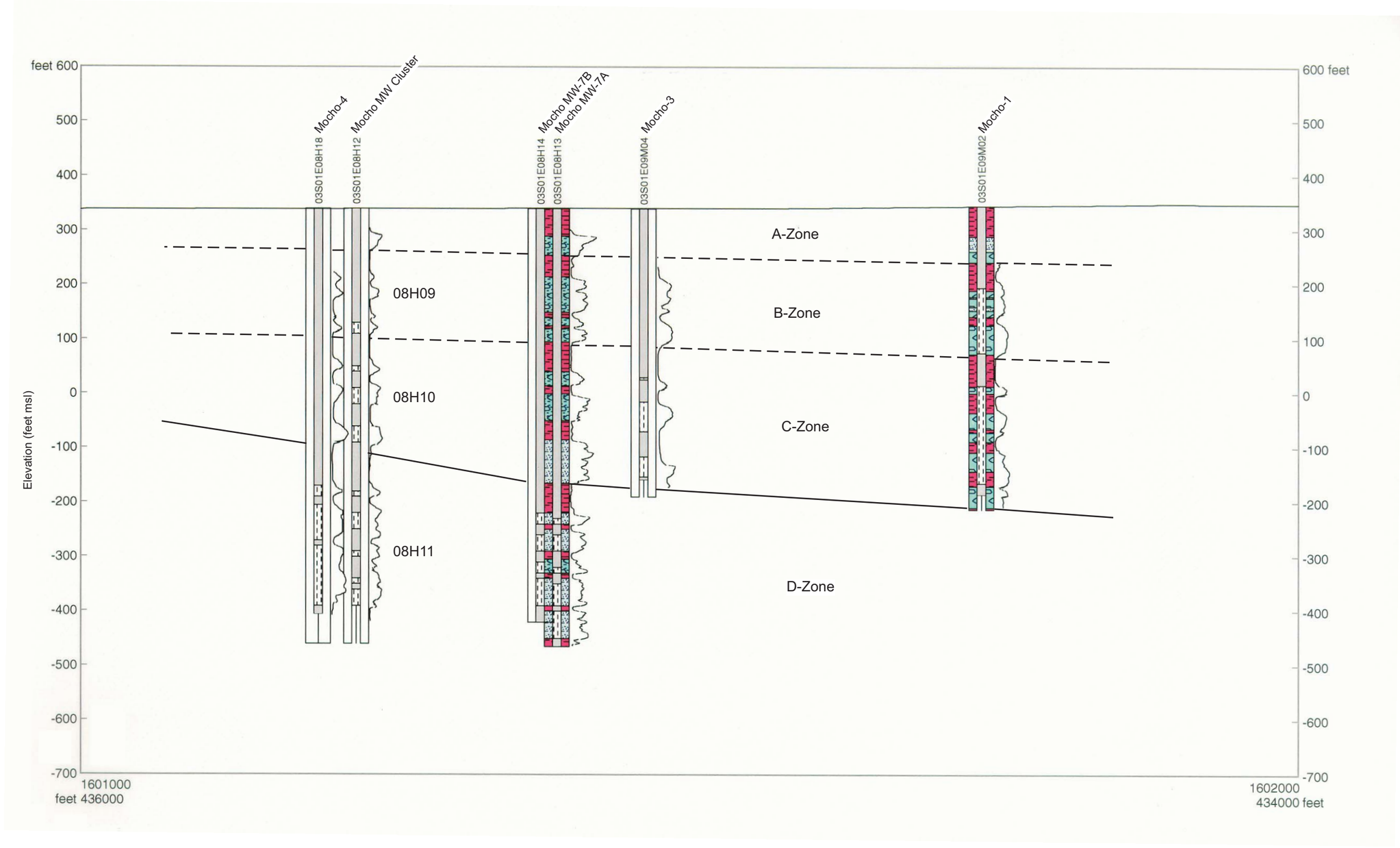


FIGURE 1.1-2
CROSS-SECTION MOCHO WELLFIELD
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

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163304.WM.06_W102003001SFO_Figure 1.1-2 X Sec Mocho-rev_10/10/03_ccc

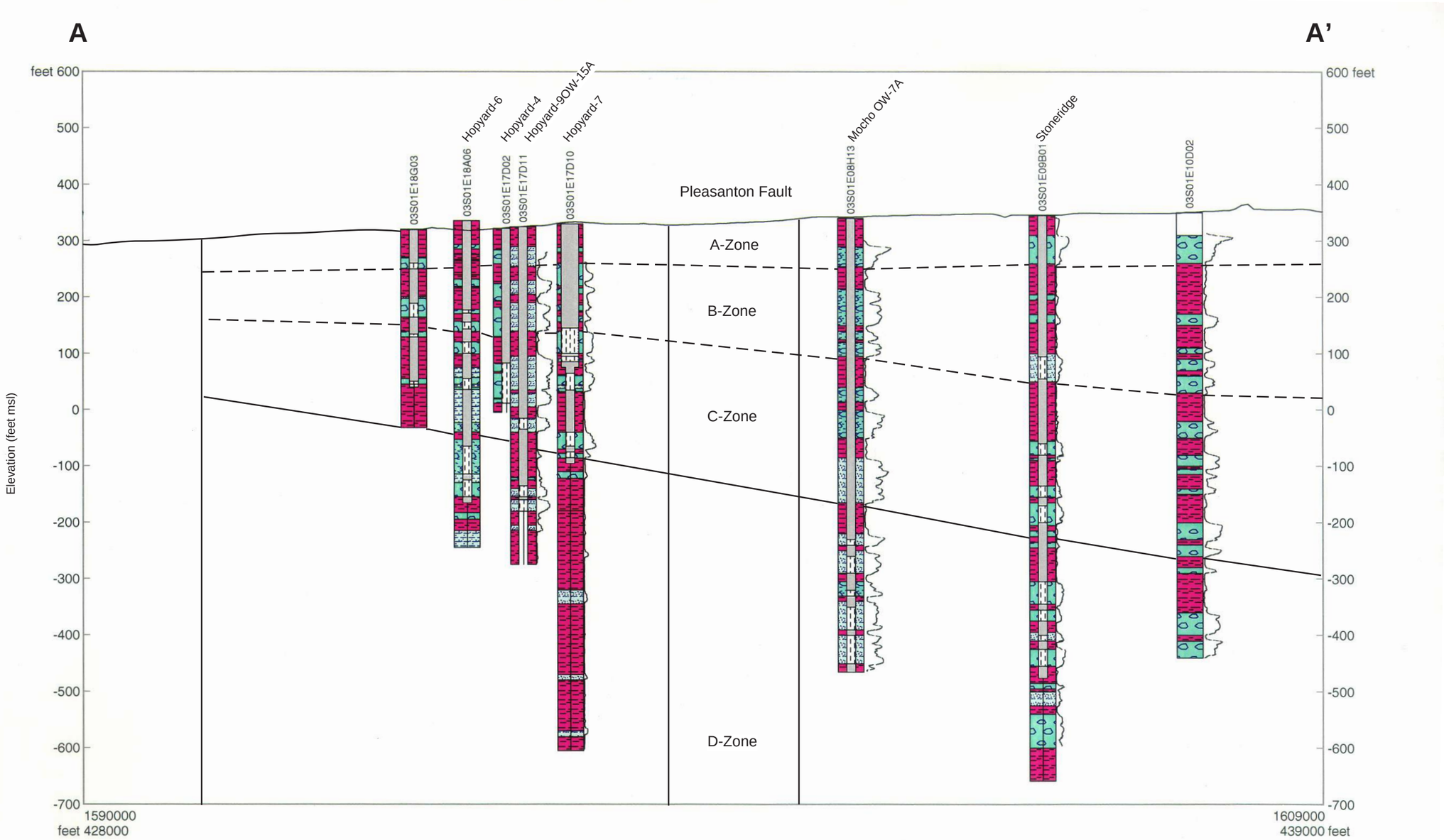

FIGURE 1.1-3
CROSS-SECTION A-A'
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

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B

B ’

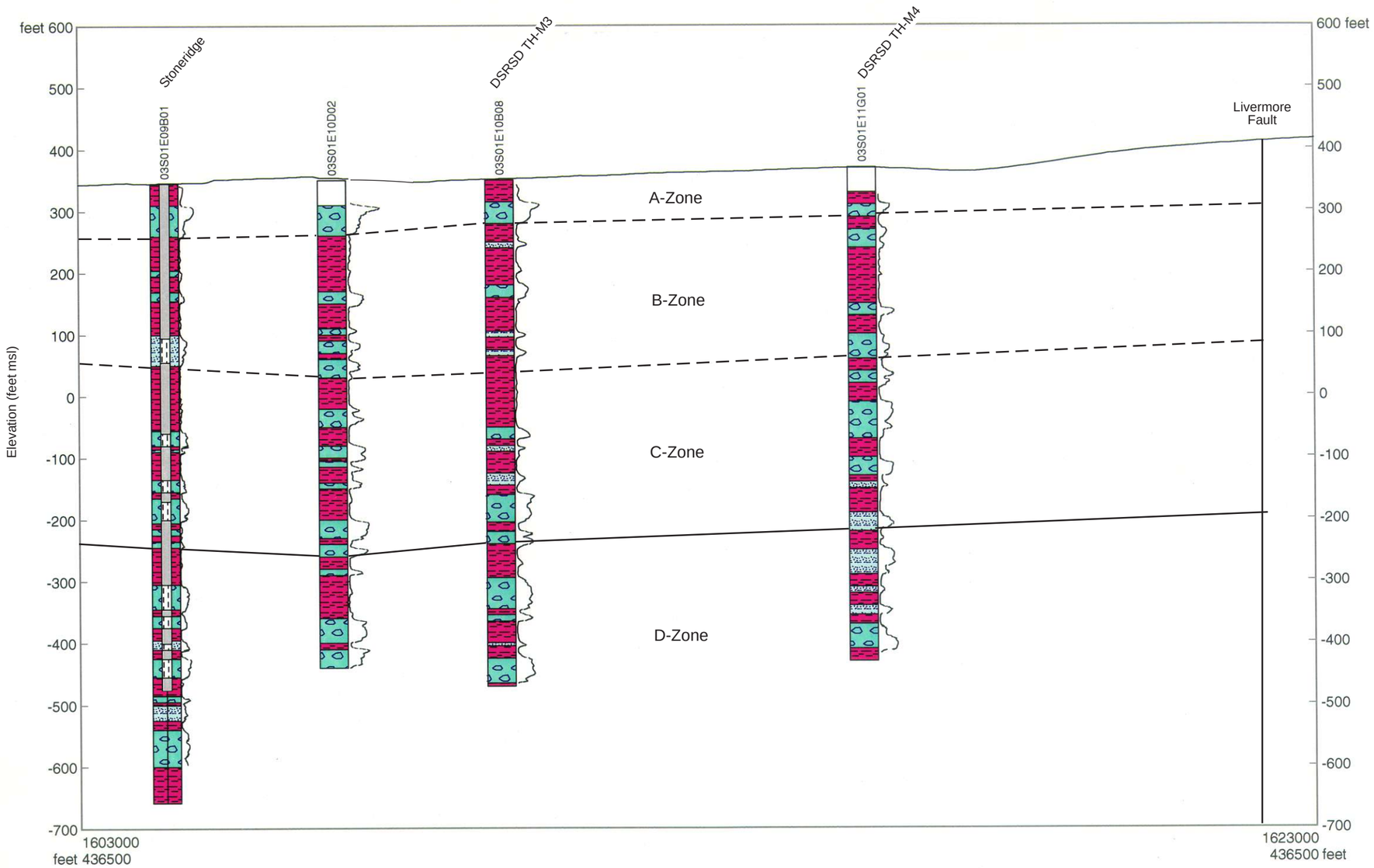

FIGURE 1.1-4
CROSS-SECTION B-B’
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

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163304.WM.06_W102003001SFO_Figure 1.1-4 X Sec B-B_10/10/03_ccc

C

C’

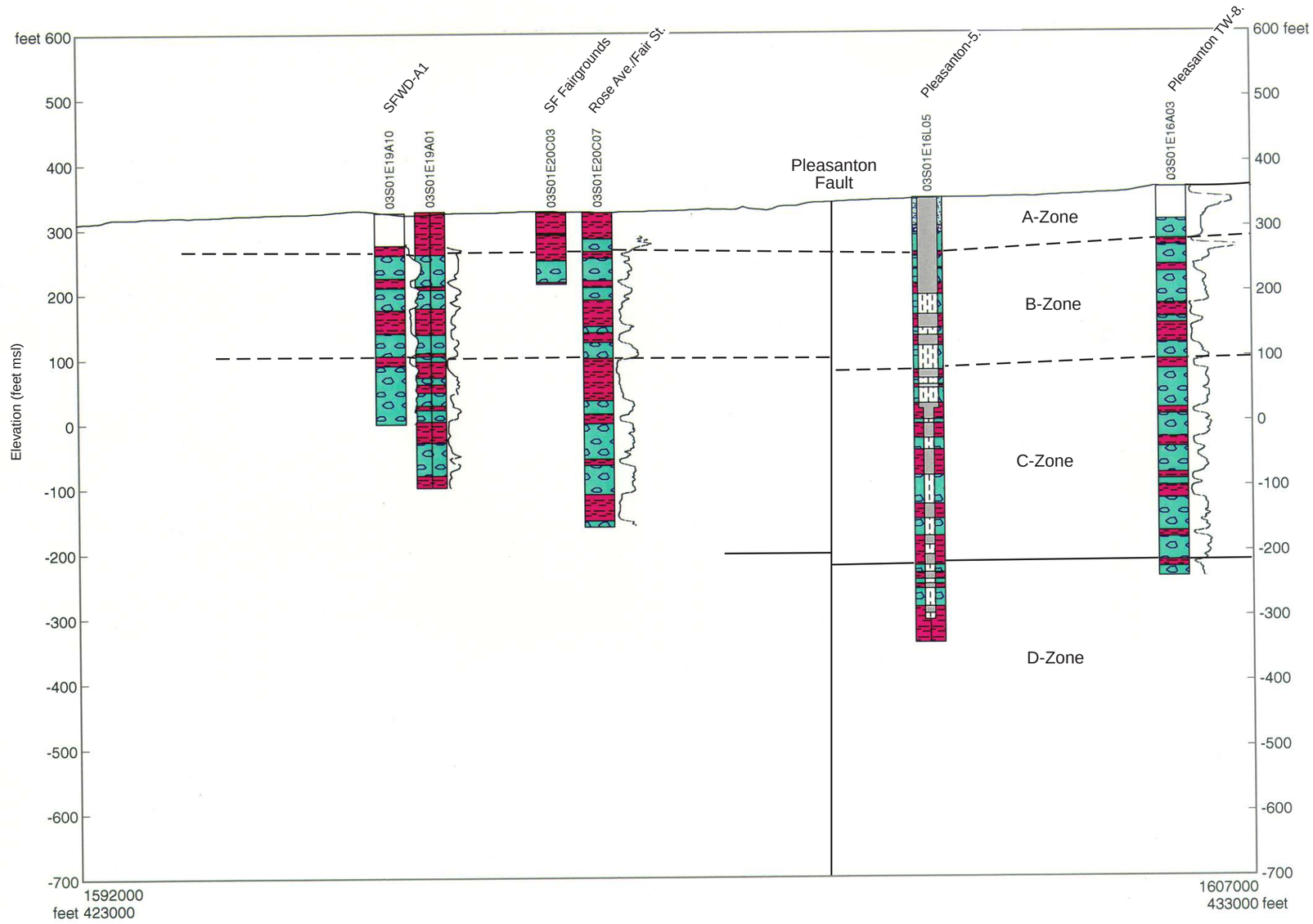

FIGURE 1.1-5
CROSS-SECTION C-C’
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

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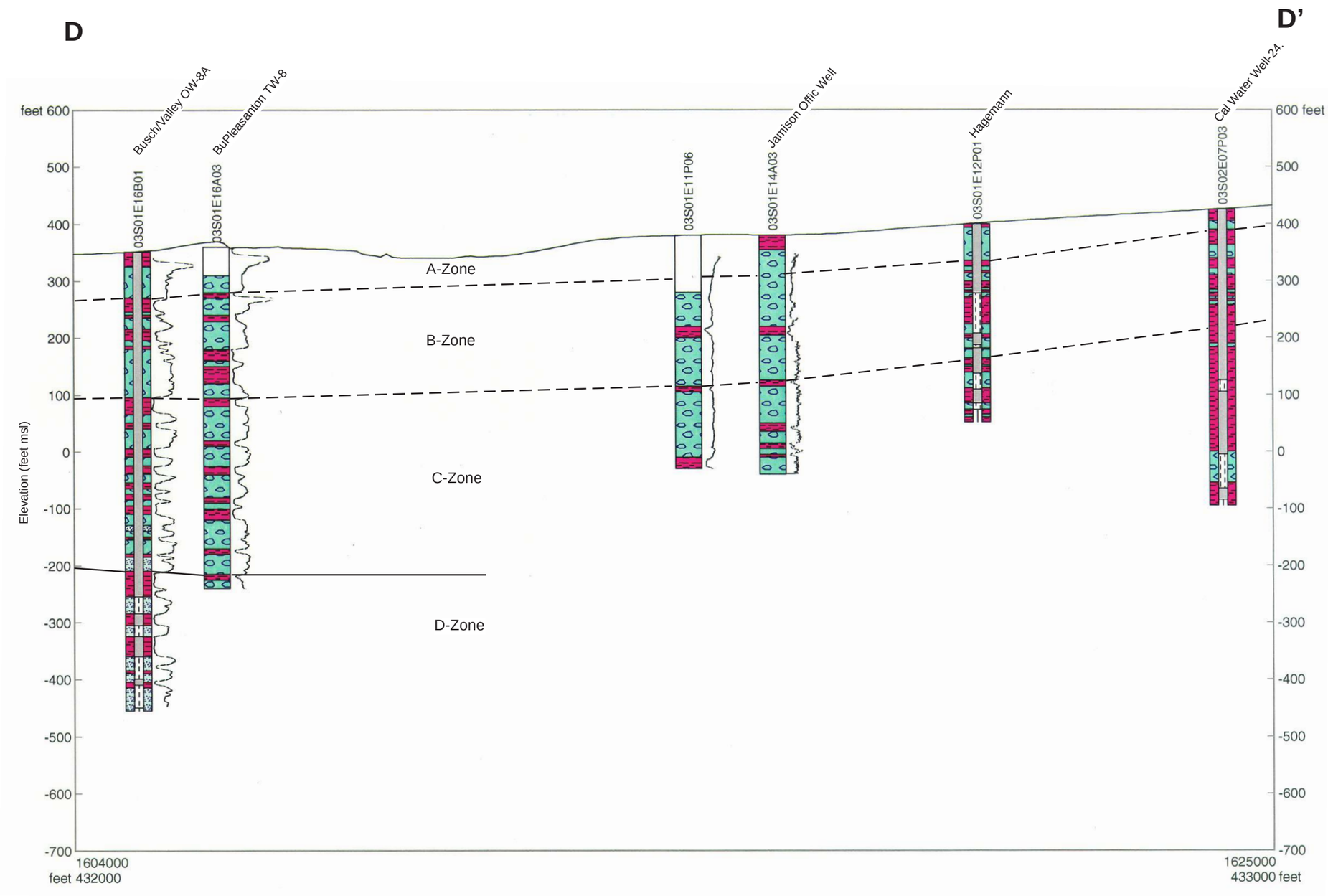

FIGURE 1.1-6
CROSS-SECTION D-D'
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

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E

E’

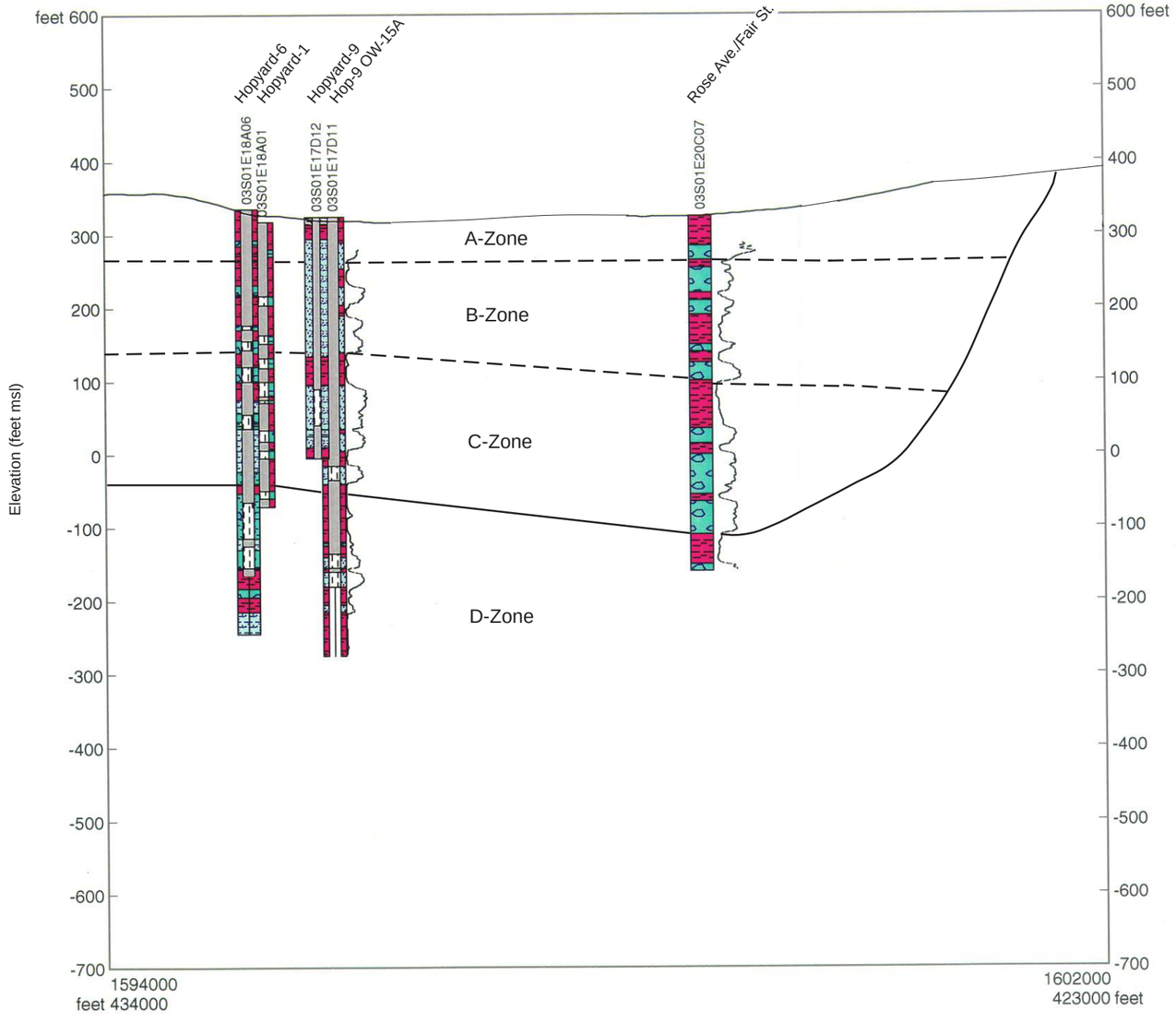

FIGURE 1.1-7
CROSS-SECTION E-E’
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

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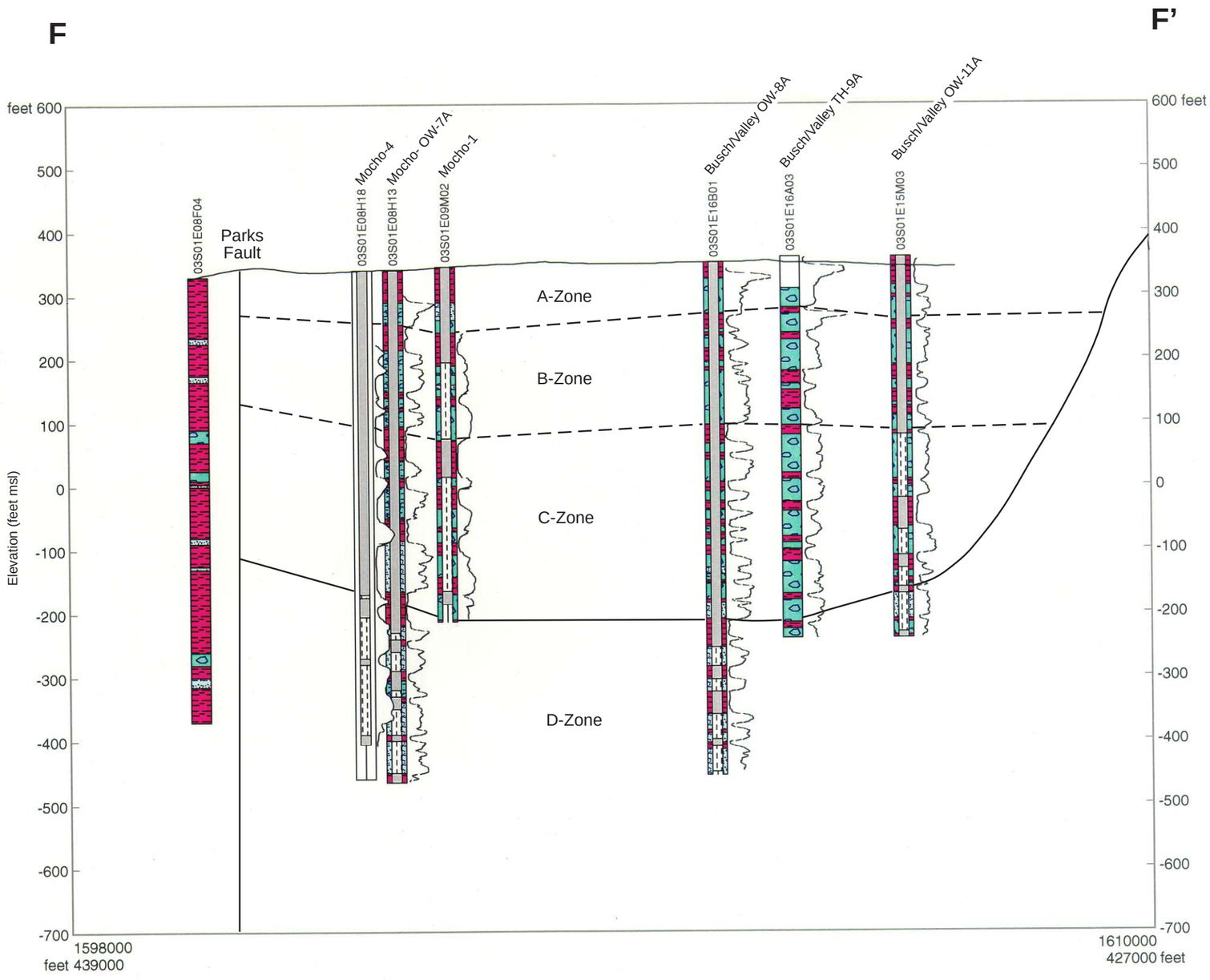

FIGURE 1.1-8
CROSS-SECTION F-F'
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

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G

G’

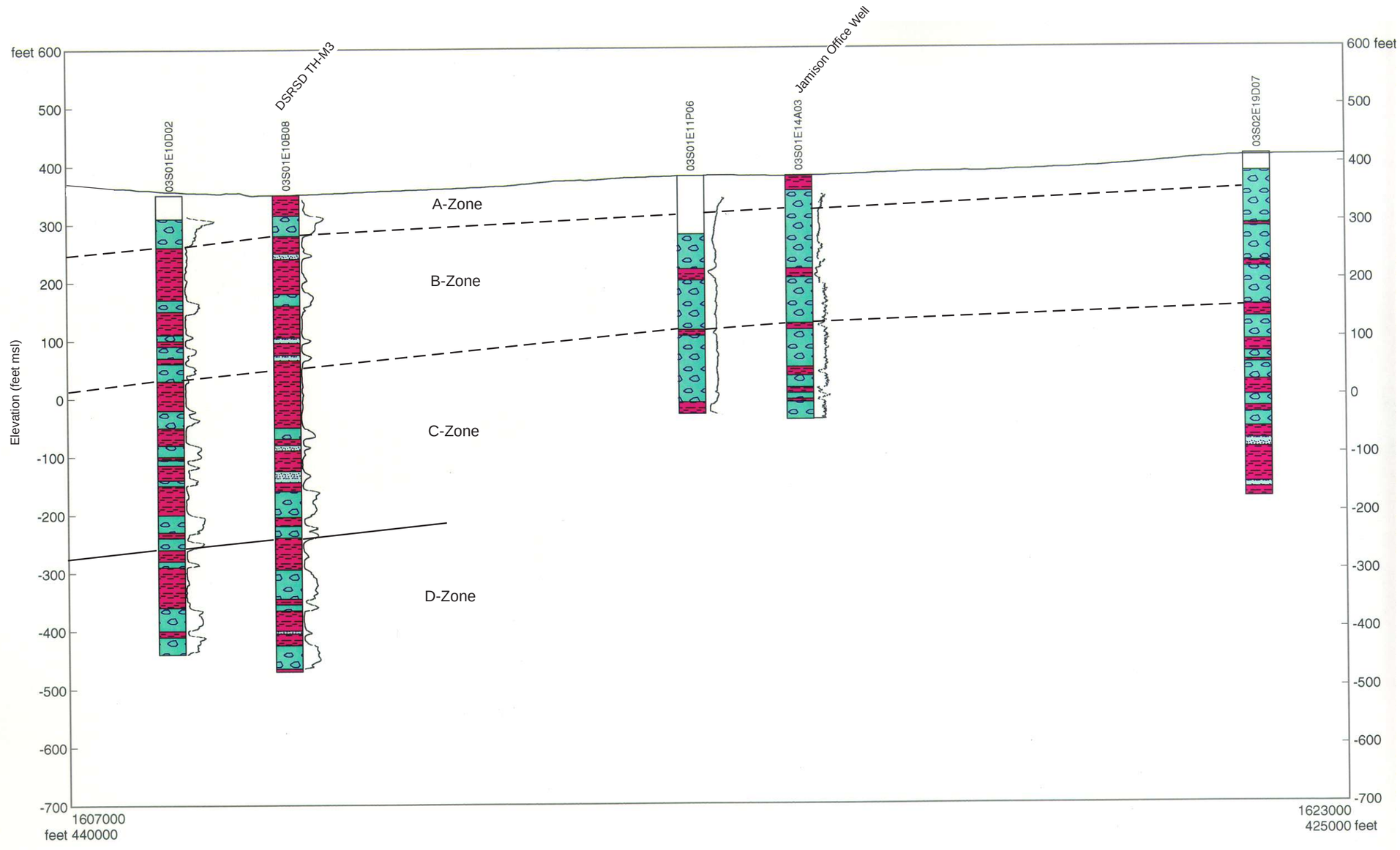


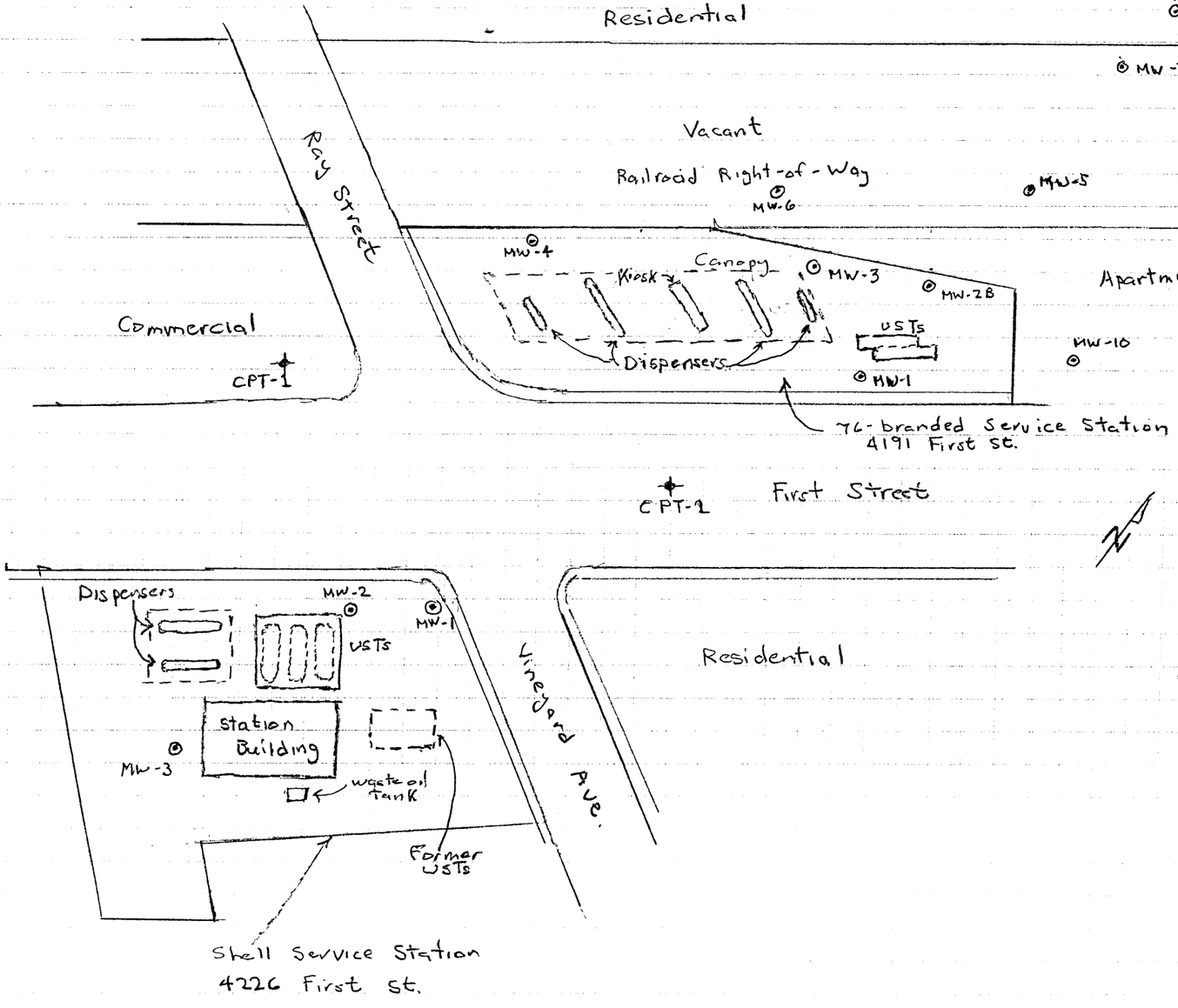
FIGURE 1.1-9
CROSS-SECTION G-G’
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

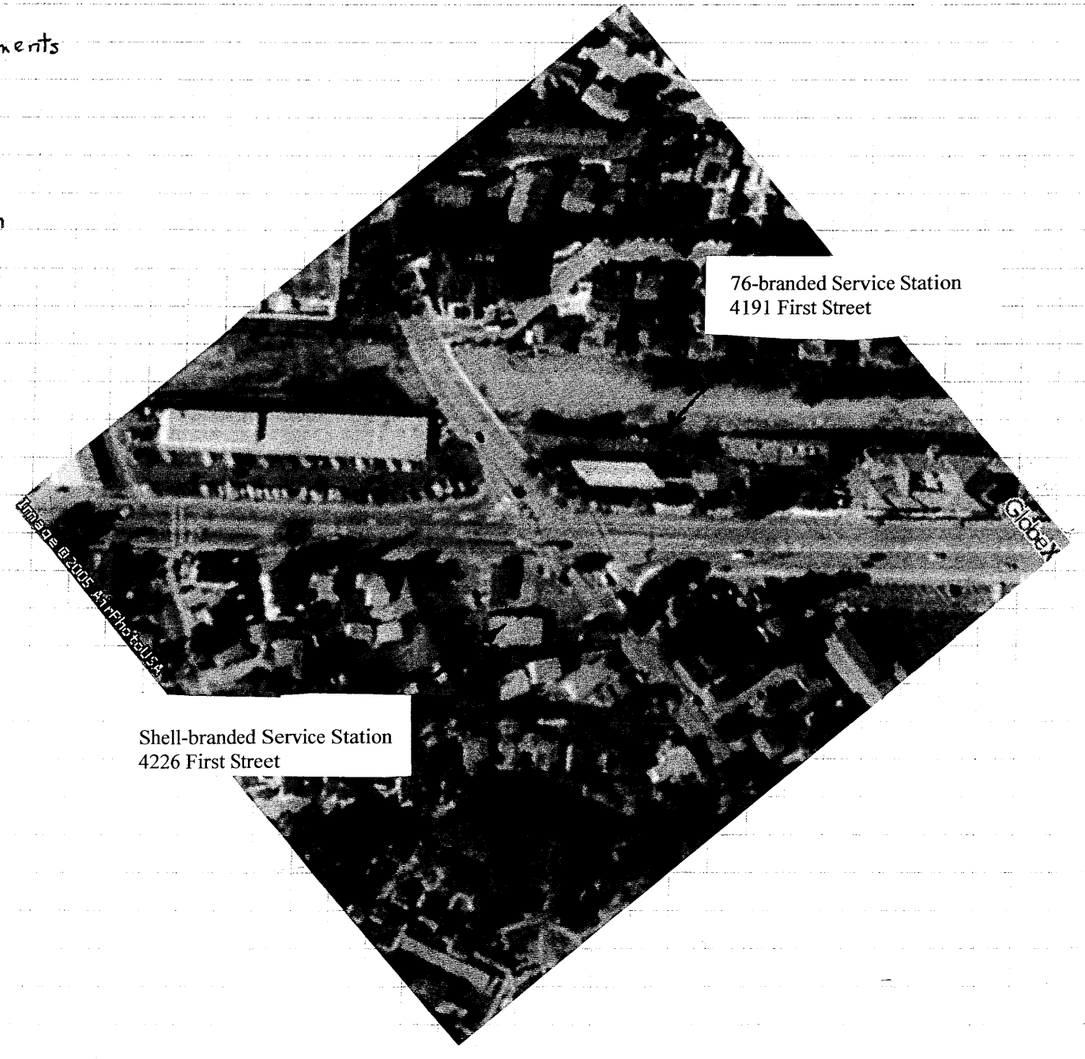
CH2MHILL

The material and data in this report were prepared under the supervision and direction of the undersigned California Certified Hydrogeologist CHG 183.

Delta Environmental Consultants, Inc.

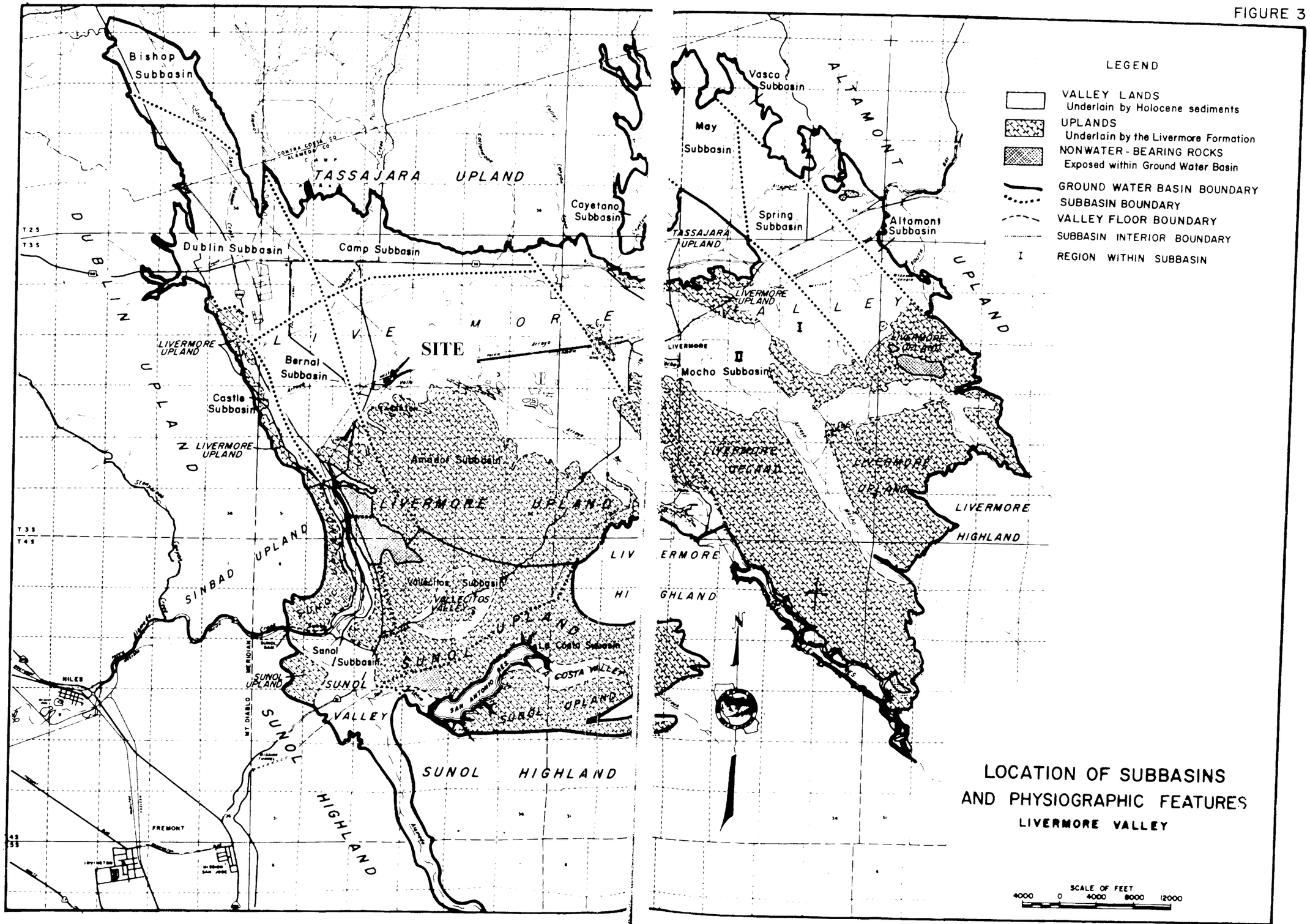
R. Lee Dooley
Project Manager, CHG 183



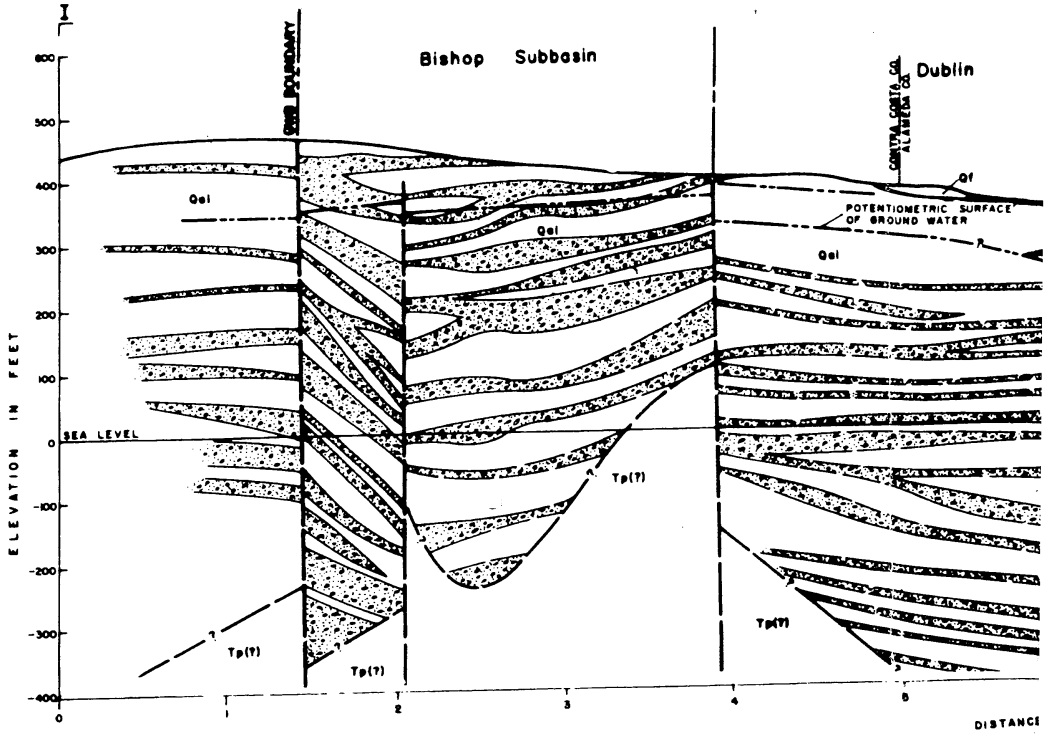


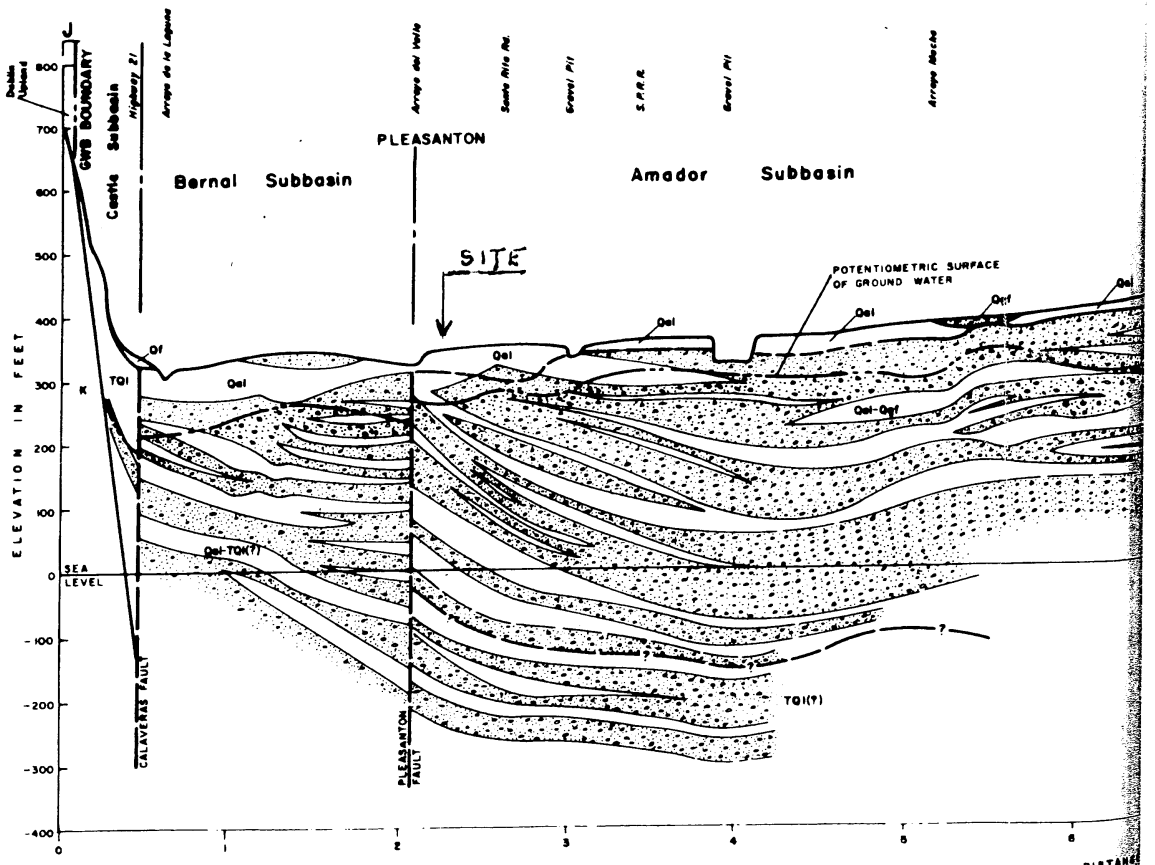
Shell-branded Service Station
4226 First Street, Pleasanton, CA

FIGURE 3



LOCATION OF SUBBASINS AND PHYSIOGRAPHIC FEATURES
LIVERMORE VALLEY

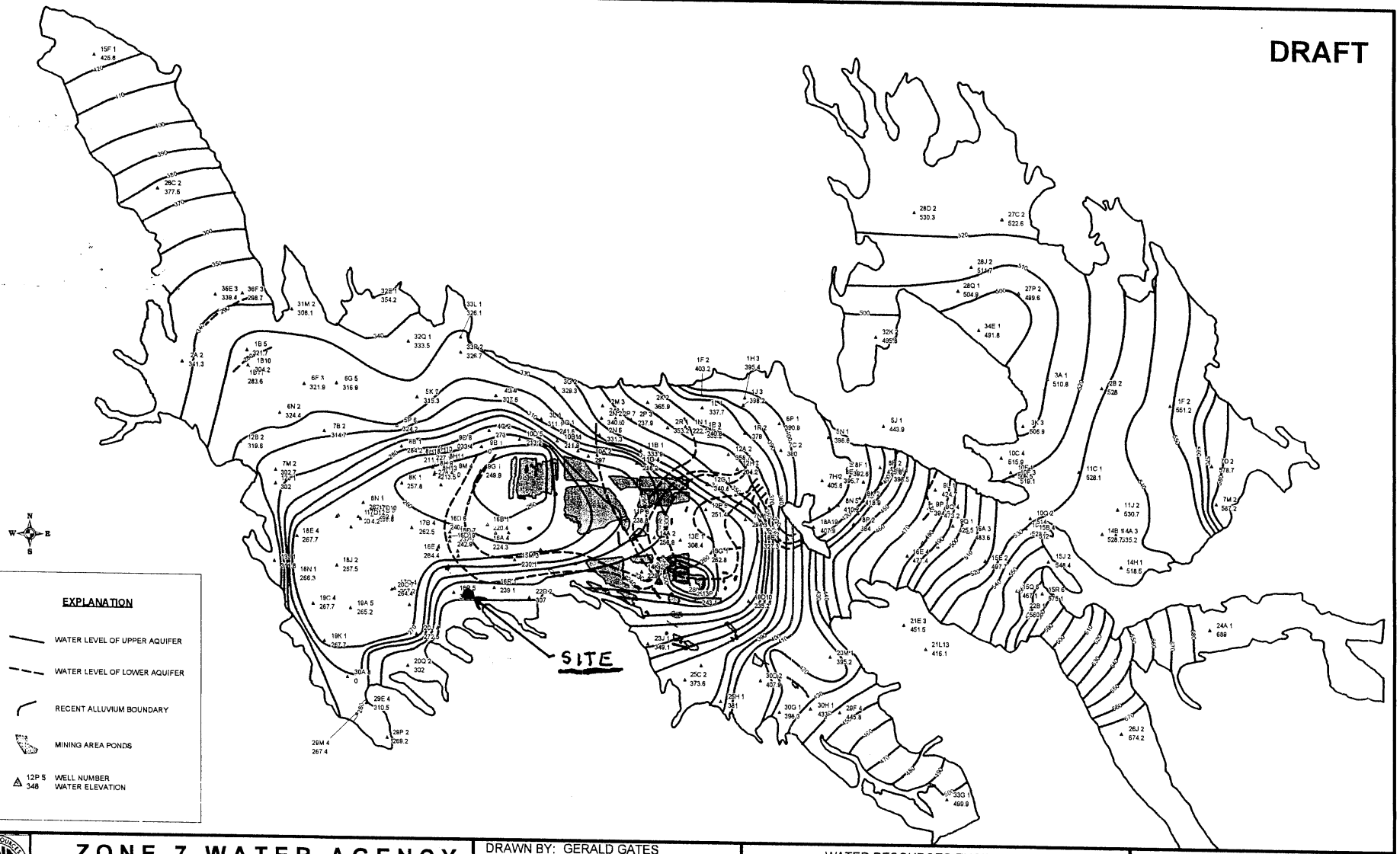




For location of sections, see Fig. 4, Shts. 1, 2 & 3
For legend, see Fig. 5, Sheet 6

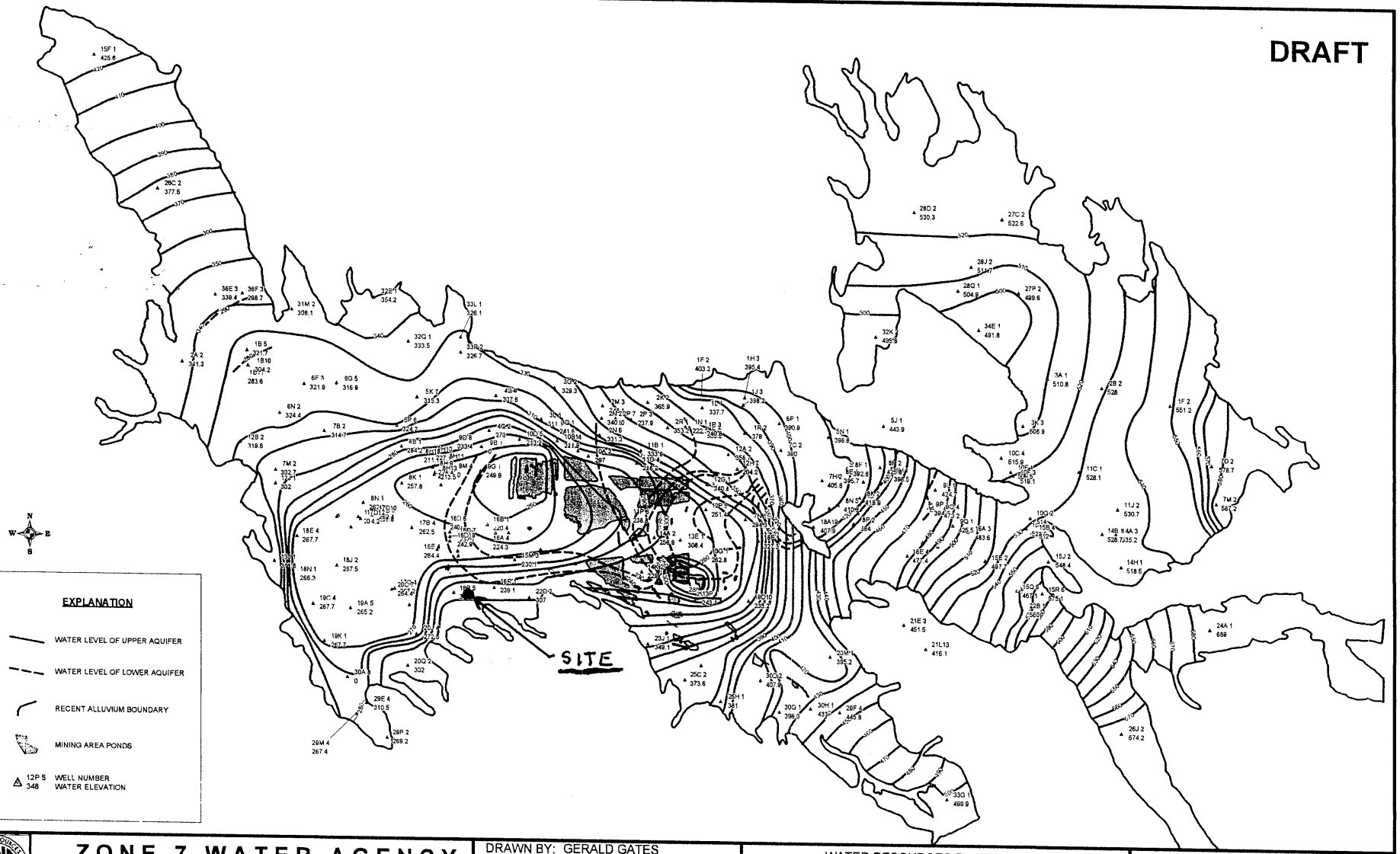
GEOLOGIC SECTIONS

DRAFT



ZONE 7 WATER AGENCY 5997 PARKSIDE DRIVE, PLEASANTON CA 94588	DRAWN BY: GERALD GATES DESIGNED BY: G.GATES/D.LUNN CHECKED BY: APPROVED BY:	WATER RESOURCES ENGINEERING **FALL GROUNDWATER CONTOUR MAP** 2001 WATER YEAR	SCALE: 1" = 6000' DATE: 5 February 2002 FILE NO.: E:\MONITOR\GM\2001WY\SAF01.WOR

DRAFT



ZONE 7 WATER AGENCY 5997 PARKSIDE DRIVE, PLEASANTON CA 94588	DRAWN BY: GERALD GATES DESIGNED BY: G.GATES/D.LUNN CHECKED BY: APPROVED BY:	WATER RESOURCES ENGINEERING **FALL GROUNDWATER CONTOUR MAP** 2001 WATER YEAR	SCALE: 1" = 6000' DATE: 5 February 2002 FILE NO.: E:\MONITOR\GM\2001WY\SAF01.WOR

WORK PLAN
1-24-06
Shell-branded Service Station
4226 First Street
Pleasanton, California

Description of Methods

Delta proposes to further define hydrogeologic conditions in the area by drilling two deep off-site borings.

Delta will obtain drilling permits from the Zone 7 Water District for all proposed borings. Delta will also need to obtain an encroachment from the City of Pleasanton in order drill within First Street. Shell will need to obtain an access agreement from the owner of the property located on the western corner of First and Ray Streets.

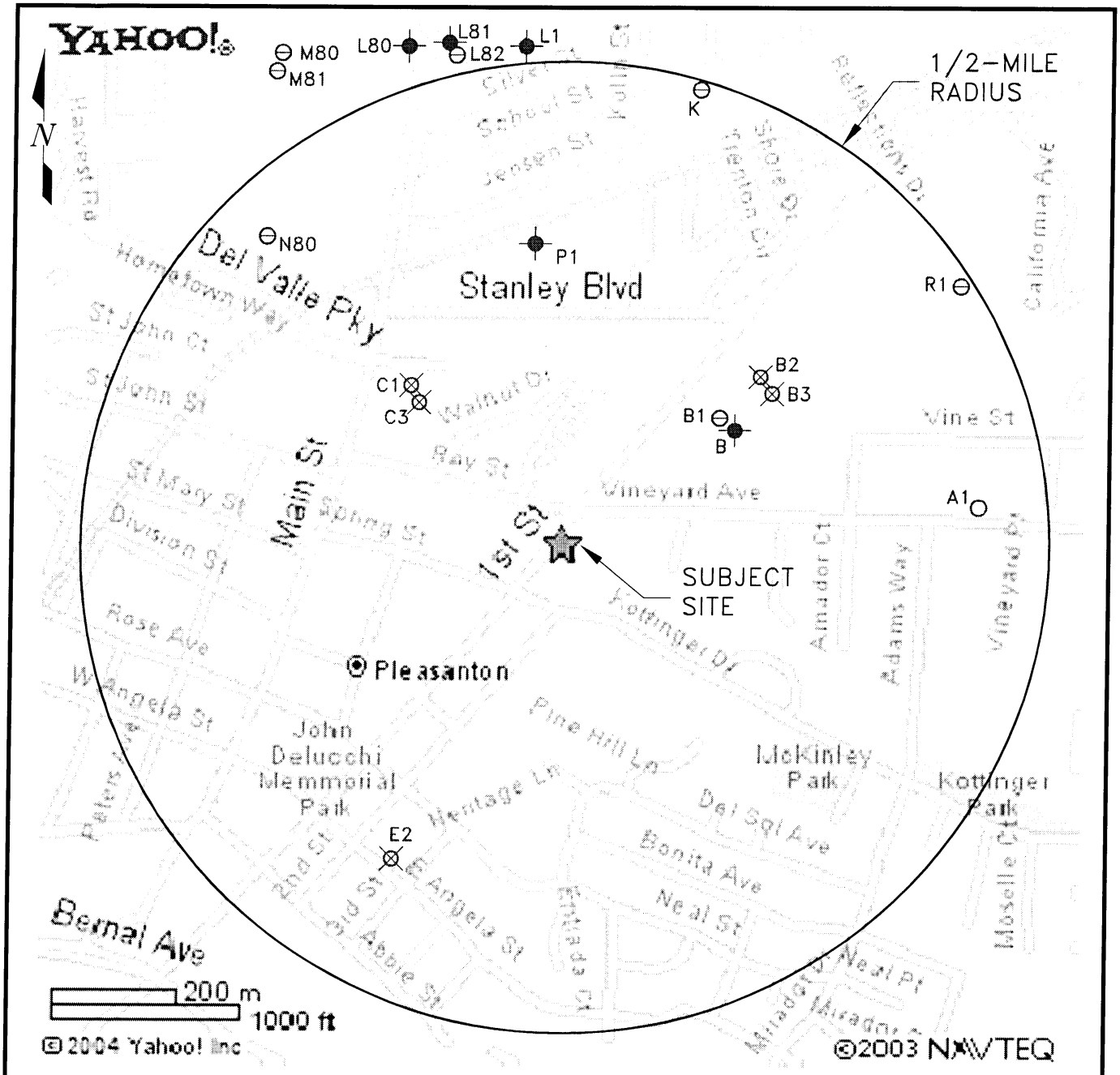
Prior to conducting any field work at the site, Delta will prepare a site specific Health and Safety Plan (HASP). The Delta field geologist on-site will review the HASP with site subcontractors at the start of each work day.

Borings CPT-1 and CPT-2

Delta proposes to two cone penetration test (CPT) borings to define the vertical of extent of petroleum hydrocarbons and fuel oxygenates detected in perched groundwater beneath the site. The borings will also define the lateral and vertical extent of a silt layer encountered beneath the site at a depth of approximately 60 feet. The locations of the CPT borings (CPT-1 and CPT-2) are shown on attached site area map. Soil classification will be based on the cone penetration resistance, sleeve friction, and friction ratio. A soil classification graph will be generated during drilling of the CPT borehole. CPT borings will be advanced to a depth of approximately 100 feet bg. Grout will be pumped into the borehole behind the cone by using a grout collar (retraction grouting).

A second CPT borehole will be drilled at each location for collection of depth discrete groundwater samples. Sand layers throughout the stratigraphic profile will be targeted for sampling. Collection of groundwater samples will be attempted both above and below the silt layer encountered in deep on-site Boring SB-7. A sealed PVC hydropunch screen will be pushed to the desired sampling depth. The push rod will then be retracted exposing the hydropunch screen. Groundwater should flow hydrostatically from the formation into the sampler. The predominance of silt and clay may prevent collection of groundwater samples from some depth intervals. A small diameter stainless steel bailer will be lowered through the hollow push rods, into the screen section for sample collection. The groundwater samples will be transferred to 40-milliliter glass VOA bottles. The bottles will be placed on ice for transportation to the laboratory.

After sample collection, the push rods will be removed from the hole. The rods will be steam cleaned and a new hydropunch screen installed. The sealed screen will then be advanced to the next sampling depth and the above described process repeated. After collection of the final groundwater sample, grout will be pumped through the push rods as they are extracted from the borehole. Groundwater samples will be analyzed for TPH-G, BTEX compounds, MTBE, and TBA by EPA Method 8260B.



Ref. EQ-76.1a/WELL SURVEY.DWG
Basemap from Yahoo Maps, July 2004

PREPARED BY		
TOXICHEM Management Systems, Inc. Environmental & Occupational Health Services	Shell-Branded Service Station 4226 First Street Pleasanton, California	FIGURE: 1
	SITE VICINITY AND WELL SURVEY MAP	PROJECT: EQ-76

Table 4

Well Location Details

Shell-branded Service Station

4226 First Street, Pleasanton

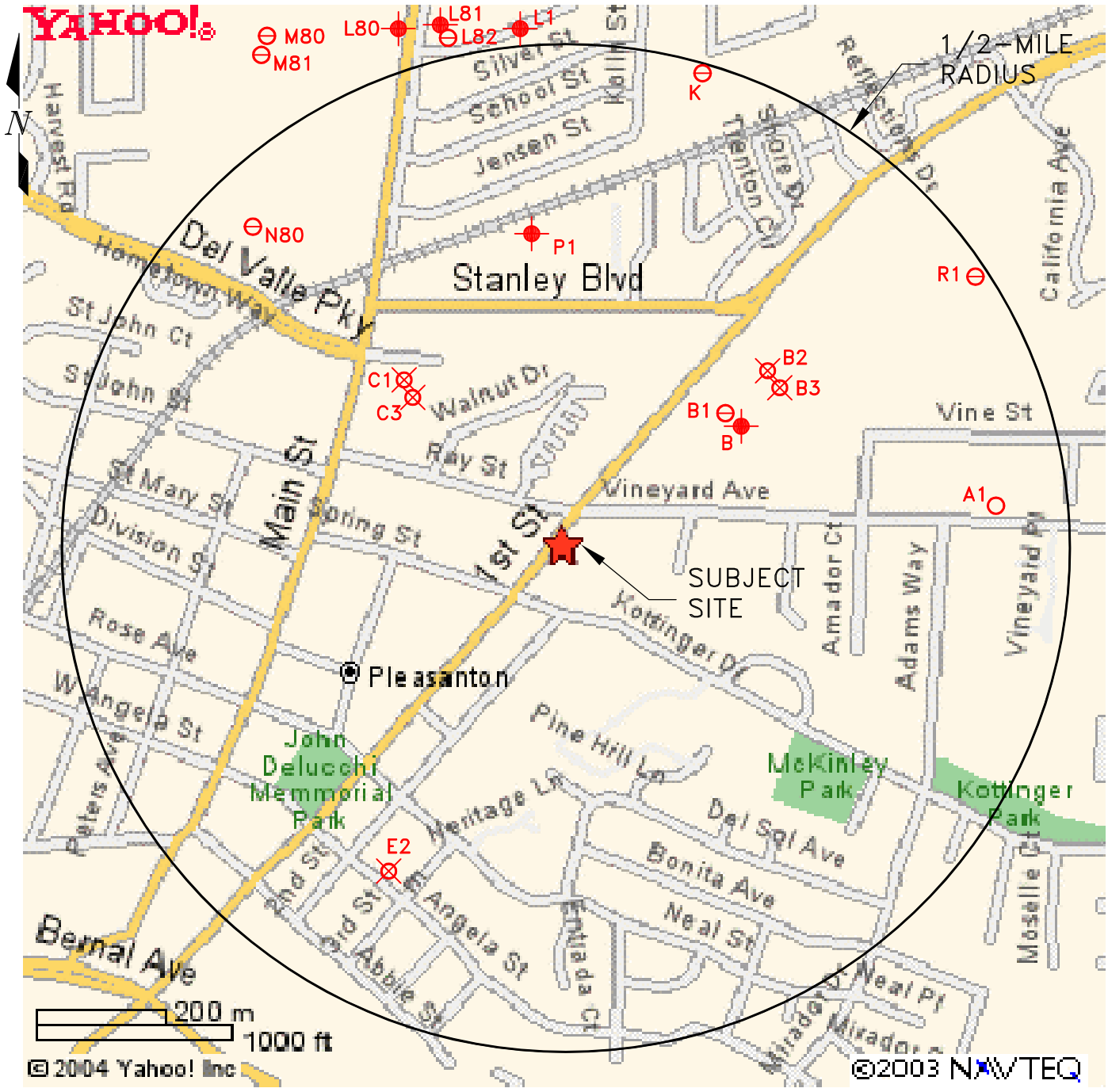
Map Number	Well Number	Source of Information	Well Location	Approximate Distance and Direction from Site (Feet)	Total Depth ft.	Date Installed	Use
K	3S/1E - 16K	DWR	1500' North of Ball Park (according to log)	>2,200 NNE	133	1916	NA
L1	3S/1E - 16L1	DWR	No distances on log, see approximate location on map	>2,200 N	152	1945	Municipal
L80	3S/1E - 16L80	DWR	20'S Blacow South Vine, 150'W of Santa Rita Road	>2,400 NNW	158	1936	Municipal
L81	3S/1E - 16L81	DWR	No distances on log, see approximate location on map	>2,200 N	205	NA	Municipal
L82	3S/1E - 16L82	DWR	No distances on log, see approximate location on map	>2,200 N	45	1912	NA
M80	3S/1E - 16M80	DWR	No distances on log, see approximate location on map	>2,400NNW	33	1912	NA
M81	3S/1E - 16M81	DWR	No distances on log, see approximate location on map	>2,400NNW	37	1912	NA
N80	3S/1E - 16N80	DWR	No distances on log, see approximate location on map	>1,300 NW	178	1912	NA
P1	3S/1E - 16P1	DWR	No distances on log, see approximate location on map	>1,200 N	305	1956	Municipal
A1	3S/1E - 21A1	DWR	No distances on log, see approximate location on map	>1,800 E	262	1954	Domestic
B	3S/1E - 21B	DWR	400'E of First St , 500'N of Vineyard	900'NE	250	1913	Municipal
B1	3S/1E - 21B1	DWR	400'E of First St , 500'N of Vineyard	900'NE	796	1960	Test Well
B2	3S/1E - 21B2	Zone 7	See Map	1200'NE	30	NA	Abandoned Water Well
B3	3S/1E - 21B3	Zone 7	See Map	1200'NE	55	NA	Abandoned Water Well
C1	3S/1E - 21C1	Zone 7	See Map	1,100'NW	57	NA	Abandoned water Well
C3	3S/1E - 21C3	Zone 7	See Map	1,100'NW	NA	NA	Abandoned Water Well
E2	3S/1E - 21E2	Zone 7	See Map	2,000SW	35	NA	Abandoned Water Well
R1	3S/1E - 16R1	Zone 7	See Map	2,600NE	226	NA	Water Production Well

NA = Information Not Available

Table 5
Well Construction Details
Shell-branded Service Station
4226 First Street, Pleasanton

Map Number	Total Depth	Depth to Water (ft. bgs)	Casing Type	Casing Diameter (in.)	Screen Interval (ft. bgs)	Gravel Pack Interval (ft. bgs)	Annular Seal Depth (ft. bgs)	Annular Seal Material	Well Construction Method	Driller's log Number	Pumping Test Rate (gpm)	Test Duration (hours)
K	133	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L1	152	22	12 Gauge	12	56-136	NA	NA	NA	NA	NA	NA	NA
L80	158	NA	NA	NA	48-66 and various to 156'	NA	NA	NA	NA	NA	NA	NA
L81	205	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L82	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M80	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M81	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N80	178	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P1	305	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
A1	262	86	3/16 steel	10	110-178	NA	NA	NA	Cable	NA	33	NA
B	250	NA	NA	12	50-60, 105-135, 188-238	NA	NA	NA	NA	NA	NA	NA
B1	796	NA	NA	NA	NA	NA	NA	NA	Rotary	50865	NA	NA
B2	30	NA	NA	8	NA	NA	NA	NA	NA	NA	NA	NA
B3	55	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA
C1	57	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA
C3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E2	35	NA	Brick	3'2"	NA	NA	NA	NA	NA	NA	NA	NA
R1	226	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA

NA = Information Not Available
ft. bgs = Feet below ground surface
gpm = Gallons per minute



EXPLANATION

- MUNICIPAL WELL
- DOMESTIC WELL
- UNKNOWN WELL
- ABANDONED WELL

Ref. EQ-76.1a/WELL SURVEY.DWG
Basemap from Yahoo Maps, July 2004

PREPARED BY
TOXICHEM Management Systems, Inc.
Environmental & Occupational Health Services

Shell-Branded Service Station
4226 First Street
Pleasanton, California

SITE VICINITY AND WELL SURVEY MAP

FIGURE: 1
PROJECT: EQ-76

Table 4

Well Location Details

Shell-branded Service Station

4226 First Street, Pleasanton

Map Number	Well Number	Source of Information	Well Location	Approximate Distance and Direction from Site (Feet)	Total Depth ft.	Date Installed	Use
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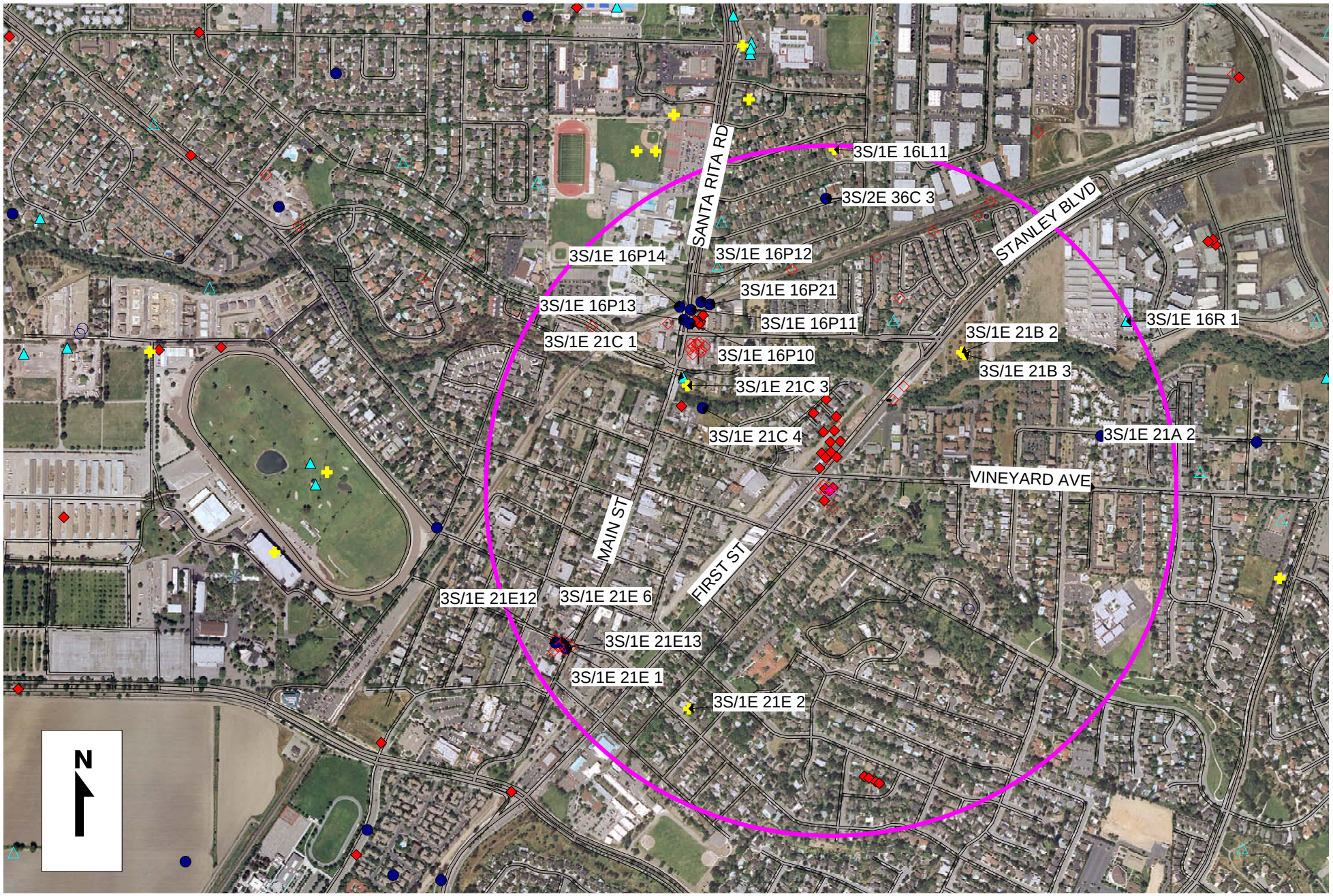
L1	3S/1E - 16L1	DWR	No distances on log, see approximate location on map	>2,200 N	152	1945	Municipal
L80	3S/1E - 16L80	DWR	20'S Blacow South Vine, 150'W of Santa Rita Road	>2,400 NNW	158	1936	Municipal
L81	3S/1E - 16L81	DWR	No distances on log, see approximate location on map	>2,200 N	205	NA	Municipal
L82	3S/1E - 16L82	DWR	No distances on log, see approximate location on map	>2,200 N	45	1912	NA
M80	3S/1E - 16M80	DWR	No distances on log, see approximate location on map	>2,400NNW	33	1912	NA
M81	3S/1E - 16M81	DWR	No distances on log, see approximate location on map	>2,400NNW	37	1912	NA
N80	3S/1E - 16N80	DWR	No distances on log, see approximate location on map	>1,300 NW	178	1912	NA
P1	3S/1E - 16P1	DWR	No distances on log, see approximate location on map	>1,200 N	305	1956	Municipal
A1	3S/1E - 21A1	DWR	No distances on log, see approximate location on map	>1,800 E	262	1954	Domestic
B	3S/1E - 21B	DWR	400'E of First St., 500'N of Vineyard	900'NE	250	1913	Municipal
B1	3S/1E - 21B1	DWR	400'E of First St., 500'N of Vineyard	900'NE	796	1960	Test Well
B2	3S/1E - 21B2	Zone 7	See Map	1200'NE	30	NA	Abandoned Water Well
B3	3S/1E - 21B3	Zone 7	See Map	1200'NE	55	NA	Abandoned Water Well
C1	3S/1E - 21C1	Zone 7	See Map	1,100'NW	57	NA	Abandoned water Well
C3	3S/1E - 21C3	Zone 7	See Map	1,100'NW	NA	NA	Abandoned Water Well
E2	3S/1E - 21E2	Zone 7	See Map	2,000SW	35	NA	Abandoned Water Well
R1	3S/1E - 16R1	Zone 7	See Map	2,600NE	226	NA	Water Production Well

NA = Information Not Available

Table 5
Well Construction Details
Shell-branded Service Station
4226 First Street, Pleasanton

Map Number	Total Depth	Depth to Water (ft. bgs)	Casing Type	Casing Diameter (in.)	Screen Interval (ft. bgs)	Gravel Pack Interval (ft. bgs)	Annular Seal Depth (ft. bgs)	Annular Seal Material	Well Construction Method	Driller's log Number	Pumping Test Rate (gpm)	Test Duration (hours)
K	133	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L1	152	22	12 Gauge	12	56-136	NA	NA	NA	NA	NA	NA	NA
L80	158	NA	NA	NA	48-66 and various to 156'	NA	NA	NA	NA	NA	NA	NA
L81	205	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L82	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M80	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M81	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N80	178	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P1	305	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
A1	262	86	3/16 steel	10	110-178	NA	NA	NA	Cable	NA	33	NA
B	250	NA	NA	12	50-60, 105-135, 188-238	NA	NA	NA	NA	NA	NA	NA
B1	796	NA	NA	NA	NA	NA	NA	NA	Rotary	50865	NA	NA
B2	30	NA	NA	8	NA	NA	NA	NA	NA	NA	NA	NA
B3	55	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA
C1	57	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA
C3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E2	35	NA	Brick	3'2"	NA	NA	NA	NA	NA	NA	NA	NA
R1	226	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA

NA = Information Not Available
ft. bgs = Feet below ground surface
gpm = Gallons per minute



ZONE 7 WATER AGENCY
100 NORTH CANYONS PARKWAY
LIVERMORE, CA 94551

WELL LOCATION MAP

SCALE: 1"= 1000'

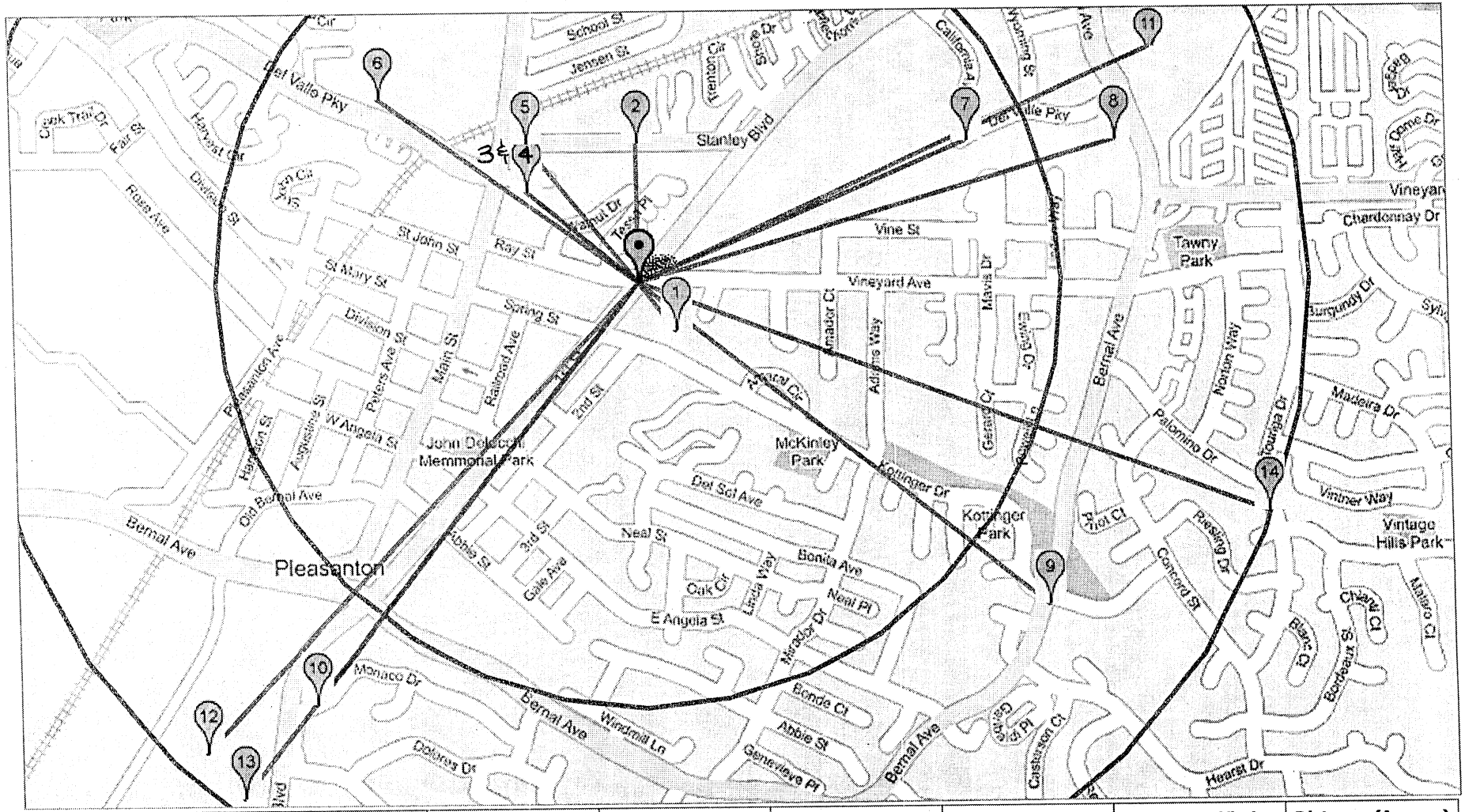
RADIUS = 1/2 mi

4226 FIRST ST
H:\FLOOD\REFERALLS\REFERALLS.WOR

Site #135782

Map is FV-5

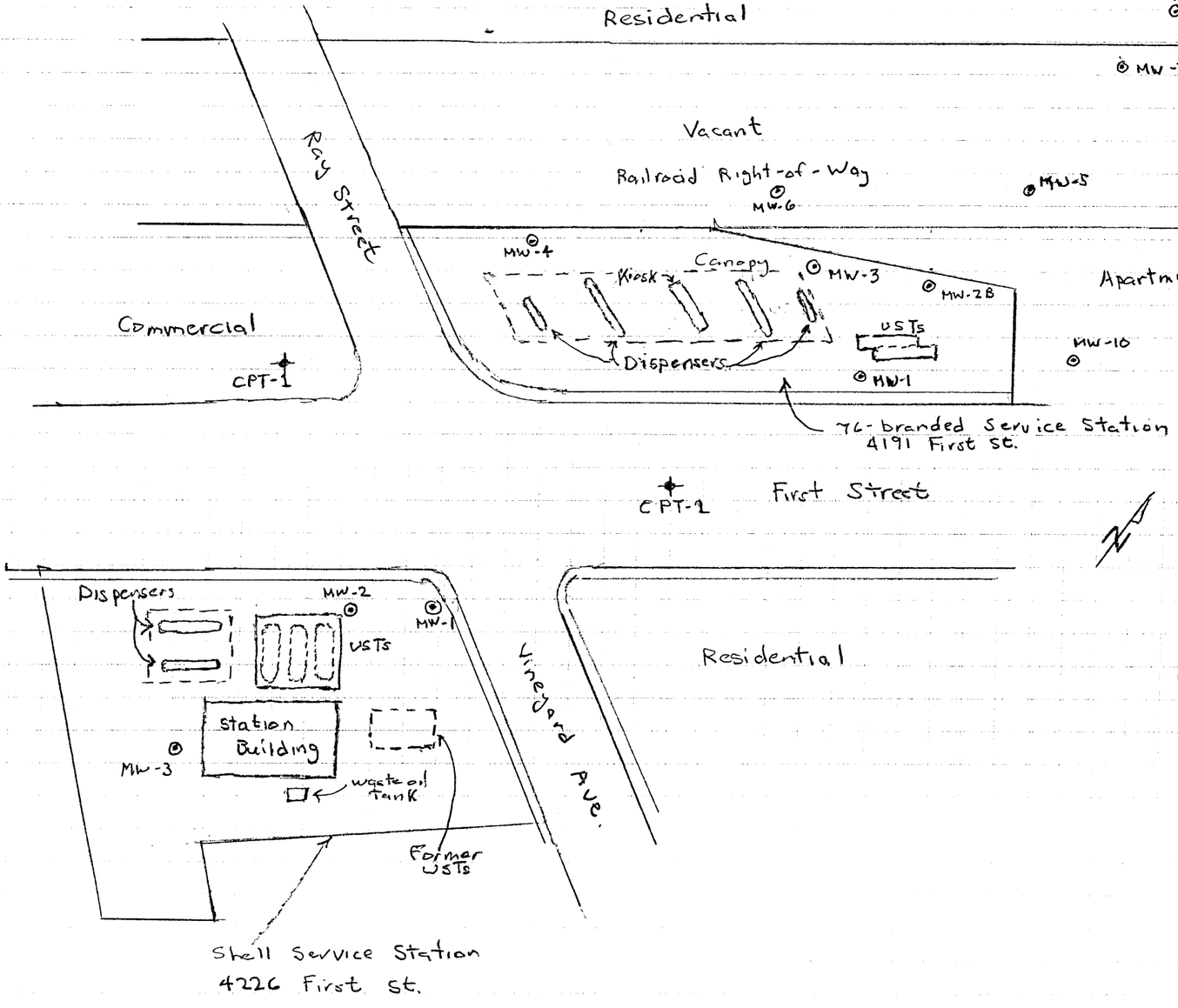
Note:
All distances are approximate
Only the closest 100 receptors are displayed
Receptors without a latitude and longitude will not be displayed

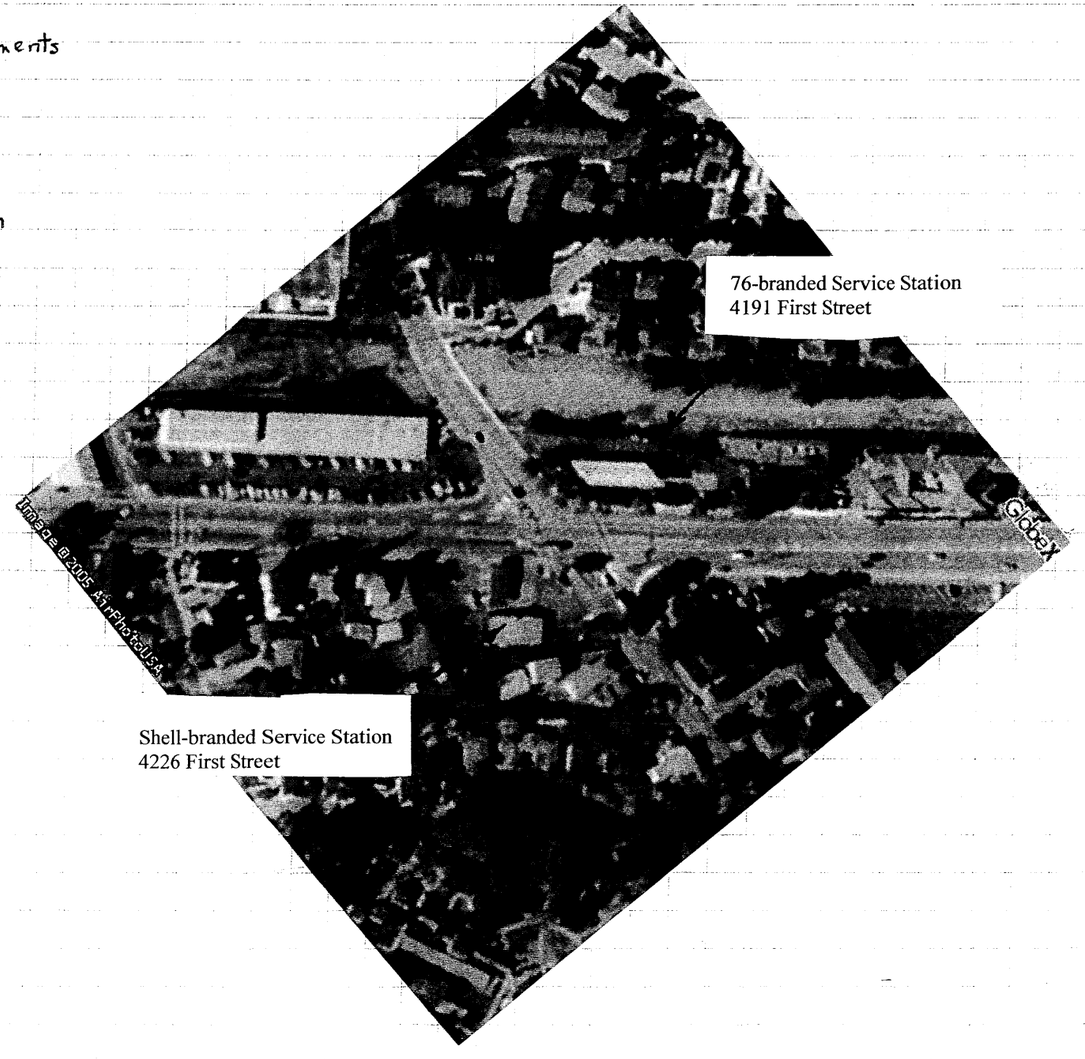


	Name	Type	Latitude	Longitude	Office Identified	Owner Verified	Field Verified	Distance (Approx)

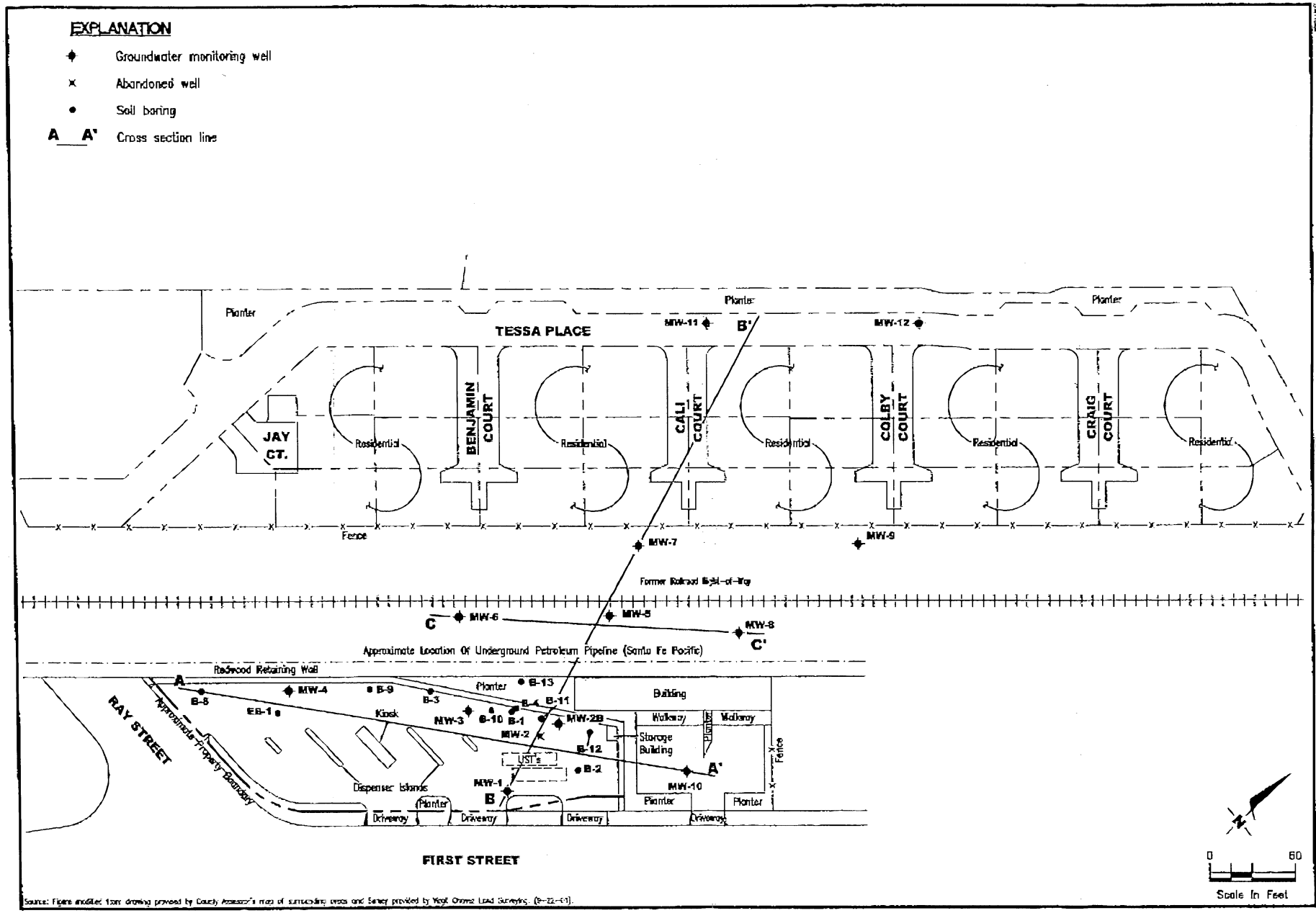
1	Irrigation Canal? (a)	Surface Water Body	37.662	-121.869	Yes	No	Verified	465.78 FT
2	Unocal (LUFT)	Other [internal only]	37.666	-121.870	Yes	No	Verified	1095.61 FT
3	Arroyo Del Valle	Surface Water Body	37.665	-121.873	Yes	No	Verified	1133.89 FT
4	3S/1E 21C4	Other Well	37.665	-121.873	Yes	No	Verified	1133.89 FT
5	Mobil (LUFT)	Other [internal only]	37.666	-121.873	Yes	No	Verified	1397.34 FT
6	N80	Other Well	37.667	-121.877	Yes	No	Verified	2495.83 FT
7	Creek	Surface Water Body	37.666	-121.861	No	No	Verified	2823.13 FT
8	Fire Department	Other Well	37.666	-121.857	No	No	Verified	3914.69 FT
9	Seasonal Water Basin	Surface Water Body	37.656	-121.859	No	No	Verified	4080.37 FT
10	Semipermanent Water Body (a)	Surface Water Body	37.654	-121.879	Yes	No	Verified	4192.15 FT
11	Temporary Water Body (d)	Surface Water Body	37.668	-121.856	Yes	No	Verified	4440.15 FT
12	Dry Creek Designed for Rain Runoff	Surface Water Body	37.653	-121.882	No	No	Verified	5037.31 FT
13	Semipermanent Water Body (b)	Surface Water Body	37.652	-121.881	Yes	No	Verified	5123.76 FT
14	Irrigation Canal? (b)	Surface Water Body	37.658	-121.853	Yes	No	Verified	5243.15 FT

Note: only the closest 100 receptors are displayed





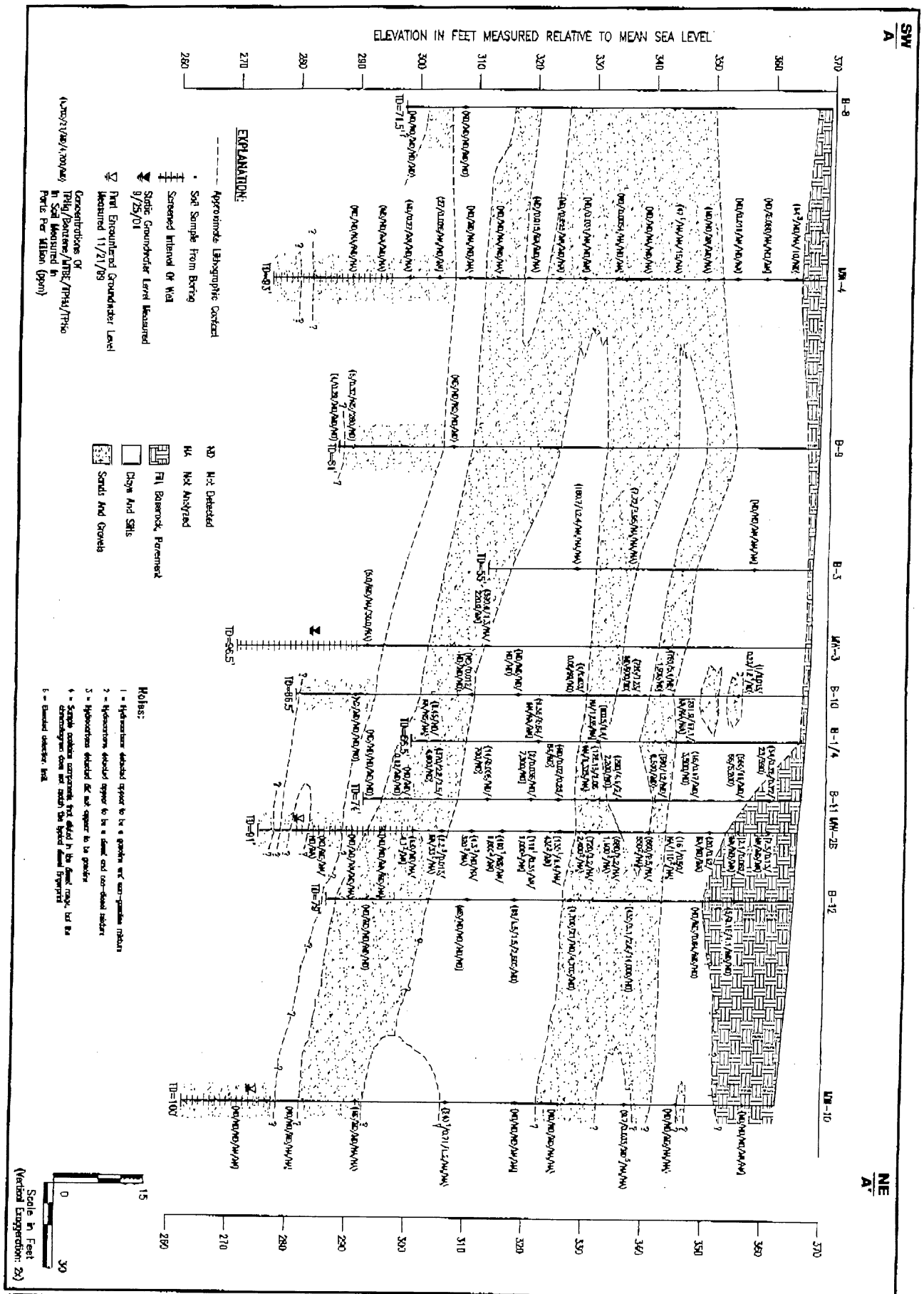
Shell-branded Service Station
4226 First Street, Pleasanton, CA



Source: Figure modified from drawing provided by County Assessor's map of surrounding areas and Survey provided by West Coast Land Surveying, (9-22-01).

Post-It™ brand fax transmittal memo 7671 | # of pages ▸

To Lee Dooley	From Jerry Wickham
Co. Delta	Co. Alameda County
Dept.	Phone # 510-567-6791
Fax # 408-225-8506	Fax # 510-337-9335



GETTLER-RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

CROSS SECTION A-A'
Tosco (76) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE
3

PROJECT NUMBER
140107

REVIEWED BY

DATE
10/98

REVISED DATE
5/00

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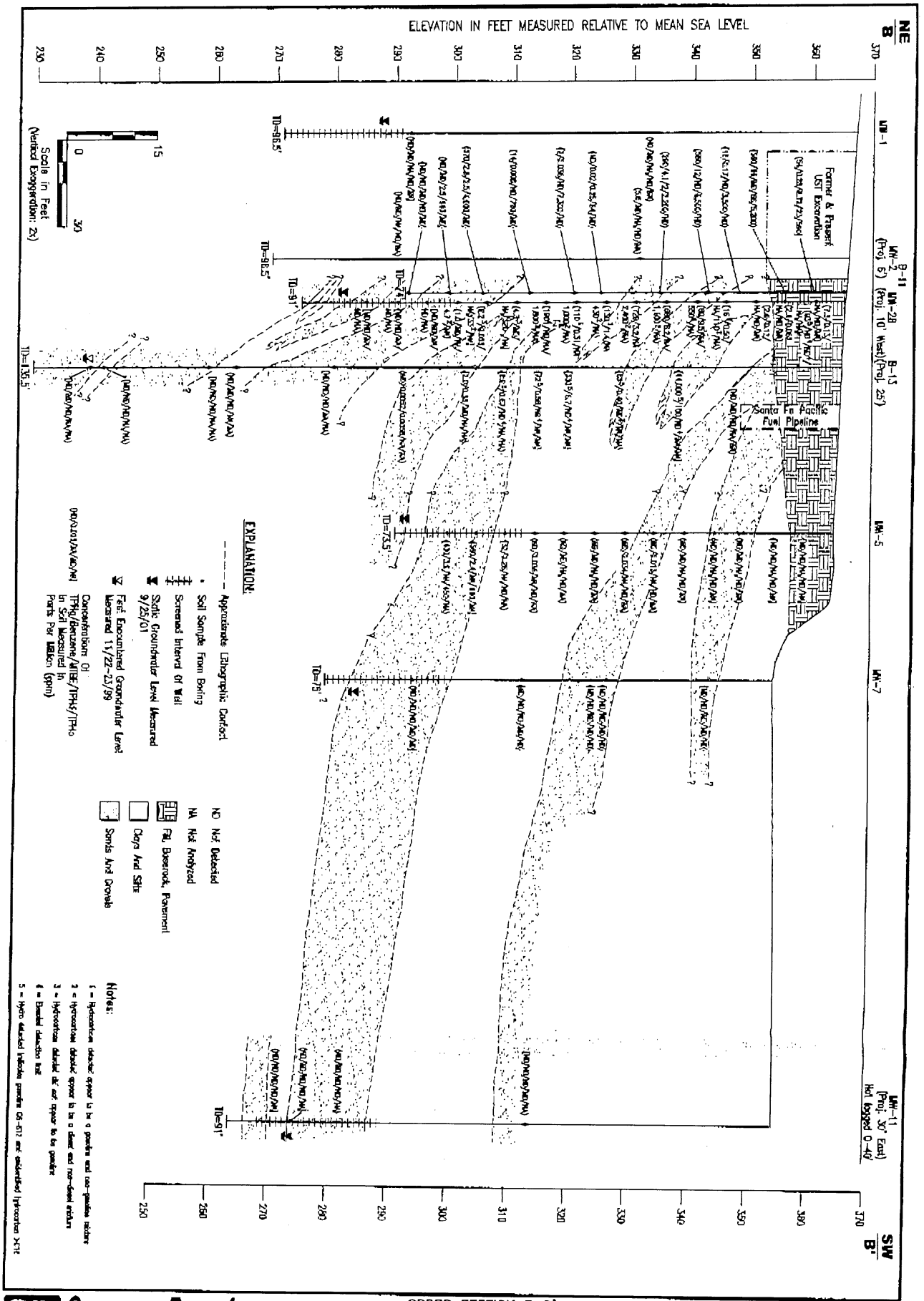

GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

CROSS SECTION B-B'
Tosco (76) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE 4

PROJECT NUMBER 140107
REVIEWED BY
DATE 10/98
REVISED DATE 5/00 & 10/01

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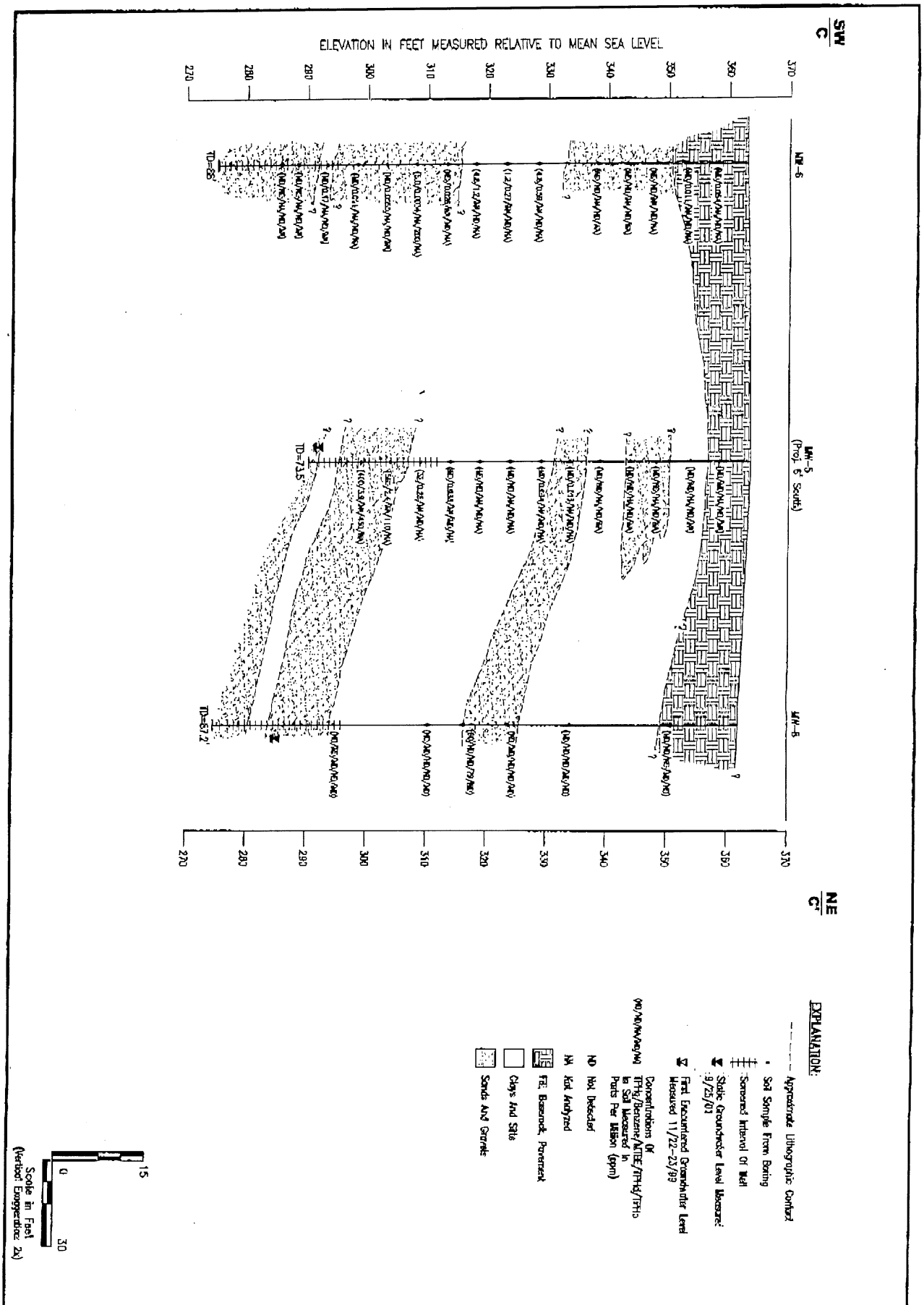

GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

CROSS SECTION C-C'
Tosco (76) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE
5

PROJECT NUMBER
140107

REVIEWED BY

DATE
10/01

REVISED DATE

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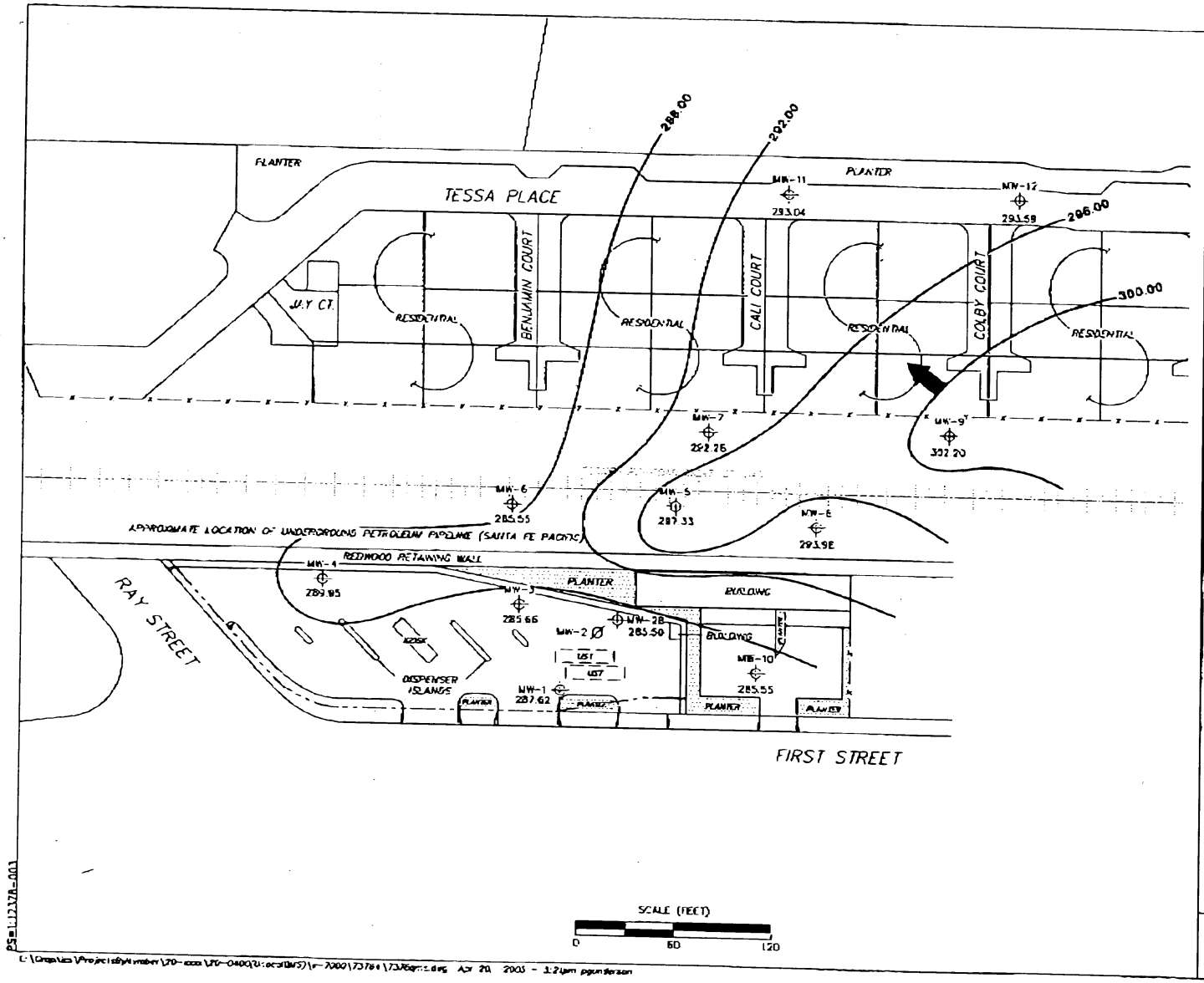


LEGEND

MW-12 ⊕ Monitoring Well with Groundwater Elevation (feet)

MW-2 Ø Abandoned well

300.00 Groundwater Elevation Contour

General Direction of Groundwater Flow

NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

GROUNDWATER ELEVATION CONTOUR MAP
March 17, 2005

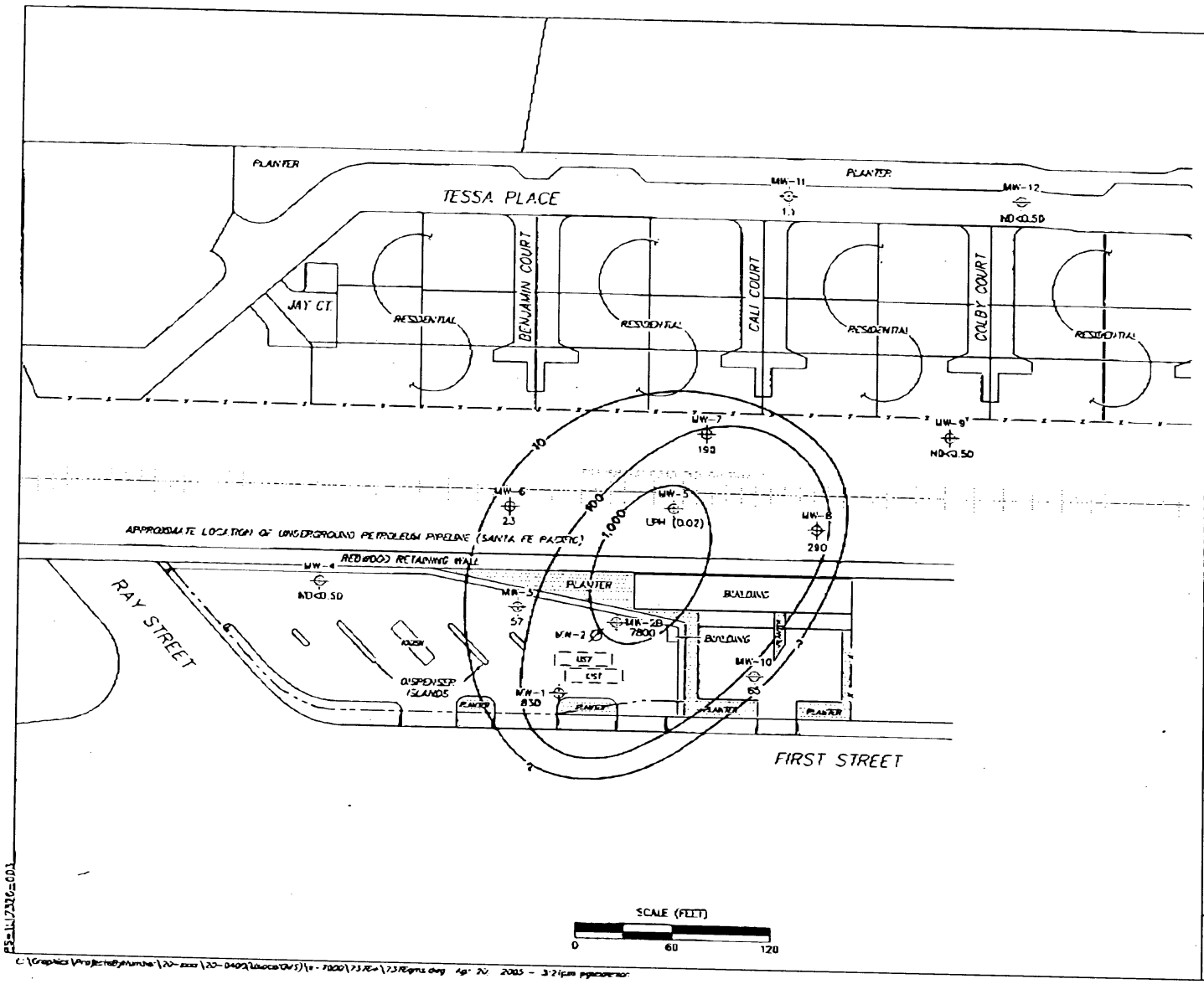
76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 4

To Lee Dooley	From Jerry Wickham
Co. Delta	Co. Alameda County
Dept.	Phone # 510-567-6791
Fax # 408-225-8506	Fax # 510-337-9335



LEGEND

MW-12 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l) or LPH thickness (feet)

MW-2 Ø Abandoned well

1,000 Dissolved-Phase MTBE Contour (µg/l)

NOTES:

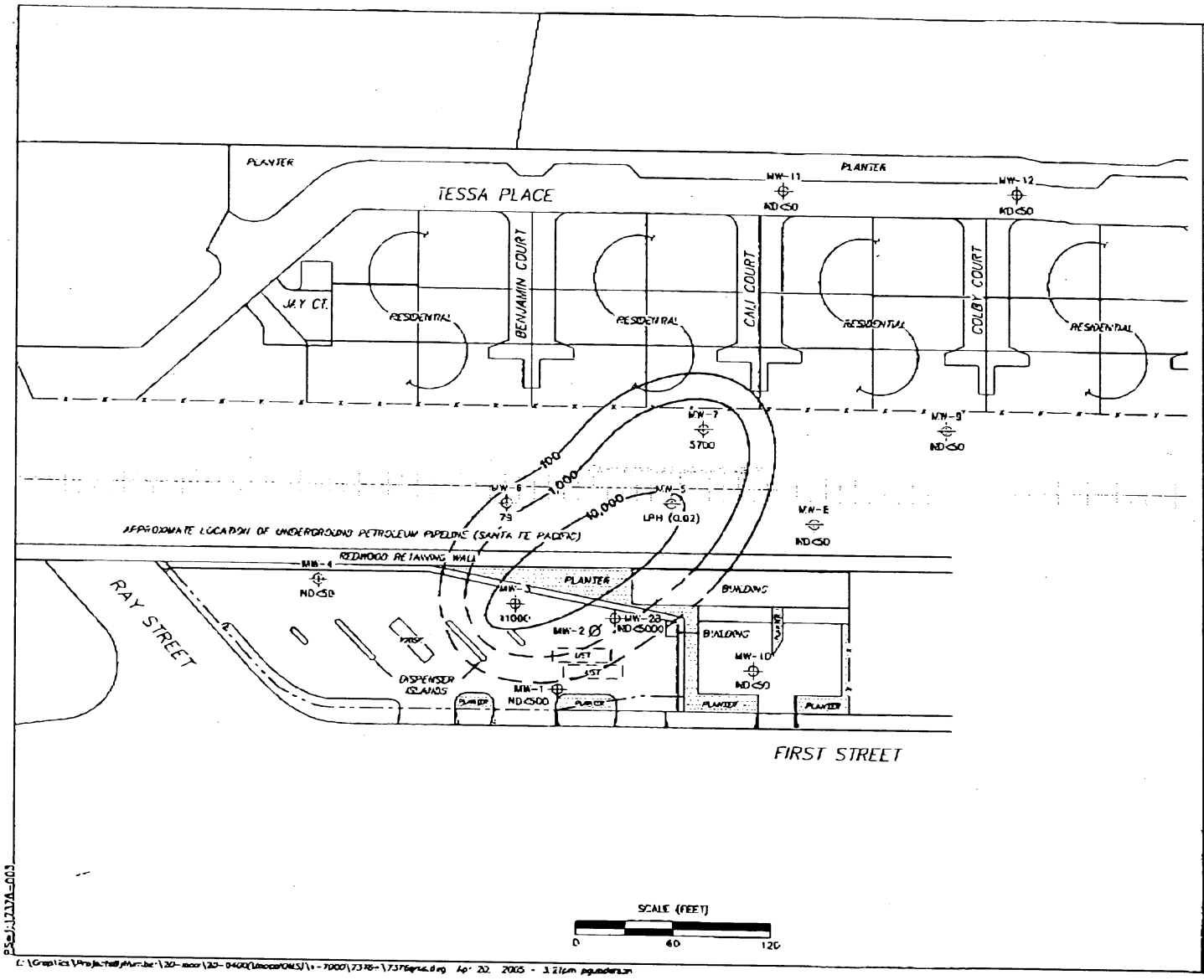
Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. LPH = liquid-phase hydrocarbons. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE MTBE CONCENTRATION MAP
March 17, 2005

76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 5



N

LEGEND

MW-12 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l) or LPH thickness (feet)

MW-2 Ø Abandoned well

—10,000— Dissolved-Phase TPPH Contour (µg/l)

NOTES:

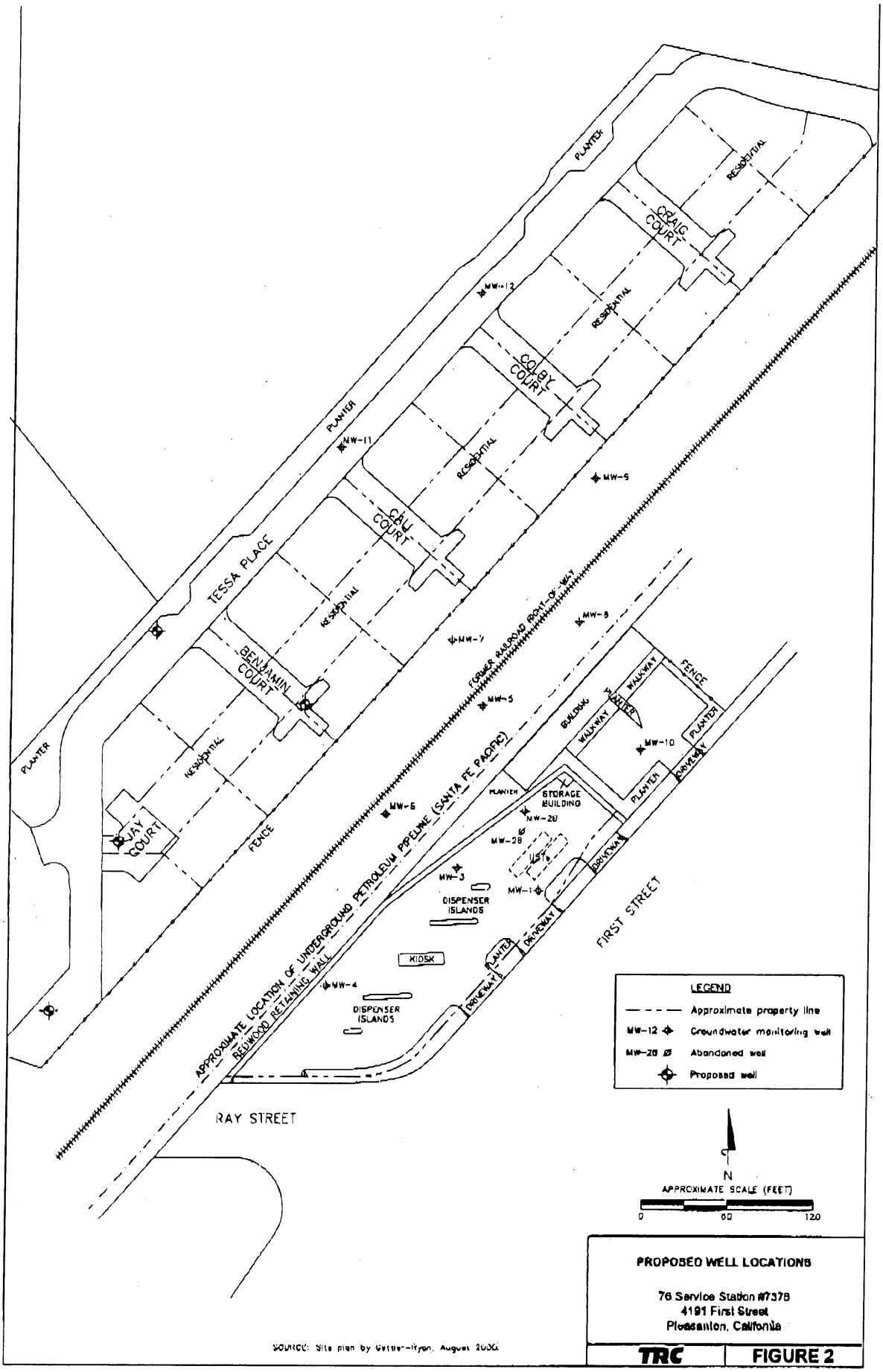
Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPPH = total purgeable petroleum hydrocarbons. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. LPH = liquid-phase hydrocarbons. Dashes indicate contour based on non-detect or elevated detection limit. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE TPPH CONCENTRATION MAP
March 17, 2005

76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 3



GLOBAL_I	FIELD_PO	STATUS	GW_MEAS	DTFPROD	DTW	RISER_HT	TOT_DEP	GW_MEAS	SHEEN
T06001001	MW-1	ACT	3/17/2005		79.36		86.35		N
T06001001	MW-8	ACT	3/17/2005		67.85		84.37		N
T06001001	MW-7	ACT	3/17/2005		63.69		76.65		N
T06001001	MW-10	ACT	3/17/2005		77.07		90.34		N
T06001001	MW-5	ACT	3/17/2005	65.86	65.88		72.45		N
T06001001	MW-2B	ACT	3/17/2005		79.55		85.15		N
T06001001	MW-4	ACT	3/17/2005		78.86		94.66		N
T06001001	MW-9	ACT	3/17/2005		60.42		77.95		N
T06001001	MW-12	ACT	3/17/2005		60.49		90.78		N
T06001001	MW-11	ACT	3/17/2005		61.62		87.35		N
T06001001	MW-6	ACT	3/17/2005		77.58		87.96		N
T06001001	MW-3	ACT	3/17/2005		81.33		94.13		N

Electronic Submittals

UNOCAL (PLEASANTON)
4191 1ST ST
PLEASANTON , CA 94566
CASE STATUS: OPEN
SHOW THIS SITE ON MAP
RETURN TO REPORT MAIN MENU

REGIONAL BOARD - CASE #: 01-0109
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300
LOCAL AGENCY (LEAD AGENCY) - CASE #: 5017
ALAMEDA COUNTY LOP - **(AG)**

ELECTRONIC SUBMITTALS - ANALYTICAL DATA (Show all Analytical Submittals)

EDF Data Report
Report Title: "76 Station, 1st Q, 2005"
Analysis performed by *STL ChromaLab, Inc., Pleasanton, CA*
EDF Submitted: 5/4/2005
# of Field Points Sampled: 12

(QC Data | Client Data | Detections)

SAMPLING DATE	ANALYSIS DATE	MATRIX	BATCH #	FIELD PT NAME	SAMPLE ID	METHOD	PARAMETER	REPORTING RESULTS QUALIFIER	VALUE	REPC LIMIT UNITS
3/17/2005	3/31/2005	W	503312B-66	MW-7	MW-7	SW8260B	BENZENE	=	1800	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-8	MW-8	SW8260B	BENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-1	MW-1	SW8260B	BENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-11	MW-11	SW8260B	BENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311A-07	MW-2B	MW-2B	SW8260B	BENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-4	MW-4	SW8260B	BENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-6	MW-6	SW8260B	BENZENE	=	0.67	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-3	MW-3	SW8260B	BENZENE	=	110	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-12	MW-12	SW8260B	BENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503312A-68	MW-10	MW-10	SW8260B	BENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-9	MW-9	SW8260B	BENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-7	MW-7	SW8260B	TOLUENE	=	7.8	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-6	MW-6	SW8260B	TOLUENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-4	MW-4	SW8260B	TOLUENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-3	MW-3	SW8260B	TOLUENE	=	1.3	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-8	MW-8	SW8260B	TOLUENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-1	MW-1	SW8260B	TOLUENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-11	MW-11	SW8260B	TOLUENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311A-07	MW-2B	MW-2B	SW8260B	TOLUENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-12	MW-12	SW8260B	TOLUENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503312A-68	MW-10	MW-10	SW8260B	TOLUENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-	MW-9	MW-9	SW8260B	TOLUENE	ND	0	UG/L

			68							
3/17/2005	3/31/2005	W	5033104-10	MW-7	MW-7	M8015	DIESEL RANGE ORGANICS	=	380	UG/L
3/17/2005	3/31/2005	W	5033104-10	MW-6	MW-6	M8015	DIESEL RANGE ORGANICS	=	150	UG/L
3/17/2005	3/31/2005	W	5033104-10	MW-4	MW-4	M8015	DIESEL RANGE ORGANICS	ND	0	UG/L
3/17/2005	3/31/2005	W	5033104-10	MW-3	MW-3	M8015	DIESEL RANGE ORGANICS	=	2400	UG/L
3/17/2005	3/31/2005	W	5033104-10	MW-2B	MW-2B	M8015	DIESEL RANGE ORGANICS	=	280	UG/L
3/17/2005	3/31/2005	W	5033104-10	MW-12	MW-12	M8015	DIESEL RANGE ORGANICS	=	350	UG/L
3/17/2005	3/31/2005	W	5033104-10	MW-11	MW-11	M8015	DIESEL RANGE ORGANICS	=	85	UG/L
3/17/2005	3/31/2005	W	5033104-10	MW-10	MW-10	M8015	DIESEL RANGE ORGANICS	ND	0	UG/L
3/17/2005	3/31/2005	W	5033104-10	MW-1	MW-1	M8015	DIESEL RANGE ORGANICS	ND	0	UG/L
3/17/2005	3/31/2005	W	5033104-10	MW-8	MW-8	M8015	DIESEL RANGE ORGANICS	=	56	UG/L
3/17/2005	3/31/2005	W	5033104-10	MW-9	MW-9	M8015	DIESEL RANGE ORGANICS	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-6	MW-6	SW8260B	ETHYLBENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-4	MW-4	SW8260B	ETHYLBENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-3	MW-3	SW8260B	ETHYLBENZENE	=	38	UG/L
3/17/2005	3/31/2005	W	503311A-07	MW-2B	MW-2B	SW8260B	ETHYLBENZENE	=	0.83	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-12	MW-12	SW8260B	ETHYLBENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-11	MW-11	SW8260B	ETHYLBENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503312A-68	MW-10	MW-10	SW8260B	ETHYLBENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-1	MW-1	SW8260B	ETHYLBENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-9	MW-9	SW8260B	ETHYLBENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-7	MW-7	SW8260B	ETHYLBENZENE	=	24	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-8	MW-8	SW8260B	ETHYLBENZENE	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-6	MW-6	SW8260B	GASOLINE RANGE ORGANICS	=	79	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-4	MW-4	SW8260B	GASOLINE RANGE ORGANICS	ND	0	UG/L
3/17/2005	3/31/2005	W	503312B-66	MW-3	MW-3	SW8260B	GASOLINE RANGE ORGANICS	=	11000	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-12	MW-12	SW8260B	GASOLINE RANGE ORGANICS	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-11	MW-11	SW8260B	GASOLINE RANGE ORGANICS	ND	0	UG/L
3/17/2005	3/31/2005	W	503312A-68	MW-10	MW-10	SW8260B	GASOLINE RANGE ORGANICS	ND	0	UG/L
3/17/2005	3/31/2005	W	503312B-66	MW-1	MW-1	SW8260B	GASOLINE RANGE ORGANICS	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-9	MW-9	SW8260B	GASOLINE RANGE ORGANICS	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-8	MW-8	SW8260B	GASOLINE RANGE ORGANICS	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-7	MW-7	SW8260B	GASOLINE RANGE ORGANICS	=	5700	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-6	MW-6	SW8260B	METHYL-TERT-BUTYL ETHER (MTBE)	=	23	UG/L

3/17/2005	3/31/2005	W	503311C-68	MW-9	MW-9	SW8260B	METHYL-TERT-BUTYL ETHER (MTBE)	ND	0	UG/L
3/17/2005	3/31/2005	W	503312B-66	MW-1	MW-1	SW8260B	METHYL-TERT-BUTYL ETHER (MTBE)	=	830	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-4	MW-4	SW8260B	METHYL-TERT-BUTYL ETHER (MTBE)	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-3	MW-3	SW8260B	METHYL-TERT-BUTYL ETHER (MTBE)	=	57	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-12	MW-12	SW8260B	METHYL-TERT-BUTYL ETHER (MTBE)	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-11	MW-11	SW8260B	METHYL-TERT-BUTYL ETHER (MTBE)	=	1.1	UG/L
3/17/2005	3/31/2005	W	503312A-68	MW-10	MW-10	SW8260B	METHYL-TERT-BUTYL ETHER (MTBE)	=	65	UG/L
3/17/2005	3/31/2005	W	503312B-66	MW-7	MW-7	SW8260B	METHYL-TERT-BUTYL ETHER (MTBE)	=	190	UG/L
3/17/2005	3/31/2005	W	503312B-66	MW-8	MW-8	SW8260B	METHYL-TERT-BUTYL ETHER (MTBE)	=	290	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-6	MW-6	SW8260B	XYLENES	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-12	MW-12	SW8260B	XYLENES	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-4	MW-4	SW8260B	XYLENES	ND	0	UG/L
3/17/2005	3/31/2005	W	503312B-66	MW-3	MW-3	SW8260B	XYLENES	=	1100	UG/L
3/17/2005	3/31/2005	W	503311A-07	MW-2B	MW-2B	SW8260B	XYLENES	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-11	MW-11	SW8260B	XYLENES	ND	0	UG/L
3/17/2005	3/31/2005	W	503312A-68	MW-10	MW-10	SW8260B	XYLENES	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-7	MW-7	SW8260B	XYLENES	=	16	UG/L
3/17/2005	3/31/2005	W	503312B-66	MW-1	MW-1	SW8260B	XYLENES	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-9	MW-9	SW8260B	XYLENES	ND	0	UG/L
3/17/2005	3/31/2005	W	503311C-68	MW-8	MW-8	SW8260B	XYLENES	ND	0	UG/L
3/17/2005	4/5/2005	W	504042A-66	MW-2B	MW-2B	SW8260B	GASOLINE RANGE ORGANICS	ND	0	UG/L
3/17/2005	4/5/2005	W	504042A-66	MW-2B	MW-2B	SW8260B	METHYL-TERT-BUTYL ETHER (MTBE)	=	7800	UG/L

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

Depth to Water Information

UNOCAL (PLEASANTON)
4191 1ST ST
PLEASANTON , CA 94566
CASE STATUS: OPEN
SHOW THIS SITE ON MAP
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REGIONAL BOARD - CASE #: 01-0109
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300

LOCAL AGENCY (LEAD AGENCY) - CASE #: 5017
ALAMEDA COUNTY LOP - **(AG)**

MIN DEPTH TO WATER	MAX DEPTH TO WATER	FREE PRODUCT?	MAX FREE PRODUCT THICKNESS
60.42 feet	92.09 feet	YES	0.42 feet

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Electronic Submittals

UNOCAL (PLEASANTON)
4191 1ST ST
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REGIONAL BOARD - CASE #: 01-0109
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300

LOCAL AGENCY (LEAD AGENCY) - CASE #: 5017
ALAMEDA COUNTY LOP - **(AG)**

ELECTRONIC SUBMITTALS - GEO_WELL DATA (Show all GEO_WELL Submittals)

Submitted By	Submitted Date	Confirmation #	Global ID
DENNIS JENSEN (CONTRACTOR)	5/4/2005	1116245865	T0600100101

#	GLOBAL ID	FIELD POINT NAME	STATUS	GW MEAS DATE	DTFPROD	DTW	RISER HT	TOT DEPTH	GW MEAS DESC	SHEEN
1	T0600100101	MW-1	ACT	3/17/2005		79.36		86.35		N
2	T0600100101	MW-8	ACT	3/17/2005		67.85		84.37		N
3	T0600100101	MW-7	ACT	3/17/2005		63.69		76.65		N
4	T0600100101	MW-10	ACT	3/17/2005		77.07		90.34		N
5	T0600100101	MW-5	ACT	3/17/2005	65.86	65.88		72.45		N
6	T0600100101	MW-2B	ACT	3/17/2005		79.55		85.15		N
7	T0600100101	MW-4	ACT	3/17/2005		78.86		94.66		N
8	T0600100101	MW-9	ACT	3/17/2005		60.42		77.95		N
9	T0600100101	MW-12	ACT	3/17/2005		60.49		90.78		N
10	T0600100101	MW-11	ACT	3/17/2005		61.62		87.35		N
11	T0600100101	MW-6	ACT	3/17/2005		77.58		87.96		N
12	T0600100101	MW-3	ACT	3/17/2005		81.33		94.13		N

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

Remediation On Site

UNOCAL (PLEASANTON)
4191 1ST ST
PLEASANTON , CA 94566
CASE STATUS: OPEN
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REGIONAL BOARD - CASE #: 01-0109
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300

LOCAL AGENCY (LEAD AGENCY) - CASE #: 5017
ALAMEDA COUNTY LOP - **(AG)**

Start Date	Method	Phase
4/5/2000	ERR	Unknown

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

Plot of MW-7

UNOCAL (PLEASANTON)
4191 1ST ST
PLEASANTON , CA 94566
CASE STATUS: OPEN
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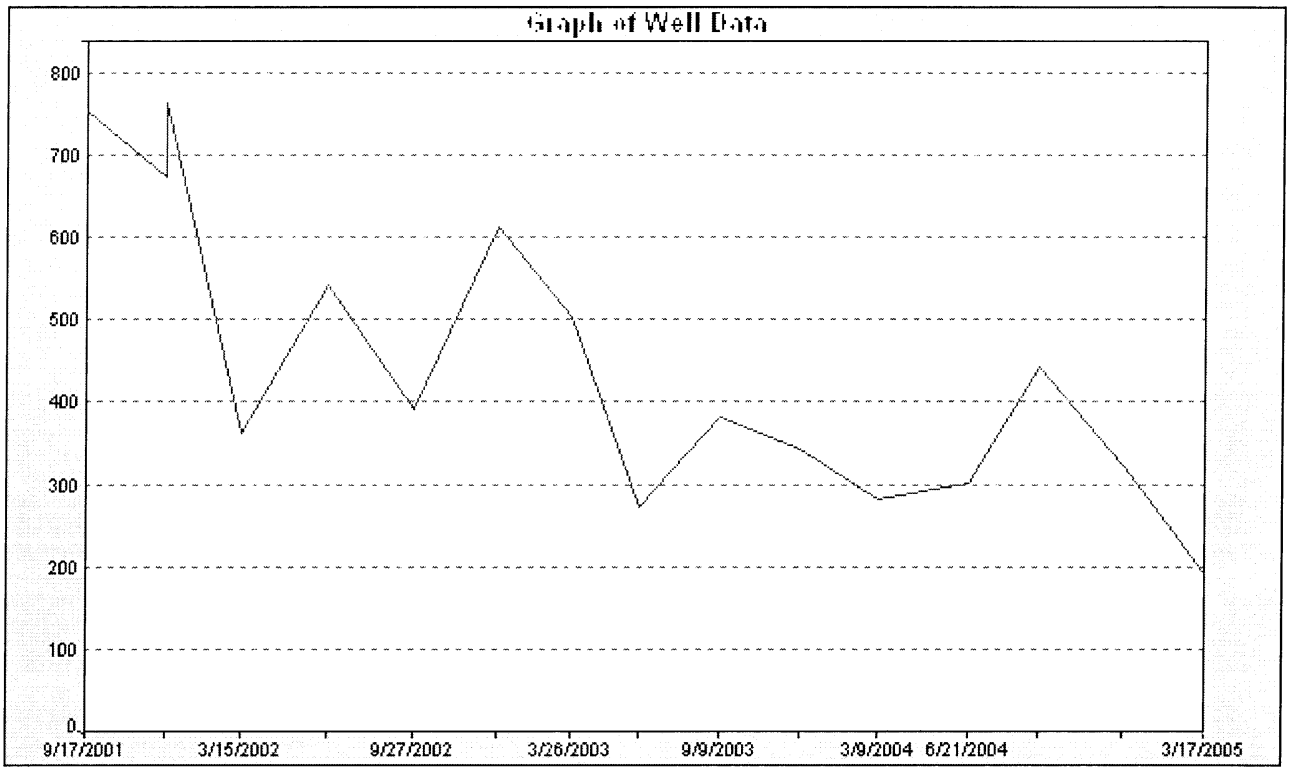
REGIONAL BOARD - CASE #: 01-0109
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300
LOCAL AGENCY (LEAD AGENCY) - CASE #: 5017
ALAMEDA COUNTY LOP - **(AG)**



Date	Parameter	Qualifier	Result	Units
3/17/2005	METHYL-TERT-BUTYL ETHER (MTBE)	=	190	UG/L
12/14/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	320	UG/L
9/8/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	440	UG/L
6/21/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	300	UG/L
3/9/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	280	UG/L
12/10/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	340	UG/L
9/9/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	380	UG/L
6/10/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	270	UG/L
3/26/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	500	UG/L
12/30/2002	METHYL-TERT-BUTYL ETHER (MTBE)	=	610	UG/L
9/27/2002	METHYL-TERT-BUTYL ETHER (MTBE)	=	390	UG/L
6/20/2002	METHYL-TERT-BUTYL ETHER (MTBE)	=	540	UG/L
3/15/2002	METHYL-TERT-BUTYL ETHER (MTBE)	=	360	UG/L
12/17/2001	METHYL-TERT-BUTYL ETHER (MTBE)	=	670	UG/L
12/17/2001	METHYL-TERT-BUTYL ETHER (MTBE)	=	760	UG/L
9/17/2001	METHYL-TERT-BUTYL ETHER (MTBE)	=	750	UG/L

From Date: **To Date:** **Graph Size** **Normalized**
Small Redraw

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

Plot of MW-1

UNOCAL (PLEASANTON)
4191 1ST ST
PLEASANTON , CA 94566
CASE STATUS: OPEN
SHOW THIS SITE ON MAP
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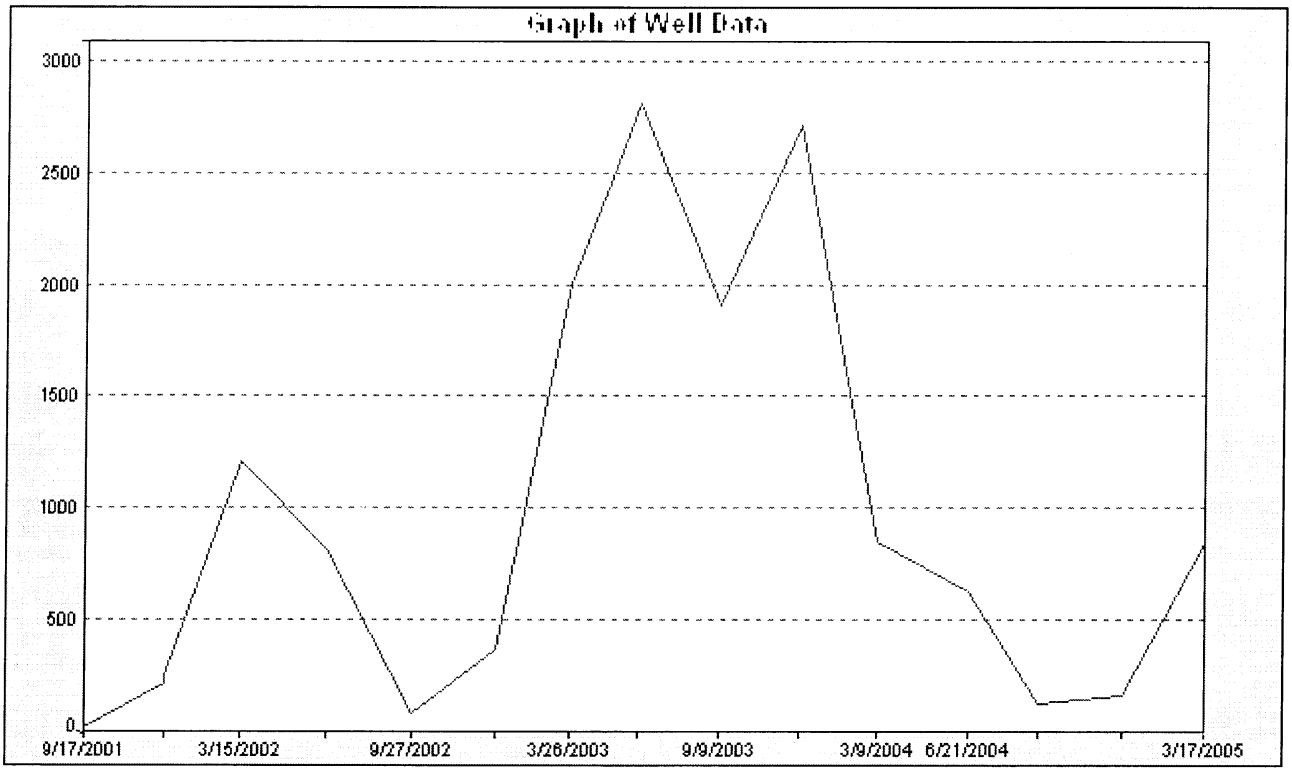
REGIONAL BOARD - CASE #: 01-0109
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300
LOCAL AGENCY (LEAD AGENCY) - CASE #: 5017
ALAMEDA COUNTY LOP - **(AG)**



Date	Parameter	Qualifier	Result	Units
3/17/2005	METHYL-TERT-BUTYL ETHER (MTBE)	=	830	UG/L
12/14/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	150	UG/L
9/8/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	120	UG/L
6/21/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	620	UG/L
3/9/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	840	UG/L
12/10/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	2700	UG/L
9/9/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	1900	UG/L
6/10/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	2800	UG/L
3/26/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	2000	UG/L
12/30/2002	METHYL-TERT-BUTYL ETHER (MTBE)	=	360	UG/L
9/27/2002	METHYL-TERT-BUTYL ETHER (MTBE)	=	71	UG/L
6/20/2002	METHYL-TERT-BUTYL ETHER (MTBE)	=	810	UG/L
3/15/2002	METHYL-TERT-BUTYL ETHER (MTBE)	=	1200	UG/L
12/17/2001	METHYL-TERT-BUTYL ETHER (MTBE)	=	210	UG/L
12/17/2001	METHYL-TERT-BUTYL ETHER (MTBE)	=	240	UG/L
9/17/2001	METHYL-TERT-BUTYL ETHER (MTBE)	=	11	UG/L

From Date: **To Date:** **Graph Size** **Normalized**

Small

Redraw

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

LUFT ANALYTICAL DATA REPORT

UNOCAL (PLEASANTON)
4191 1ST ST
PLEASANTON , CA 94566
CASE STATUS: OPEN
SHOW THIS SITE ON MAP
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REGIONAL BOARD - CASE #: 01-0109
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300

LOCAL AGENCY (LEAD AGENCY) - CASE #: 5017
ALAMEDA COUNTY LOP - **(AG)**

Plot Selected Chemicals | Reset Boxes | **Note: You may select up to 6 chemicals.**

(All Data) | (Most Recent) | (Maximum Concentrations)

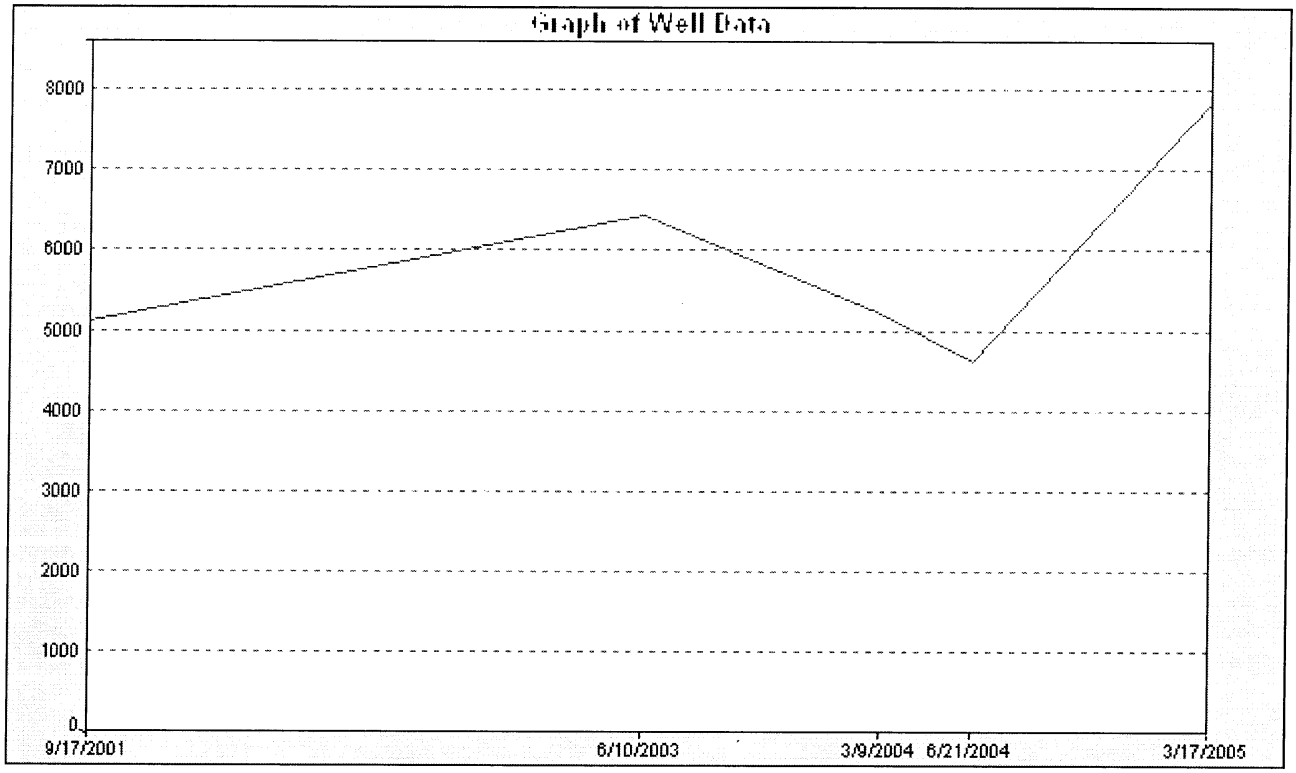
NAME	DATE	PARAMETER	MATRIX	QUALIFIER	RESULT	UNITS	PL
MW-3	3/17/2005	BENZENE	W	=	110	UG/L	
MW-3	3/17/2005	TOLUENE	W	=	1.3	UG/L	
MW-3	3/17/2005	TOLUENE-D8	W	SU	98.6	PERCENT	
MW-3	3/17/2005	TOLUENE-D8	W	SU	102.7	PERCENT	
MW-3	3/17/2005	1,2-DICHLOROETHANE-D4	W	SU	95.6	PERCENT	
MW-3	3/17/2005	1,2-DICHLOROETHANE-D4	W	SU	96.4	PERCENT	
MW-3	3/17/2005	DEPTH TO WATER		=	81.33	FEET	
MW-3	3/17/2005	DIESEL RANGE ORGANICS	W	=	2400	UG/L	
MW-3	3/17/2005	ETHYLBENZENE	W	=	38	UG/L	
MW-3	3/17/2005	GASOLINE RANGE ORGANICS	W	=	11000	UG/L	
MW-3	3/17/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	57	UG/L	
MW-3	3/17/2005	O-TERPHENYL	W	SU	113.5	PERCENT	
MW-3	3/17/2005	XYLENES	W	=	1100	UG/L	

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

Plot of MW-2B

UNOCAL (PLEASANTON)
4191 1ST ST
PLEASANTON , CA 94566
CASE STATUS: OPEN
SHOW THIS SITE ON MAP
RETURN TO REPORT MAIN MENU

REGIONAL BOARD - CASE #: 01-0109
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300
LOCAL AGENCY (LEAD AGENCY) - CASE #: 5017
ALAMEDA COUNTY LOP - **(AG)**



Date	Parameter	Qualifier	Result	Units
3/17/2005	METHYL-TERT-BUTYL ETHER (MTBE)	=	7800	UG/L
6/21/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	4600	UG/L
3/9/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	5200	UG/L
6/10/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	6400	UG/L
9/17/2001	METHYL-TERT-BUTYL ETHER (MTBE)	=	5100	UG/L

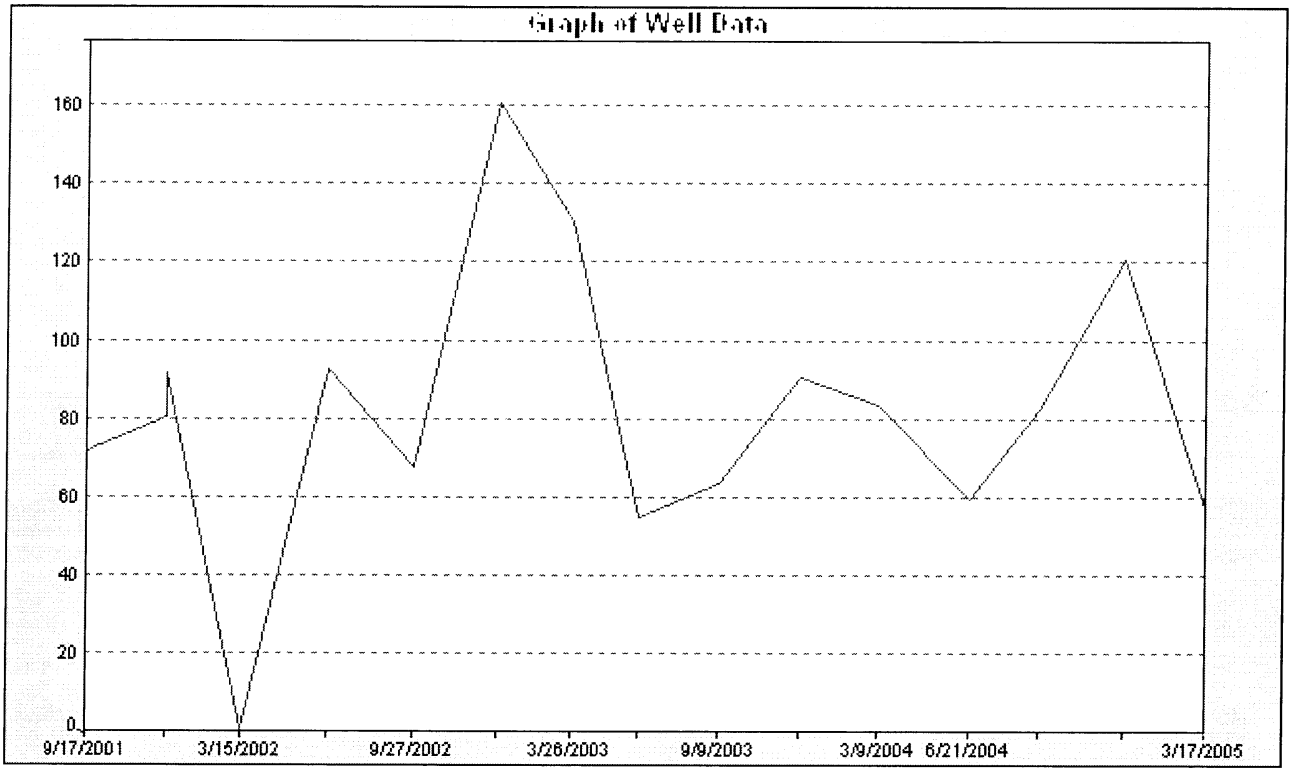
From Date: **To Date:** **Graph Size** Small **Normalized** Redraw

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

Plot of MW-3

UNOCAL (PLEASANTON)
4191 1ST ST
PLEASANTON , CA 94566
CASE STATUS: OPEN
SHOW THIS SITE ON MAP
RETURN TO REPORT MAIN MENU

REGIONAL BOARD - CASE #: 01-0109
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300
LOCAL AGENCY (LEAD AGENCY) - CASE #: 5017
ALAMEDA COUNTY LOP - **(AG)**



Date	Parameter	Qualifier	Result	Units
3/17/2005	METHYL-TERT-BUTYL ETHER (MTBE)	=	57	UG/L
12/14/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	120	UG/L
9/8/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	82	UG/L
6/21/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	59	UG/L
3/9/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	83	UG/L
12/10/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	90	UG/L
9/9/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	63	UG/L
6/10/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	54	UG/L
3/26/2003	METHYL-TERT-BUTYL ETHER (MTBE)	=	130	UG/L
12/30/2002	METHYL-TERT-BUTYL ETHER (MTBE)	=	160	UG/L
9/27/2002	METHYL-TERT-BUTYL ETHER (MTBE)	=	67	UG/L
6/20/2002	METHYL-TERT-BUTYL ETHER (MTBE)	=	92	UG/L
3/15/2002	METHYL-TERT-BUTYL ETHER (MTBE)	ND	0	UG/L
12/17/2001	METHYL-TERT-BUTYL ETHER (MTBE)	=	80	UG/L
12/17/2001	METHYL-TERT-BUTYL ETHER (MTBE)	=	91	UG/L
9/17/2001	METHYL-TERT-BUTYL ETHER (MTBE)	=	71	UG/L

From Date: **To Date:** **Graph Size** **Normalized**

Small

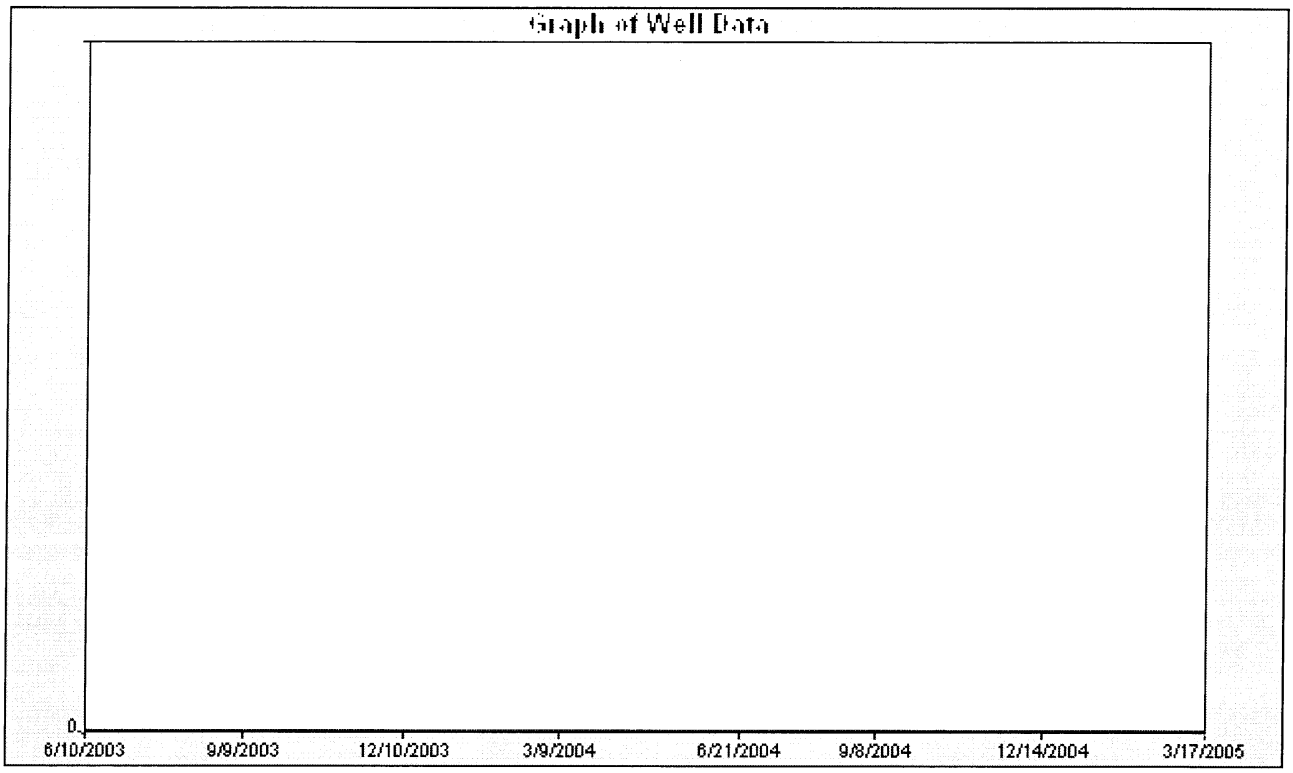
Redraw

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

Plot of MW-4

UNOCAL (PLEASANTON)
4191 1ST ST
PLEASANTON , CA 94566
CASE STATUS: OPEN
SHOW THIS SITE ON MAP
RETURN TO REPORT MAIN MENU

REGIONAL BOARD - CASE #: 01-0109
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300
LOCAL AGENCY (LEAD AGENCY) - CASE #: 5017
ALAMEDA COUNTY LOP - **(AG)**



Date	Parameter	Qualifier	Result	Units
3/17/2005	METHYL-TERT-BUTYL ETHER (MTBE)	ND	0	UG/L
12/14/2004	METHYL-TERT-BUTYL ETHER (MTBE)	ND	0	UG/L
9/8/2004	METHYL-TERT-BUTYL ETHER (MTBE)	ND	0	UG/L
6/21/2004	METHYL-TERT-BUTYL ETHER (MTBE)	ND	0	UG/L
3/9/2004	METHYL-TERT-BUTYL ETHER (MTBE)	ND	0	UG/L
12/10/2003	METHYL-TERT-BUTYL ETHER (MTBE)	ND	0	UG/L
9/9/2003	METHYL-TERT-BUTYL ETHER (MTBE)	ND	0	UG/L
6/10/2003	METHYL-TERT-BUTYL ETHER (MTBE)	ND	0	UG/L

From Date: **To Date:** **Graph Size** **Normalized**

Small

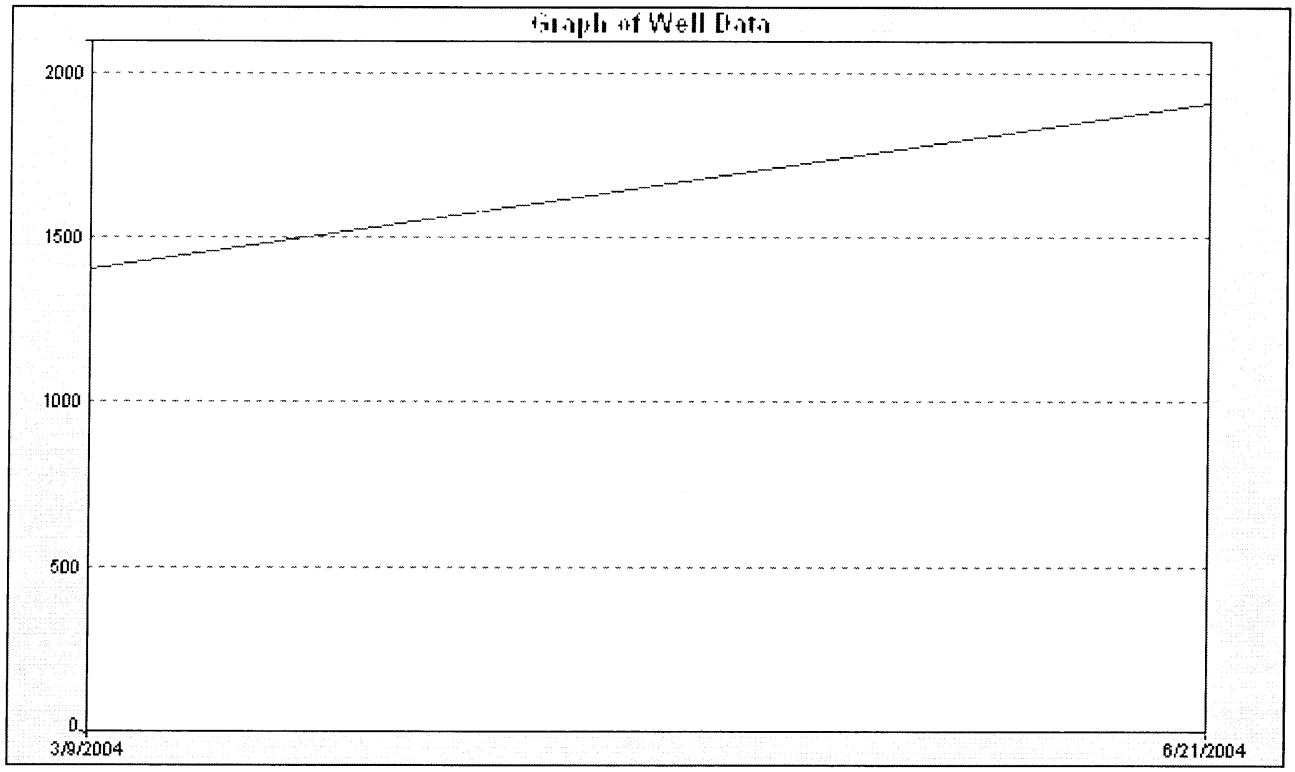
Redraw

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

Plot of MW-5

UNOCAL (PLEASANTON)
4191 1ST ST
PLEASANTON , CA 94566
CASE STATUS: OPEN
SHOW THIS SITE ON MAP
RETURN TO REPORT MAIN MENU

REGIONAL BOARD - CASE #: 01-0109
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300
LOCAL AGENCY (LEAD AGENCY) - CASE #: 5017
ALAMEDA COUNTY LOP - **(AG)**



Date	Parameter	Qualifier	Result	Units
6/21/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	1900	UG/L
3/9/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	1400	UG/L

From Date: **To Date:** **Graph Size** **Normalized**

Small

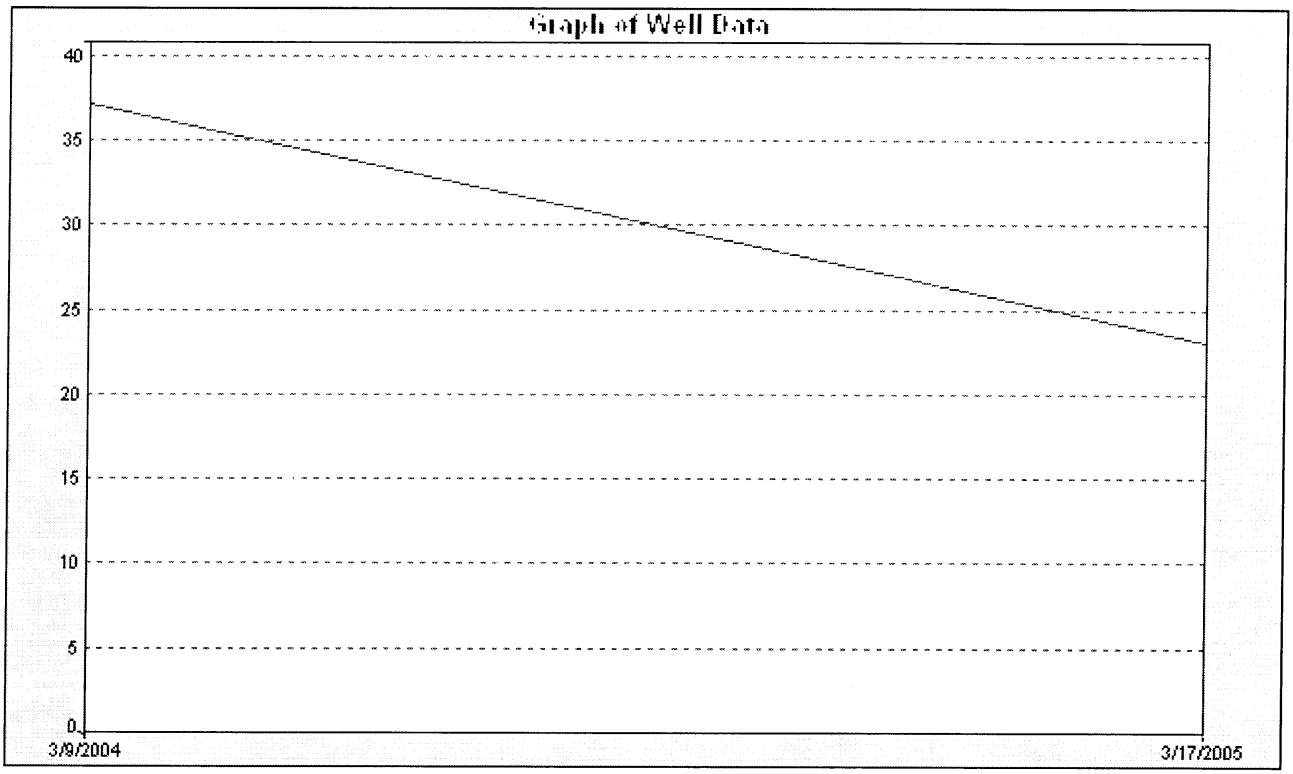
Redraw

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

Plot of MW-6

UNOCAL (PLEASANTON)
4191 1ST ST
PLEASANTON , CA 94566
CASE STATUS: OPEN
SHOW THIS SITE ON MAP
RETURN TO REPORT MAIN MENU

REGIONAL BOARD - CASE #: 01-0109
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300
LOCAL AGENCY (LEAD AGENCY) - CASE #: 5017
ALAMEDA COUNTY LOP - **(AG)**



Date	Parameter	Qualifier	Result	Units
3/17/2005	METHYL-TERT-BUTYL ETHER (MTBE)	=	23	UG/L
3/9/2004	METHYL-TERT-BUTYL ETHER (MTBE)	=	37	UG/L

From Date: **To Date:** **Graph Size** Small **Normalized** Redraw

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

WORK PLAN
1-24-06
Shell-branded Service Station
4226 First Street
Pleasanton, California

Description of Methods

Delta proposes to further define hydrogeologic conditions in the area by drilling two deep off-site borings.

Delta will obtain drilling permits from the Zone 7 Water District for all proposed borings. Delta will also need to obtain an encroachment from the City of Pleasanton in order drill within First Street. Shell will need to obtain an access agreement from the owner of the property located on the western corner of First and Ray Streets.

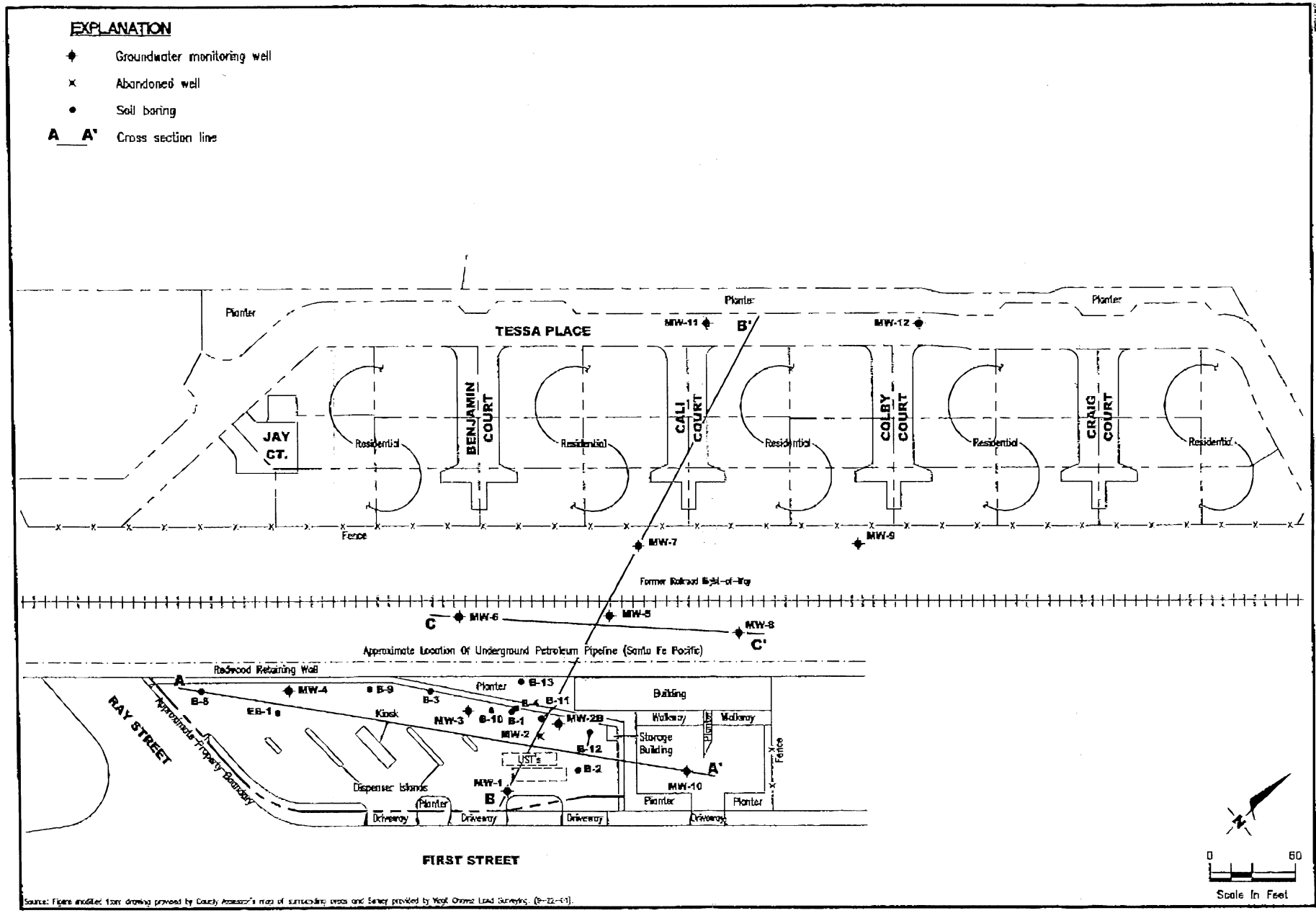
Prior to conducting any field work at the site, Delta will prepare a site specific Health and Safety Plan (HASP). The Delta field geologist on-site will review the HASP with site subcontractors at the start of each work day.

Borings CPT-1 and CPT-2

Delta proposes to two cone penetration test (CPT) borings to define the vertical of extent of petroleum hydrocarbons and fuel oxygenates detected in perched groundwater beneath the site. The borings will also define the lateral and vertical extent of a silt layer encountered beneath the site at a depth of approximately 60 feet. The locations of the CPT borings (CPT-1 and CPT-2) are shown on attached site area map. Soil classification will be based on the cone penetration resistance, sleeve friction, and friction ratio. A soil classification graph will be generated during drilling of the CPT borehole. CPT borings will be advanced to a depth of approximately 100 feet bg. Grout will be pumped into the borehole behind the cone by using a grout collar (retraction grouting).

A second CPT borehole will be drilled at each location for collection of depth discrete groundwater samples. Sand layers throughout the stratigraphic profile will be targeted for sampling. Collection of groundwater samples will be attempted both above and below the silt layer encountered in deep on-site Boring SB-7. A sealed PVC hydropunch screen will be pushed to the desired sampling depth. The push rod will then be retracted exposing the hydropunch screen. Groundwater should flow hydrostatically from the formation into the sampler. The predominance of silt and clay may prevent collection of groundwater samples from some depth intervals. A small diameter stainless steel bailer will be lowered through the hollow push rods, into the screen section for sample collection. The groundwater samples will be transferred to 40-milliliter glass VOA bottles. The bottles will be placed on ice for transportation to the laboratory.

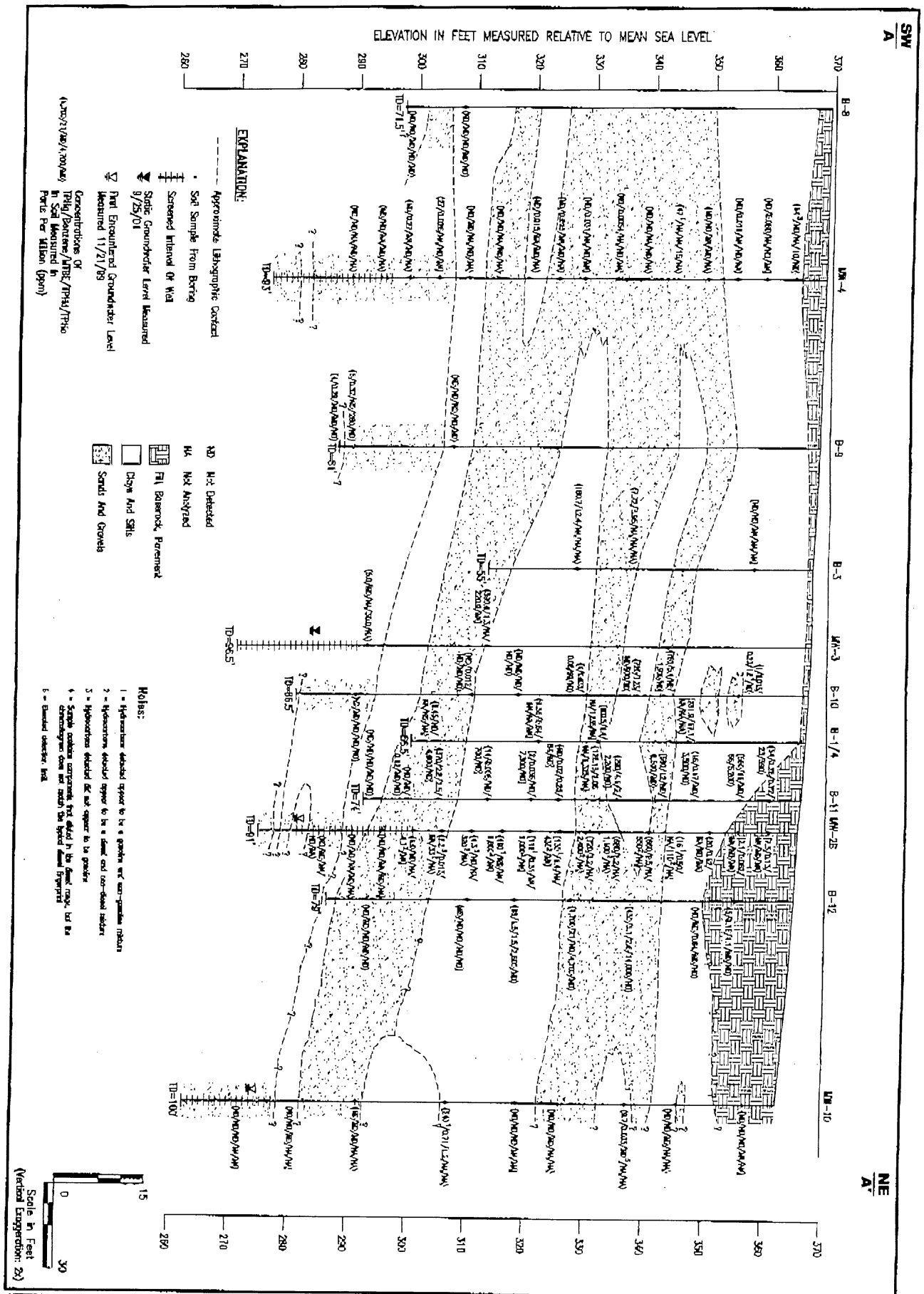
After sample collection, the push rods will be removed from the hole. The rods will be steam cleaned and a new hydropunch screen installed. The sealed screen will then be advanced to the next sampling depth and the above described process repeated. After collection of the final groundwater sample, grout will be pumped through the push rods as they are extracted from the borehole. Groundwater samples will be analyzed for TPH-G, BTEX compounds, MTBE, and TBA by EPA Method 8260B.



Source: Figure modified from drawing provided by County Assessor's map of surrounding areas and Survey provided by West Coast Land Surveying, (9-22-01).

Post-It™ brand fax transmittal memo 7671 | # of pages ▸

To Lee Dooley	From Jerry Wickham
Co. Delta	Co. Alameda County
Dept.	Phone # 510-567-6791
Fax # 408-225-8506	Fax # 510-337-9335



GETTLER-RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

CROSS SECTION A-A'
Tosco (76) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE
3

PROJECT NUMBER
140107

REVIEWED BY

DATE
10/98

REVISED DATE
5/00

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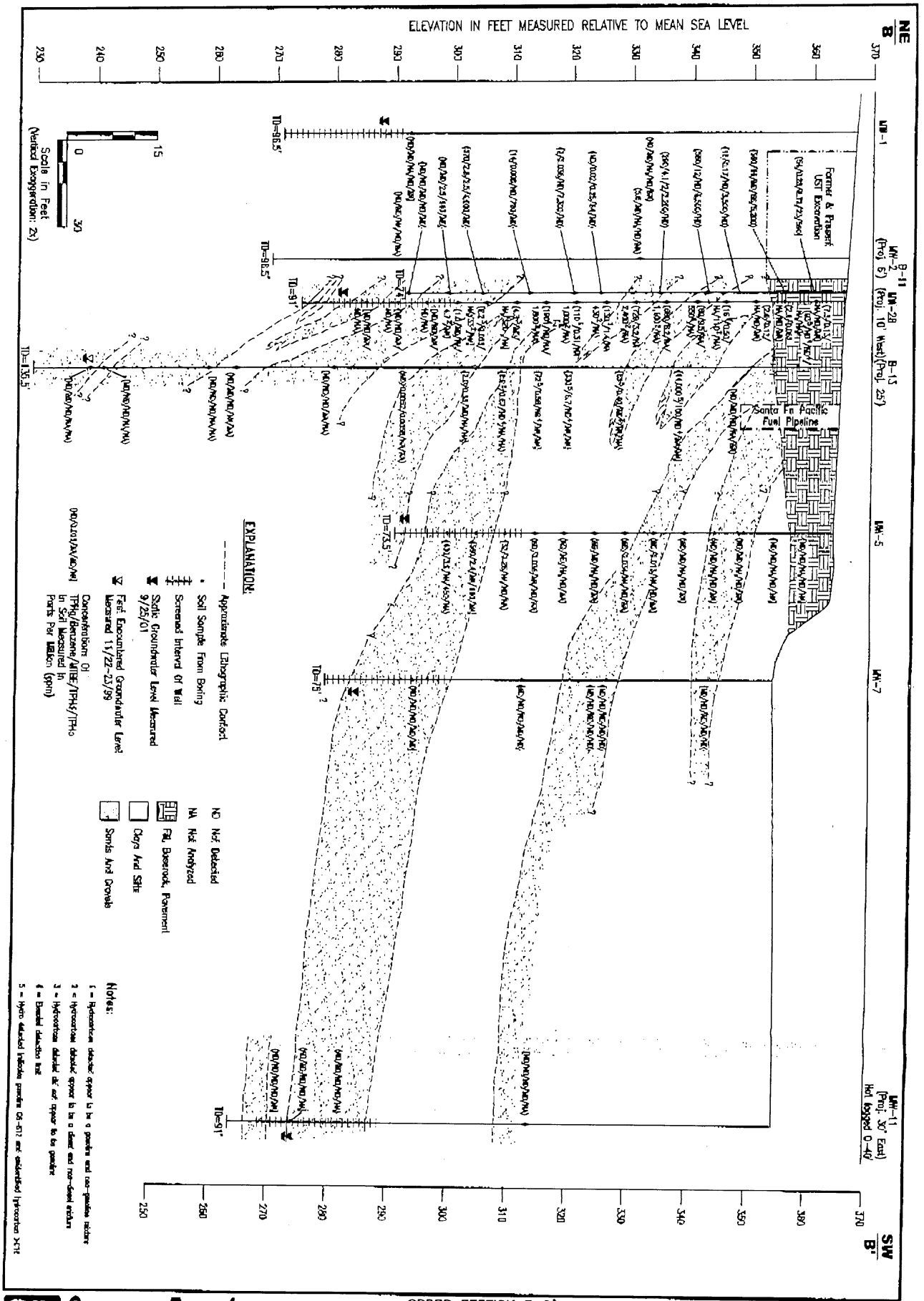


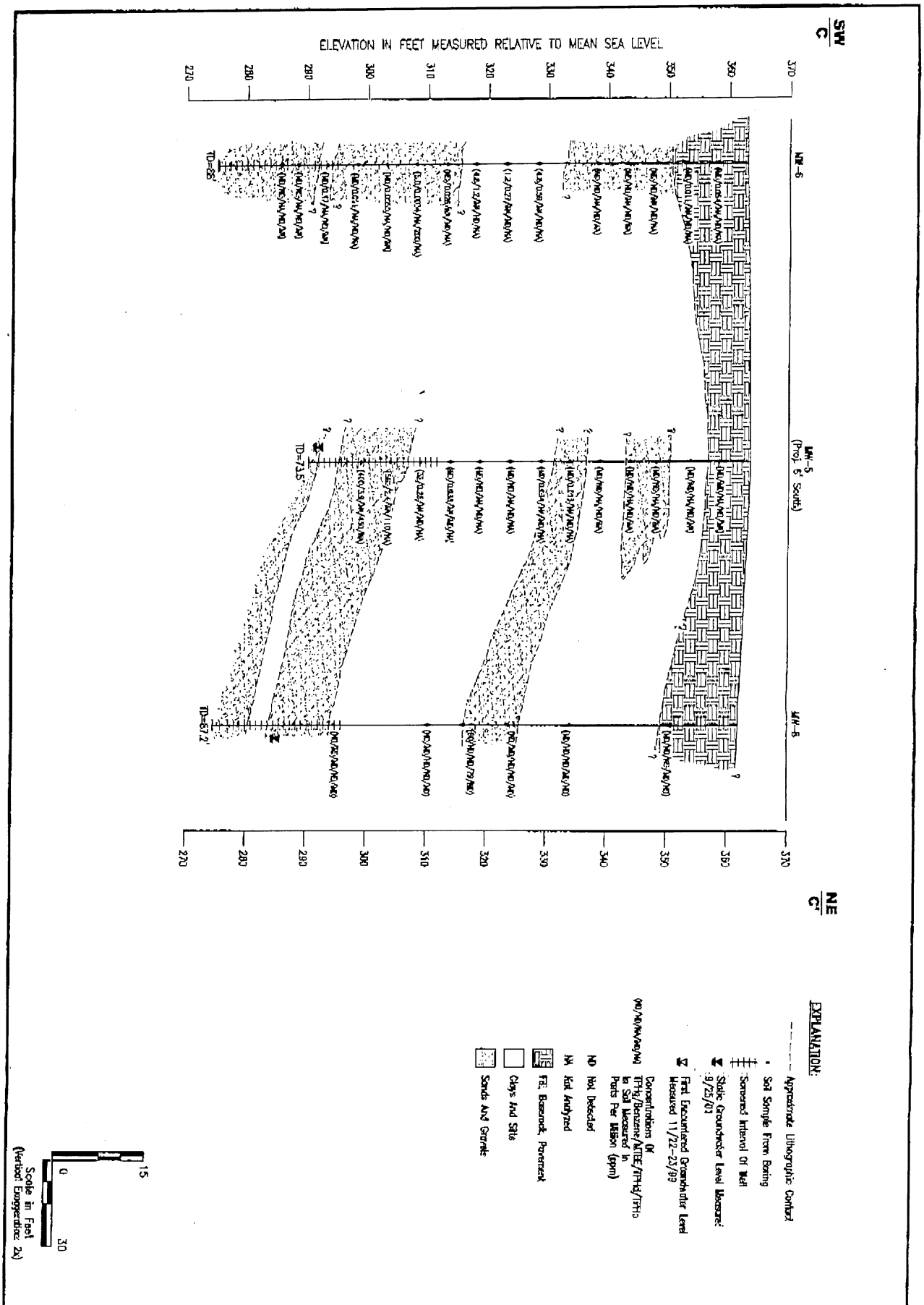
GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

CROSS SECTION B-B'
Tosco (76) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE 4

PROJECT NUMBER 140107
REVIEWED BY
DATE 10/98
REVISED DATE 5/00 & 10/01

FILE NAME: P:\ENGWRK\TOSCO\7376\Q01-7376.DWG | Layout Tab: Xsect B 10-01



GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

CROSS SECTION C-C'
Tosco (76) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE
5

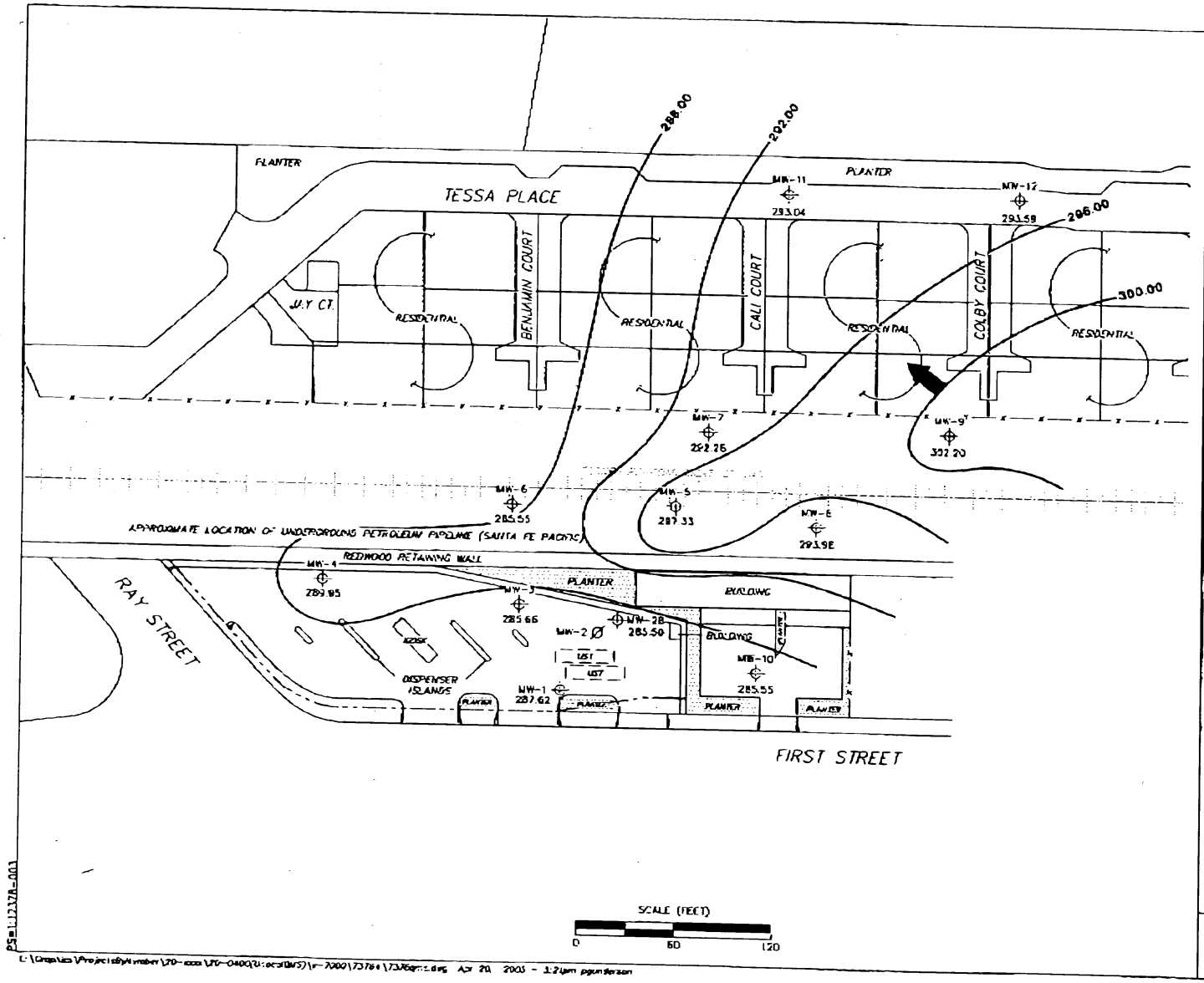
PROJECT NUMBER
140107

REVIEWED BY

DATE
10/01

REVISED DATE

FILE NAME: P:\UNWRD\TOSCO\7376\X51-7376.DWG | Layout Tab: X-sect C 10-01



LEGEND

MW-12 ⊕ Monitoring Well with Groundwater Elevation (feet)

MW-2 Ø Abandoned well

300.00 Groundwater Elevation Contour

General Direction of Groundwater Flow

NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

GROUNDWATER ELEVATION CONTOUR MAP
March 17, 2005

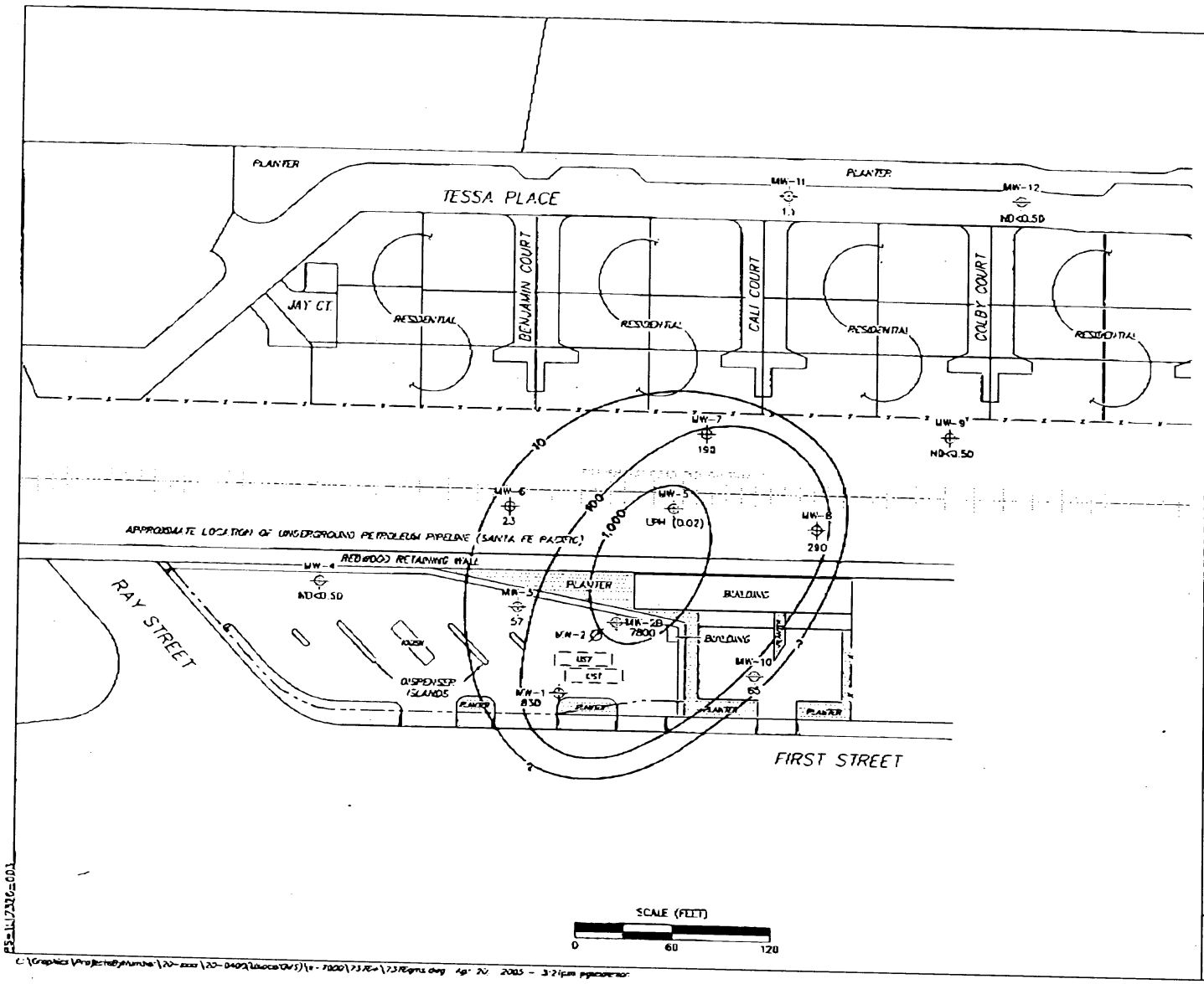
76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 4

To Lee Dooley	From Jerry Wickham
Co. Delta	Co. Alameda County
Dept.	Phone # 510-567-6791
Fax # 408-225-8506	Fax # 510-337-9335



LEGEND

MW-12 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l) or LPH thickness (feet)

MW-2 Ø Abandoned well

1,000 Dissolved-Phase MTBE Contour (µg/l)

NOTES:

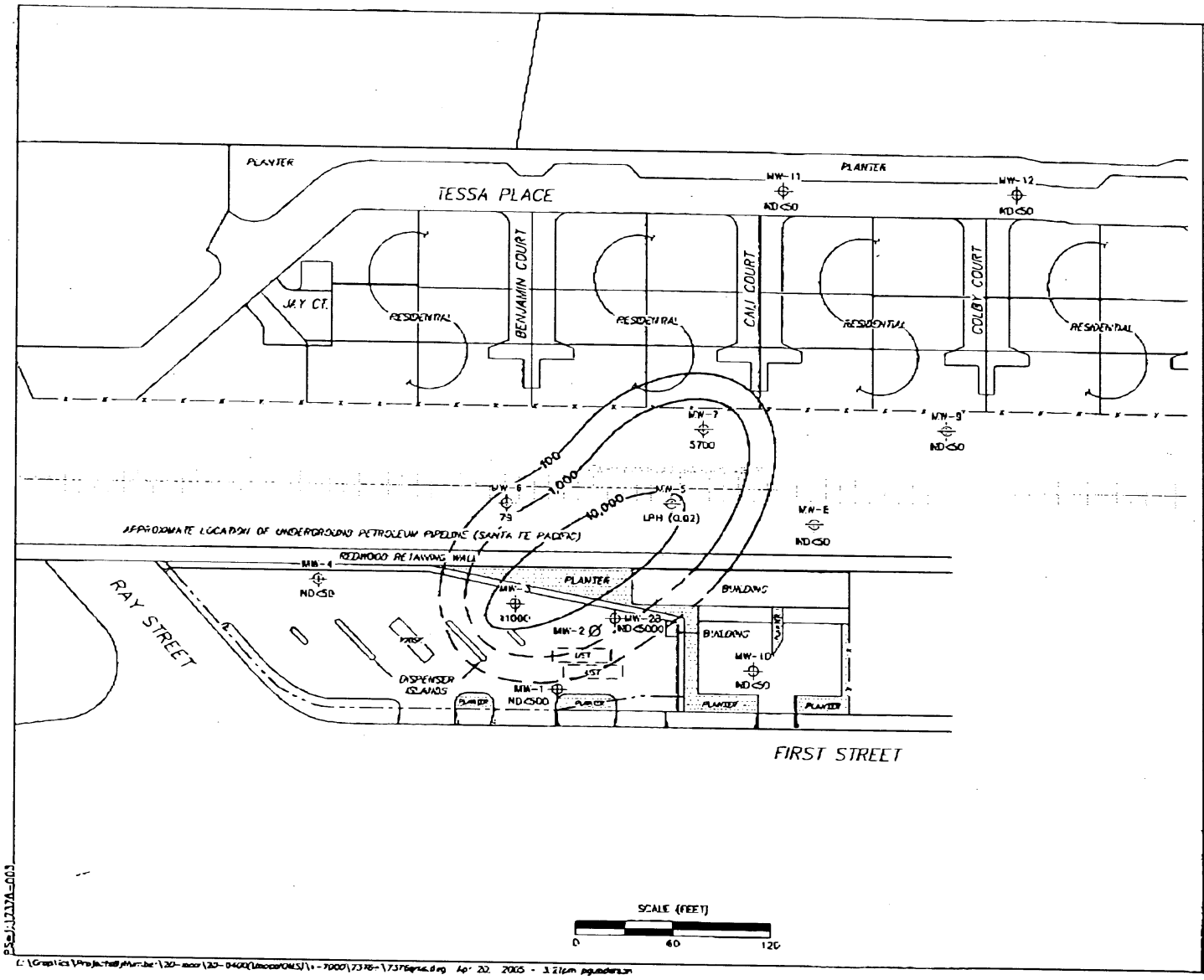
Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. LPH = liquid-phase hydrocarbons. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE MTBE CONCENTRATION MAP
March 17, 2005

76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 5



N

LEGEND

MW-12 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l) or LPH thickness (feet)

MW-2 Ø Abandoned well

—10,000— Dissolved-Phase TPPH Contour (µg/l)

NOTES:

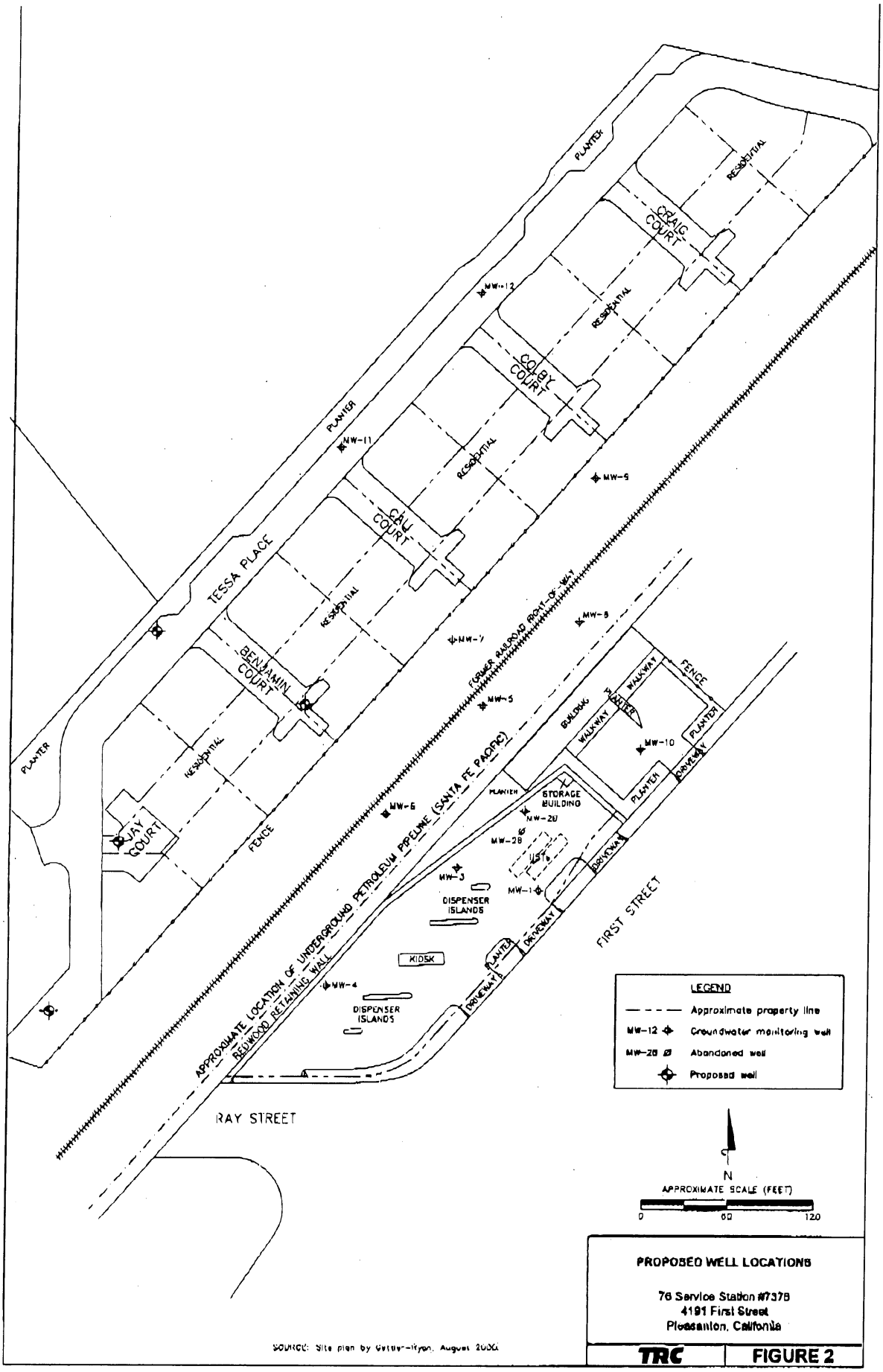
Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPPH = total purgeable petroleum hydrocarbons. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. LPH = liquid-phase hydrocarbons. Dashes indicate contour based on non-detect or elevated detection limit. Results obtained using EPA Method 8260B.

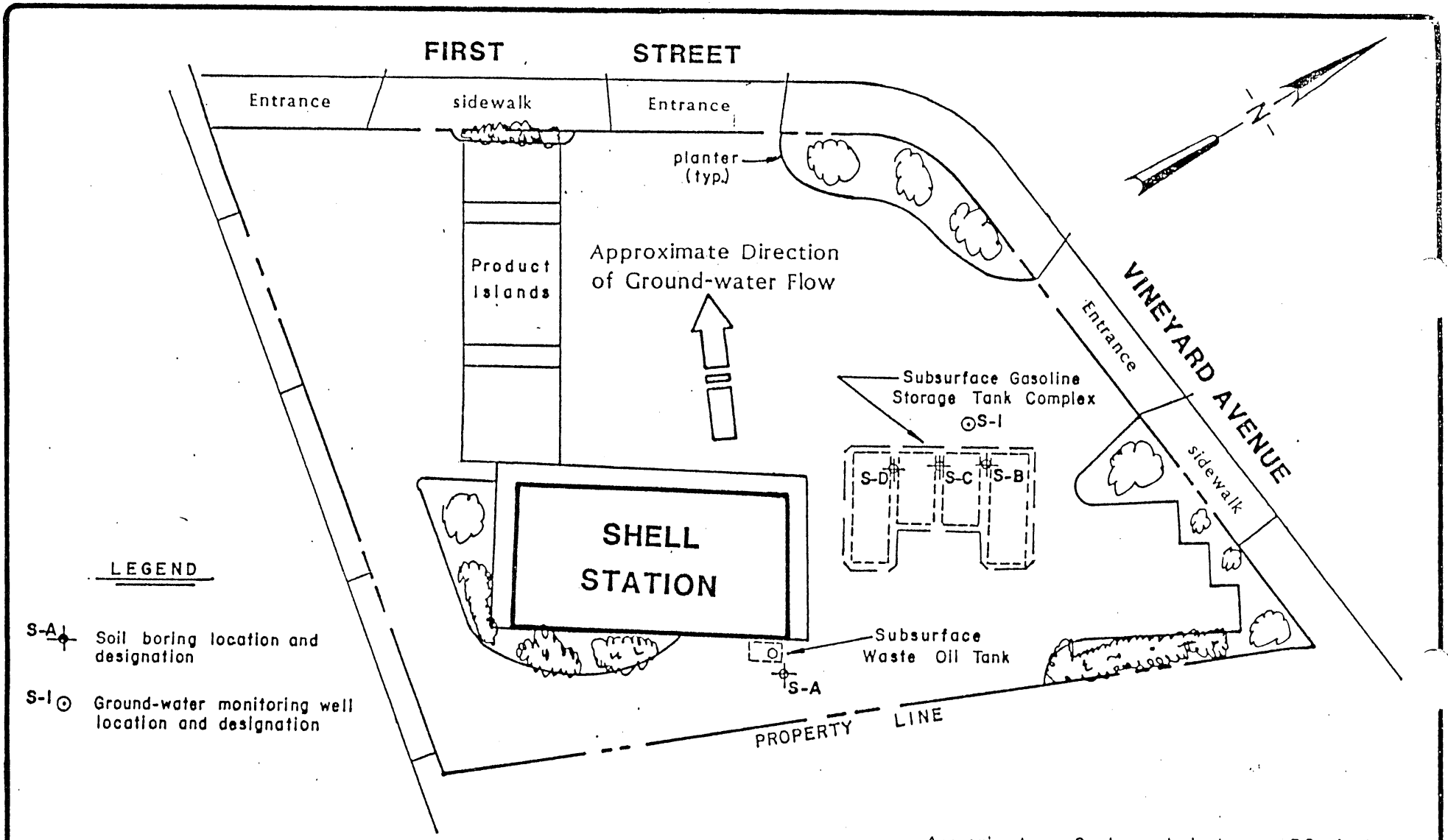
DISSOLVED-PHASE TPPH CONCENTRATION MAP
March 17, 2005

76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 3





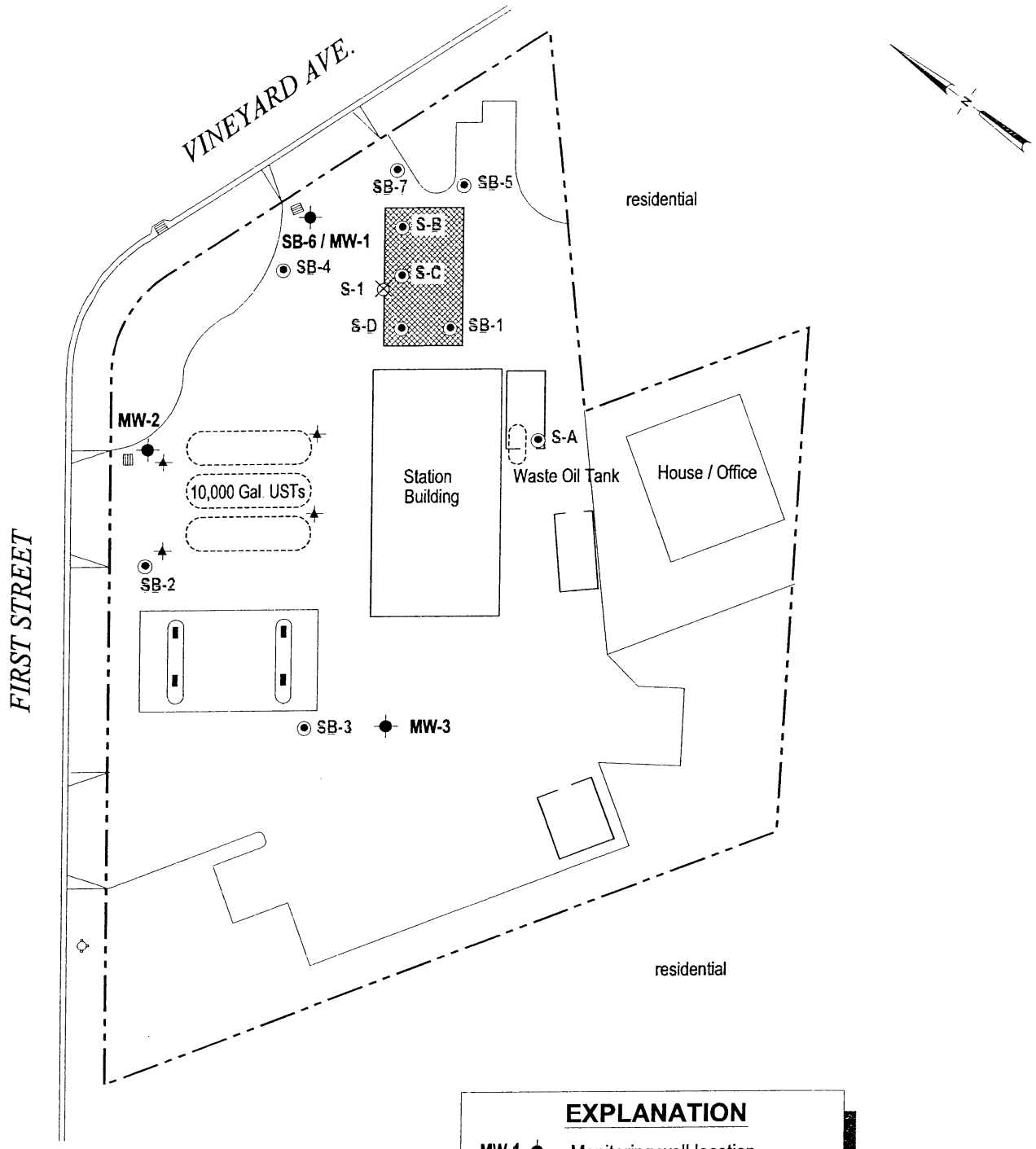
EMCON Associates
San Jose, California

GETTLER-RYAN, INC.
SUBSURFACE HYDROGEOLOGIC INVESTIGATION
SHELL STATION, FIRST STREET AND VINEYARD AVENUE
PLEASANTON, CALIFORNIA

SOIL BORING AND MONITORING WELL LOCATION MAP

FIGURE 1

PROJECT NO. 738-60.01



EXPLANATION

- MW-1 — Monitoring well location
- Observation well location
- SB-1 — Soil Boring location
- S-1 — Abandoned Well
- Former Tank Pit

0 20 40

Scale (ft)

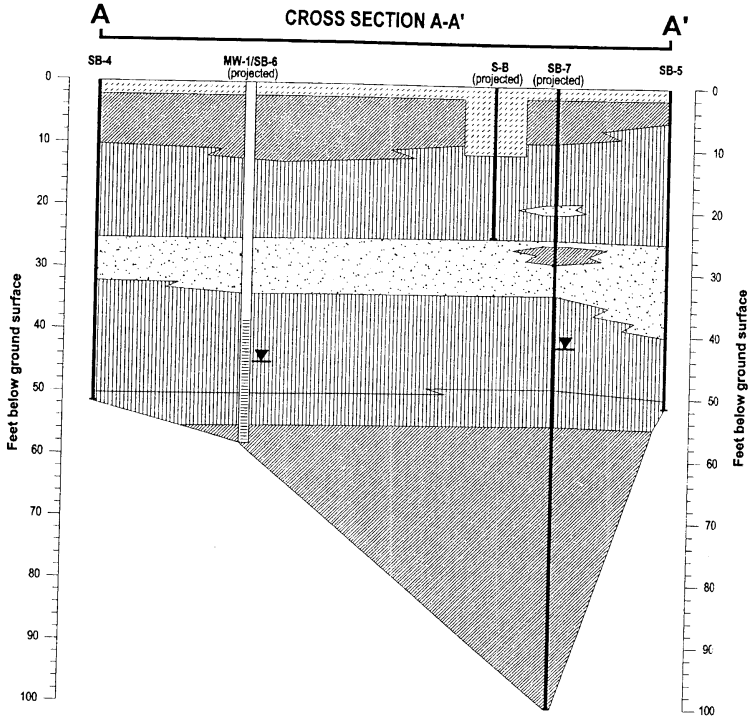
FIGURE **2**

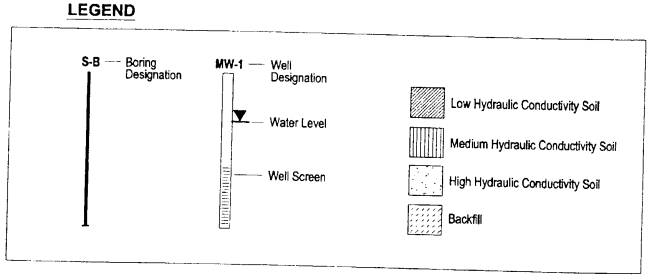
G:\PLEA4226\FIGURES\WELL-LOC.DWG

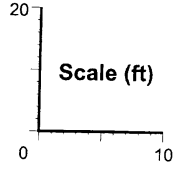
Shell-branded Service Station
4226 First Street
Pleasanton, California
Incident #98995840

CAMBRIA

Monitoring Well Locations







11/04/99

G:\PLE4226\FIGURES\X-SECTION.DWG

Shell-branded Service Station

4226 First Street
Pleasanton, California

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

Geologic Cross Section

Incident #98995840

CAMBRIA

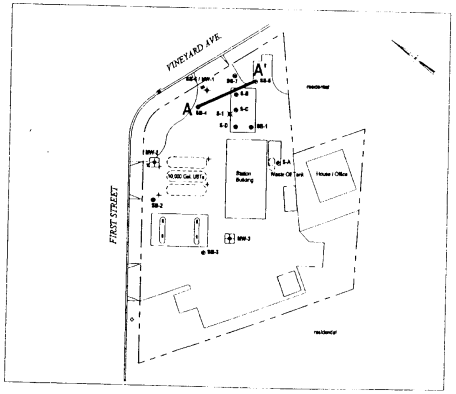


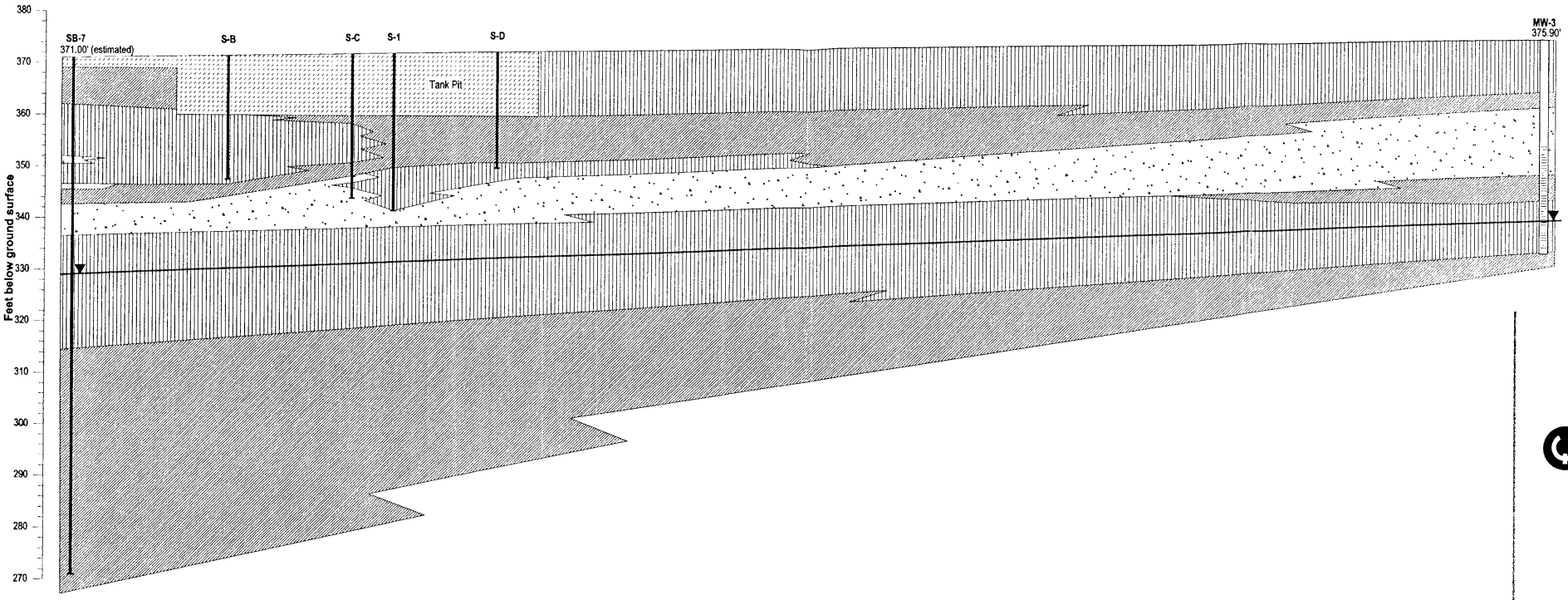
FIGURE 4

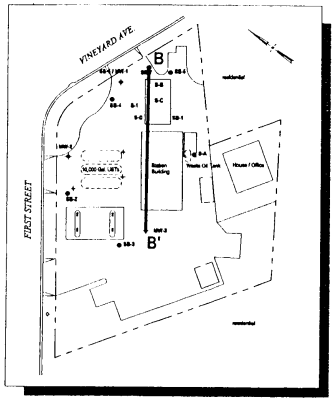
06/09/00

B

CROSS SECTION B-B'

B'





LEGEND

S-B — Boring Designation

MW-1 — Well Designation

Water Level

Well Screen

Low Hydraulic Conductivity Soil

Medium Hydraulic Conductivity Soil

High Hydraulic Conductivity Soil

Backfill

20

Scale (ft)

0 10

FIGURE

5

Geologic Cross Section B-B'

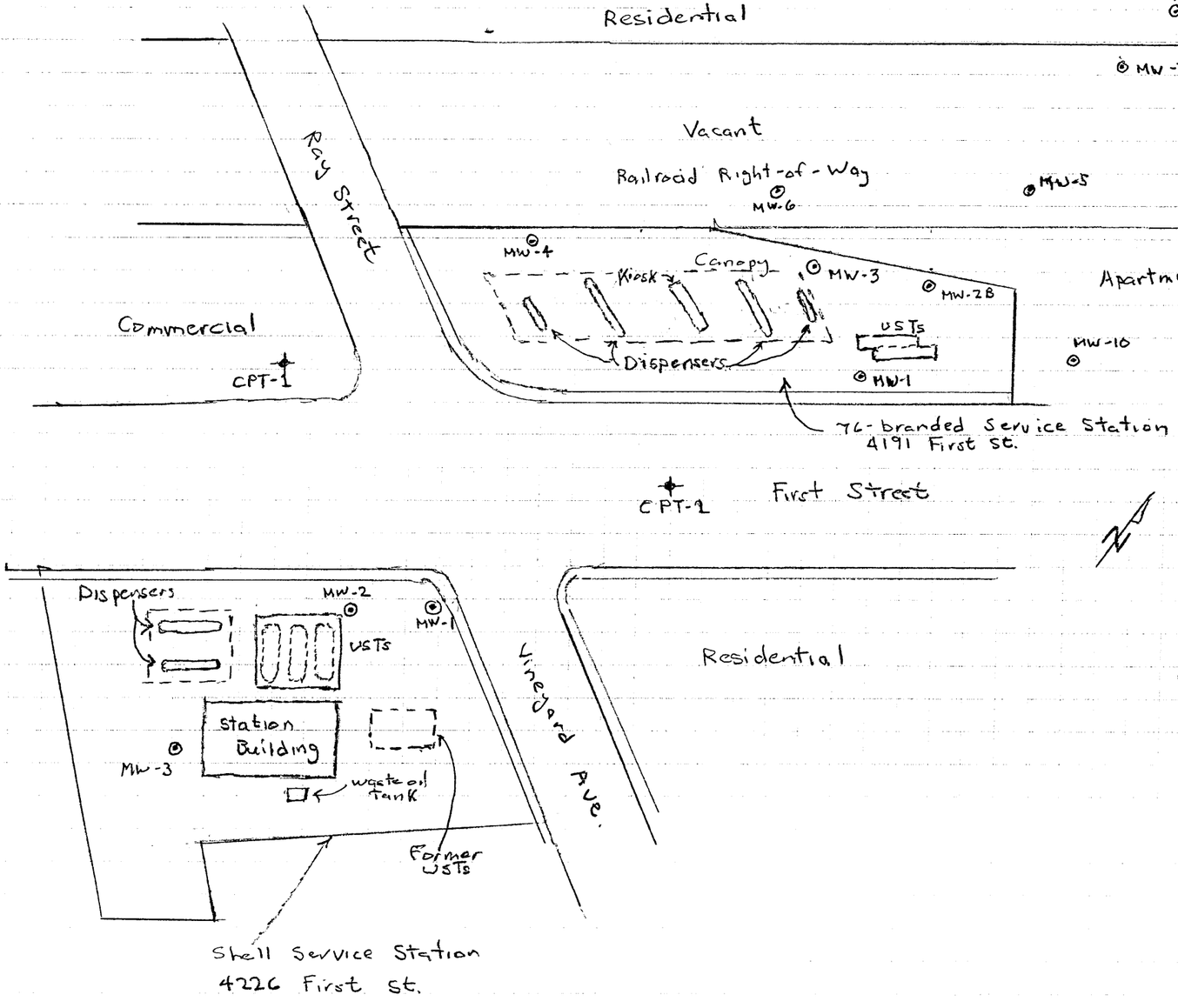
CAMBRIA

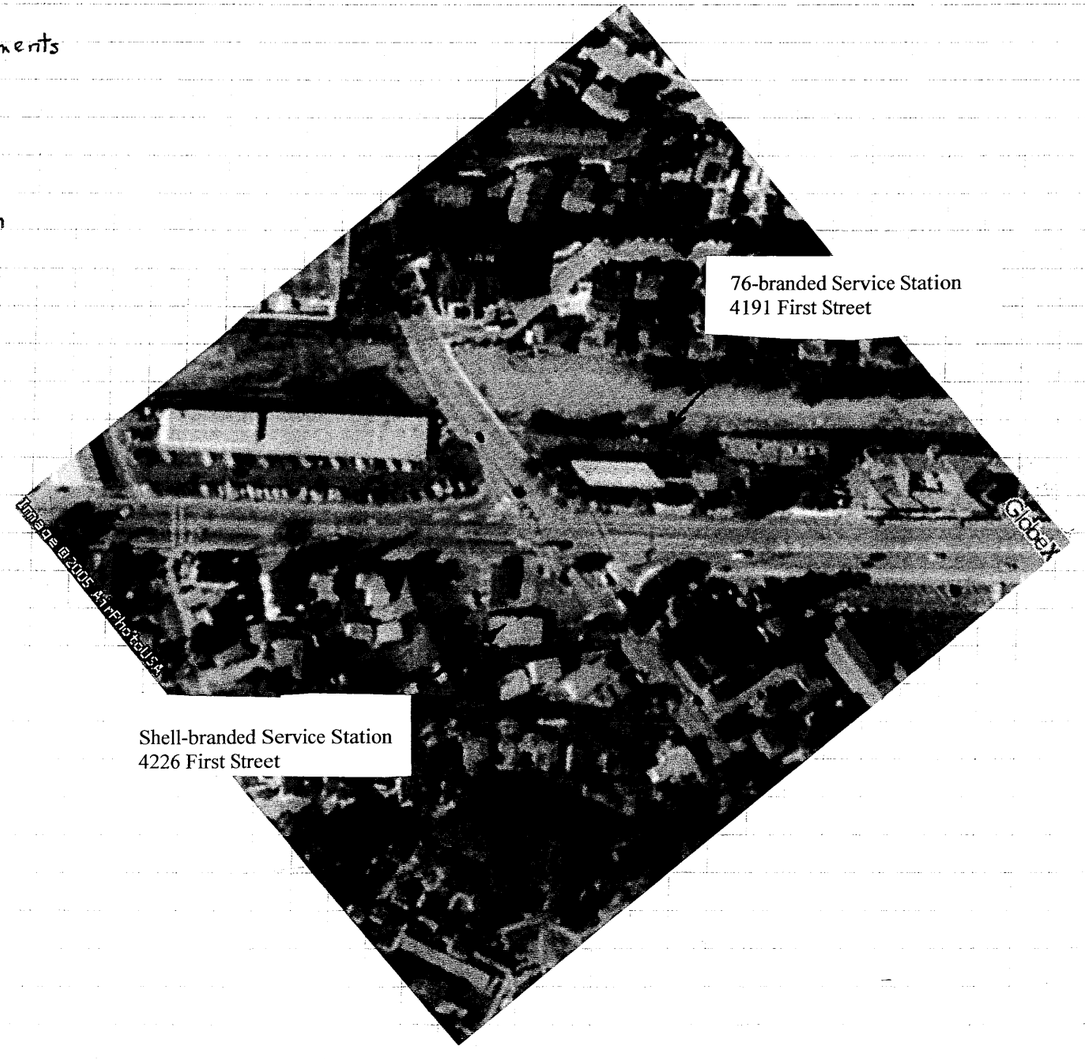
Shell-branded Service Station

4226 First Street

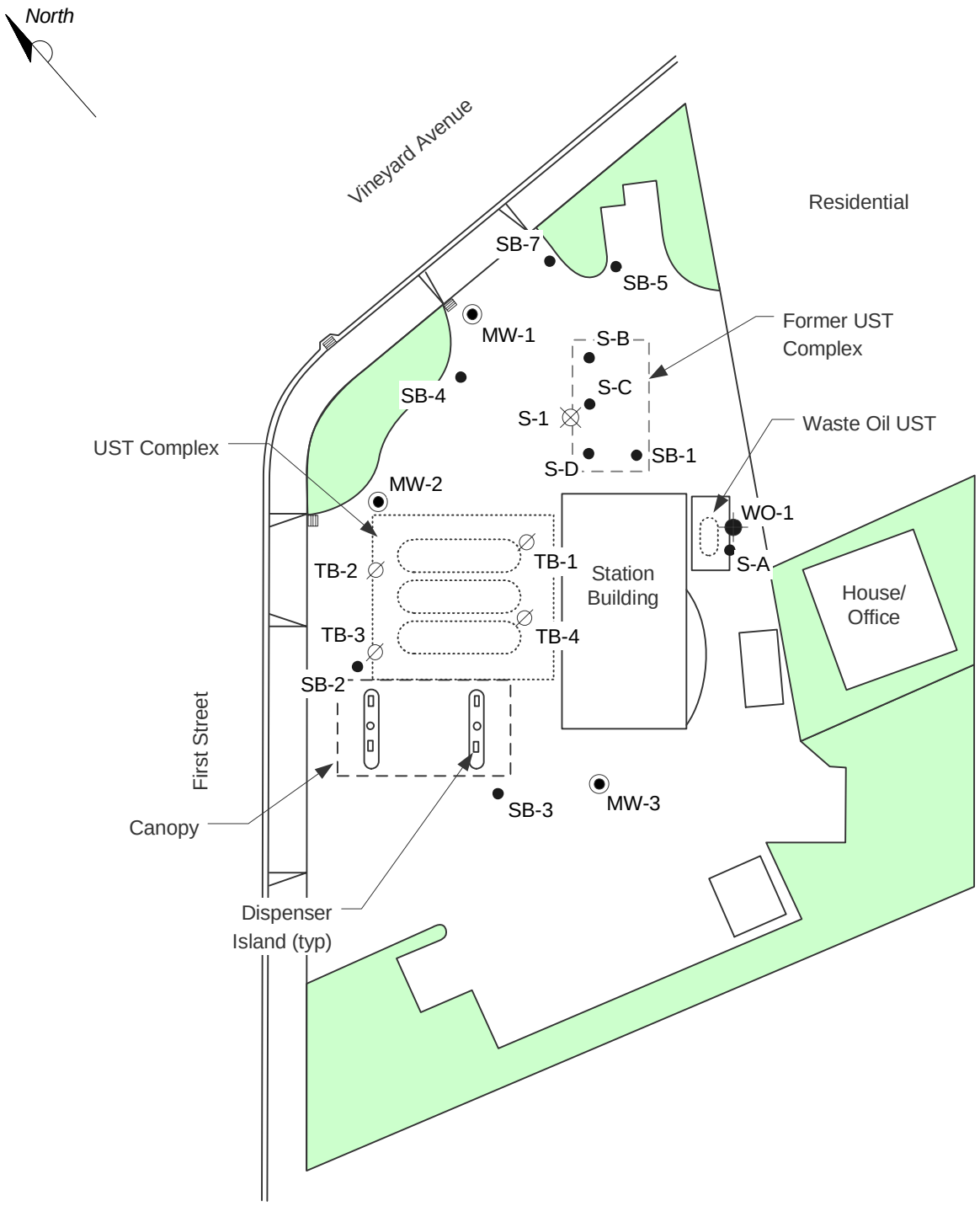
Pleasanton, California

G:\PLEA2299\FIGURES\X-SECTION-B.DWG





Shell-branded Service Station
4226 First Street, Pleasanton, CA



LEGEND

MW-2 **GROUNDWATER MONITORING WELL LOCATION**

S-1 **DESTROYED WELL**

TB-1 **ABANDONED TANK BACKFILL WELL LOCATION**

S-C **SOIL BORING LOCATION**

WO-1 **PROPOSED SOIL BORING LOCATION**

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

0 40 FT

APPROX. SCALE

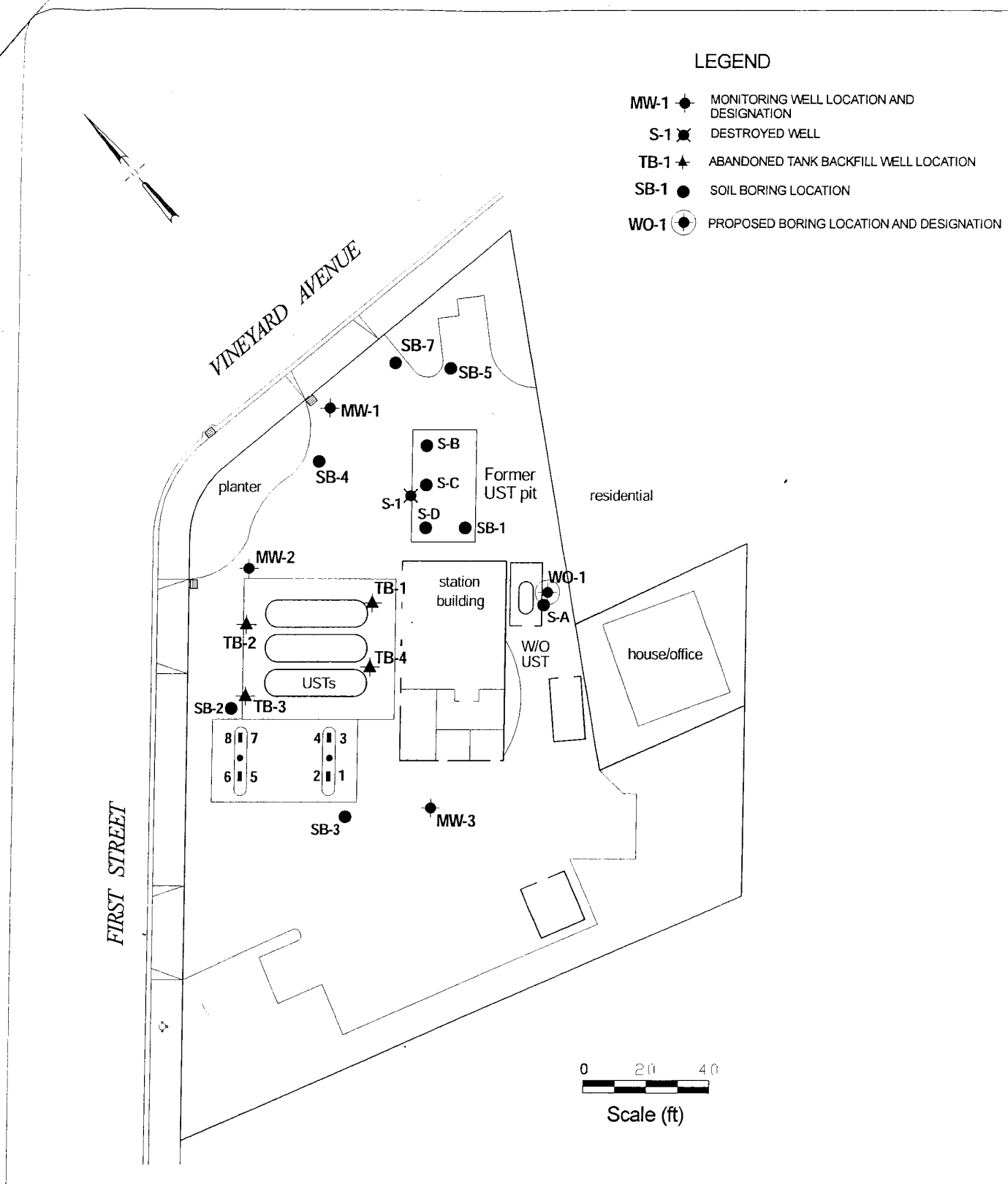
FIGURE 2

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.

TOXICHEM Management Systems, Inc. Environmental & Occupational Health Services	Shell-Branded Service Station 4226 First Street Pleasanton, California	FIGURE: 2
	SITE MAP	PROJECT: EQ-76

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

EMCON ASSOCIATES

PLATE A

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 PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION
		Push		5	1	SW	CONCRETE. SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; loose; damp; strong gasoline odor.
		2			2		@7': strong gasoline odor.
		64		10	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		15	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.
	2.3	41		20	5		@19': olive gray (5Y, 4/2) to olive (5Y, 5/6); 20% fine to medium sand; no coarse sand; no gasoline odor.
	0.4	50for 6"	▽	25	6		@24': olive (5Y, 4/4); 25% fine to coarse sand; very plastic; soft; faint gasoline odor. BOTTOM OF BORING AT 24½ FEET.
				30			
				35			
				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.

EMCON ASSOCIATES

PLATE B

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 PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION
				0		SW	CONCRETE. SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; damp; strong gasoline odor.
		Push		5	1		
		2			2		@7': loose; strong gasoline odor.
				10			
	4.3	30			3	CL	CLAY; olive (5Y, 5/6, 5/3); 20% fine to coarse sand; silty; hard; damp; no gasoline odor.
		50for 6"		15	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		20	5	CL	CLAY; yellowish brown (10YR, 5/6, 5/8); 35% fine to coarse sand; silty; soft; moist; no gasoline odor.
		72		25	6	SW	SAND: olive (5Y, 4/3); fine to coarse grained; 10% fines; medium dense; moist; no gasoline odor.
		48			7	ML	SANDY SILT; light olive brown (2.5Y, 5/6) 40% fine sand; very stiff; moist; no gasoline odor.
				30		SC	CLAYEY SAND; olive brown (2.5Y, 4/4); fine to coarse grained; 40% clay; dense; moist; faint gasoline odor.
				35			BOTTOM OF BORING AT 28 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 28 to 15 feet, soil cuttings to ½ foot ; concrete to surface.

EMCON ASSOCIATES

PLATE C

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	LITHOGRAPHIC 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.
		2			2		@7': strong gasoline odor.
				10			
	4.25	37			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		15	4		@14': olive (5Y, 4/3); 35% fine to coarse sand; 10% fine gravel; faint gasoline odor.
	2.2	22		20	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			6	ML	SANDY SILT; olive (5Y, 4/4); 40% fine sand; slightly clayey; stiff; damp; faint gasoline odor.
				25			BOTTOM OF BORING AT 22½ FEET.
				30			
				35			
				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.

EMCON ASSOCIATES

PLATE D

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 PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOGRAPHIC 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.
				10			
	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.
		57		25	3	GC	CLAYEY GRAVEL; olive (5Y, 5/4); fine grained; 35% fine to coarse sand; clayey; very dense; damp; no gasoline odor.
		60		30	4		@29': no gasoline odor. 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.

EMCON ASSOCIATES

PLATE E

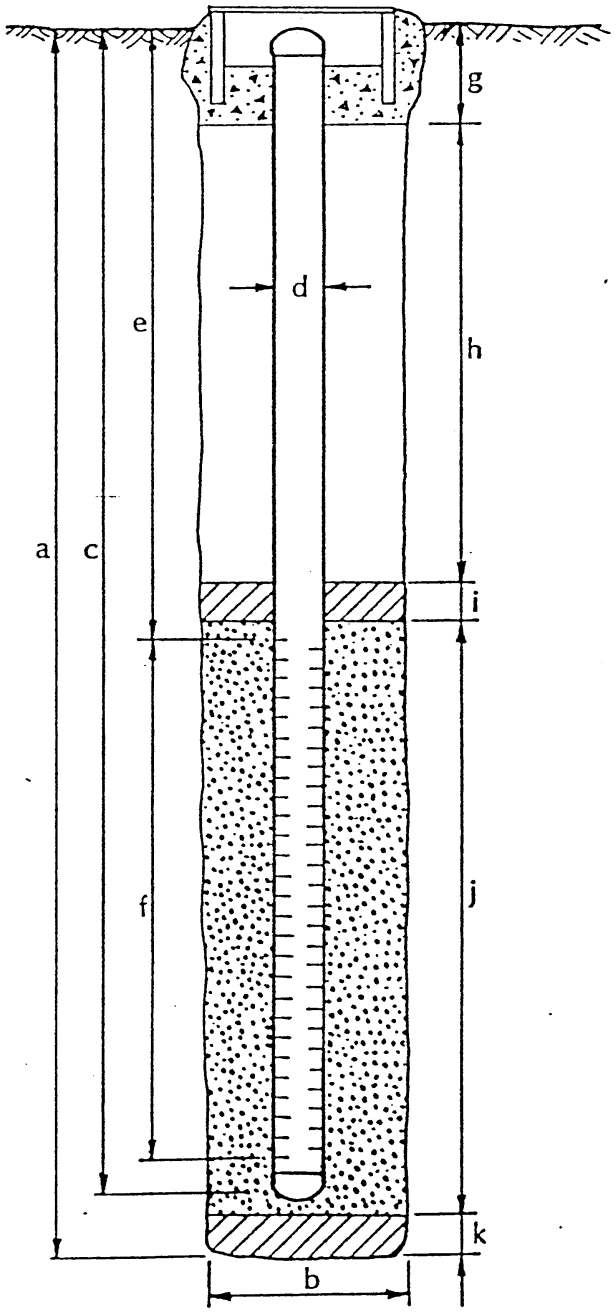
WELL DETAILS

EMCON ASSOCIATES

PROJECT NUMBER 738-60.01
PROJECT NAME Gettler-Ryan, Shell
COUNTY Alameda
WELL PERMIT NO.

BORING / WELL NO. S-1
TOP OF CASING ELEV.
GROUND SURFACE ELEV. 373'±
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

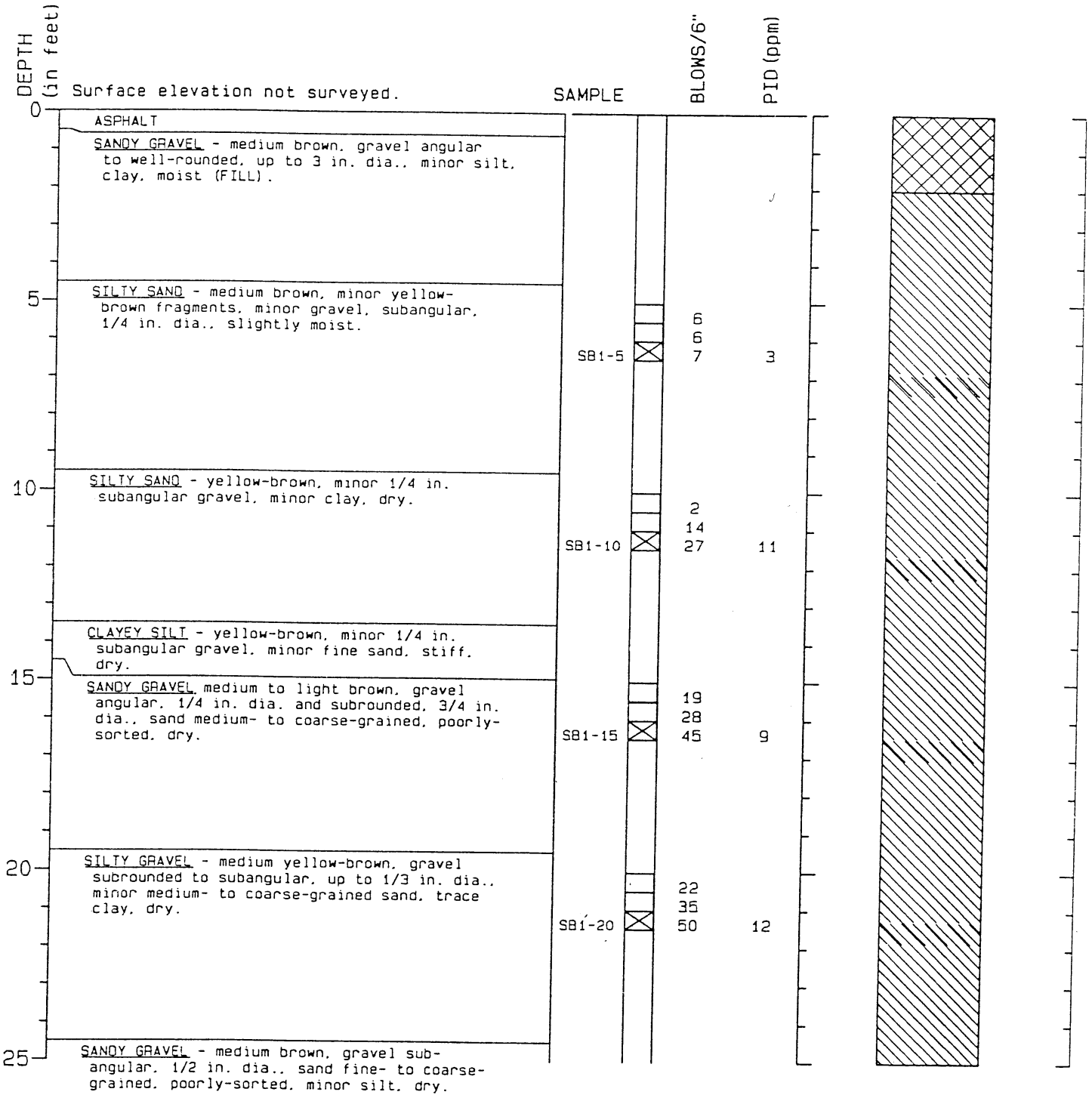
c. Casing length 28½ ft.
Material Schedule 40 PVC
d. Diameter 3 in.
e. Depth to top perforations 14 ft.
f. Perforated length 14½ ft.
Perforated interval from 14 to 28½ ft.
Perforation type Machined Slot
Perforation size 0.020 inch
g. Surface seal 1 ft.
Seal material Concrete
h. Backfill 10 ft.
Backfill 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.

PLATE F

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.

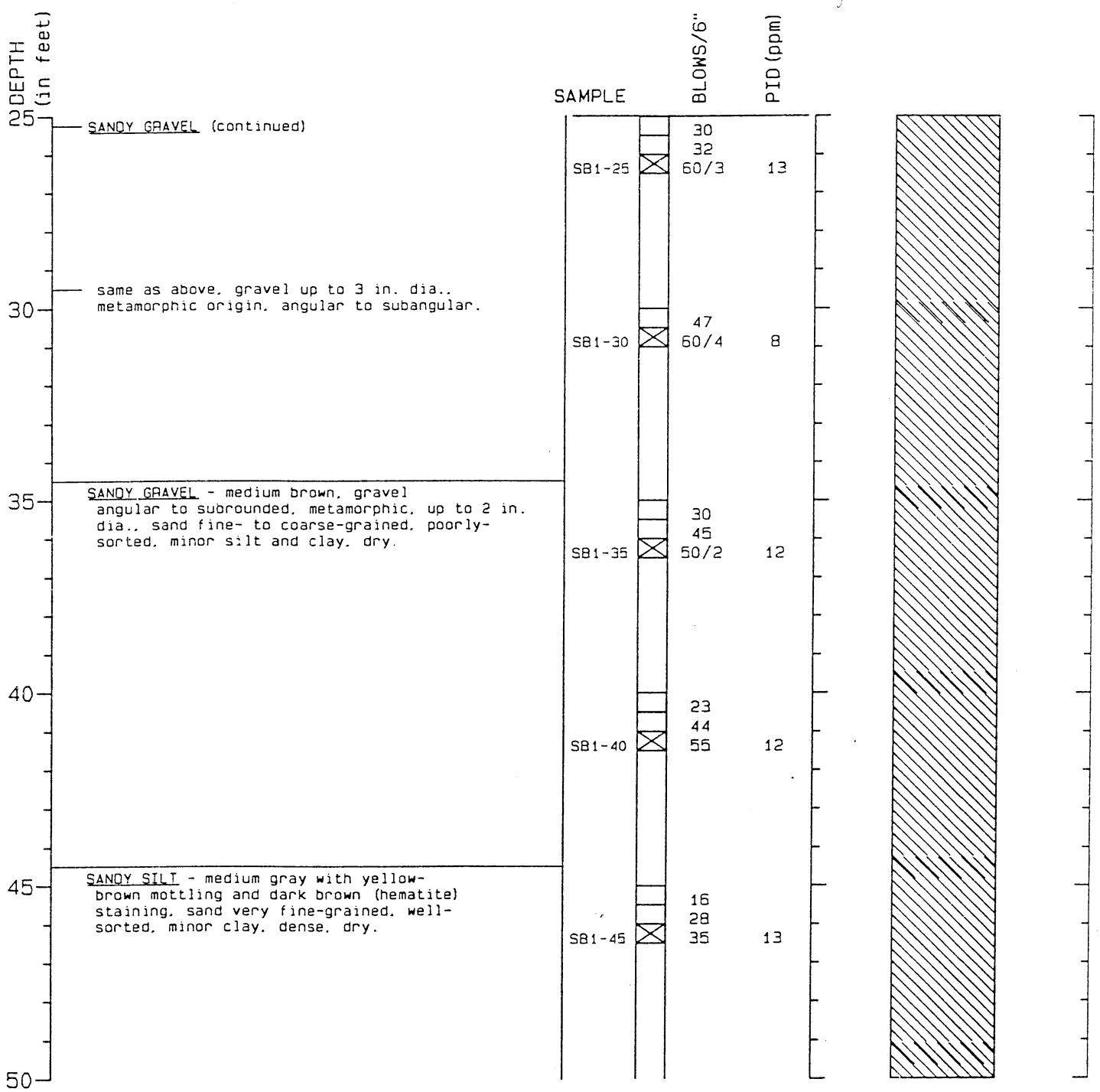
HARTCROWSER

J-6006 4/90

Figure A-2

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.

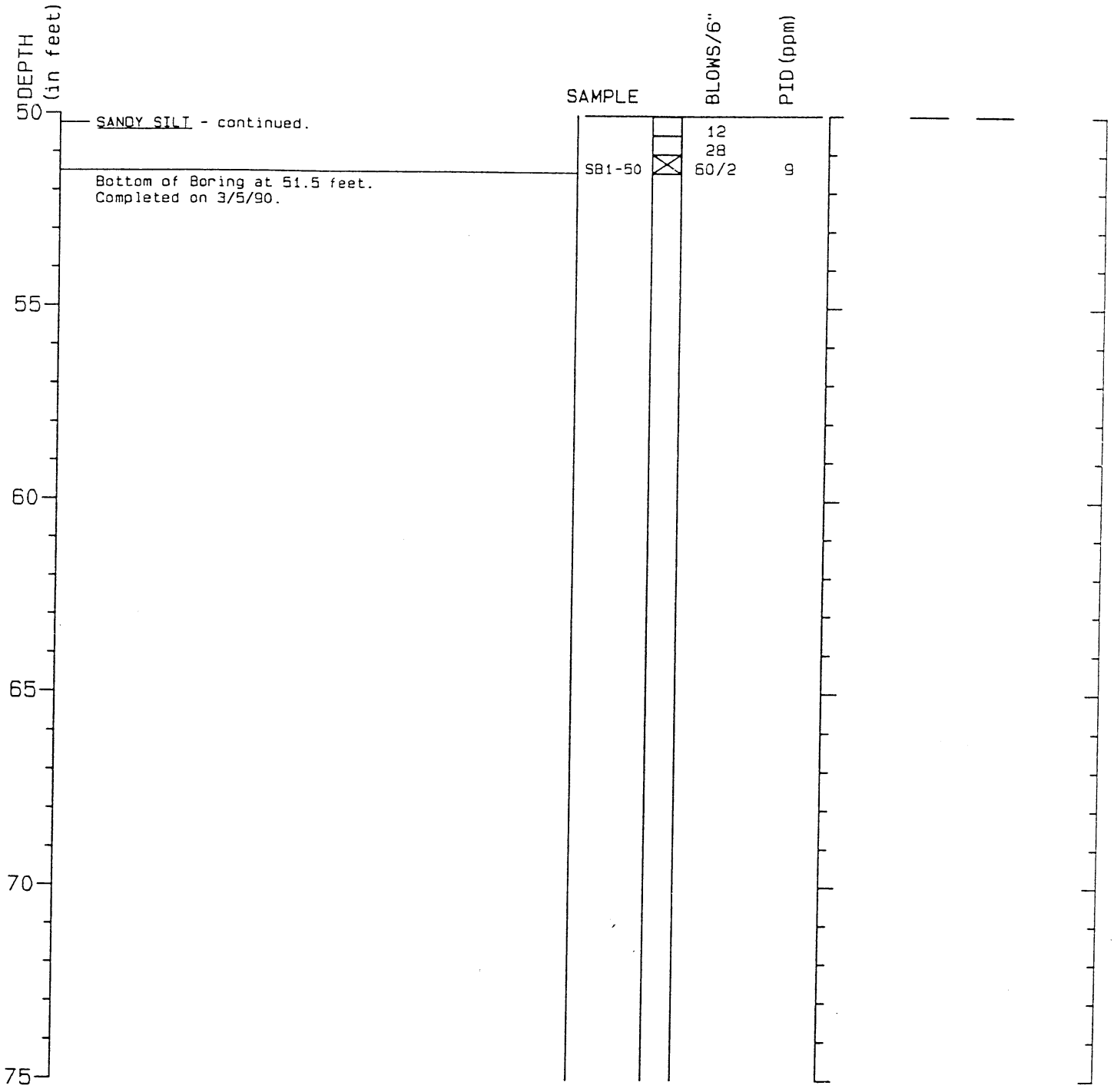
HARTCROWSER

J-6006 4/90

Figure A-2

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

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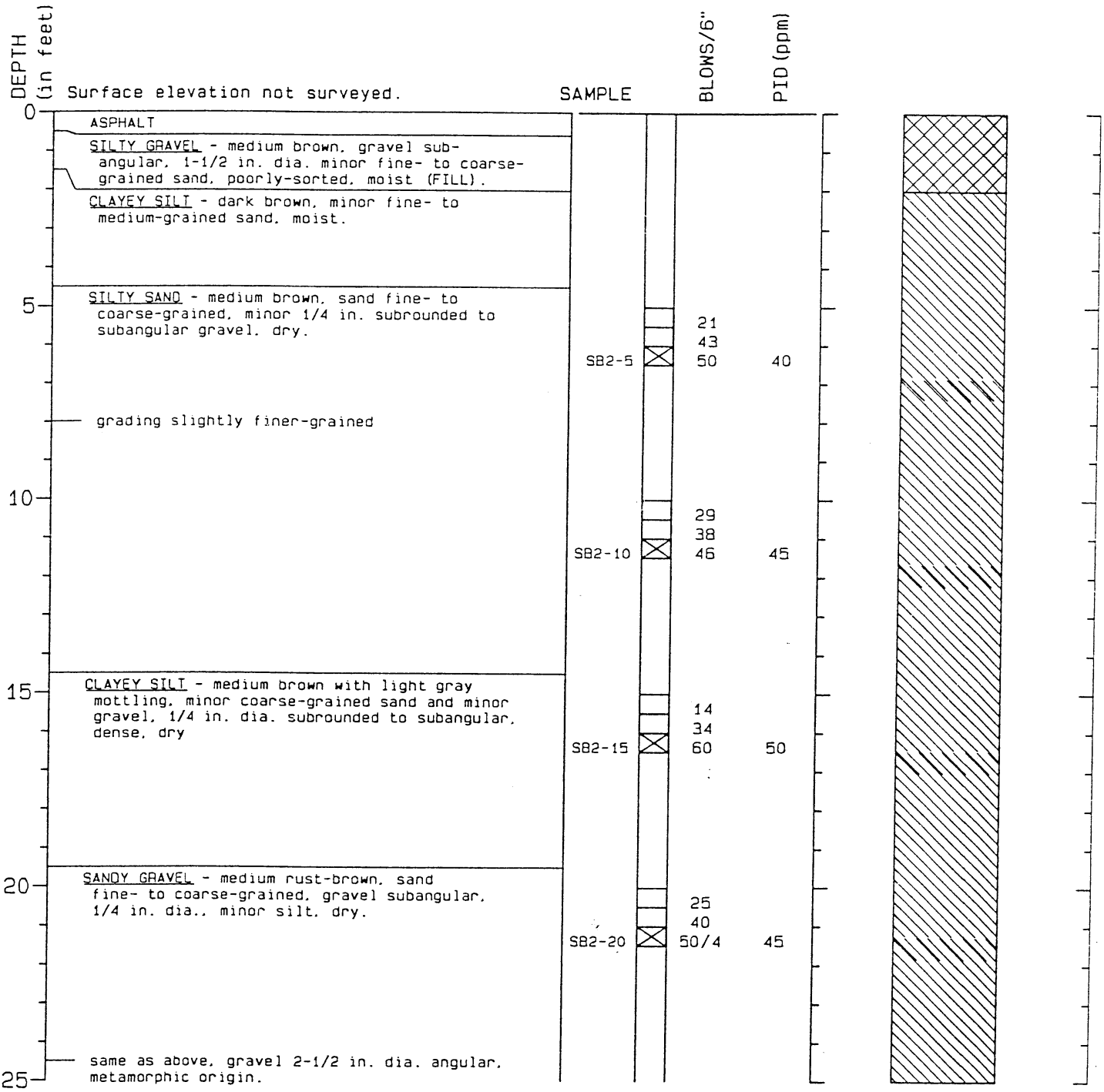
Figure A-2

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.

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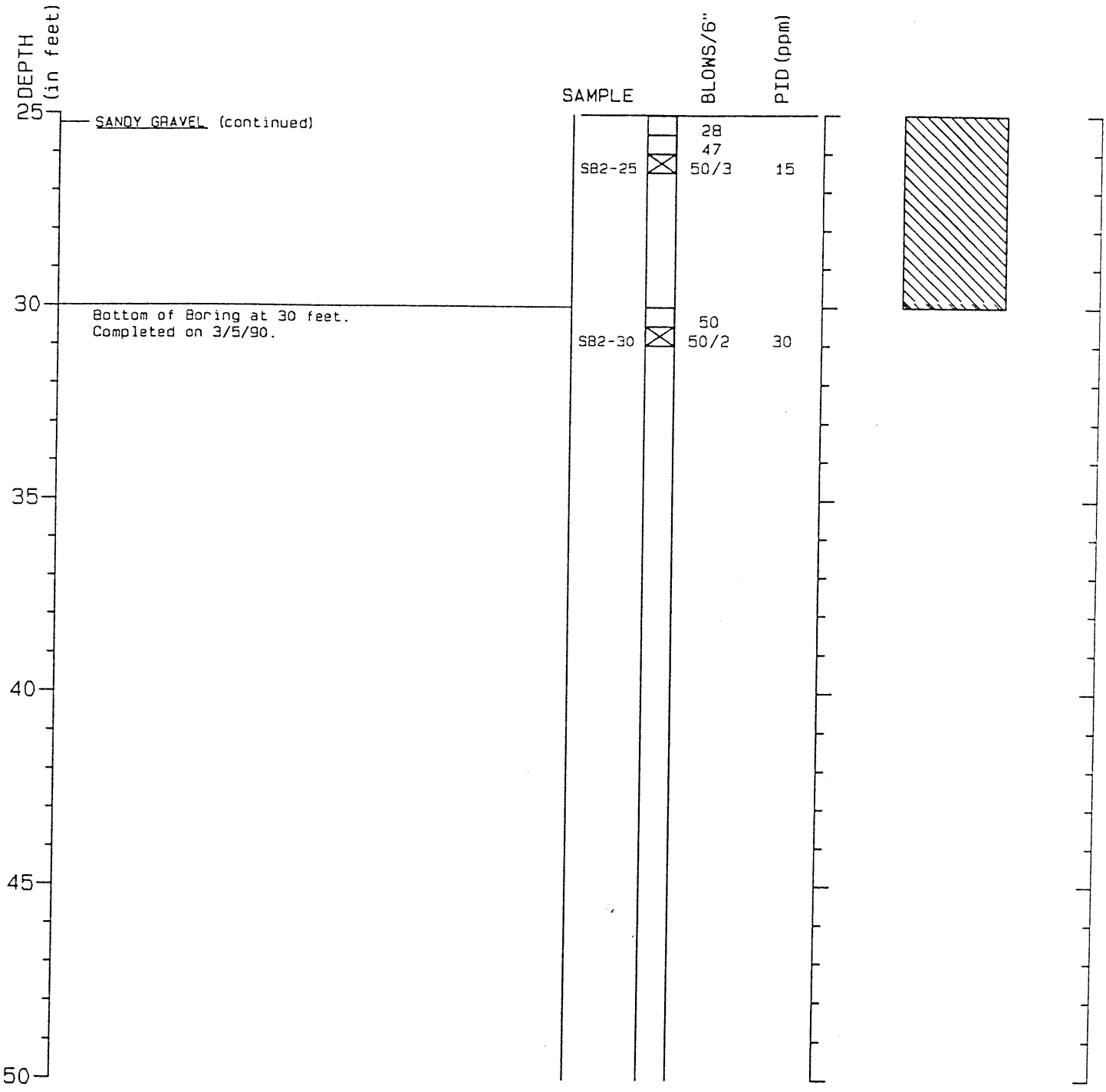
J-6006 3/90

Figure A-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.

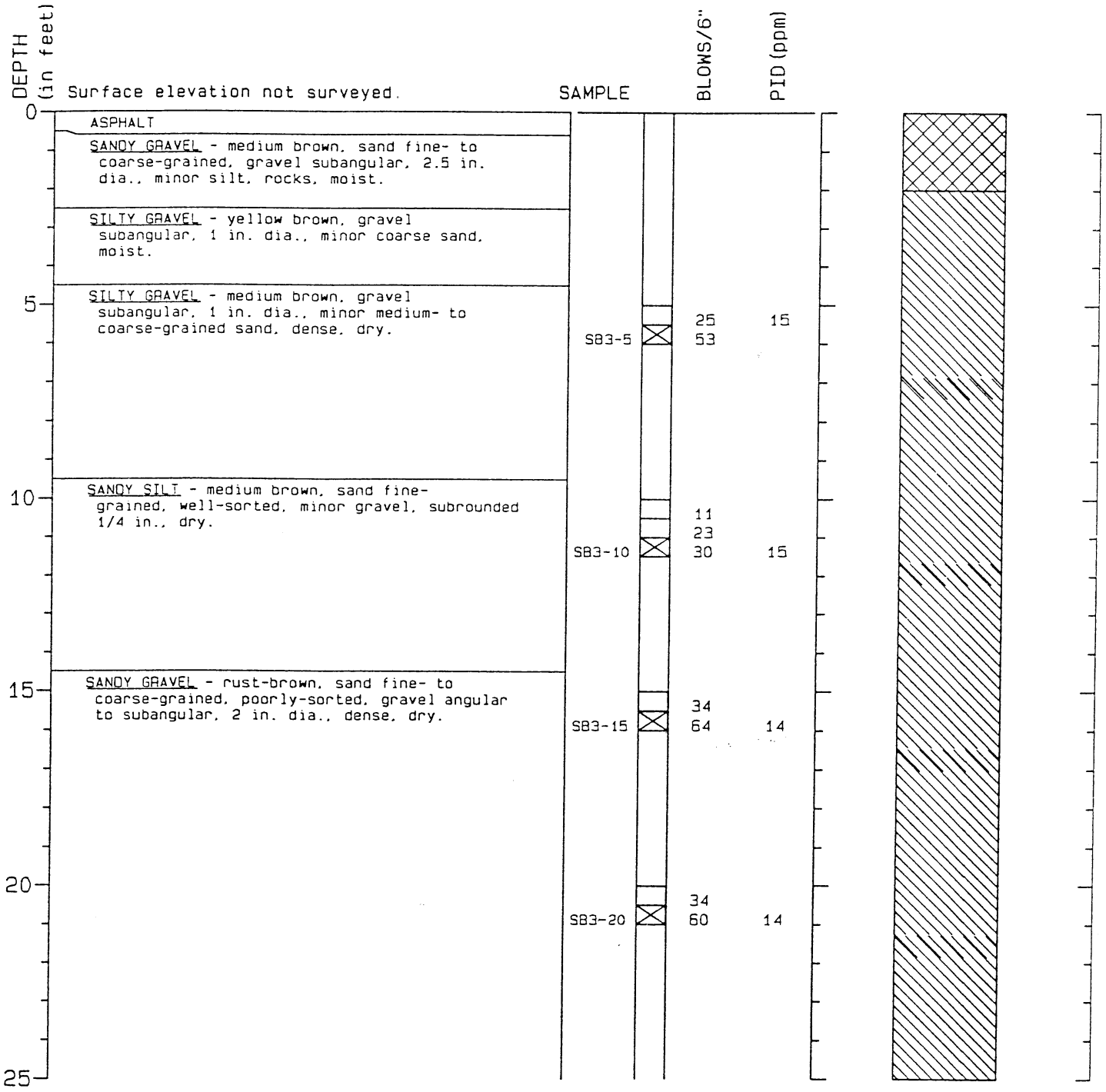
HARTCROWSER

J-6006 3/90

Figure A-3

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.

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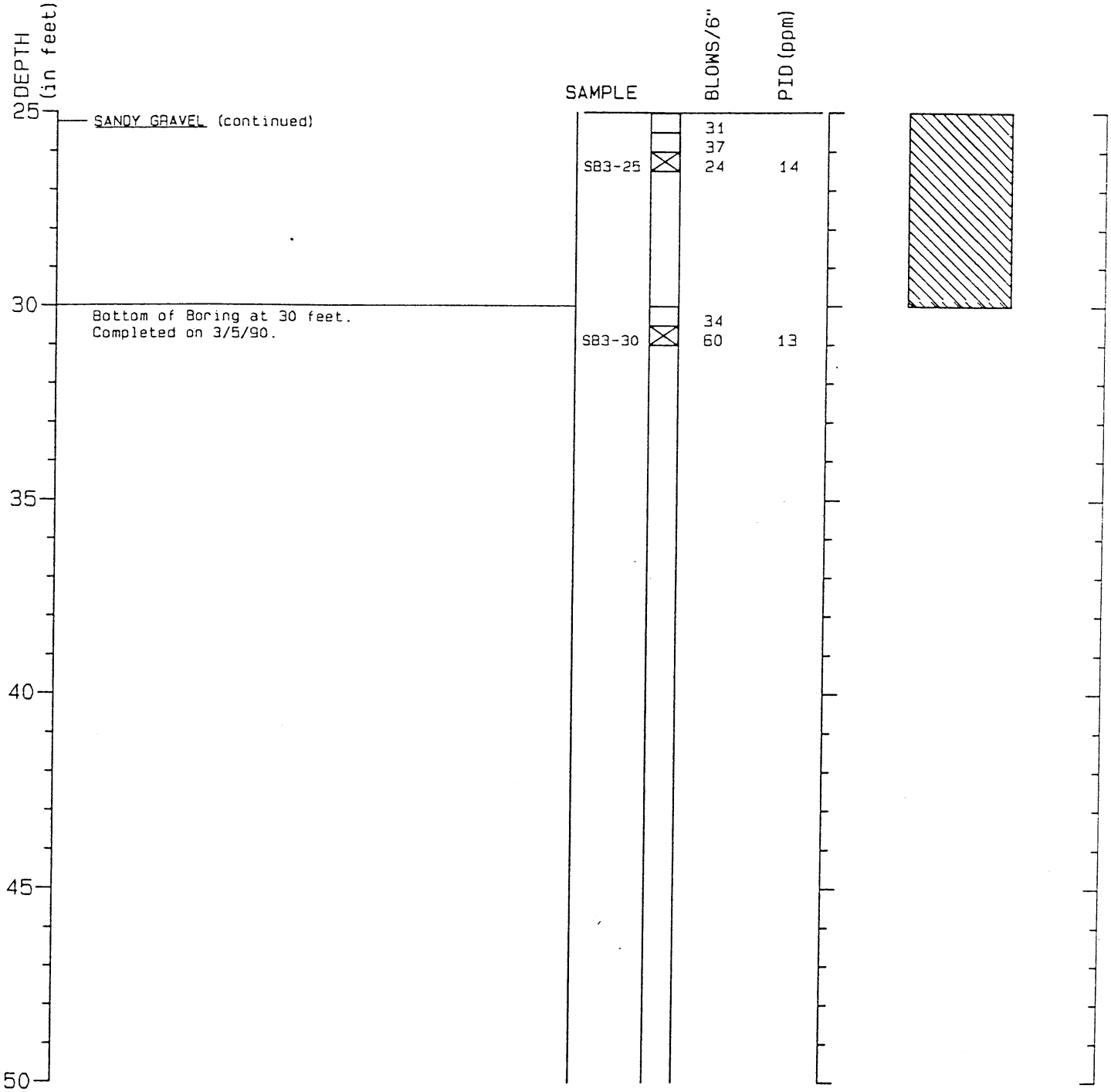
Figure A-4

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.

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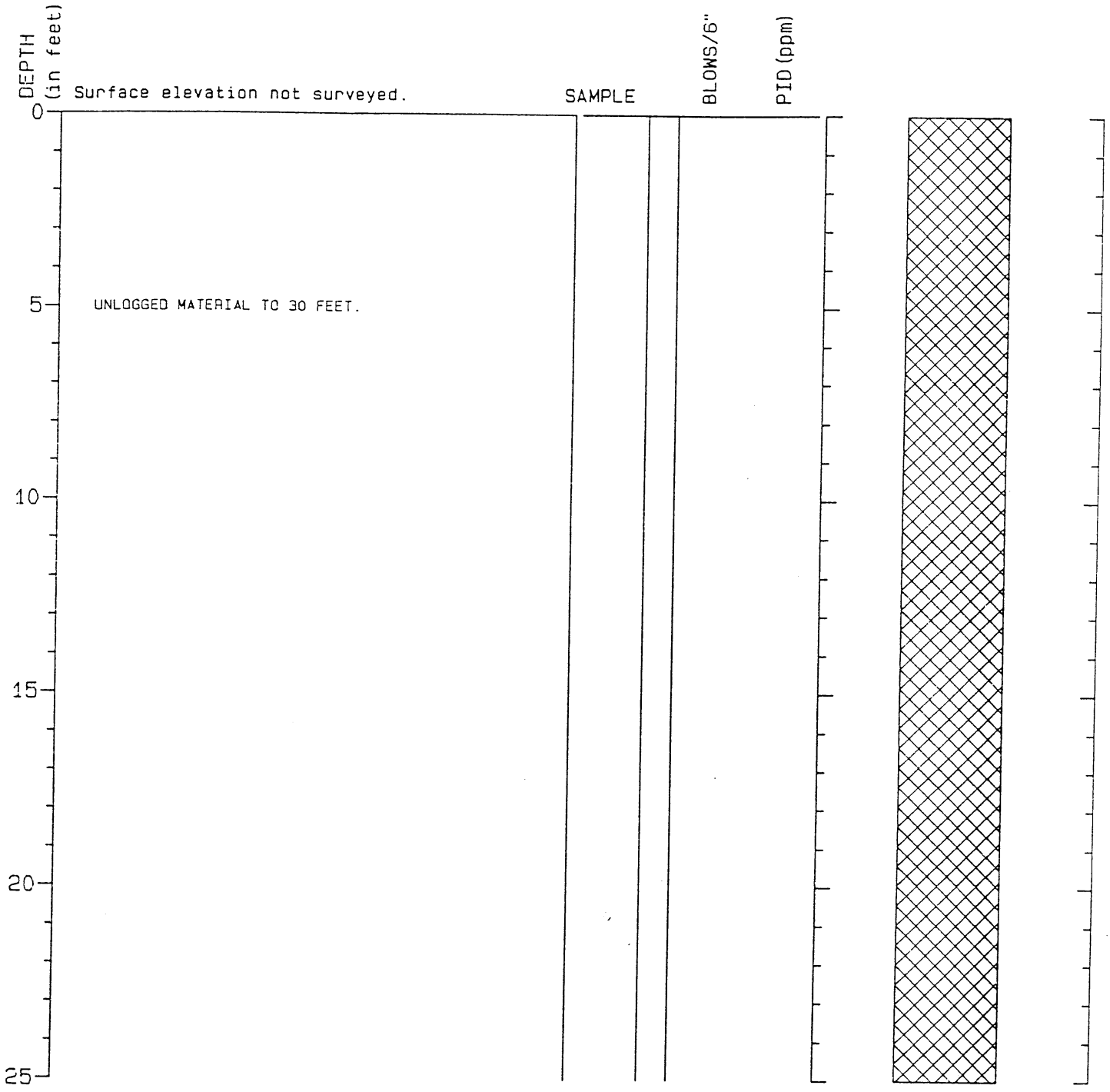
Figure A-4

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.

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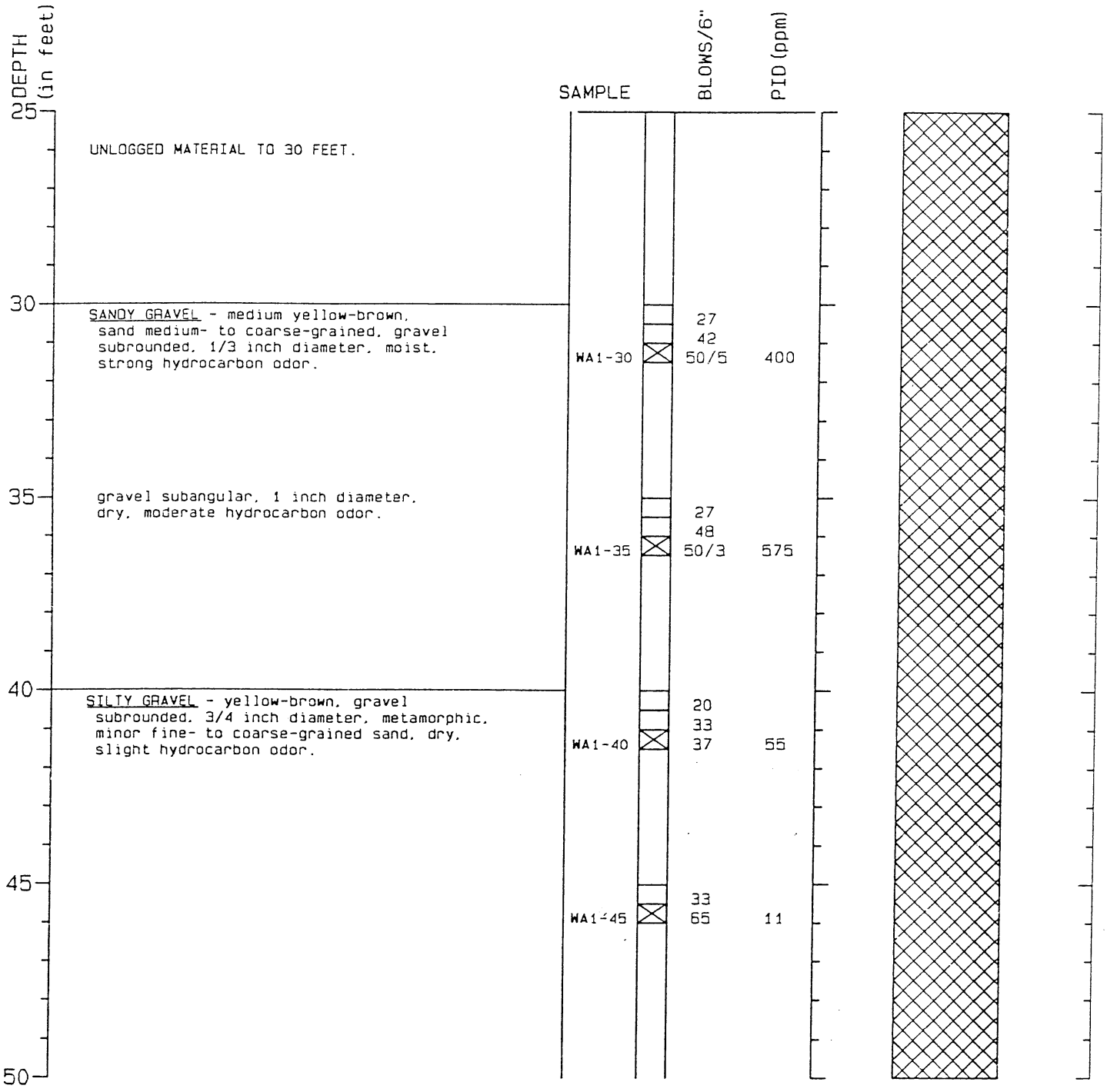
Figure A-5

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.

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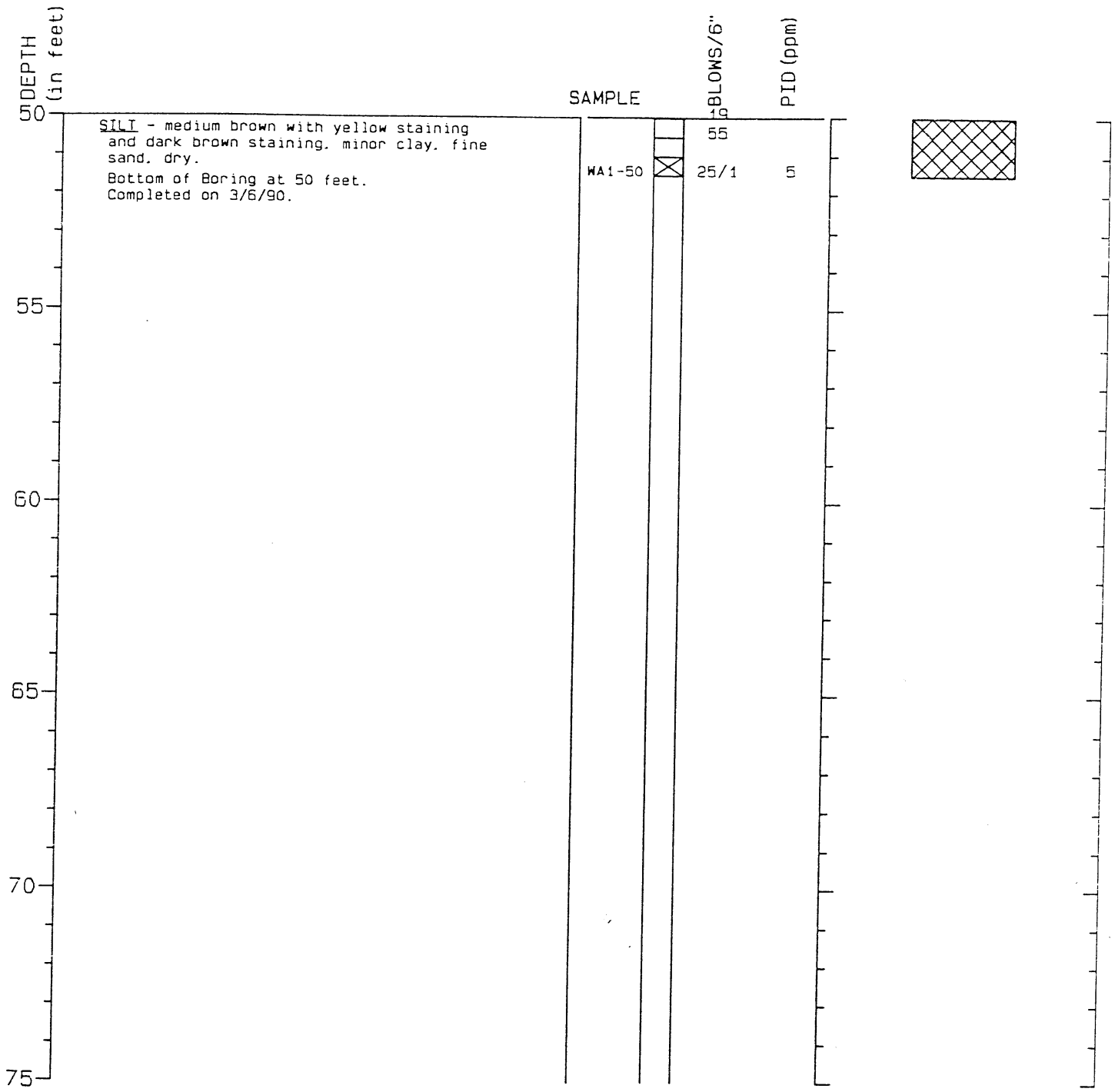
Figure A-5

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.

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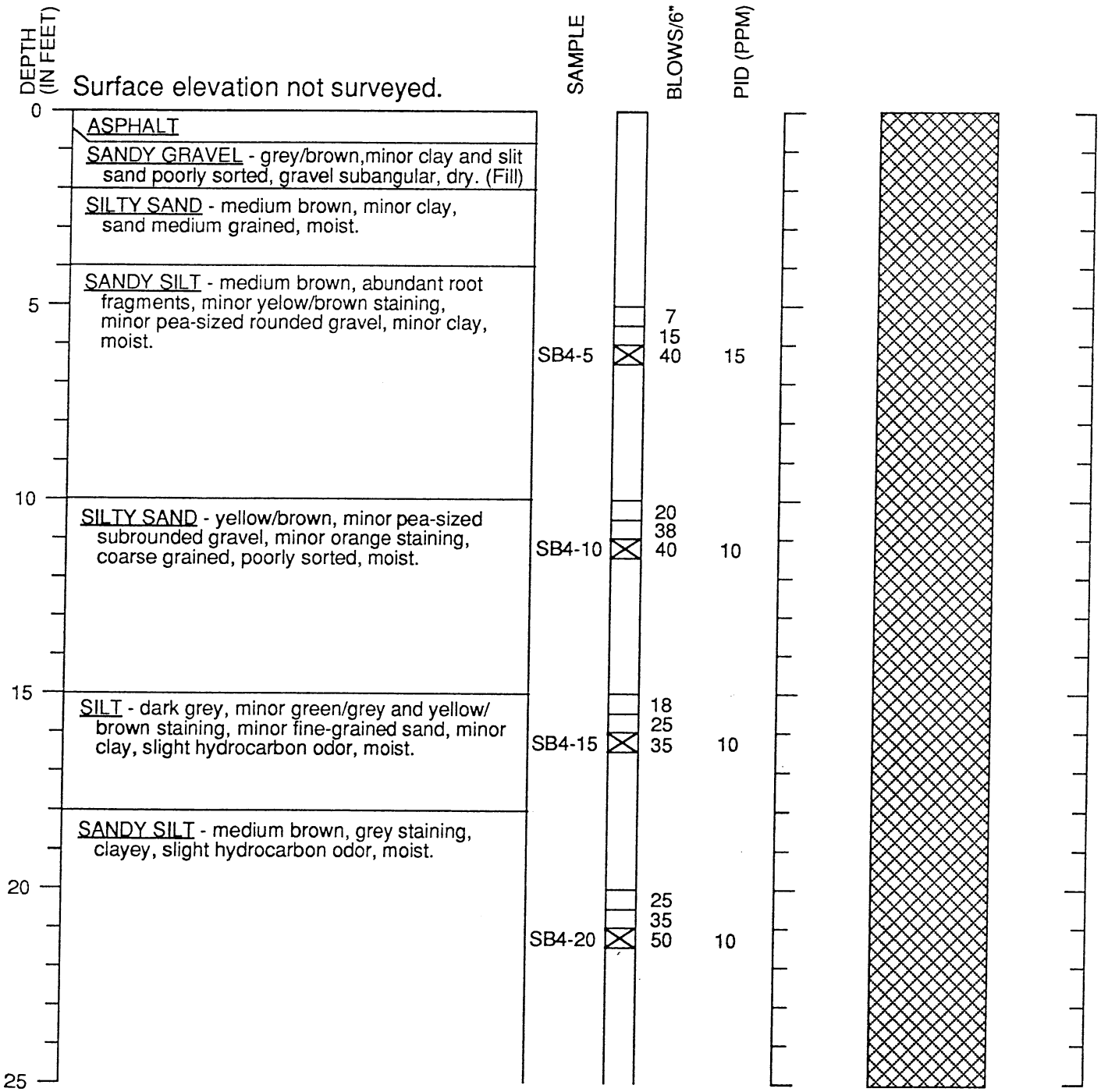
Figure A-5

Boring Log SB-4

Geologic Log



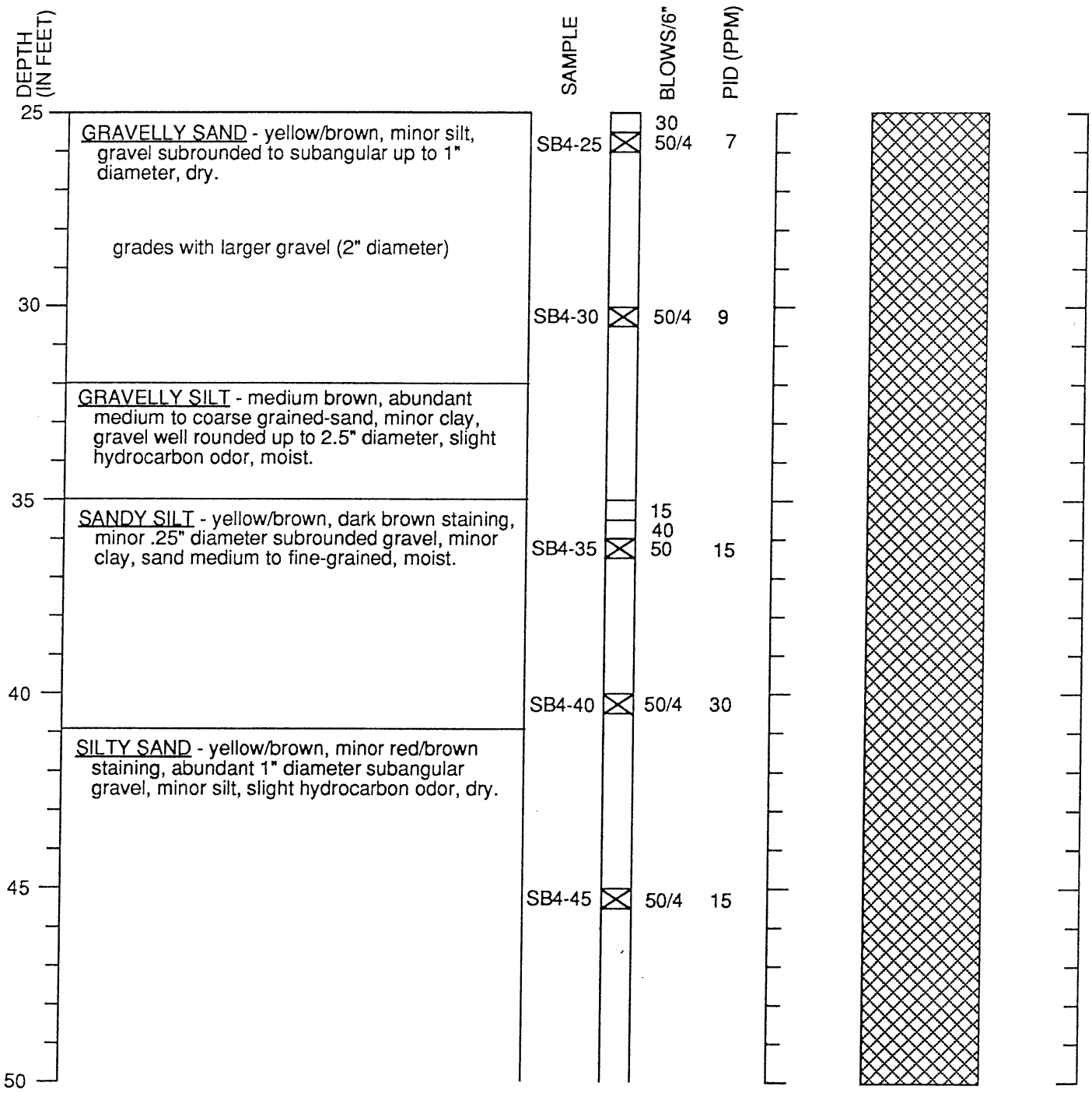
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.

HARTCROWSER

J-6006 *12/90*
Figure A-2

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.

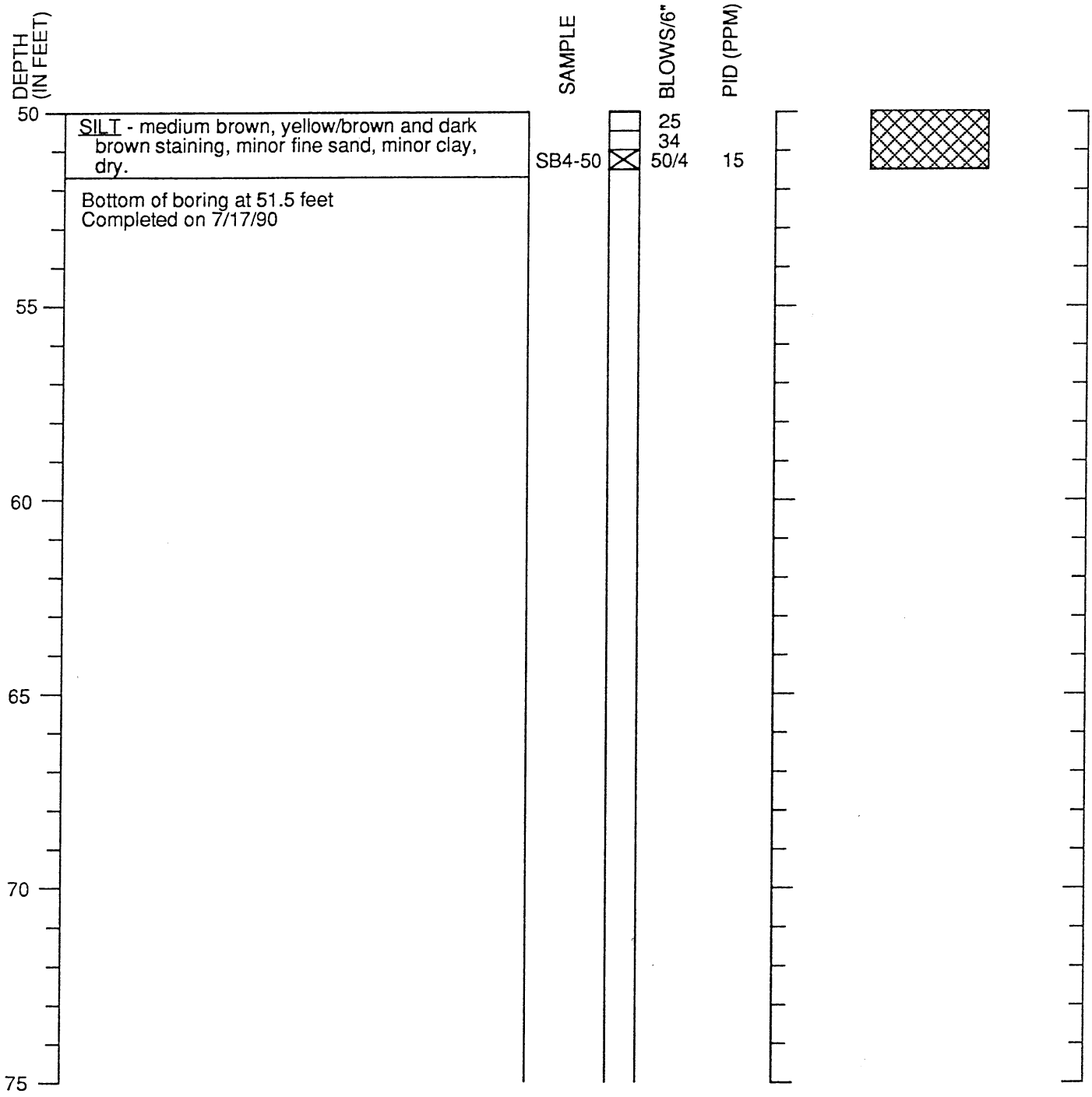
HARTCROWSER

J-6006 *12/90*

Figure A-2

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.

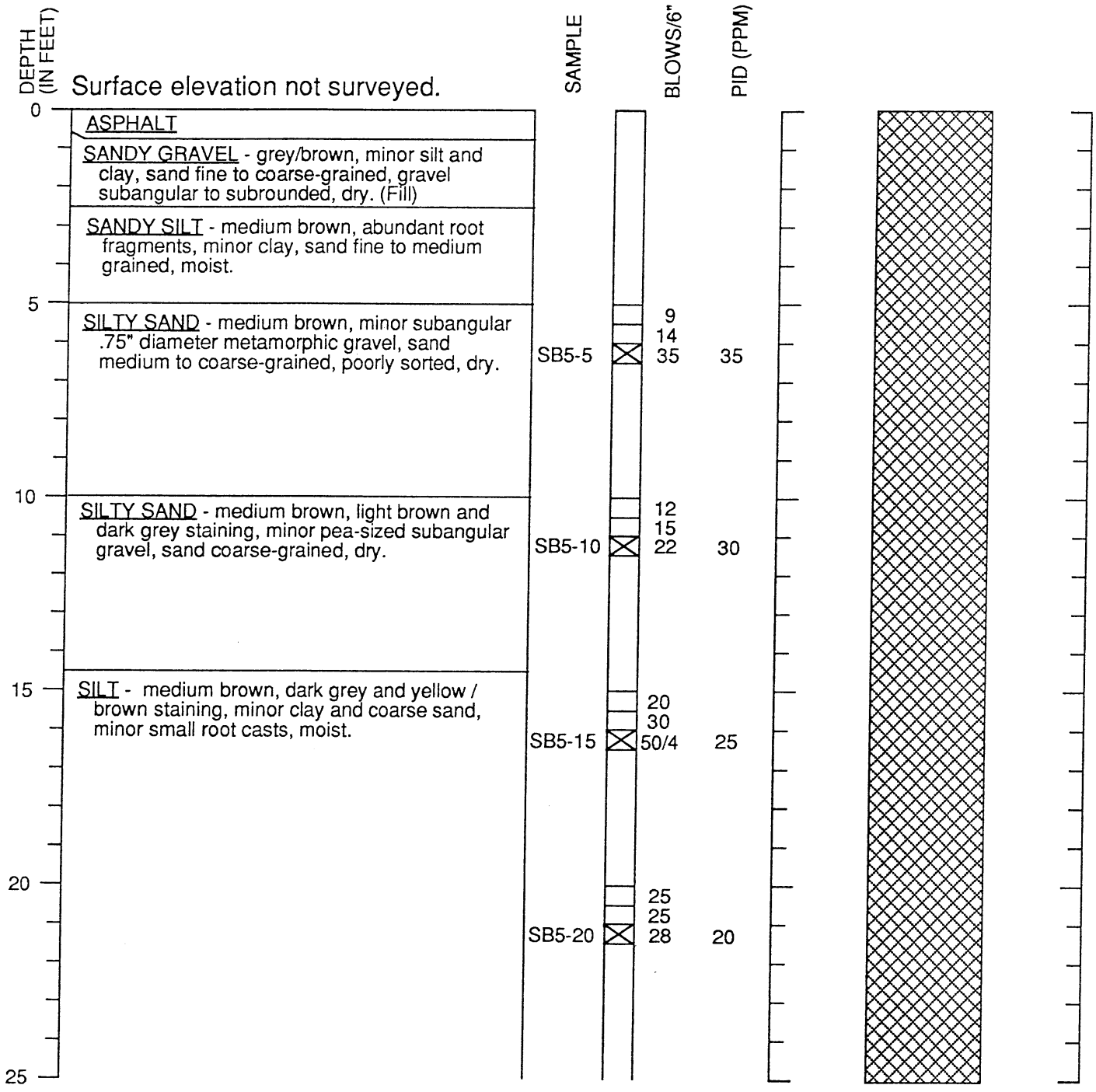
HARTCROWSER

J-6006 *12/90*

Figure A-2

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.

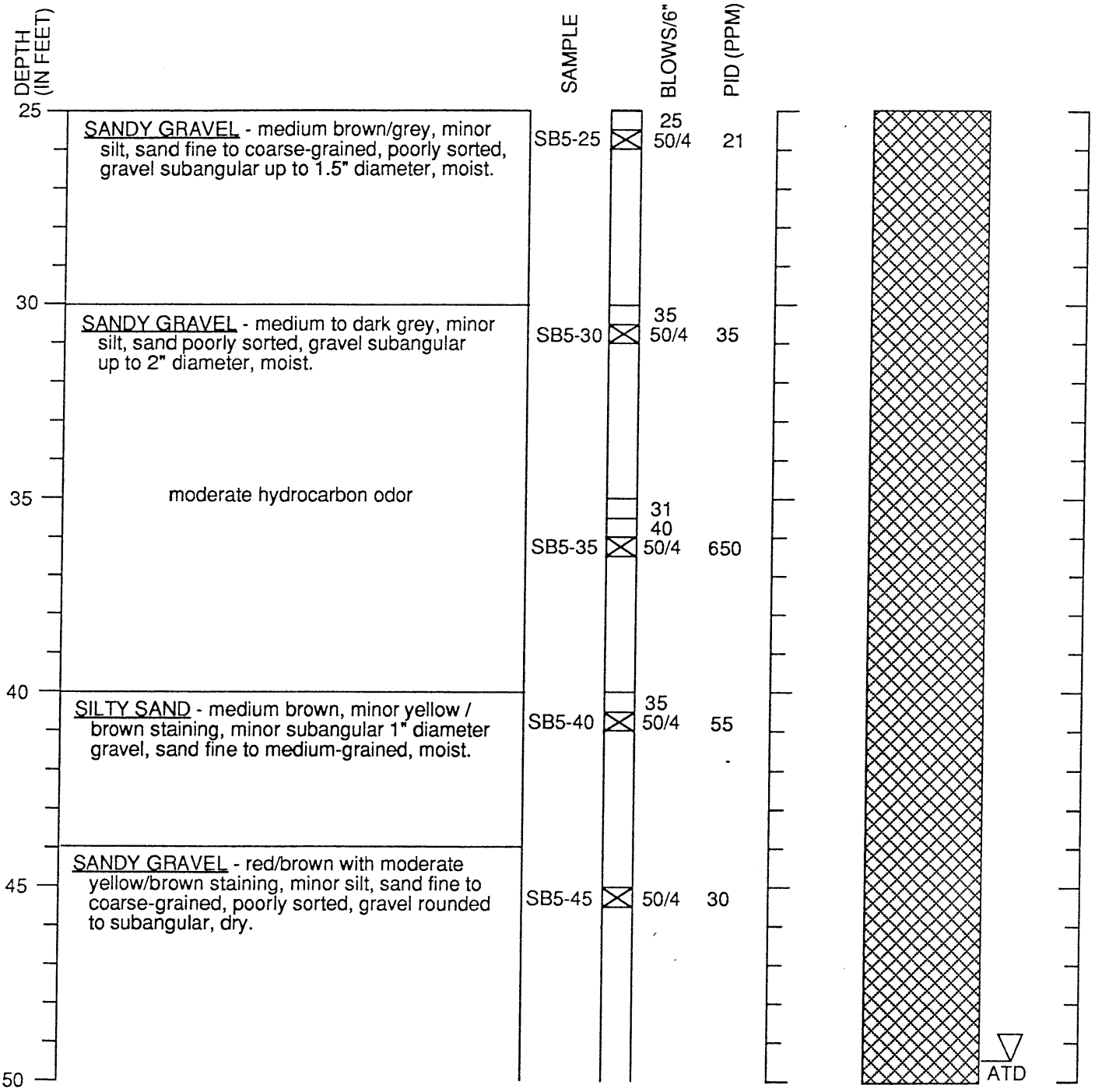
HARTCROWSER

J-6006 *12/90*

Figure A-3

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

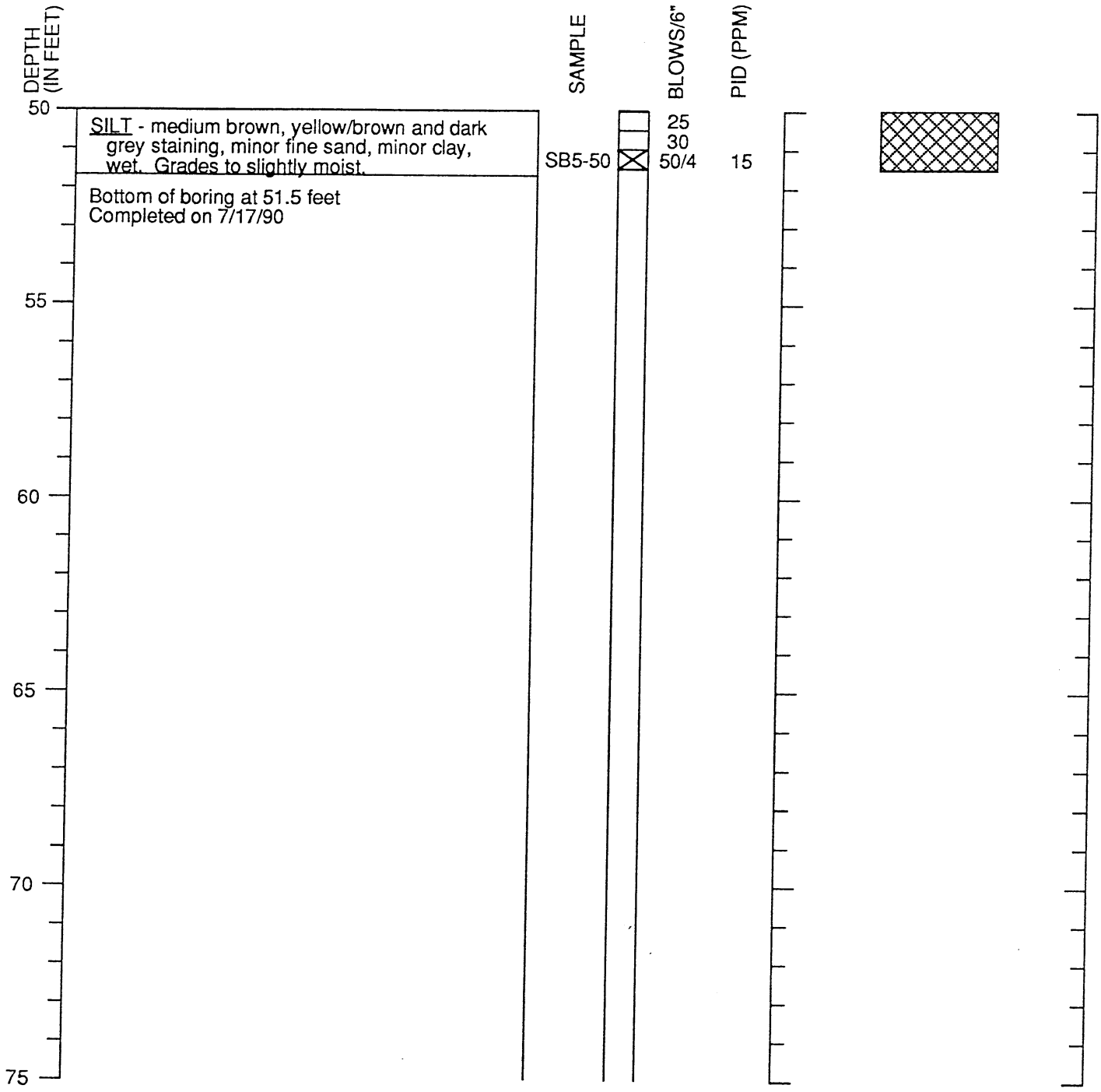
HARTCROWSER

J-6006 *12/90*

Figure A-3

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.

HARTCROWSER

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.		

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
								ASPHALT.	0.3
								FILL.	1.5
						ML		**Sandy SILT**; (ML); brown (10YR4/3); very soft; wet; 5% clay, 70% silt, 25% fine to medium grained sand; low plasticity; moderate to low estimated permeability.	4.5
					5	ML		**SILT**; (ML); dark yellow brown (10YR4/6); stiff; moist; 5% clay, 85% silt, 8% sand, 2% fine grained gravel; low plasticity; low estimated permeability.	9.7
					10	ML		**Clayey SILT**; (ML); yellow brown (10YR5/8); stiff; damp; 38% clay, 50% silt, 2% fine grained sand, 10% fine to coarse subangular gravel; high plasticity; low estimated permeability.	15.0
<1.0	18 26 30		SB-6 -15.5		15	SP		**Clayey Gravelly SAND**; (SP); dark greenish gray (5GY4/1); dense; damp; 20% clay, 50% sand, 30% gravel; medium plasticity; low to moderate estimated permeability; wood fragments.	19.3
<1.0	13 11 20		SB-6 - 19.5		20	ML		**Sandy SILT with Clay**; (ML); olive (5Y4/3); very stiff; damp; 15% clay, 50% silt, 35% very fine grained sand; low plasticity; moderate to low estimated permeability.	24.5
<1.0	20 28 30		SB-6 - 25.0		25	SP		**Gravelly SAND with Silt**; (SP); olive (5Y4/3); dense; damp; 5% clay, 15% silt, 60% fine to medium grained sand, 20% gravel; no plasticity; high to moderate estimated permeability.	29.0
<1.0	40 43 45		SB-6 - 30.0		30	GP		**Sandy GRAVEL**; (GP); olive (5Y4/3); very dense; damp; 2% clay, 13% silt, 35% medium grained sand (red grains), 50% fine to coarse, subangular to subrounded gravel (chert); no plasticity; high estimated permeability.	34.0
	20 35				35			**Clayey Gravelly SAND**; (SP); dark yellow brown	

WELL DIAGRAM: Portland Type I/II; 2" diam., Schedule 40 PVC; Bentonite Seal

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

Continued Next Page

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
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	50		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
	20									
	45									
<1.0	50/4		SB-6 - 40.0		40	SP				
	25							@ 44' - moist to wet.		
	45									
	45				45					
	32				50			**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
	60/6					GC				
	15				55			**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	
	40					MH				
	50								58.0	Bottom of Boring @ 58 ft

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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.

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
								ASPHALT.	0.3
								FILL.	1.5
						ML		**Sandy SILT**; (ML); brown (10YR4/3); very soft; wet; 5% clay, 70% silt, 25% fine to medium grained sand; low plasticity; moderate to low estimated permeability.	
	11 12 19				5				4.5
						ML		**SILT**; (ML); dark yellow brown (10YR4/6); stiff; moist; 5% clay, 85% silt, 8% sand, 2% fine grained gravel; low plasticity; low estimated permeability.	
	15 25 31				10				9.7
						ML		**Clayey SILT**; (ML); yellow brown (10YR5/8); stiff; damp; 38% clay, 50% silt, 2% fine grained sand, 10% fine to coarse subangular gravel; high plasticity; low estimated permeability.	
	16 25 35				15				
<1.0			SB-7 -15.0					@ 14.3 - olive brown (2.5Y4/4) mottled with olive; 20% clay, 78% silt, 2% fine grained gravel; medium plasticity; low estimated permeability.	
	11 22 25				20				19.5
<1.0			SB-7 - 19.5			SP		**Gravelly SAND with Silt**; (SP); olive gray (5Y4/2); dense; damp; 3% clay, 15% silt, 62% fine to coarse grained sand, 20% fine to coarse grained gravel; no plasticity; high estimated permeability.	20.3
						GP		**Clayey Sandy GRAVEL**; (GP); yellow brown (10YR5/6); 20% clay, 20% fine to coarse grained sand, 80% fine to coarse grained gravel (quartz, possibly chert); low to medium plasticity; low to moderate estimated permeability.	
	20 20 20				25				24.3
<1.0			SB-7 - 24.5			SP		**Gravelly SAND with Silt**; (SP); yellow brown (10YR5/6); dense; damp; 3% clay, 15% silt, 52% medium grained sand, 25% fine grained gravel; no plasticity; high estimated permeability.	25.3
						ML		**Clayey SILT**; (ML); stiff; damp; 30% clay, 60% silt, 10% fine grained sand; high plasticity; low estimated permeability; trace carbon.	29.0
	35 36 40				30				
<1.0			SB-7 - 29.3			GP		**Sandy GRAVEL with Clay**; (GP); dark olive gray (5Y3/2); 15% clay, 5% silt, 35% fine to coarse grained sand, 45% fine to coarse grained gravel (quartz); low plasticity; moderate to high estimated permeability.	
	19 20				35			**Clayey GRAVEL with Silt**; (GC); yellow brown	34.0

WELL DIAGRAM

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

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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

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		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.		
	25 45 53							@ 39' - quartz, siltstone, chert gravels.		
<1.0			SB-7 - 40.0		40	GC				
	25 40 50/3							@ 44' - moist to wet.		
83			SB-7 - 44.5		45					
	20 30 50							**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			SB-7 -49.5		50					
	30 50/3					GC				
<1.0			SB-7 - 54.3		55					
	20 30 50/3							**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			SB-7 - 59.5		60					
	25 35 50/3					MH		@ 64' - dark brown MnO_2 or organic blebs throughout.		
<1.0			SB-7 - 64.5		65					
	17 32 50/4							**Clayey SILT**; (MH); light olive brown (2.5Y5/4); hard; dry; 25% clay, 75% silt; medium plasticity; very low estimated permeability.	69.0	
			SB-7 - 69.5		70					
	20 40							@ 74' - increasing mottled with yellow brown (10YR5/8).	74.5	
					75					

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

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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

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' 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				90					
	25 30 50		SB-7 - 94.5		95			@ 94' - MnO_2 blebs throughout; becomes siltier.		
	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.		

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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
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.		

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
								ASPHALT.	0.3	
								FILL.	1.5	
						ML		**Sandy SILT**; (ML); brown (10YR4/3); very soft; wet; 5% clay, 70% silt, 25% fine to medium grained sand; low plasticity; moderate to low estimated permeability.	4.5	
					5	ML		**SILT**; (ML); dark yellow brown (10YR4/6); stiff; moist; 5% clay, 85% silt, 8% sand, 2% fine grained gravel; low plasticity; low estimated permeability.		Portland Type I/II
					10	ML		**Clayey SILT**; (ML); yellow brown (10YR5/8); stiff; damp; 38% clay, 50% silt, 2% fine grained sand, 10% fine to coarse subangular gravel; high plasticity; low estimated permeability.	9.7	
	18 26 30									
<1.0			SB-6 -15.5		15	SP		**Clayey Gravelly SAND**; (SP); dark greenish gray (5GY4/1); dense; damp; 20% clay, 50% sand, 30% gravel; medium plasticity; low to moderate estimated permeability; wood fragments.	15.0	
	13 11 20								19.3	
<1.0			SB-6 - 19.5		20	ML		**Sandy SILT with Clay**; (ML); olive (5Y4/3); very stiff; damp; 15% clay, 50% silt, 35% very fine grained sand; low plasticity; moderate to low estimated permeability.		
	20 28 30								24.5	2" diam., Schedule 40 PVC
<1.0			SB-6 - 25.0		25	SP		**Gravelly SAND with Silt**; (SP); olive (5Y4/3); dense; damp; 5% clay, 15% silt, 60% fine to medium grained sand, 20% gravel; no plasticity; high to moderate estimated permeability.		
	40 43 45								29.0	
<1.0			SB-6 - 30.0		30	GP		**Sandy GRAVEL**; (GP); olive (5Y4/3); very dense; damp; 2% clay, 13% silt, 35% medium grained sand (red grains), 50% fine to coarse, subangular to subrounded gravel (chert); no plasticity; high estimated permeability.		Bentonite Seal
	20 35				35			**Clayey Gravelly SAND**; (SP); dark yellow brown	34.0	

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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	50		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
	20									
	45									
<1.0	50/4		SB-6 - 40.0		40	SP				
	25							@ 44' - moist to wet.		
	45									
	45				45					
	32				50			**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
	60/6					GC				
	15				55			**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	
	40					MH				
	50								58.0	Bottom of Boring @ 58 ft

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-2
JOB/SITE NAME	Shell-branded service station	**DRILLING STARTED**	18-Jan-00
LOCATION	4226 First Street, Pleasanton, California	**DRILLING COMPLETED**	19-Jan-00
PROJECT NUMBER	241-0395	**WELL DEVELOPMENT DATE (YIELD)**	03-Feb-00
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	372.65 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	372.40 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	26 to 46 ft bgs
LOGGED BY	B. Jakub	**DEPTH TO WATER (First Encountered)**	33.0 ft (18-Jan-00) ▽
REVIEWED BY	S. Bork, RG# 5620	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Hand augered to 5' bgs.		

TPHg (ppm)	BLOW COUNTS	SAMPLE ID	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
			ML	**ASPHALT.** **Sandy SILT**; (ML); dark brown; soft; damp; 3% clay, 80% silt, 15% fine grained sand, 2% gravel; low plasticity; low to moderate estimated permeability; palm tree roots.	0.5
			SM	**Silty SAND**; (SM); yellow brown; soft; damp; 2% clay, 43% silt, 50% sand, 5% gravel; low plasticity; moderate estimated permeability.	4.0
			MH	**Clayey SILT**; (MH); yellow brown; stiff; damp; 38% clay, 50% silt, 2% fine grained sand, 10% fine to coarse, subangular gravel; high plasticity; low estimated permeability.	5.8
<1.0		MW-2-6.3'	SM	**Silty SAND**; (SM); yellow brown; dense; damp; 2% clay, 40% silt, 50% sand, 8% gravel; no plasticity; high estimated permeability,	6.6
			SM	**Clayey Silty SAND**; (SM); yellow brown; stiff; damp; 15% clay, 30% silt, 50% sand, 5% gravel; low plasticity; moderate estimated permeability.	10.0
			SM	**Silty SAND**; (SM); yellow brown; dense; damp; 2% clay, 40% silt, 50% sand, 8% gravel; no plasticity; high estimated permeability. @ 12.8' - 10% clay, 38% silt, 50% sand, 8% gravel; moderate estimated permeability.	11.0
			ML	**Clayey SILT**; (ML); yellowish brown; stiff; damp; 15% clay, 80% silt, 3% sand, 2% gravel; medium plasticity; low estimated permeability.	15.0
<1.0		MW-2-16.5'	SM	**Gravelly Silty SAND**; (SM); yellow brown; damp; 5% clay, 25% silt, 45% fine to coarse grained sand, 25% gravel to 3/4"; high estimated permeability.	16.5
			SM	**Clayey Silty SAND**; (SM); yellow brown; damp; 15% clay, 25% silt, 50% sand, 10% fine gravel.	18.2
<1.0		MW-2-21.5'	GM	**Sandy Silty GRAVEL**; (GM); yellow brown; damp; 10% clay, 30% silt, 20% sand, 40% fine to coarse gravel; chert to 2".	22.0
<1.0		MW-2-26.0'	SM	**Gravelly Silty SAND**; (SM); very dense; damp; 5% clay, 30% silt, 40% sand, 25% gravel; no to low plasticity; moderate to high estimated permeability.	26.0
<1.0	35 50/6 38 50/6 45 50/6 24	MW-2-30.5'	GM	**Clayey Sandy Silty GRAVEL**; (GM); dark yellow brown; very dense; damp; 15% clay, 15% silt, 20% sand, 50% fine to coarse gravel; low plasticity; moderate estimated permeability. @ 31.7' - color change to dark greenish gray; chert to 2". ▽	30.0
				Sandy Clayey GRAVEL; (GC); very dense; wet to saturated; 25% clay, 15% silt, 20% sand, 40% gravel.	33.5

WELL DIAGRAM: 4" diam., Schedule 40 PVC; Portland Type I/II; Bentonite Seal; Lonestar Sand #3

WELL LOG (SHELL) G:\PLEASA~4\GINT\PLE4226.GPJ DEFAULT.GDT 6/23/00

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-2
JOB/SITE NAME	Shell-branded service station	**DRILLING STARTED**	18-Jan-00
LOCATION	4226 First Street, Pleasanton, California	**DRILLING COMPLETED**	19-Jan-00

Continued from Previous Page

TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
<1.0	50/6 40 50/6 35 50/6 50/6 37 50/6 29 50/6 27 50/6 26 50/6 12 19 27	MW-2-35.0'		40 45	GC ML ML ML		**Sandy Clayey GRAVEL**; (GC); very dense; wet to saturated; 25% clay, 15% silt, 20% sand, 40% gravel. **Sandy Gravelly SILT**; (ML); hard; saturated; 12% clay, 58% silt, 15% sand, 15% gravel; medium plasticity; low estimated permeability. **Sandy Clayey SILT**; (ML); hard; saturated; 15% clay, 60% silt, 15% sand, 10% gravel. **Sandy SILT**; (ML); hard; saturated; 12% clay, 45% silt, 43% fine grained sand; slight plasticity ; low estimated permeability.	40.3 43.5 45.0 48.0	4"-diam., 0.020" Slotted Schedule 40 PVC Bottom of Boring @ 48 ft

WELL LOG (SHELL) G:\PLEASA-4\GINT\PLE4226.GPJ DEFAULT.GDT 6/23/00

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-3
JOB/SITE NAME	Shell-branded service station	**DRILLING STARTED**	18-Jan-00
LOCATION	4226 First Street, Pleasanton, California	**DRILLING COMPLETED**	19-Jan-00
PROJECT NUMBER	241-0395	**WELL DEVELOPMENT DATE (YIELD)**	03-Feb-00
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	375.90 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	375.05 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	20 to 35 ft bgs
LOGGED BY	B. Jakub	**DEPTH TO WATER (First Encountered)**	25.0 ft (18-Jan-00) ▽
REVIEWED BY	S. Bork, RG# 5620	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Hand augered to 5' bgs.		

TPHg (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
			0		**ASPHALT**.	0.5
				ML	**SILT**; (ML); brown; soft; damp; 2% clay, 90% silt, 7% fine grained sand, 1% gravel; no plasticity; moderate to low estimated permeability.	
<1.0	14 28 40	MW-3-5.0'	5	SM	**Silty SAND**; (SM); yellow brown; dense; damp; 2% clay, 43% silt, 55% sand.	5.3 5.8
					Clayey SILT; (ML); yellow brown; hard; wet; 15% clay, 60% silt, 5% sand, 10% fine to coarse, subangular gravel; medium plasticity; low estimated permeability.	
<1.0	26 50/6	MW-3-10.5'	10	ML		
<1.0	42 50/6	MW-3-15.5'	15		**Gravelly Silty SAND**; (SM); yellow brown; very dense; 5% clay, 20% silt, 60% fine grained sand, 15% fine, subangular to subrounded gravel.	15.0
<1.0	13 24 50/6	MW-3-20.5'	20	SM	@ 22' - silt layer noted by driller.	
<1.0	12 22 30	MW-3-25.5'	25	SM	▽ **Clayey Silty SAND**; (SM); yellow brown; dense; wet to saturated; 15% clay, 35% silt, 40% fine grained sand, 10% fine to coarse, subangular gravel; low plasticity; low estimated permeability.	25.0
	50/6		30	GM	**Sandy Silty GRAVEL**; (GM); very dense; 5% clay, 30% silt, 25% sand, 40% gravel; low plasticity; moderate estimated permeability.	30.0
			35			35.0

WELL DIAGRAM: 4" diam., Schedule 40 PVC; Portland Type I/II; Bentonite Seal; Lonestar Sand #3; 4"-diam., 0.020" Slotted Schedule 40 PVC

WELL LOG (SHELL) G:\PLEASA-4\GINT\PLE4226.GPJ DEFAULT.GDT 6/23/00

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-3
JOB/SITE NAME	Shell-branded service station	**DRILLING STARTED**	18-Jan-00
LOCATION	4226 First Street, Pleasanton, California	**DRILLING COMPLETED**	19-Jan-00

Continued from Previous Page

TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
	15 36 46				ML		**SILT**; (ML); light brown; hard; 10% clay, 80% silt, 10% sand; low plasticity; low estimated permeability.		Bentonite Seal
	15 25 42			40	ML		**Clayey SILT**; (ML); hard; 20% clay, 70% silt, 10% fine grained sand; medium plasticity; low estimated permeabillity.	40.0 41.5	Bottom of Boring @ 41.5 ft

WELL LOG (SHELL) G:\PLEASA-4\GINT\PLE4226.GPJ DEFAULT.GDT 6/23/00

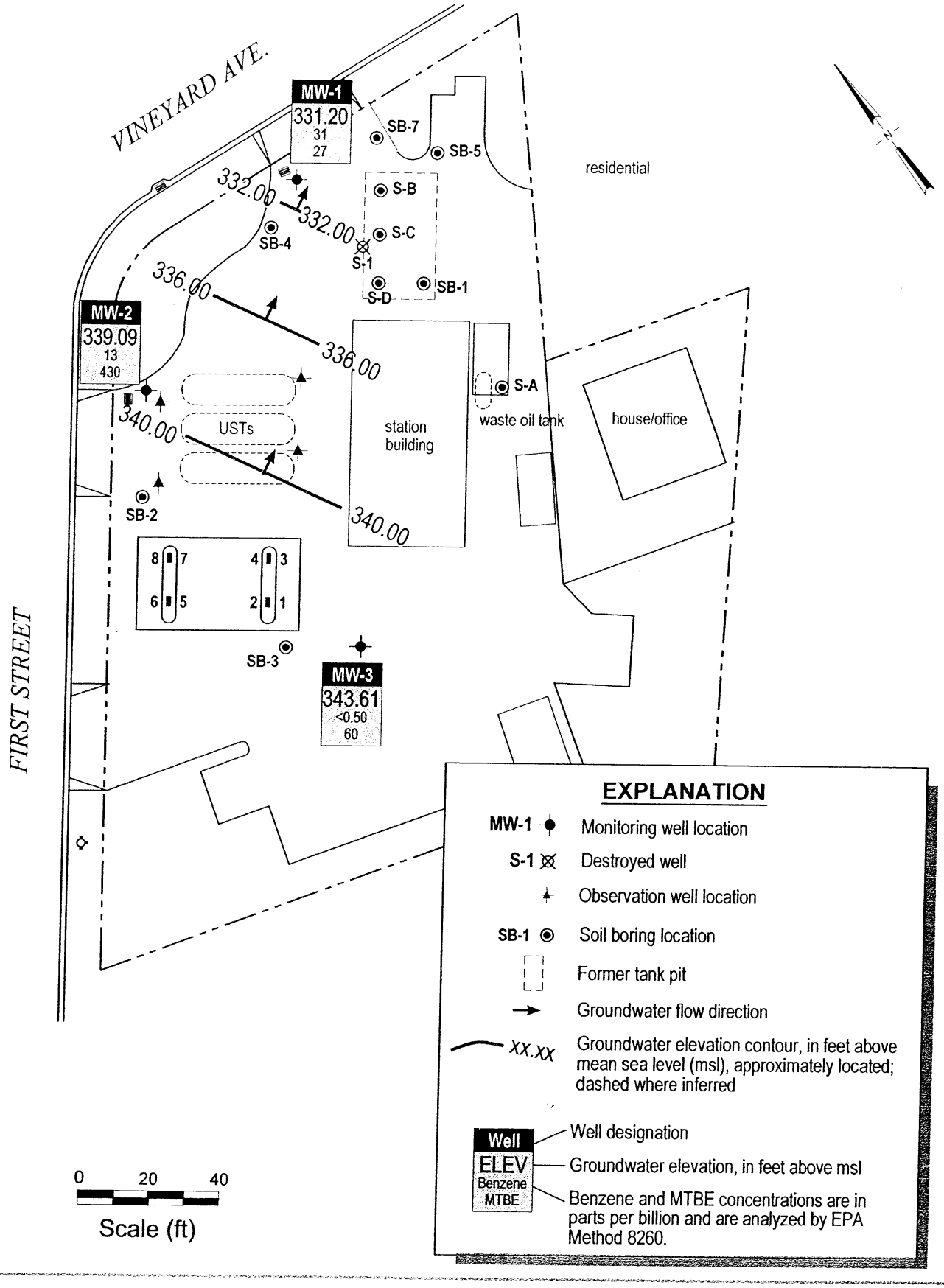

FIGURE
2

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Shell-branded Service Station
4226 First Street
Pleasanton, California
Incident #98995840

CAMBRIA

Groundwater Elevation Contour Map

November 14, 2002

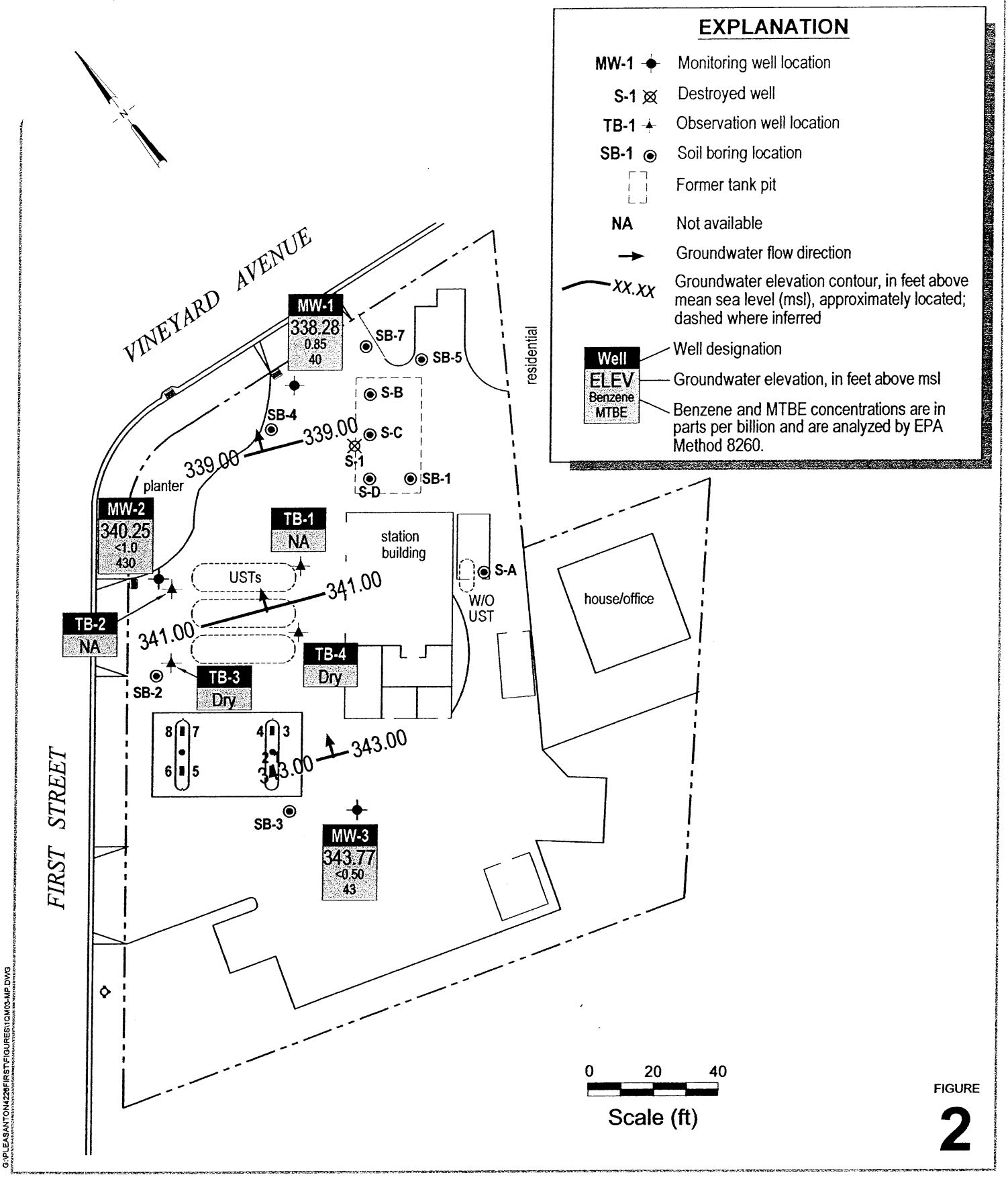


FIGURE
2

G:\PLEASANTON4226FIRST\FIGURES\1Q03-MP.DWG

Shell-branded Service Station
4226 First Street
Pleasanton, California
Incident #98995840

CAMBRIA

Groundwater Elevation Contour Map

February 12, 2003

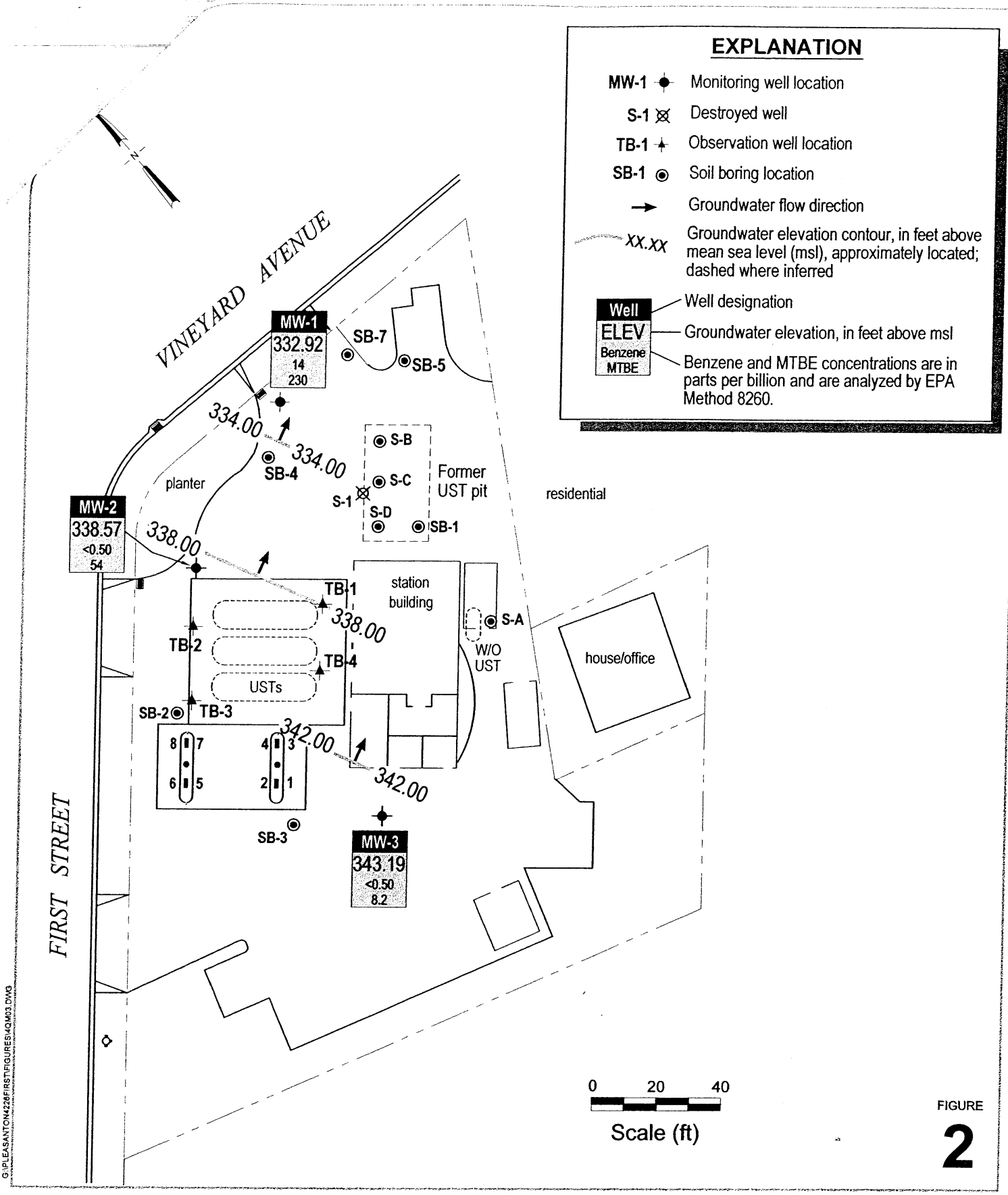


FIGURE
2

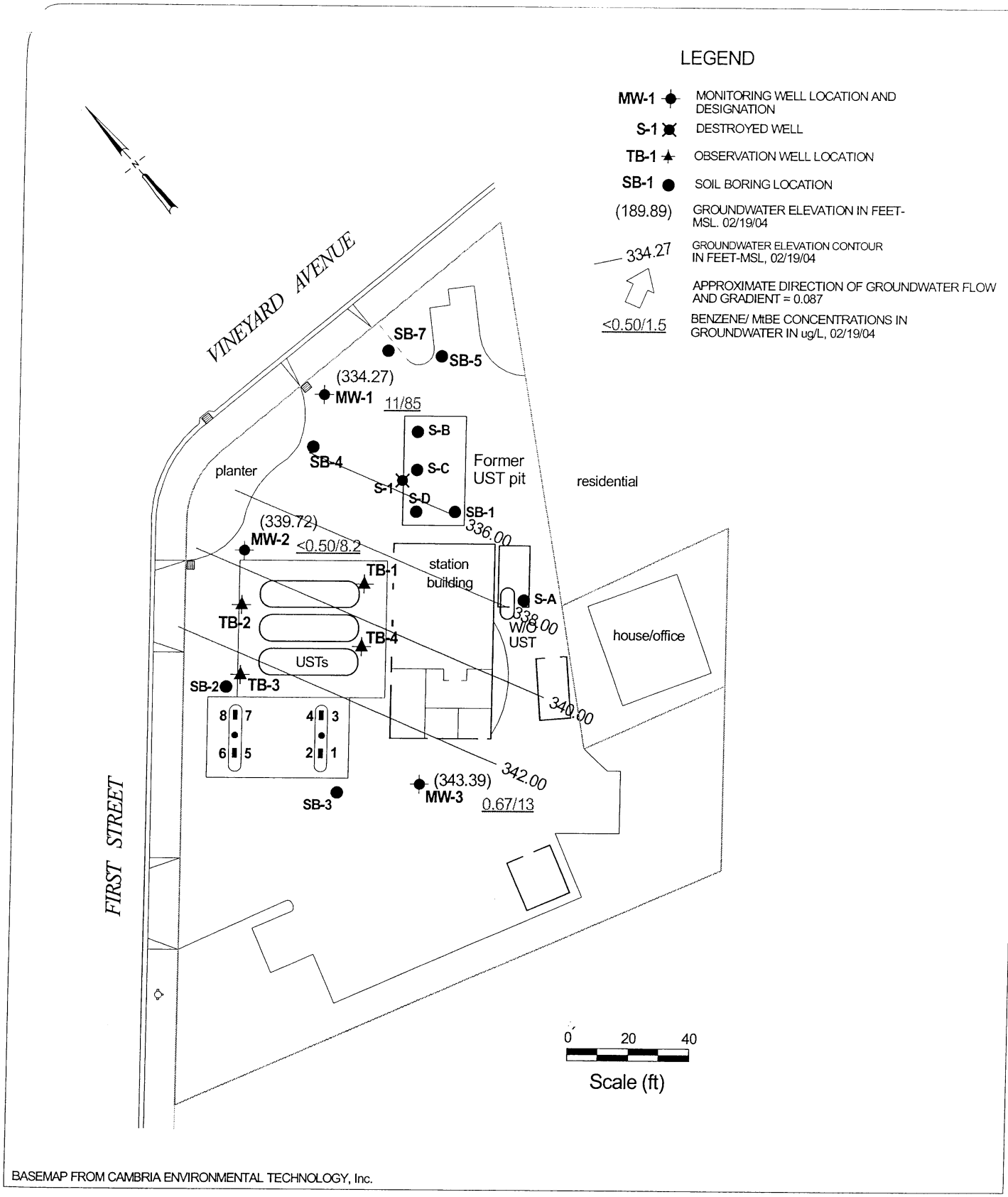
G:\PLEASANTON4226FIRST\FIGURES\4QM03.DWG

Shell-branded Service Station
4226 First Street
Pleasanton, California
Incident #98995840

CAMBRIA

Groundwater Elevation Contour Map

November 19, 2003



BASEMAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, Inc.

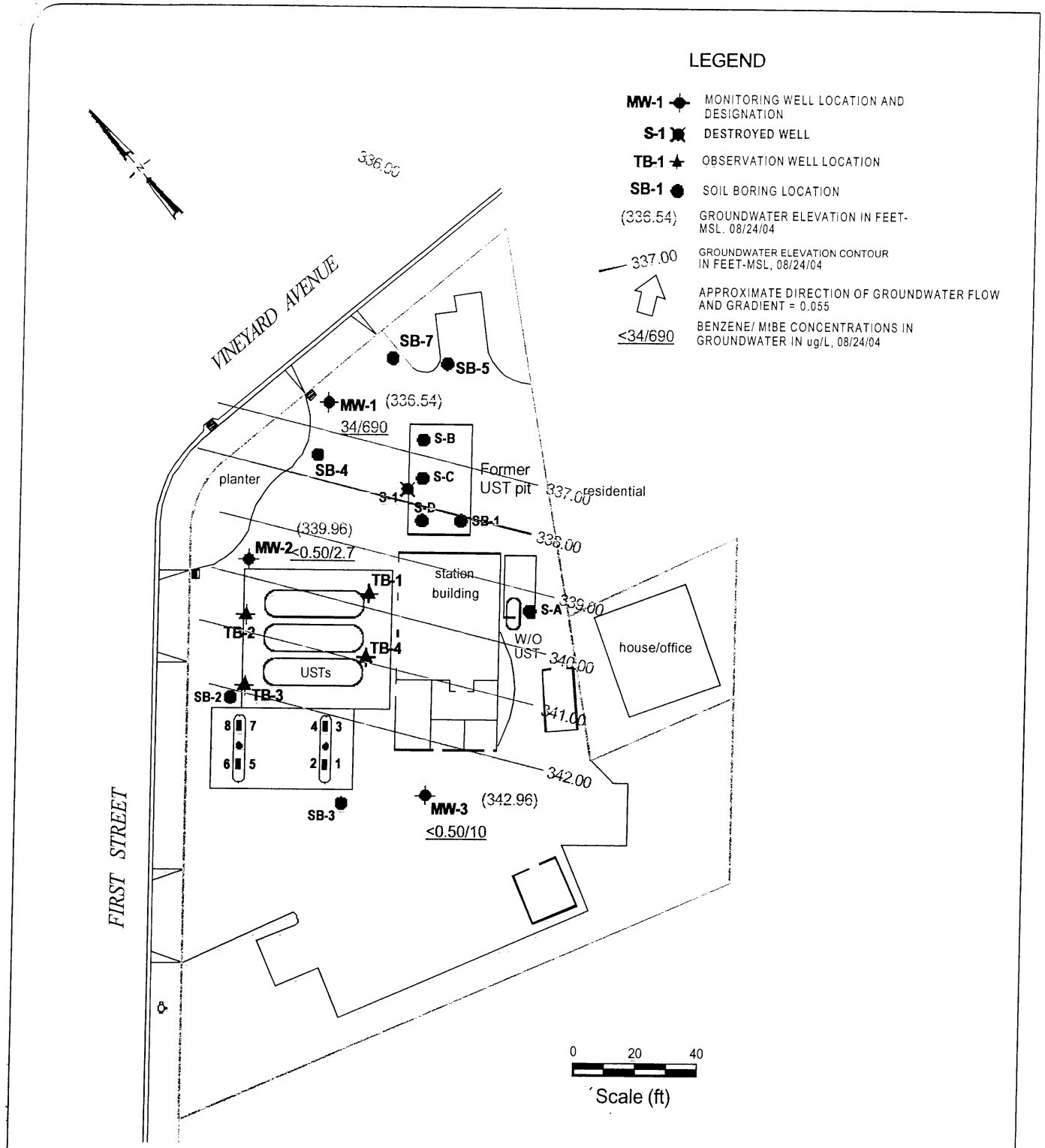
TOXICHEM Management Systems, Inc.
Environmental & Occupational Health Services

Shell-Branded Service Station
4226 First Street
Pleasanton, California

BENZENE/MtBE CONCENTRATION AND GROUNDWATER ELEVATION MAP, FEBRUARY 19, 2004

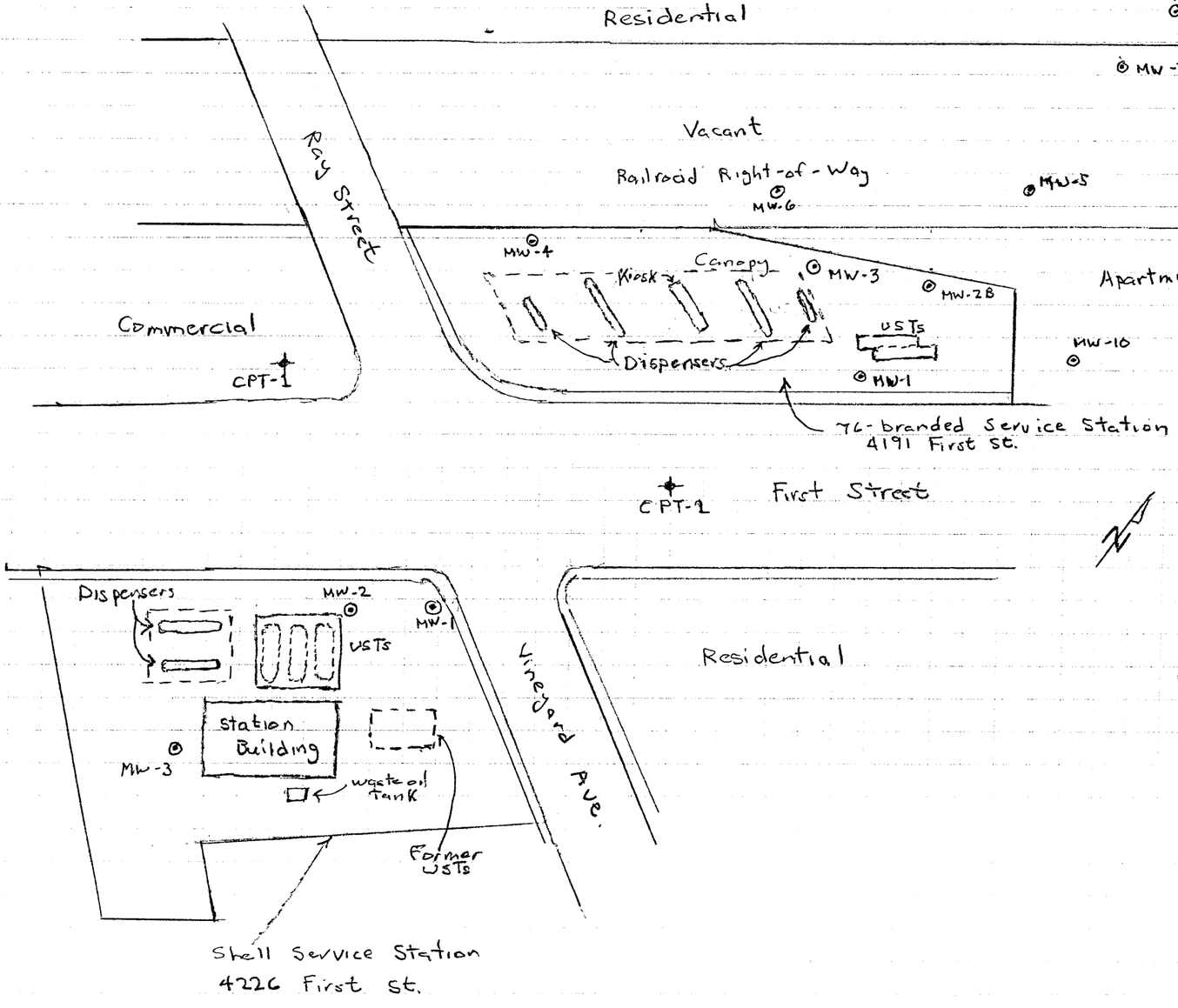
FIGURE: 2

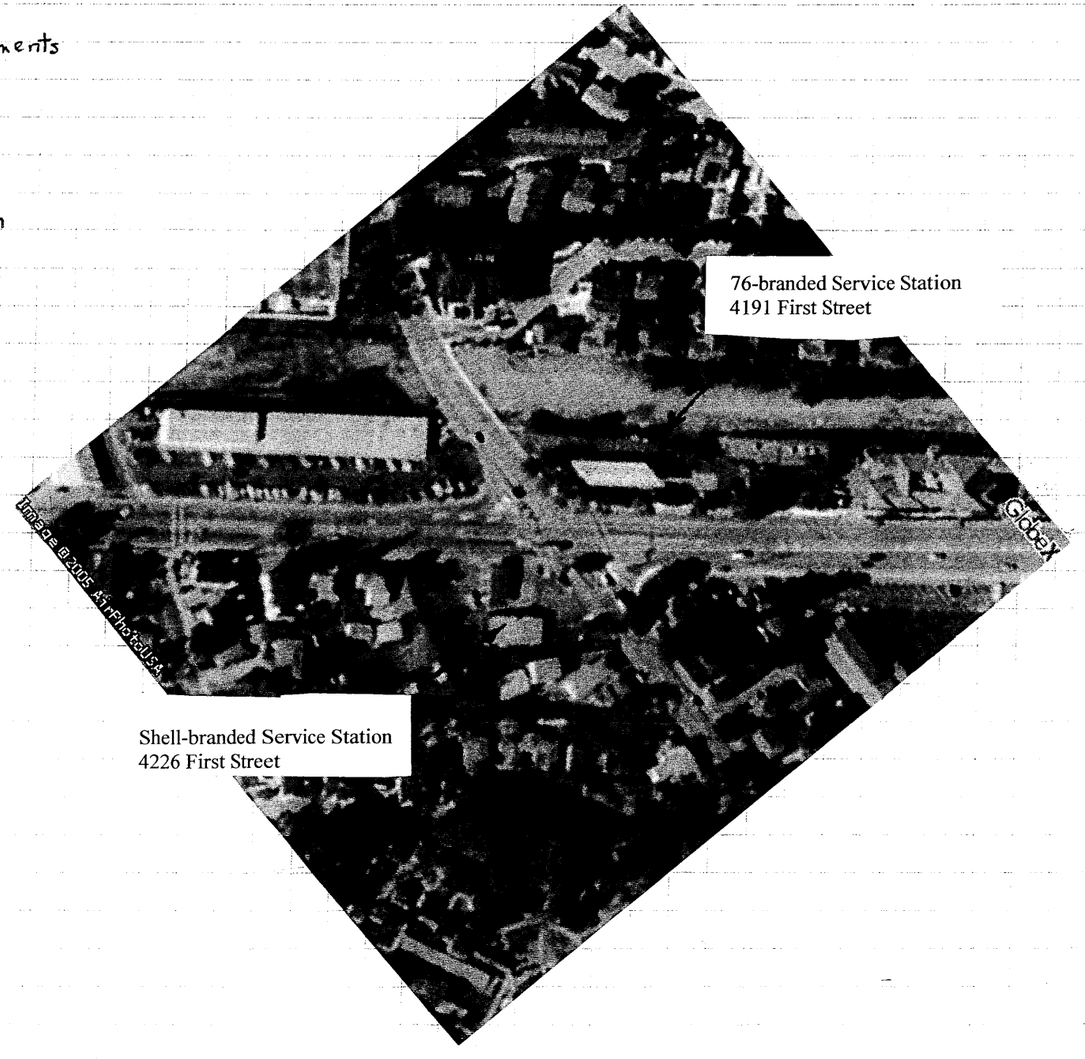
PROJECT: EQ-76



BASEMAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, Inc.

TOXICHEM Management Systems, Inc. Environmental & Occupational Health Services	Shell-Branded Service Station 4226 First Street Pleasanton, California	FIGURE: 2
	BENZENE/MtBE CONCENTRATION AND GROUNDWATER ELEVATION MAP, August 24, 2004	PROJECT: EQ-76





Shell-branded Service Station
4226 First Street, Pleasanton, CA

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

December 19, 2005

Denis Brown
Shell Oil Products US
2095 South Wilmington Avenue
Carson, CA 90810

Fourth Quarter 2005 Groundwater Monitoring at
Shell-branded Service Station
4226 First Street
Pleasanton, CA

Monitoring performed on November 22, 2005

Groundwater Monitoring Report **051122-DW-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Mike Ninokata
Project Coordinator

MN/ks

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Vera Fischer
Delta Environmental
175 Bernal Rd., Suite 200
San Jose, CA 95119

WELL CONCENTRATIONS
Shell-branded Service Station
4226 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	06/16/1999	NA	NA	NA	NA	NA	NA	NA	371.20	37.81	333.39
MW-1	06/30/1999	89.0	5.89	<0.500	<0.500	0.652	<5.00	NA	371.20	33.65	337.55
MW-1	09/24/1999	1,560	473	<10.0	<10.0	22.8	<2.50	NA	371.20	37.04	334.16
MW-1	12/08/1999	1,020	375	<5.00	<5.00	15.2	<50.0	NA	371.20	36.79	334.41
MW-1	02/10/2000	523	106	<5.00	<5.00	31.8	2.90	NA	371.20	34.90	336.30
MW-1	05/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	37.0	29.5	371.20	32.55	338.65
MW-1	08/03/2000	808	290	<2.50	<2.50	8.90	<12.5	NA	371.20	39.13	332.07
MW-1	10/31/2000	507	250	0.962	<0.500	23.5	3.76	NA	371.20	37.91	333.29
MW-1	03/01/2001	<50.0	<0.500	<0.500	<0.500	<0.500	74.6	NA	371.20	39.60	331.60
MW-1	05/30/2001	780	280	<2.0	<2.0	11	NA	<2.0	371.20	39.53	331.67
MW-1	08/02/2001	1,900	580	<2.5	<2.5	12	NA	<25	371.20	39.61	331.59
MW-1	12/06/2001	840	190	<0.50	<0.50	13	NA	<5.0	371.20	39.63	331.57
MW-1	02/05/2002	2,700	650	<2.5	<2.5	7.2	NA	<25	371.20	35.53	335.67
MW-1	06/17/2002	2,500	550	<2.0	<2.0	5.9	NA	<20	371.20	39.29	331.91
MW-1	07/25/2002	690	130	<0.50	<0.50	4.4	NA	18	371.20	39.39	331.81
MW-1	11/14/2002	400	31	<0.50	<0.50	2.7	NA	27	371.20	40.00	331.20
MW-1	02/12/2003	840	0.85	<0.50	<0.50	<0.50	NA	40	371.20	32.92	338.28
MW-1	05/14/2003	680	190	<2.5	<2.5	<5.0	NA	95	371.20	32.57	338.63
MW-1	07/29/2003	870	190	<2.5	<2.5	<5.0	NA	150	371.20	33.82	337.38
MW-1	11/19/2003	<200	14	<2.0	<2.0	<4.0	NA	230	371.20	38.28	332.92
MW-1	02/19/2004	58 d	11	<0.50	<0.50	<1.0	NA	85	371.20	36.93	334.27
MW-1	05/03/2004	670	310	<2.5	<2.5	<5.0	NA	420	371.20	32.70	338.50
MW-1	08/24/2004	430 d	34	<2.5	<2.5	<5.0	NA	690	371.20	34.66	336.54
MW-1	11/15/2004	<250	29	<2.5	<2.5	<5.0	NA	470	371.20	38.27	332.93
MW-1	02/02/2005	540 e	87	<2.5	<2.5	<5.0	NA	700	371.20	32.02	339.18
MW-1	05/05/2005	460 e	88	<2.5	<2.5	<5.0	NA	300	371.20	36.82	334.38
MW-1	08/05/2005	910	230	<2.5	<2.5	<5.0	NA	480	371.20	33.35	337.85
MW-1	**11/22/2005**	**1,760**	**27.4**	**<0.500**	**<0.500**	**1.18**	**NA**	**1,160**	**371.20**	**33.42**	**337.78**

WELL CONCENTRATIONS
Shell-branded Service Station
4226 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	02/03/2000	NA	NA	NA	NA	NA	NA	NA	372.40	32.65	339.75
MW-2	02/07/2000	NA	NA	NA	NA	NA	NA	NA	372.40	35.51	336.89
MW-2	02/10/2000	<50.0	<0.500	<0.500	<0.500	<0.500	2.61	NA	372.40	36.62	335.78
MW-2	05/17/2000	120	4.09	<0.500	<0.500	<0.500	29.0	NA	372.40	32.14	340.26
MW-2	08/03/2000	<50.0	0.692	<0.500	<0.500	<0.500	40.5	36.6b	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	372.40	33.02	339.38
MW-2	03/01/2001	173	1.64	1.65	2.86	3.97	127	167	372.40	32.54	339.86
MW-2	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	372.40	32.42	339.98
MW-2	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	160	372.40	32.55	339.85
MW-2	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	372.40	33.15	339.25
MW-2	02/05/2002	<50	0.72	<0.50	<0.50	1.7	NA	170	372.40	32.29	340.11
MW-2	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	260	372.40	32.63	339.77
MW-2	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	280	372.40	32.80	339.60
MW-2	11/14/2002	120	13	9.0	3.8	14	NA	430	372.40	33.31	339.09
MW-2	02/12/2003	<100	<1.0	<1.0	<1.0	<1.0	NA	430	372.40	32.15	340.25
MW-2	05/14/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	470	372.40	32.01	340.39
MW-2	07/29/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	670	372.40	32.51	339.89
MW-2	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	54	372.40	33.83	338.57
MW-2	02/19/2004	65	<0.50	3.4	1.4	6.5	NA	8.2	372.40	32.68	339.72
MW-2	05/03/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	5.2	372.40	32.07	340.33
MW-2	08/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	2.7	372.40	32.44	339.96
MW-2	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	1.3	372.40	32.95	339.45
MW-2	02/02/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	24	372.40	31.94	340.46
MW-2	05/05/2005	72 f	<0.50	<0.50	<0.50	<1.0	NA	4.9	372.40	31.91	340.49
MW-2	08/05/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	16	372.40	32.15	340.25
MW-2	**11/22/2005**	**840**	**0.800**	**<0.500**	**<0.500**	**0.870**	**NA**	**556**	**372.40**	**32.31**	**340.09**
MW-3	02/03/2000	NA	NA	NA	NA	NA	NA	NA	375.05	32.06	342.99
MW-3	02/07/2000	NA	NA	NA	NA	NA	NA	NA	375.05	32.57	342.48

WELL CONCENTRATIONS
Shell-branded Service Station
4226 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	02/10/2000	180	5.12	<0.500	<0.500	0.714	26.8	21.5a	375.05	32.77	342.28
MW-3	05/17/2000	1,360	414	<5.00	<5.00	17.6	<25.0	NA	375.05	31.00	344.05
MW-3	08/03/2000	<50.0	0.536	<0.500	<0.500	<0.500	22.0	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	375.05	31.28	343.77
MW-3	03/01/2001	384	172	0.815	<0.500	8.00	5.16	NA	375.05	31.21	343.84
MW-3	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	110	375.05	31.02	344.03
MW-3	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	93	375.05	30.94	344.11
MW-3	12/06/2001	110	<0.50	<0.50	<0.50	2.3	NA	180	375.05	31.28	343.77
MW-3	02/05/2002	<50	0.89	0.60	<0.50	2.1	NA	130	375.05	31.12	343.93
MW-3	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	72	375.05	31.21	343.84
MW-3	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	81	375.05	30.96	344.09
MW-3	11/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	60	375.05	31.44	343.61
MW-3	02/12/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	43	375.05	31.28	343.77
MW-3	05/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	24	375.05	31.20	343.85
MW-3	07/29/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	21	375.05	31.29	343.76
MW-3	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	8.2	375.05	31.86	343.19
MW-3	02/19/2004	81	0.67	4.4	1.8	8.6	NA	13	375.05	31.66	343.39
MW-3	05/03/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	13	375.05	31.72	343.33
MW-3	08/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	10	375.05	32.09	342.96
MW-3	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	6.6	375.05	31.50	343.55
MW-3	02/02/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	3.1	375.05	31.28	343.77
MW-3	05/05/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.3	375.05	31.42	343.63
MW-3	08/05/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.4	375.05	31.35	343.70
MW-3	**11/22/2005**	**<50**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**NA**	**3.84**	**375.05**	**31.98**	**343.07**
TB-1	02/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA
TB-1	02/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	12.54	NA
TB-1	05/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	12.31	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4226 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
TB-2	02/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA
TB-2	02/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	12.56	NA
TB-2	05/14/2003	Insufficient water		NA	NA	NA	NA	NA	NA	12.54	NA
TB-3	02/12/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-3	02/28/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-3	05/14/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	02/12/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	02/28/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	05/14/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA

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
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

WELL CONCENTRATIONS
Shell-branded Service Station
4226 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)

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.

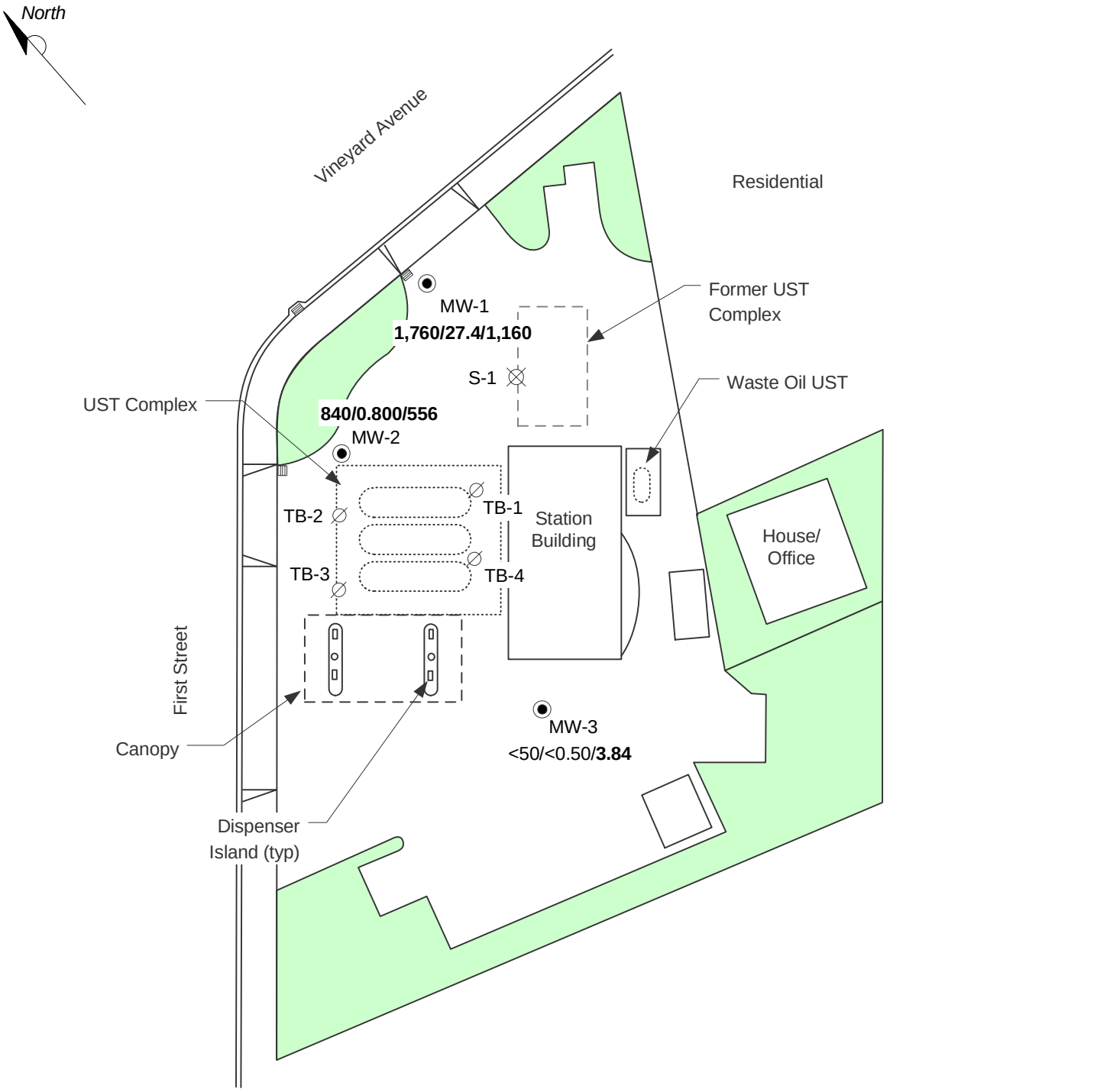
e = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

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

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.



LEGEND

MW-2 ◉ **GROUNDWATER MONITORING WELL LOCATION**

S-1 ⊗ **DESTROYED WELL**

TB-1 ∅ **ABANDONED TANK BACKFILL WELL LOCATION**

<50/<0.50/<0.50 **TPH-G/BENZENE/MTBE CONCENTRATION MAP, 11/22/05**

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

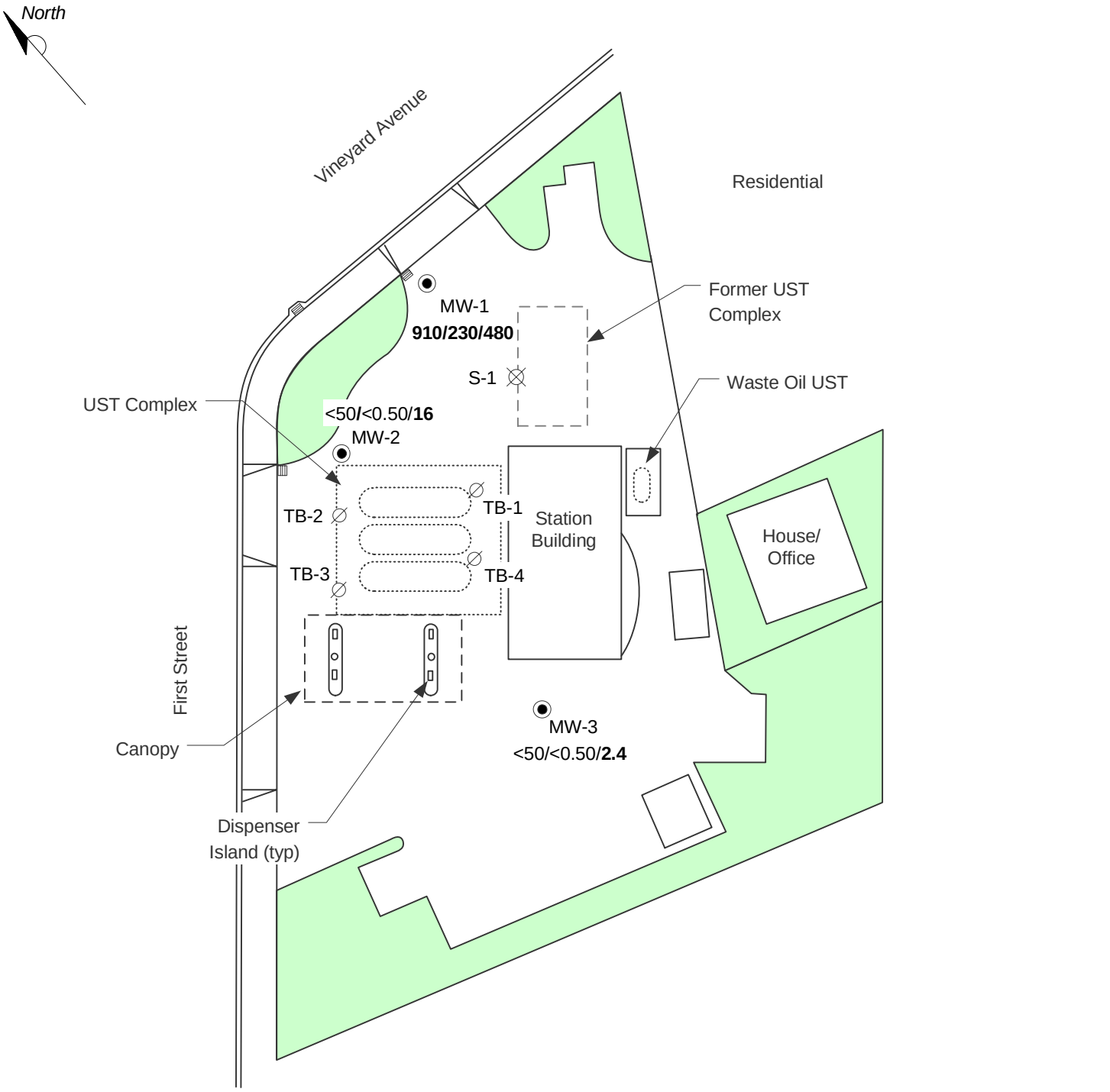
FIGURE 3

TPH-G, BENZENE, AND MTBE CONCENTRATION MAP, NOVEMBER 22, 2005

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.



0 40 FT

APPROX. SCALE

LEGEND

MW-2 ◉ **GROUNDWATER MONITORING WELL LOCATION**

S-1 ⊗ **DESTROYED WELL**

TB-1 ∅ **ABANDONED TANK BACKFILL WELL LOCATION**

<50/<0.50/<0.50 **TPH-G/BENZENE/MTBE CONCENTRATION MAP, 8/5/05**

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

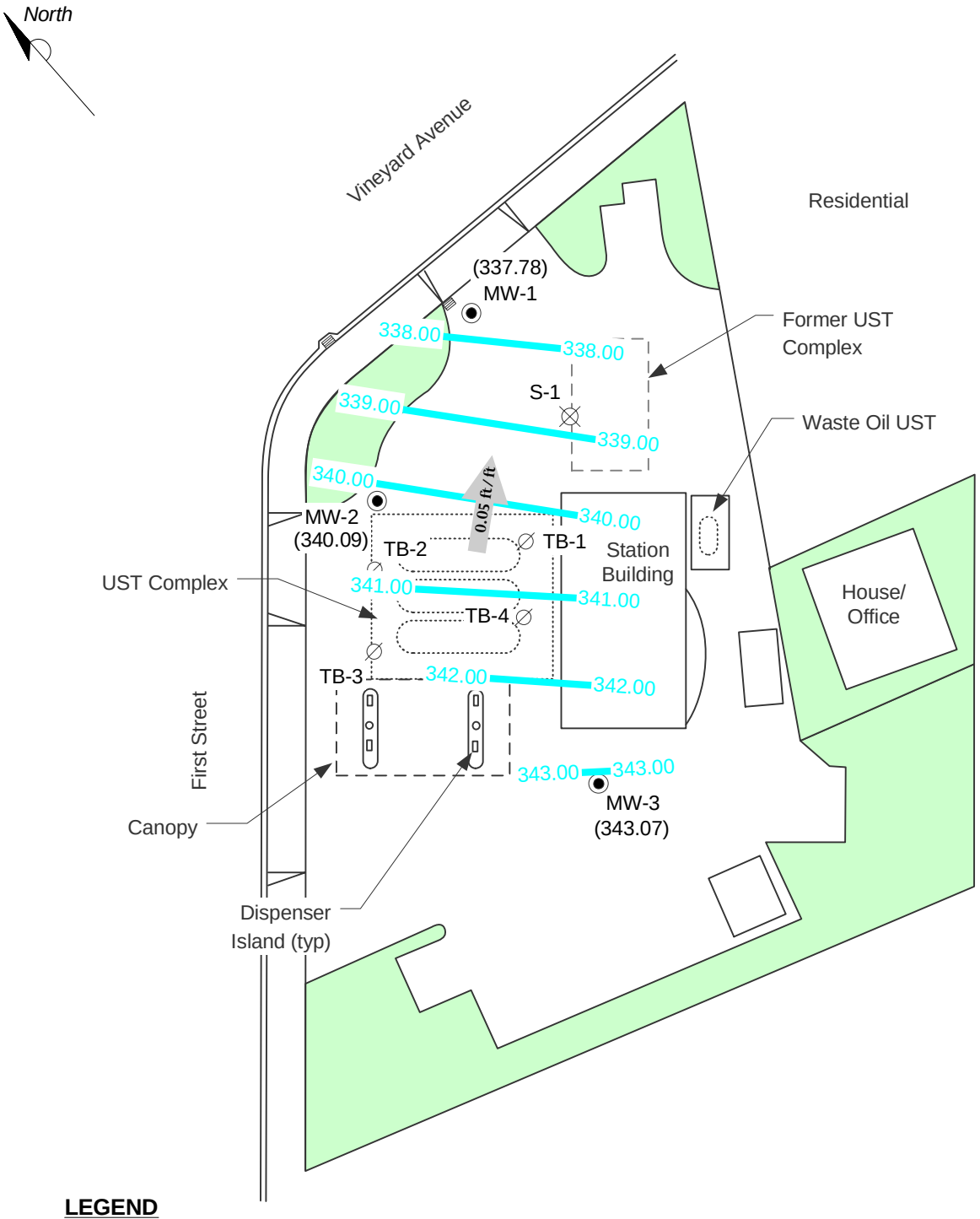
FIGURE 3

TPH-G, BENZENE, AND MTBE CONCENTRATION MAP, AUGUST 5, 2005

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.



LEGEND

MW-2 ◉	**GROUNDWATER MONITORING WELL LOCATION**
S-1 ⊗	**DESTROYED WELL**
TB-1 ∅	**ABANDONED TANK BACKFILL WELL LOCATION**
(343.63)	**GROUNDWATER ELEVATION (FEET - MSL), 11/22/05**
343.00	**GROUNDWATER ELEVATION CONTOUR**
0.02 ft/ft	**APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

0 40 FT

APPROX. SCALE

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

FIGURE 2

GROUNDWATER ELEVATION CONTOUR MAP, NOVEMBER 22, 2005

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.

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)

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 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.

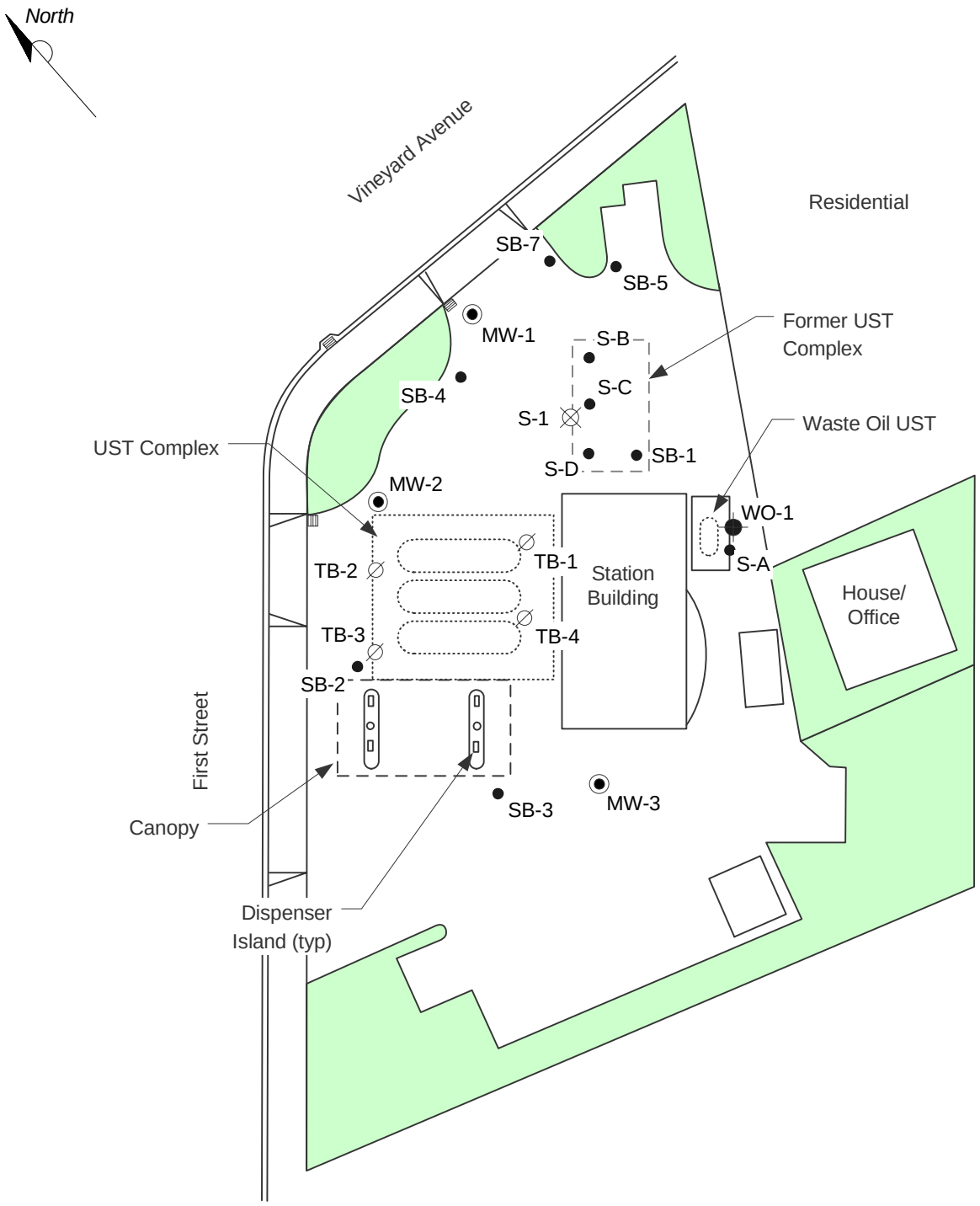
Table 1 Soil Analytical Results - Shell-branded Service Station Incident# 98995840
4226 First Street, Pleasanton, California

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



LEGEND

MW-2 **GROUNDWATER MONITORING WELL LOCATION**

S-1 **DESTROYED WELL**

TB-1 **ABANDONED TANK BACKFILL WELL LOCATION**

S-C **SOIL BORING LOCATION**

WO-1 **PROPOSED SOIL BORING LOCATION**

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

0 40 FT

APPROX. SCALE

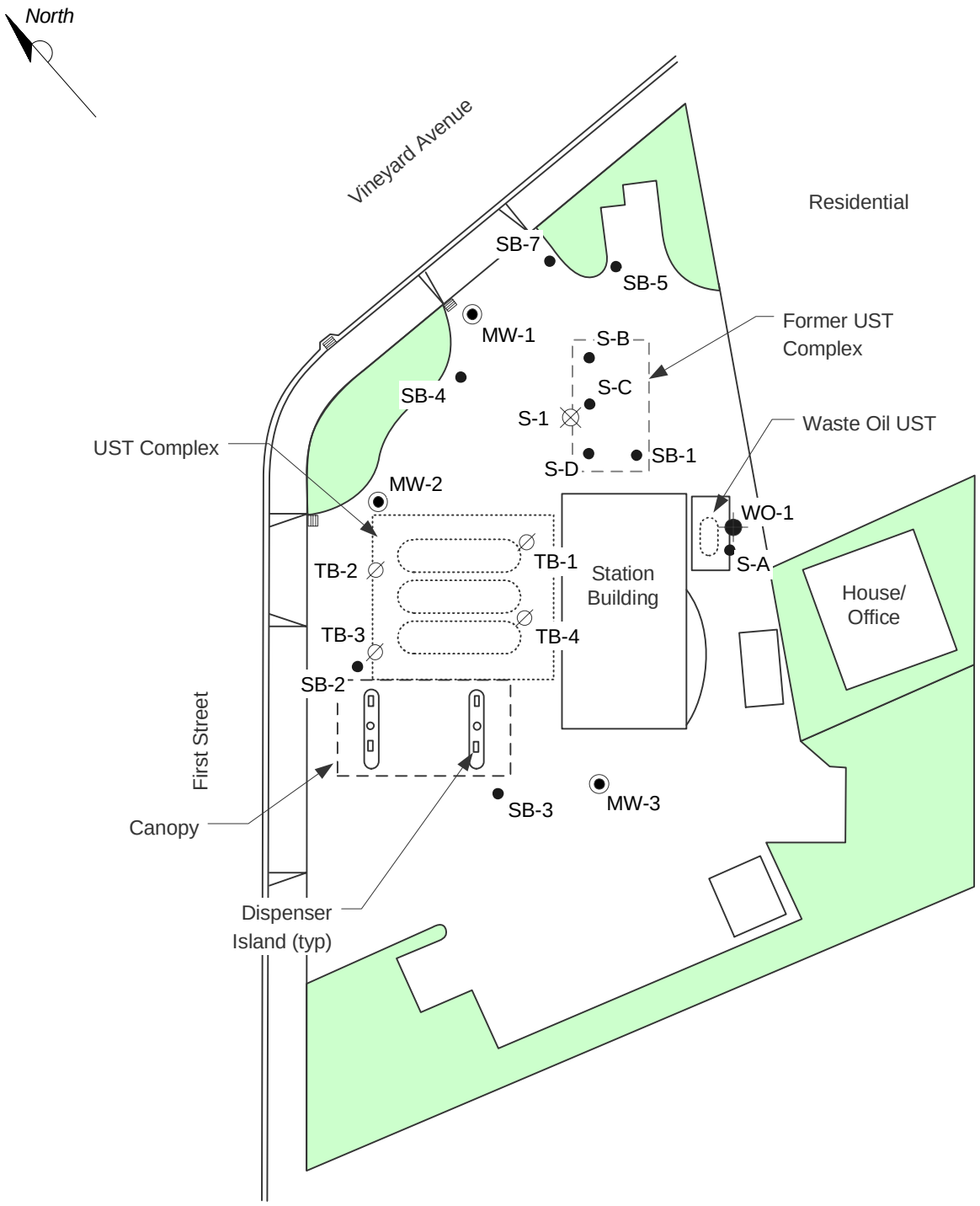
FIGURE 2

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.



LEGEND

MW-2 **GROUNDWATER MONITORING WELL LOCATION**

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0 40 FT

APPROX. SCALE

FIGURE 2

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.

Weiss Associates Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: **510-450-6000**

Site 204-6138-0303
Proj. ☐ Rem. ☐ RP ☑ Bill ☐
1☐ 2☐ 3☐ 4☐ 5☐ S☐

December 21, 1995

PROJECT COPY

Scott Seery
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alemeda, California 94502-6577

RE: **Dispenser Replacement Sampling**
Shell Service Station
WIC #204-6138-0303
4226 First Street
Pleasanton, California
WA Job #81-0571-008

Dear Mr. Seery:

On behalf of Shell Oil Products Company (Shell), Weiss Associates (WA) submits this report documenting soil sampling and excavation for the recent fuel dispenser and product piping replacements at the above referenced service station (Figure 1 and 2). The former dispensers and piping were used to pump gasoline from the sites underground storage tanks. The objective of this sampling was to assess whether hydrocarbons are in soil beneath these structures. WA's scope of work, the site background, and the soil sampling results are presented below.

SCOPE OF WORK

WA's scope of work for this investigation was to:

- Collect soil samples from beneath the former dispensers and product piping joints for laboratory analysis;
- Analyze the soil samples for petroleum hydrocarbons;
- Direct overexcavation of hydrocarbon-bearing soil;
- Sample and dispose of the excavated soil; and
- Report the results.

SITE BACKGROUND

Location: The operating Shell service station is located at the southeast corner of First Street and Vineyard Avenue in Pleasanton, California (Figure 1).

Surroundings: Residential and commercial development.

Ground Water Depth: According to Chris Boykin of the Pleasanton Fire Department (PFD), ground water is about 60 ft below ground surface at this site.

INITIAL SAMPLING RESULTS

Parties Present: WA Geologist Faith Daverin collected the soil samples. PFD Inspector Chris Boykin observed and directed the soil sampling. Paradiso Mechanical of San Leandro, California excavated the trenches, removed the product lines, assisted with the sampling and replaced the dispensers and piping.

Sampling Dates: September 8 and 11, 1995.

Number of Initial Samples: Six: Four dispenser samples DP-1(3.0), DP-2(7.5), DP-3(8.0) and DP-4(8.5) were collected at various depths beneath the former dispensers. Product line samples PT-1 and PT-2 were collect beneath former piping joints at 4.0 and 4.5 ft below ground surface (bgs), respectively. PFD inspector Chris Boykin requested that "stained, odorous soil" that she observed be excavated to the extent feasible from beneath the former dispensers. Sample locations are presented on Figure 3.

Soil Sampling Method: Soil samples were collected by driving clean brass tubes into undisturbed soil from the backhoe bucket. All sample tubes were immediately sealed with Teflon sheeting and plastic caps and placed on ice in a cooler for transport to the state-certified analytical laboratory.

Analytical Laboratory: Sequoia Analytical in Redwood City, California.

Analytical Methods: Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by modified EPA Method 8015 and benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020. The certified analytical reports and chain-of-custody forms are included in Attachment A.

Analytic Results: Only one sample contained more than 3 parts per million (ppm) TPH-G: 120 ppm TPH-G was detected in soil at 8 ft beneath the former eastern dispenser. No benzene was detected in any samples, except one where benzene was slightly above the laboratory method detection limit.

SOIL OVEREXCAVATION AND CONFIRMATION SAMPLING

Overexcavation Objective: To remove hydrocarbon-bearing soil to the maximum extent practical beneath the former dispensers.

Overexcavation Dates: September 8 and 11, 1995.

Volume Excavated: About 40 cubic yards of soil were excavated as shown in Figure 2. About 20 cubic yards of soil were removed in association with the dispenser and piping replacements. Approximately 20 cubic yards of hydrocarbon-bearing soil, including soil removed during the initial soil sampling, were overexcavated as shown in Figure 3.

Hydrocarbons Removed: Based on the average TPH-G concentration of the excavated soil, about 3.4 pounds of hydrocarbons were removed from beneath the site.

Maximum Excavation Depth: 8.5 ft below ground surface.

Lithology Encountered: Sandy clay to about 8.5 ft depth.

Ground Water Depth: No ground water was encountered.

Sampling Date: September 8 and 11, 1995.

Number of Confirmation Samples: Two: Samples DP-1(6.0) and DP-2-SW(4.0).

Analytic Results: No benzene and less than 3 ppm TPH-G were detected in the confirmation samples.

SOIL DISPOSAL

Stockpile Sampling:

The soil stockpile was sampled by driving clean brass tubes at least 12 inches below the stockpile surface. The tubes were immediately capped and sealed with Teflon tape and refrigerated for transport to the analytical laboratory. The laboratory composited and analyzed the samples for TPH-G, BTEX and total characteristic leaching potential for metals by EPA Method 6010. The certified analytic report and chain-of-custody form are included in Attachment B.

Soil Transport and Disposal:

On September 29, 1995, Manley and Sons Inc. of Sacramento, California transported about 40 cubic yards of soil to Forward Incorporated in Stockton, California for disposal. The soil disposal confirmation sheet is presented in Attachment B.

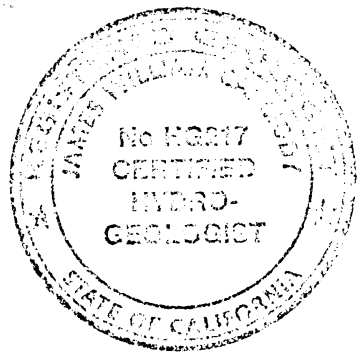
CONCLUSIONS

Based on the sampling results, WA concludes that:

- Only one of six soil samples collected from beneath the six former dispensers contained more than 3 ppm TPH-G. No benzene was detected in any of the samples.
- Most of the hydrocarbon-bearing soil was removed from the site. About 20 cubic yards of soil were overexcavated from the dispenser areas.
- 120 ppm TPH-G was left 8.0 ft beneath the south dispensers on the east fuel island. Benzene, however was below laboratory method detection limits in this sample. Further overexcavation was not possible due to the foundation of the canopy support column.
- Soil samples from beneath the product piping collected adjacent to the west fuel island contained 0.01 ppm benzene. Therefore, the former product piping was probably not a hydrocarbon source to the subsurface.
- Depth to ground water in the site vicinity is about 60 ft below ground surface. Due to the localized and shallow extent of hydrocarbons in soil, it is unlikely that hydrocarbons detected during this sampling event have impacted ground water.

WA trusts that this submittal meets your needs. Please call if you have any questions.

Sincerely,
Weiss Associates



Faith Morris Daverin
Staff Geologist

James W. Carmody, CHG
Senior Project Hydrogeologist

FMD/JWC:fmd

J:\SHELL\057\DISPENS.DOC

Attachments: Figures
Table
A - Certified Analytical Reports and Chain-of-Custody Forms for Soil
B - Soil Disposal Confirmation and Certified Analytical Report for Stockpile Samples

cc: R. Jeff Granberry, Shell Oil Products Company, PO Box 4023, Concord, CA 94524
Jeff Byram, Shell Oil Products Company, PO Box 4023, Concord, CA 94524
Kevin Graves, Regional Water Quality Control Board - San Francisco Bay, 2101 Webster Street, Suite 500, Oakland, CA 94612
Chris Boykin, Pleasanton Fire Department, P.O. Box 520, Pleasanton, CA 94566

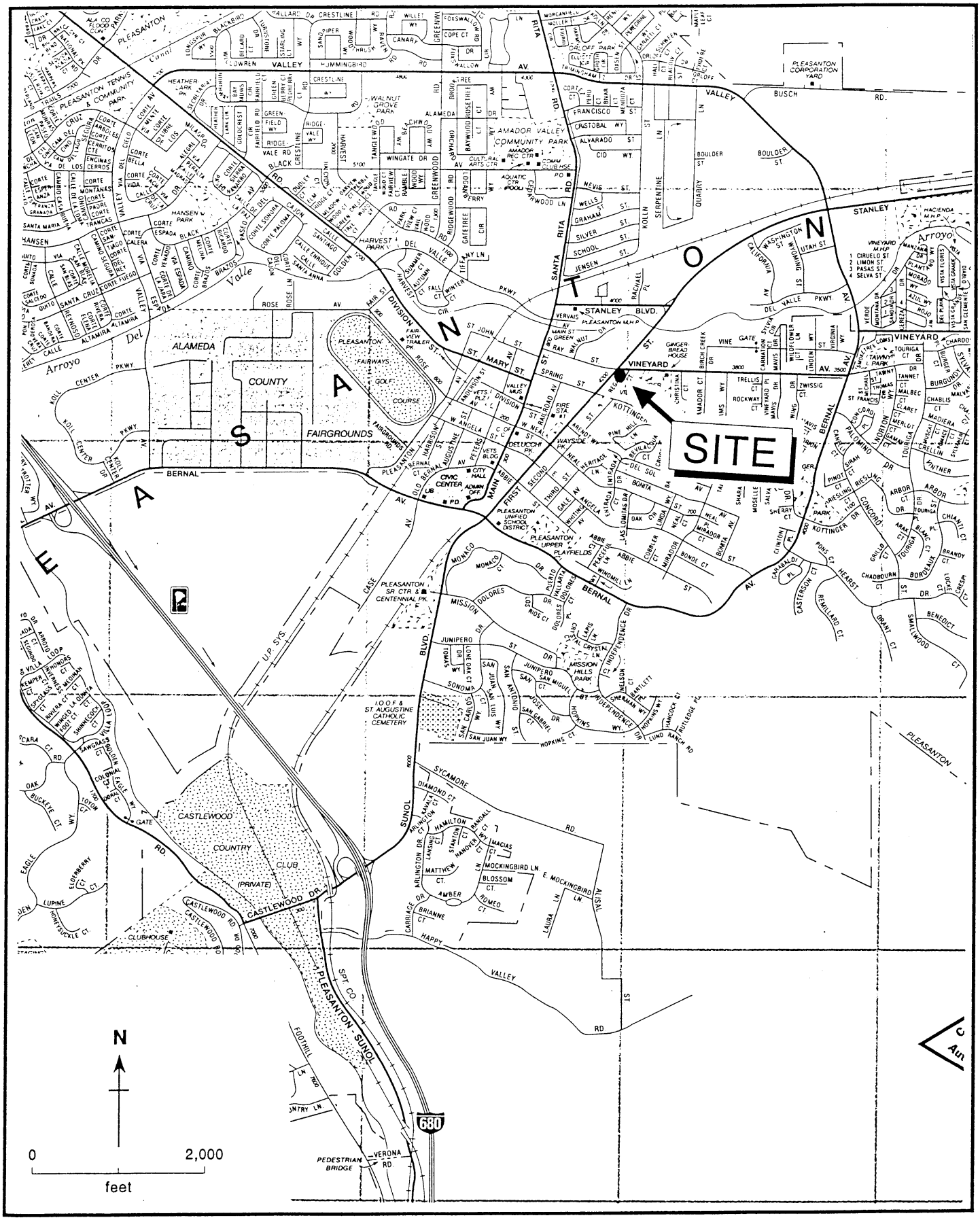


Figure 1. Site Location Map - Shell Service Station WIC #204-6138-0303, 4226 First Street, Pleasanton, California

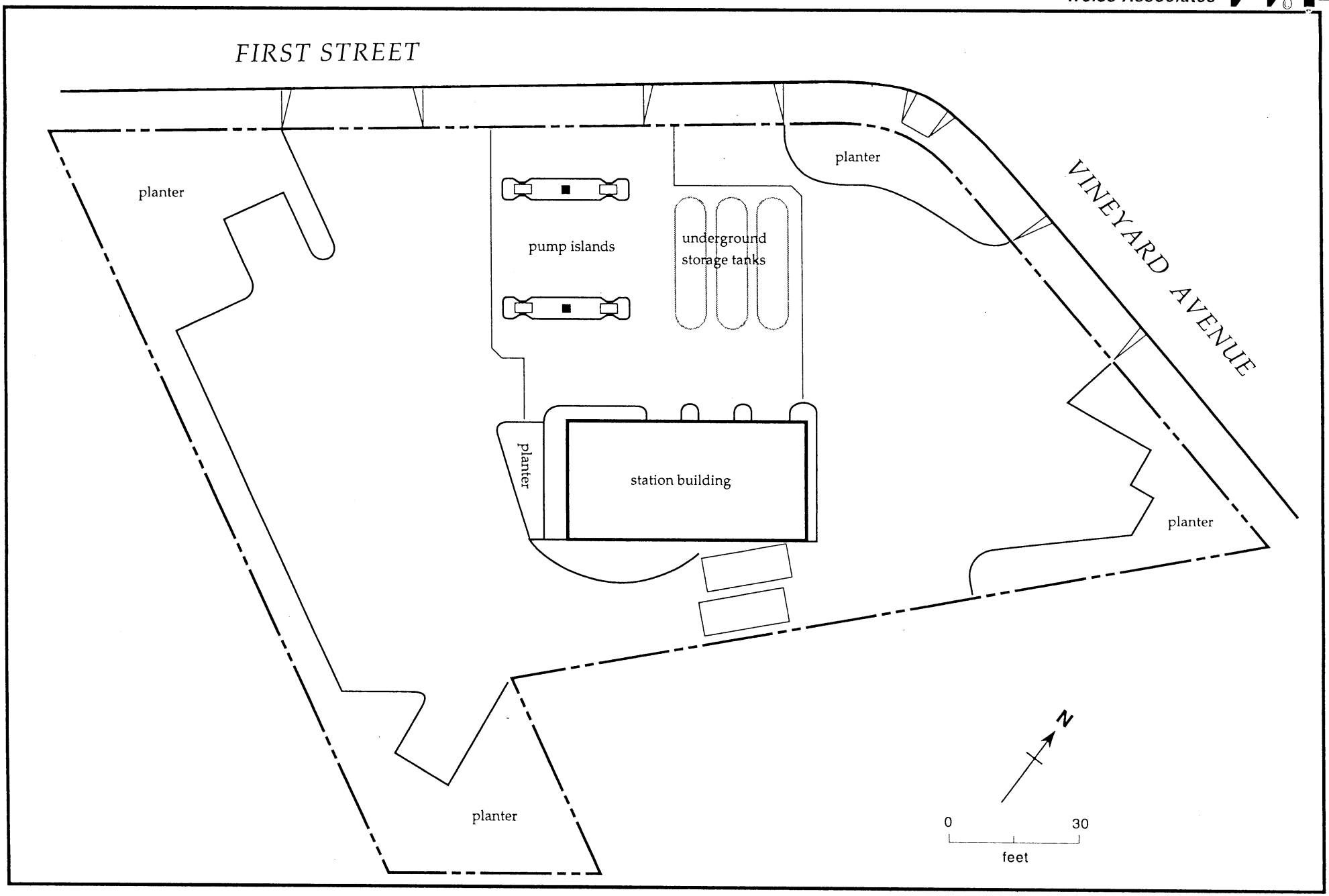


Figure 2. Site Layout - Shell Service Station WIC #204-6138-0303 - 4226 First Street, Pleasanton, California

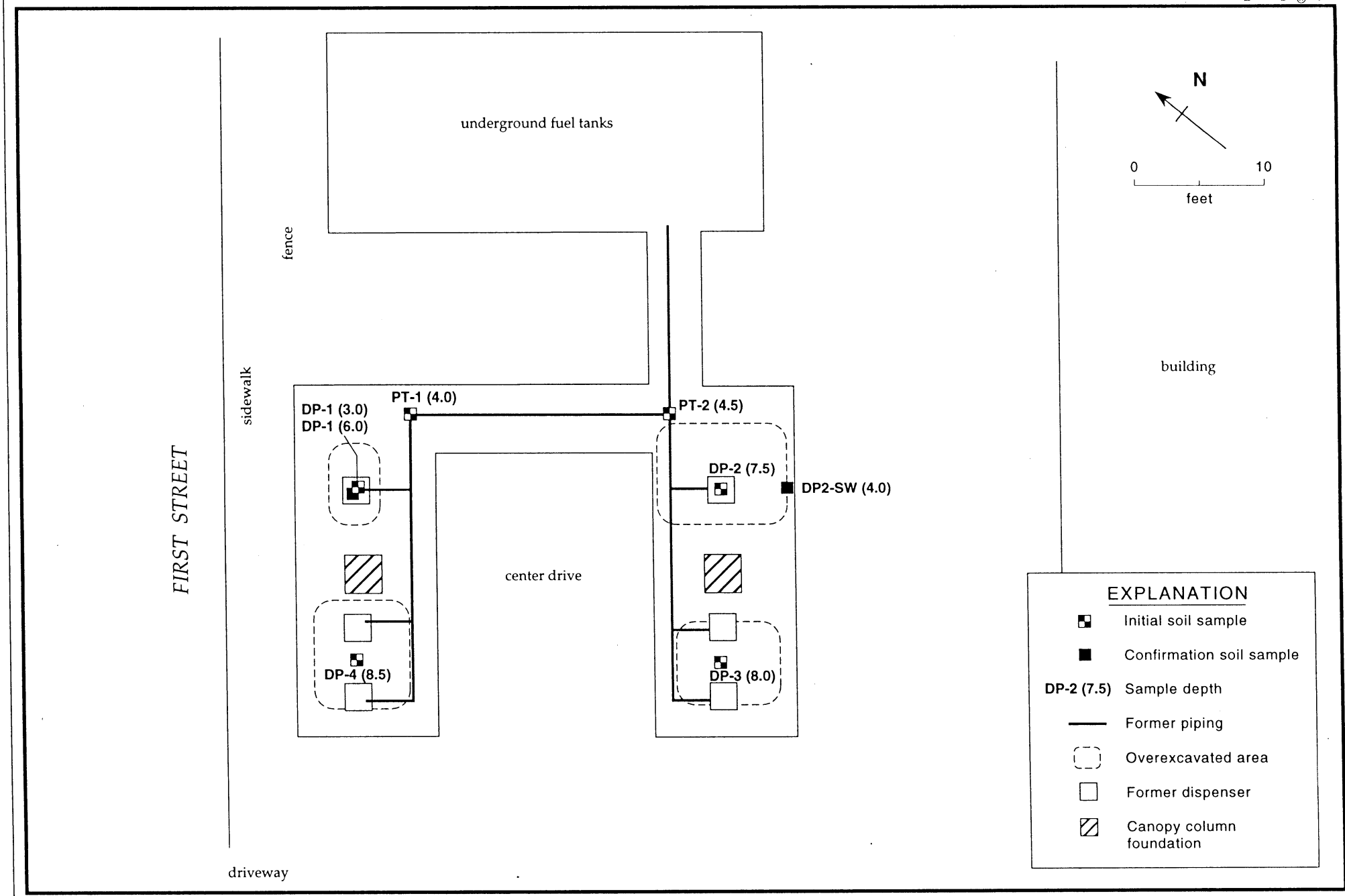


Figure 3. Soil Sample Locations - Shell Service Station WIC #204-6138-0303, 4226 First Street, Pleasanton, California

s571-002.ai

12/20r/95

Table 1. Analytic Results for Soil - Shell Service Station, WIC #204-6138-0303, 4226 First Street, Pleasanton, California

Sample ID	Sample Depth (ft)	Date Sampled	TPH-G	B	T	E	X
			<——— parts per million (mg/kg) ——— >				
Initial Soil Samples							
DP-1	3.0	09/08/95	1.3	<0.005	<0.005	<0.005	<0.005
DP-2	7.5	09/08/95	<1.0	<0.005	<0.005	<0.005	<0.005
DP-3	8.0	09/08/95	120	<0.12	<0.12	<0.12	<0.12
DP-4	8.5	09/08/95	<1.0	<0.005	<0.005	<0.005	<0.005
PT-1	4.0	09/08/95	2.5	0.0080	<0.005	0.038	0.19
PT-2	4.5	09/08/95	<1.0	<0.005	<0.005	<0.005	<0.005
Confirmation Soil Samples							
DP-1	6.0	09/11/95	2.5	<0.005	<0.005	0.020	0.035
DP-2-SW	4.0	09/08/95	1.7	<0.005	<0.005	0.0075	0.017

Abbreviations

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
B = Benzene by EPA Method 8020
T = Toluene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
X = Xylenes by EPA Method 8020
<n = Not detected at detection limit of n ppm
DP = Soil Sample collected beneath former dispenser
PT = Soil Sample collected beneath former product line

Analytical Laboratory:

Sequoia Analytical of Redwood City, California

j:\shell\0571\reports\soilanal.doc

Site: 4226 PLEASANTON
Proj. ☐ Rem. ☐ Rpt. ☑ Bill ☐
1☐ 2☐ 3☐ 4☐ 5☐ 6☐

CAMBRIA

September 22, 1998

Julie Wyman
Livermore-Pleasanton Fire Department
4550 East Avenue
Livermore, California 94550

Re: **1998 Upgrade Site Inspection Report**
Shell-branded Service Station
4226 First Street
Pleasanton, California
WIC# 204-6138-0303
Cambria Project# 240-0523-982

FILE COPY

Dear Ms. Wyman:

On behalf of Equilon Enterprises LLC (Equilon), Cambria Environmental Technology, Inc. (Cambria) is submitting the results of the site visit conducted during station upgrade activities at the site referenced above. Presented below are a description of the site conditions, activities, and conclusions.

SITE CONDITIONS

The site is located at the intersection of First Street and Vineyard Avenue in Pleasanton, California. The area surrounding the site is commercial.

This Shell-branded service station was recently upgraded by Gettler-Ryan Inc. of Dublin, California (Gettler-Ryan). Gettler-Ryan removed the waste oil remote fill piping.

UPGRADE ACTIVITIES

Personnel Present	*Title*	*Company*
Christina Empedocles	Staff Geologist	Cambria
Michael Comer	Site Foreman	Gettler-Ryan
Julie Wyman	Inspector	Livermore-Pleasanton Fire Department

Site Inspection Date: July 1, 1998.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

Cambria Environmental Technology, Inc.

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

Site Inspection Activities: Cambria inspected the waste oil tank remote fill piping removal. No field indications of hydrocarbons, such as staining or odor, were observed during the site visit. One pea gravel sample was collected below the waste oil tank remote fill piping as directed by Julie Wyman (LPFD). The analytical results for the pea gravel sample are presented as Attachment A.

CONCLUSIONS

No field indications of hydrocarbons were observed during the site visit. Therefore, no further investigation of the waste oil tank area is proposed at this time.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Michael Paves at (510) 420-3332 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

Diane M. Lundquist, P.E.
Principal Engineer

Attachments: A - Laboratory Analytical Reports for Pea Gravel

cc: Mr. Tim Hargraves, Equilon Enterprises LLC, P.O. Box 8080, Martinez, CA 94553
Ms. Karen Petryna, Equiva Services LLC, P.O. Box 8080, Martinez, CA 94553

ATTACHMENT A

Laboratory Analytical Reports for Pea Gravel

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Mike Paves

Project: Shell 4226 1st St.

Enclosed are the results from samples received at Sequoia Analytical on July 2, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9807173 -01	SOLID, WO-1	07/01/98	TRPH (EPA 418.1M)
9807173 -01	SOLID, WO-1	07/01/98	8240 Volatile Organic Co
9807173 -01	SOLID, WO-1	07/01/98	8270 SemiVolatile Organi
9807173 -01	SOLID, WO-1	07/01/98	Cadmium by ICP
9807173 -01	SOLID, WO-1	07/01/98	Chromium by ICP
9807173 -01	SOLID, WO-1	07/01/98	Nickel by ICP
9807173 -01	SOLID, WO-1	07/01/98	Lead by ICP
9807173 -01	SOLID, WO-1	07/01/98	Zinc by ICP
9807173 -01	SOLID, WO-1	07/01/98	Purgeable TPH/BTEX/MTBE
9807173 -01	SOLID, WO-1	07/01/98	TPHD_S Extractable TPH

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Cambria
1144 65th St. Suite C
Oakland, CA 94608

Attention: Mike Paves

Client Proj. ID: Shell 4226 1st St.

Lab Proj. ID: 9807173

Sampled: 07/01/98
Received: 07/02/98
Analyzed: see below

Reported: 07/17/98

LABORATORY ANALYSIS

Lab No: 9807173-01
Sample Desc : **SOLID,WO-1**

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Cadmium by ICP	mg/Kg	07/08/98	0.50	N.D.
Chromium by ICP	**mg/Kg**	**07/08/98**	**0.50**	**13**
Lead by ICP	**mg/Kg**	**07/08/98**	**5.0**	**7.3**
Nickel by ICP	**mg/Kg**	**07/08/98**	**2.5**	**26**
TRPH (EPA 418.1M)	**mg/Kg**	**07/09/98**	**15**	**280**
Zinc by ICP	**mg/Kg**	**07/08/98**	**0.50**	**26**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Cambria	Client Proj. ID: Shell 4226 1st St.	Sampled: 07/01/98
1144 65th St. Suite C	Sample Descript: WO-1	Received: 07/02/98
Oakland, CA 94608	Matrix: SOLID	Extracted: 07/07/98
	Analysis Method: EPA 8240	Analyzed: 07/07/98
Attention: Mike Paves	Lab Number: 9807173-01	Reported: 07/17/98

QC Batch Number: MS0707988240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	**500**	**1100**
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.

Sequoia Analytical

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Cambria	Client Proj. ID: Shell 4226 1st St.	Sampled: 07/01/98
1144 65th St. Suite C	Sample Descript: WO-1	Received: 07/02/98
Oakland, CA 94608	Matrix: SOLID	Extracted: 07/07/98
	Analysis Method: EPA 8240	Analyzed: 07/07/98
Attention: Mike Paves	Lab Number: 9807173-01	Reported: 07/17/98

QC Batch Number: MS0707988240EXA
Instrument ID: F3

Analyte	Detection Limit ug/Kg		Sample Results ug/Kg
Surrogates	**Control Limits %**		**% Recovery**
1,2-Dichloroethane-d4	70	121	102
Toluene-d8	81	117	99
4-Bromofluorobenzene	74	121	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell 4226 1st St.	Sampled: 07/01/98
1144 65th St. Suite C	Sample Descript: WO-1	Received: 07/02/98
Oakland, CA 94608	Matrix: SOLID	Extracted: 07/06/98
	Analysis Method: EPA 8270	Analyzed: 07/08/98
Attention: Mike Paves	Lab Number: 9807173-01	Reported: 07/17/98

QC Batch Number: MS0706988270EXA
Instrument ID: F4

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	500	N.D.
Acenaphthylene	500	N.D.
Anthracene	500	N.D.
Benzoic Acid	1000	N.D.
Benzo(a)anthracene	500	N.D.
Benzo(b)fluoranthene	500	N.D.
Benzo(k)fluoranthene	500	N.D.
Benzo(g,h,i)perylene	500	N.D.
Benzo(a)pyrene	500	N.D.
Benzyl alcohol	500	N.D.
Bis(2-chloroethoxy)methane	500	N.D.
Bis(2-chloroethyl)ether	500	N.D.
Bis(2-chloroisopropyl)ether	500	N.D.
Bis(2-ethylhexyl)phthalate	1000	N.D.
4-Bromophenyl phenyl ether	500	N.D.
Butyl benzyl phthalate	500	N.D.
4-Chloroaniline	1000	N.D.
2-Chloronaphthalene	500	N.D.
4-Chloro-3-methylphenol	500	N.D.
2-Chlorophenol	500	N.D.
4-Chlorophenyl phenyl ether	500	N.D.
Chrysene	500	N.D.
Dibenzo(a,h)anthracene	500	N.D.
Dibenzofuran	500	N.D.
Di-n-butyl phthalate	1000	N.D.
1,2-Dichlorobenzene	500	N.D.
1,3-Dichlorobenzene	500	N.D.
1,4-Dichlorobenzene	500	N.D.
3,3'-Dichlorobenzidine	1000	N.D.
2,4-Dichlorophenol	500	N.D.
Diethyl phthalate	500	N.D.
2,4-Dimethylphenol	500	N.D.
Dimethyl phthalate	500	N.D.
4,6-Dinitro-2-methylphenol	1000	N.D.
2,4-Dinitrophenol	1000	N.D.
2,4-Dinitrotoluene	500	N.D.
2,6-Dinitrotoluene	500	N.D.
Di-n-octyl phthalate	500	N.D.
Fluoranthene	500	N.D.

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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Attention: Mike Paves

Client Proj. ID: Shell 4226 1st St.
Sample Descript: WO-1
Matrix: SOLID
Analysis Method: EPA 8270
Lab Number: 9807173-01

Sampled: 07/01/98
Received: 07/02/98
Extracted: 07/06/98
Analyzed: 07/08/98
Reported: 07/17/98

QC Batch Number: MS0706988270EXA
Instrument ID: F4

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Fluorene	500	N.D.
Hexachlorobenzene	500	N.D.
Hexachlorobutadiene	500	N.D.
Hexachlorocyclopentadiene	1000	N.D.
Hexachloroethane	500	N.D.
Indeno(1,2,3-cd)pyrene	500	N.D.
Isophorone	500	N.D.
2-Methylnaphthalene	500	N.D.
2-Methylphenol	500	N.D.
4-Methylphenol	500	N.D.
Naphthalene	500	N.D.
2-Nitroaniline	1000	N.D.
3-Nitroaniline	1000	N.D.
4-Nitroaniline	1000	N.D.
Nitrobenzene	500	N.D.
2-Nitrophenol	500	N.D.
4-Nitrophenol	1000	N.D.
N-Nitrosodiphenylamine	500	N.D.
N-Nitroso-di-n-propylamine	500	N.D.
Pentachlorophenol	1000	N.D.
Phenanthrene	500	N.D.
Phenol	500	N.D.
Pyrene	500	N.D.
1,2,4-Trichlorobenzene	500	N.D.
2,4,5-Trichlorophenol	1000	N.D.
2,4,6-Trichlorophenol	500	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	54
Phenol-d5	24	113	62
Nitrobenzene-d5	23	120	63
2-Fluorobiphenyl	30	115	74
2,4,6-Tribromophenol	19	122	56
p-Terphenyl-d14	18	137	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell 4226 1st St.	Sampled: 07/01/98
1144 65th St. Suite C	Sample Descript: WO-1	Received: 07/02/98
Oakland, CA 94608	Matrix: SOLID	Extracted: 07/07/98
	Analysis Method: 8015Mod/8020	Analyzed: 07/08/98
Attention: Mike Paves	Lab Number: 9807173-01	Reported: 07/17/98

QC Batch Number: GC070898BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	78
4-Bromofluorobenzene	60	140	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

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Cambria	Client Proj. ID: Shell 4226 1st St.	Sampled: 07/01/98
1144 65th St. Suite C	Sample Descript: WO-1	Received: 07/02/98
Oakland, CA 94608	Matrix: SOLID	Extracted: 07/13/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/13/98
Attention: Mike Paves	Lab Number: 9807173-01	Reported: 07/17/98

QC Batch Number: GC0713980HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	10	27
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	274 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

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Cambria
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Mike Paves

Client Project ID: shell 4226 1st St.

QC Sample Group: 9807173-01

Reported: Jul 17, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 418.1
Analyst:	B. Anderson
ANALYTE	TRPH

QC Batch #: IN070798418100B

Sample No.:	LCS070798
Date Prepared:	7/7/98
Date Analyzed:	7/7/98
Sample Conc., mg/L:	N.D.
Conc. Spiked, mg/L:	42.0
LCS Spike, mg/L:	36
% Recovery:	86
Matrix LCS Duplicate, mg/L:	33
% Recovery:	79
elative % Difference:	8.5
RPD Control Limits:	0-20

LCS Batch#: LCS070898

Date Prepared:	7/8/98
Date Analyzed:	7/8/98
Conc. Spiked, mg/L:	42.0
LCS Recovery, mg/L:	37
LCS % Recovery:	88

Percent Recovery Control Limits:

LCS/LCSD	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met

SEQUOIA ANALYTICAL

Reggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Cambria
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Mike Paves

Client Project ID: shell 4226 1st St

QC Sample Group: 9807173-01

Reported: Jul 17, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Solid
Method:	EPA 8015M
Analyst:	A. PORTER
ANALYTE	Diesel

QC Batch #: GC0713980HBPEXA

Sample No.:	9807173-1
Date Prepared:	7/13/98
Date Analyzed:	7/13/98
Instrument I.D.#:	GCHP5A
ample Conc., mg/Kg:	27 mg/Kg
Conc. Spiked, mg/Kg:	17
Matrix Spike, mg/Kg:	20
% Recovery:	-41
Matrix ike Duplicate, mg/Kg:	21
% Recovery:	-35
elative % Difference:	5
RPD Control Limits:	0-50

*Spike diluted out.

LCS Batch#: BLK071398AS

Date Prepared:	7/13/98
Date Analyzed:	7/13/98
Instrument I.D.#:	GCHP5A
Conc. Spiked, mg/Kg:	17
Recovery, mg/Kg:	12
LCS % Recovery:	71

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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Cambria
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Mike Paves

Client Project ID: shell 4226 1st St.

QC Sample Group: 9807173-01

Reported: Jul 17, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Solid
Method:	EPA 8015
Analyst:	R. GECKLER
ANALYTE	Gasoline

QC Batch #: GC070898BTEXEXA

Sample No.:	GS9807265-32
Date Prepared:	7/8/98
Date Analyzed:	7/8/98
Instrument I.D.#:	GCHP7
ample Conc., mg/Kg:	13 mg/Kg
Conc. Spiked, mg/Kg:	5.0
Matrix Spike, mg/Kg:	14
% Recovery:	20
Matrix ike Duplicate, mg/Kg:	18
% Recovery:	100.0
elative % Difference:	25
RPD Control Limits:	0-25

LCS Batch#: GSBLK070898A

Date Prepared:	7/8/98
Date Analyzed:	7/8/98
Instrument I.D.#:	GCHP7
Conc. Spiked, mg/Kg:	5.0
Recovery, mg/Kg:	5.2
LCS % Recovery:	104

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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Cambria Environmental Tech.	Client Project ID:	Shell 4226 1st St.	
1144 65th St., Ste. C	Matrix:	Solid	
Oakland, CA 94608			
Attention: Mike Paves	Work Order #:	9807173 -01	Reported: Jul 20, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0707986010MDF	ME0707986010MDF	ME0707986010MDF	ME0707986010MDF
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	9806J4154	9806J4154	9806J4154	9806J4154
Sample Conc.:	N.D.	N.D.	34	30
Prepared Date:	7/7/98	7/7/98	7/7/98	7/7/98
Analyzed Date:	7/8/98	7/8/98	7/8/98	7/8/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
Result:	43	44	81	81
MS % Recovery:	86	88	94	102
Dup. Result:	43	44	77	77
MSD % Recov.:	86	88	86	94
RPD:	0.0	0.0	5.1	5.1
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK070798	BLK070798	BLK070798	BLK070798
Prepared Date:	7/7/98	7/7/98	7/7/98	7/7/98
Analyzed Date:	7/8/98	7/8/98	7/8/98	7/8/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
LCS Result:	47	48	49	48
LCS % Recov.:	94	96	98	96
MS/MSD Control Limits	80-120	80-120	80-120	80-120
LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Reggy Penner
Project Manager

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Cambria Environmental Tech.	Client Project ID:	Shell 4226 1st St.	
1144 65th St., Ste. C	Matrix:	Solid	
Oakland, CA 94608			
Attention: Mike Paves	Work Order #:	9807173-01	Reported: Jul 20, 1998

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0707988240EXA	MS0707988240EXA	MS0707988240EXA	MS0707988240EXA	MS0707988240EXA
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:	N.A.	N.A.	N.A.	N.A.	N.A.
Analyst:	L. Duong	L. Duong	L. Duong	L. Duong	L. Duong
MS/MSD #:	980726504	980726504	980726504	980726504	980726504
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/7/98	7/7/98	7/7/98	7/7/98	7/7/98
Analyzed Date:	7/7/98	7/7/98	7/7/98	7/7/98	7/7/98
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg
Result:	1900	2100	2200	2100	2100
MS % Recovery:	76	84	88	84	84
Dup. Result:	2100	2100	2200	2200	2200
MSD % Recov.:	84	84	88	88	88
RPD:	10	0.0	0.0	4.7	4.7
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	LCS070798	LCS070798	LCS070798	LCS070798	LCS070798
Prepared Date:	7/7/98	7/7/98	7/7/98	7/7/98	7/7/98
Analyzed Date:	7/7/98	7/7/98	7/7/98	7/7/98	7/7/98
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg
LCS Result:	2400	2300	2500	2400	2400
LCS % Recov.:	96	92	100	96	96
MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	65-135	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Cambria Environmental Tech.	Client Project ID:	Shell 4226 1st St.	
1144 65th St., Ste. C	Matrix:	Solid	
Oakland, CA 94608			
Attention: Mike Paves	Work Order #:	9807173-01	Reported: Jul 20, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS0706988270EXA	MS0706988270EXA	MS0706988270EXA	MS0706988270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	B. Pitamah	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	980713501	980713501	980713501	980713501
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/6/98	7/6/98	7/6/98	7/6/98
Analyzed Date:	7/6/98	7/6/98	7/6/98	7/6/98
Instrument I.D.#:	F4	F4	F4	F4
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2110	2150	2310	1990
MS % Recovery:	64	65	70	60
Dup. Result:	1940	2110	2280	1970
MSD % Recov.:	59	64	69	60
RPD:	8.4	1.9	1.3	1.0
RPD Limit:	0-40	0-40	0-40	0-40
LCS #:	LCS070698	LCS070698	LCS070698	LCS070698
Prepared Date:	7/6/98	7/6/98	7/6/98	7/6/98
Analyzed Date:	7/6/98	7/6/98	7/6/98	7/6/98
Instrument I.D.#:	F4	F4	F4	F4
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	2150	2170	2310	2040
LCS % Recov.:	65	66	70	62
MS/MSD LCS Control Limits	26-90	25-102	28-104	41-126

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

[illegible] Chesapeake Drive, Redwood City, CA 9[illegible]3, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Mike Paves

Client Project ID: Shell 4226 1st St.
Matrix: Solid
Work Order #: 9807173-01

Reported: Jul 20, 1998

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol	Acenaphthene	4-Nitrophenol
QC Batch#:	MS0706988270EXA	MS0706988270EXA	MS0706988270EXA	MS0706988270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	B. Pitamah	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	980713501	980713501	980713501	980713501
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/6/98	7/6/98	7/6/98	7/6/98
Analyzed Date:	7/6/98	7/6/98	7/6/98	7/6/98
Instrument I.D.#:	F4	F4	F4	F4
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2800	2540	2990	2410
MS % Recovery:	85	77	91	73
Dup. Result:	2690	2470	2900	2210
MSD % Recov.:	82	75	88	67
RPD:	4.0	2.8	3.1	8.7
RPD Limit:	0-40	0-40	0-40	0-40

LCS #:	LCS070698	LCS070698	LCS070698	LCS070698
Prepared Date:	7/6/98	7/6/98	7/6/98	7/6/98
Analyzed Date:	7/6/98	7/6/98	7/6/98	7/6/98
Instrument I.D.#:	F4	F4	F4	F4
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	2350	2030	2340	1580
LCS % Recov.:	71	62	71	48

MS/MSD LCS Control Limits	38-107	26-103	31-137	11-114

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Cambria Environmental Tech.	Client Project ID:	Shell 4226 1st St.	
1144 65th St., Ste. C	Matrix:	Solid	
Oakland, CA 94608			
Attention: Mike Paves	Work Order #:	9807173-01	Reported: Jul 20, 1998

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	MS0706988270EXA	MS0706988270EXA	MS0706988270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550
Analyst:	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	980713501	980713501	980713501
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	7/6/98	7/6/98	7/6/98
Analyzed Date:	7/6/98	7/6/98	7/6/98
Instrument I.D.#:	F4	F4	F4
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2590	2230	3850
MS % Recovery:	78	68	117
Dup. Result:	2490	2150	3520
MSD % Recov.:	75	65	107
RPD:	3.9	3.7	9.0
RPD Limit:	0-40	0-40	0-40

LCS #:	LCS070698	LCS070698	LCS070698
Prepared Date:	7/6/98	7/6/98	7/6/98
Analyzed Date:	7/6/98	7/6/98	7/6/98
Instrument I.D.#:	F4	F4	F4
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	1970	1490	3000
LCS % Recov.:	60	45	91

MS/MSD LCS Control Limits	28-89	17-109	35-142

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Mike Paves	Client Proj. ID: Shell 4226 1st St. Lab Proj. ID: 9807173	Received: 07/02/98 Reported: 07/17/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 17 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

8270 Note:
Sample 9807173-01 was diluted 2 times due to dark and dirty extract.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 2527

Date: 7/1/98
Page 1 of 1

Site Address: 4226 1ST ST, PLEASANTON

WIC#: 204-6138-0308

Shell Engineer: TIM HARGRAVES
Phone No.: (510) 335-5031
Fax #: 335-5016

Consultant Name & Address: CAMBRIA ENV. TECH., 1144-65TH ST. OAKLAND, CA 94608

Consultant Contact: MIKE PAVES
Phone No.: (510) 420-3332
Fax #: 420-9170

Comments:

Sampled by: [signature]

Printed Name: CHRISTINA EMPEDOCLES

LAB: Sequoia

Analysis Required 8015/7173

Sample ID	Date	Time Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	~~Test for Disposal~~ TPPH	Combination TPH 8015 & BTEX 8020	MTBE EPA 8020	SVOCs 8270	~~Asbestos~~ Metals	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
WO-11	7/1/98	2:25 PM	/			1 glass	X	X	X	X	X		X	X	X					

CHECK ONE (1) BOX ONLY — CT/DT

G.W. Monitoring	☐	4461
Site Investigation	☐	4441
Soil Classify/Disposal	☐	4442
Water Classify/Disposal	☐	4443
Soil/Air Rem. or Sys. O & M	☐	4452
Water Rem. or Sys. O & M	☐	4453
Other	☒	

TURN AROUND TIME

- 24 hours ☐
- 48 hours ☐
- 15 days ☒ (Normal)
- Other ☐ ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: LIVERMORE/PLEASANTON FIRE DEPARTMENT

	Printed Name	Date / Time		Printed Name	Date / Time
Relinquished By (signature): [signature]	CHRISTINA EMPEDOCLES	Date: 7/2/98 Time: 2:37	Received (signature): [signature]	JOHN ERICK	Date: 7/2/98 Time: 2:37
Relinquished By (signature): [signature]	JOHN ERICK	Date: 7/2/98 Time:	Received (signature):		Date: Time:
Relinquished By (signature):		Date: Time:	Received (signature): [signature]	MIKE YOUNG	Date: 7/2/98 Time: 17:27

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

1/17/93

Shell Oil Chain of Custody

FILE

TOXICHEM Management Systems, Inc.
Environmental & Occupational Health Services
11 Kenton Avenue
San Carlos, California 94070
(650) 551-0112 / Fax (650) 551-0116

Industrial Hygiene - Exposure Assessment
Quantitative Risk Assessment
Compliance Audits
Real Property Environmental Assessments
Remedial Investigations
Air, Soil, and Groundwater Sampling
Remedial Engineering and Construction
Regulatory Compliance and Negotiation
Litigation Support Services

REPORTS

March 16, 2005
Project EQ-76.

Robert Schultz
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Re: **Work Plan for Waste Oil Tank Investigation**
Shell Branded Service Station
4226 First Street, Pleasanton, California
Incident No. 98995840, SAP No. 135782

Dear Mr. Schultz:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Toxichem Management Systems, Inc. (TOXICHEM) has prepared this work plan to perform additional site assessment activities at the site referenced above (Figure 1). The proposed scope of work is designed to assess soil and groundwater conditions in the immediate vicinity of the waste oil tank. The following presents the site background, recent waste oil tank findings and proposed scope of work.

BACKGROUND

Site Description: The subject site is a Shell-branded service station located at the southern corner of First Street and Vineyard Avenue 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. Based on previous investigations briefly discussed below, the site is underlain by silts to 15 and 20 feet below ground surface (bgs). Interbedded gravelly sand, sandy silt and sandy and clayey gravels underlie the silt to the total depth explored of 100 feet bgs. Clayey silt was encountered at varying depths between 40 and 59 feet bgs. Groundwater flow direction is generally to the north with static water currently between 31 and 38 feet bgs.

1985, Subsurface Investigation: In 1985 Emcon Associates of San Jose advanced five borings between 20 and 30 feet bgs adjacent to the gasoline USTs and collected soil samples. One soil boring was converted into a groundwater monitoring well to a depth of 30 feet (Well S-1, Figure 2). The maximum concentration detected was 1,300 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPH-g) in SB-4 at 15 feet bgs. No benzene was detected in the soil samples collected during this investigation. No groundwater was encountered in the monitoring well.

1986 Underground Storage Tank Removal: In 1986 Blaine Tech Services of San Jose collected soil samples beneath each end of the four removed gasoline USTs. The maximum concentration of TPH-g detected in the samples was 240 mg/kg. Three 10,000 gallon double-walled fiberglass tanks were installed at a location closer to the dispenser islands (Figure

2). A soil sample was also collected from the waste oil tank excavation; no oil was detected in this sample.

March 1990, Subsurface Investigation: In March 1990, Hart Crowser, Inc. of San Francisco advanced three soil borings between 30 and 50 feet deep in the vicinity of the former gasoline USTs and collected soil samples. They also abandoned monitoring well S-1 by drilling it out and they continued drilling past the depth of the monitoring well to a total depth of 45 feet bgs to collect soil samples. Soil samples from all four borings were analyzed for TPH-g and BTEX compounds. Concentrations of 380 mg/kg and 290 mg/kg TPH-g were detected in the samples from the well abandonment boring at 30 and 35 feet bgs, respectively. TPH-g concentrations in the other soil samples were only as high as 18 mg/kg. In April 1990, Hart Crowser drilled two more soil borings at the site to a total depth of 51.5 feet bgs and collected soil samples. A maximum concentration of 820 mg/kg TPH-g was detected at a depth of 35 feet bgs. No TPH-g was detected in the other soil boring. A small amount of groundwater was observed at 49.5 feet bgs in one boring.

September, 1995, Dispenser and Piping Replacement: In September 1995, Weiss Associates of Emeryville collected soil samples from beneath the removed product piping and dispensers during replacement activities by Paradiso Mechanical of San Leandro. Approximately 20 cubic yards of soil were overexcavated to a maximum depth of 8.5 feet bgs at the direction of the Pleasanton Fire Department. A maximum remaining concentration of 120 mg/kg TPH-g was detected in soil samples collected at this overexcaevated southernmost former product dispenser location (Sample DP-3 at 8 feet bgs).

July 1998, Facility Upgrade: In July 1998, Cambria inspected the waste oil tank remote fill piping during its removal by Gettler-Ryan of Dublin. No field indications of hydrocarbons were observed during the site visit, therefore, no further investigation was required.

April 1999, Subsurface Investigation: In April 1999 Cambria advanced two soil borings (SB-6 and SB-7) to depths of 58 and 100 feet bgs, respectively. One of the borings (Boring SB-6) was converted to Monitoring Well MW-1 with screened interval extending from 37 to 57 feet bgs. During drilling, groundwater was encountered at 42.5 feet bgs, but was not evident in the boring until the hole was left open overnight. The only detection of TPHg was in sample SB-7 at 40 feet bgs at 83 mg/kg. The only detection of benzene was in sample SB-6/MW-1 at 45 feet bgs at 0.1 mg/kg. No MtBE was detected in any soil sample collected. TPH-g was detected in grab groundwater in Borings SB-6/MW-1 and SB-7 at concentrations of 10,000 and 750 micrograms per liter (µg/L). Benzene was detected grab groundwater samples in Borings SB-6 and SB-7 at concentrations of 4,500 µg/L and 20 µg/L, respectively. No MtBE was detected in groundwater from either boring.

January 2000, Subsurface Investigation: In January 2000, Cambria advanced two borings to a maximum depth of 47 feet bgs and installed Monitoring Wells MW-2 and MW-3 with screened intervals extending from 24-36 and 20-35 feet bgs, respectively. No hydrocarbons or MtBE was detected in the eleven soil samples analyzed during the investigation. The wells were then integrated into the site quarterly groundwater monitoring program.

January 2005, Site Upgrade and Backfill Well Abandonment: On January 13, 2005, Town and Country Contractors, Inc. of Rancho Cordova destroyed four UST backfill wells according to the provisions of the Zone 7 Water Agency by infilling with pea gravel and cutting off the top two feet of casing. A concrete slab was then poured over the entire UST complex upon completion of the enhanced vapor recovery tank-top upgrade activities.

RECENT WASTE OIL TANK FINDINGS

The following presents recent details, work performed and the findings regarding the existing waste oil tank.

On January 18, 2005 it was discovered that a liquid was poured into a second port present on the waste oil tank which goes directly into the surrounding pea gravel of the tank. Two of Shell's contractors, Service Station Systems and Able Maintenance, removed as much pea gravel as possible and containerized the material within a drum on-site, totaling approximately 18-gallons of pea gravel. The port was then sealed by Able Maintenance utilizing epoxy so future dumping cannot happen. On January 19, 2005 an Unauthorized Release Report was submitted by the operator to Paul Smith of the Livermore-Pleasanton Fire Department. The quantity and type of the liquid is unknown.

Based on emailed communication between yourself, Paul Smith of the Livermore-Pleasanton Fire Department and Karen Petryna of Shell the first course of action was determined to assess the nature of the material by profiling the removed pea gravel. Sampling the pea gravel around the tank was not feasible since the material had already been removed to the maximum extent possible and the access port sealed with epoxy preventing any future inadvertent incidents.

On February 16, 2005 TOXICHEM collected a 6-part representative composite sample of the removed pea gravel and submitted on ice accompanied by chain of custody to STL Laboratories in Pleasanton. The pea gravel was analyzed for waste oil parameters including:

- TPH-g, BTEX compounds, MtBE, tert-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), tert-amyl methyl ether (TAME), 1,2-DCA and EDB and for chlorinated hydrocarbons by EPA Method 8260B.
- For TPH as diesel (TPH-d) by EPA Method 8015M, TPH as oil and grease (TPH-o&g) by EPA Method 1664A and for PCBs by EPA Method 8082.
- For Semi-volatile organic compounds (SVOCs including PCP, PNA and creosol compounds) by EPA Method 8270.
- For cadmium, chromium, lead, nickel, and zinc by EPA Method 6010B.

The results are presented in Tables 1 and 2 and certified analytical results included in Attachment A. All the above constituents analyzed were non-detect with the following exceptions:

- Total petroleum hydrocarbons were detected in the composite sample at concentrations of 1.4 mg/kg TPH-g, 1,400 mg/kg TPH-d and 10,000 mg/kg TPH-o&g. The laboratory noted that the concentration reported as TPH-d was of the late diesel range and did not match their laboratory diesel standard.
- Phenanthrene (the only SVOC compound detected) was reported at a concentration of 0.42 mg/kg.
- Minor concentrations of four of the five metals were detected (Table 2).
- All concentrations of detected constituents were below their respective Residential Environmental Screening Levels (Regional Water Quality Control Board Environmental Screening Levels, revised February, 2005) with the exception of TPH-d and TPH-o&g (Tables 1 and 2).

PROPOSED SCOPE OF WORK

The proposed scope of work is designed to assess native soil and groundwater conditions in the immediate vicinity of the waste oil tank based on the above findings. It is likely that used motor oil was inadvertently poured down the wrong fill port, resulting in the discharge to the pea gravel.

Therefore, TOXICHEM proposes one hydraulic push boring be advanced adjacent to the east of the existing waste oil tank. The proposed boring location is shown on Figure 2. Field and laboratory procedures are presented in Attachment A. The scope of work proposed is as follows.

- Obtain applicable soil boring permit.
- Prepare a site-specific Health and Safety Plan.
- Provide notification for underground utility service clearance prior to boring advancement. Due to the proximity to the waste oil tank, utilize an air knife or hand auger to 10 feet bgs to clear utilities prior to boring advancement utilizing the hydraulic push rig.
- Advance the boring to approximately 35 to 40 feet bgs into first encountered groundwater.
- Collect soil samples for logging at minimum 5-foot depth intervals.
- Perform field analysis for organic vapor concentrations on selected soil samples using a photo-ionization detector (PID).
- Submit selected soil and groundwater samples from the boring to a state certified laboratory for chemical analysis if field observations or PID readings warrant. It is anticipated that at least three soil samples will be selected from the boring at approximately 10, 20 and 30 feet bgs and one grab groundwater sample will be obtained from first encountered water. The submitted soil and groundwater samples will be analyzed for TPH-g, TPH-d, BTEX compounds and MtBE by EPA Method 8260. Additionally the samples will be analyzed for TPH-o&g by EPA Method 1664A.
- Prepare a technical report presenting the findings of the investigation.

If you have any questions regarding this work plan, please contact me at (650)551-0112.

Sincerely,

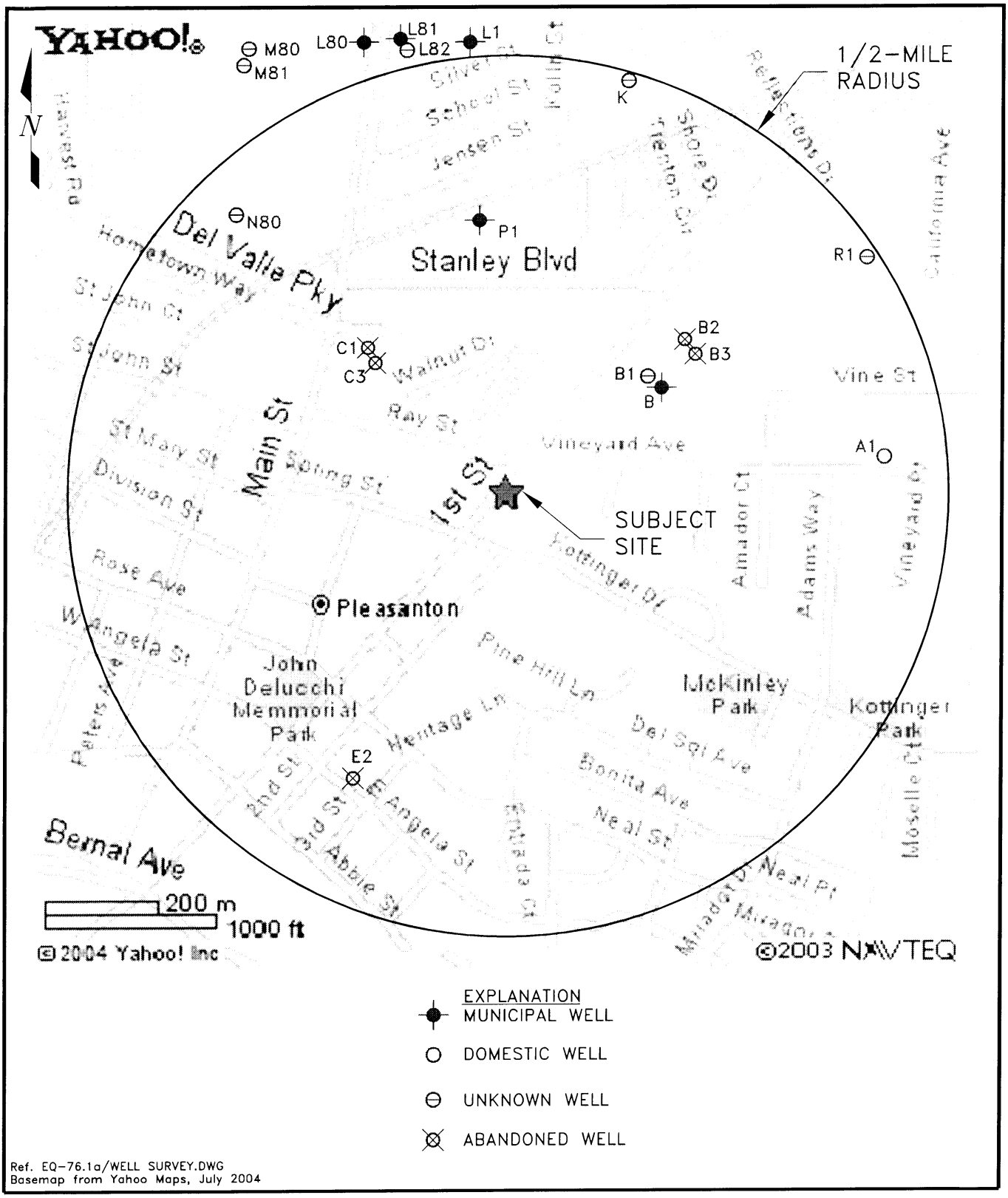
Toxichem Management Systems, Inc.

Ross Tinline, P.G.
Senior Geologist

Attachment:
Figure 1 - Well Survey Map
Figure 2 - Site Map
Table 1 - Soil Analytical Data (Total Petroleum Hydrocarbons, Volatile and Semi-Volatile Organic Compounds)
Table 2 - Soil Analytical Data (Total Metals)

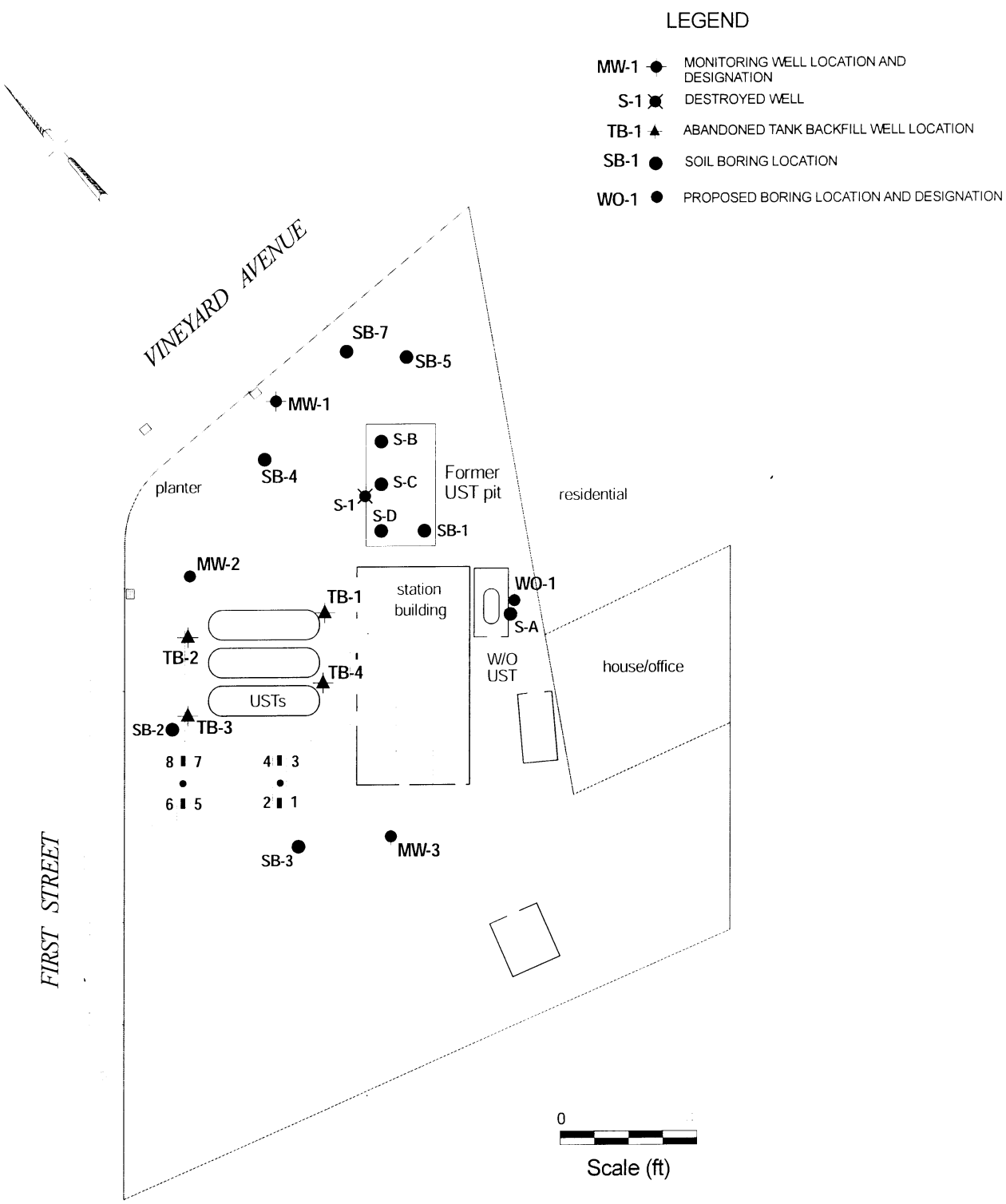
Attachment A - Field Procedures for Hydraulic Push Borings and Certified Analytical Results

cc: Karen Petryna, Shell Oil Products US, 20945 S. Wilmington, Carson, CA 90810
Aura Sibley, Shell Oil Products US, 1635 Pacheco Blvd, Martinez, CA 94553
Paul Smith, Livermore-Pleasanton Fire Department, 3560 Nevada Street
Pleasanton, California 94566



Ref. EQ-76.1a/WELL SURVEY.DWG
Basemap from Yahoo Maps, July 2004

PREPARED BY **TOXICHEM Management Systems, Inc.** Environmental & Occupational Health Services	Shell-Branded Service Station 4226 First Street Pleasanton, California SITE VICINITY AND WELL SURVEY MAP	FIGURE: 1 PROJECT: EQ-76



BASEMAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, Inc.

Environmental & Occupational Health Services

Shell-Branded Service Station
4226 First Street
Pleasanton, California

SITE MAP

FIGURE: 2

PROJECT: EQ-76

Table 1
Soil Analytical Data
Total Petroleum Hydrocarbons, Volatile and Semi-Volatile Organic Compounds
Shell Branded Service Station
4226 First Street, Pleasanton, California

Sample Designation	Sample Type or Depth (feet bgs)	Date Sampled	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-o&g (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MtBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	VOC (mg/kg)	SVOC (mg/kg)	PCBs (mg/kg)
D-1	Composite	02/16/05	**1.4**	**1400 ***	**10,000**	<0.005	<0.005	<0.005	<0.01	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	ND (0.42)**	<0.500
Soil Screening Levels																			
Residential ESL (Groundwater Protection, Leaching)***			100	100	500	0.044	2.9	3.3	2.3	0.023	NA	NA	NA	NA	NA	NA	NA	NA (11)	6.3 (0.22)
Commercial ESL (Groundwater Protection, Leaching)**			100	100	1,000	0.044	2.9	3.3	2.3	0.023	NA	NA	NA	NA	NA	NA	NA	NA (11)	6.3 (0.74)

TPH-g = Total petroleum hydrocarbons as gasoline (EPA Method 8260B)
TPH-d = Total petroleum hydrocarbons as diesel fuel (EPA Method 8015M)
TPH-o&g = Total petroleum as oil and grease (EPA Method 1664A)
MtBE = Methyl tert-butyl ether (EPA Method 8260B)
TBA = Tert-butyl alcohol (EPA Method 8260B)
DIPE = Di-isopropyl Ether (EPA Method 8260B)
ETBE = Ethyl tert-butyl ether (EPA Method 8260B)
TAME = tert-Amyl methyl ether (EPA Method 8260B)
VOC = Volatile Organic Compounds including 1,2-DCA and EDB (EPA Method 8260B)
SVOC = Semi voliatile organic compounds (EPA Method 8270C)
PCB = Polychlorinated biphenyls (EPA Method 8082)
mg/kg = Milligrams per kilogram
bgs = feet below ground surface of the bottom of the sample
* = Hydrocarbon reported is in the late diesel range, and does not match the laboratory diesel standard.
** = All SVOCs non detect except Phenanthrene (concentration in parentheses)
*** = SFRWQCB ESL for surface soil (<3m) where groundwater is a potential drinking water

Table 2
Soil Analytical Data
Total Metals by EPA 6010B
Shell Branded Service Station
4226 First Street
Pleasanton, California

Sample Designation	Depth (feet bgs)	Date Sampled	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
D-1	Composite	02/16/05	<0.5	13	6.8	27	100
Soil Screening Levels*							
Residential ESL			1.70	58	150	150	600
Commercial ESL			7.4	58	750	150	600

mg/kg = Milligrams per kilogram
* = SFRWQCB ESL for surface soil (<3m) where groundwater is a potential drinking water

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☑ NO — HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☑ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.
SIGNED Paul Smith DATE 1/24/05

REPORT DATE 01/19/05 — CASE #

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Rick Branchini — PHONE: (925) 461-9030 — SIGNATURE: Rick Branchini
REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER — COMPANY OR AGENCY NAME: First Street Shell
ADDRESS: 4226 First Street — CITY: Pleasanton — STATE: CA — ZIP: 94566

RESPONSIBLE PARTY
NAME ☐ UNKNOWN — CONTACT PERSON — PHONE ( )
ADDRESS — STREET — CITY — STATE — ZIP

SITE LOCATION
FACILITY NAME (IF APPLICABLE): First Street Shell — OPERATOR: Rick Branchini — PHONE: (925) 461-9030
ADDRESS: 4226 STREET First Street CITY Pleasanton COUNTY Alameda ZIP 94566
CROSS STREET: Vineyard

IMPLEMENTING AGENCIES
LOCAL AGENCY — AGENCY NAME — CONTACT PERSON — PHONE ( )
REGIONAL BOARD — PHONE ( )

Alameda County Environmental Health RECEIVED FEB 09 2005

SUBSTANCES INVOLVED
(1) NAME: Automotive Waste Oil — QUANTITY LOST (GALLONS): 29gal ☐ UNKNOWN
(2) ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 01/18/05 — HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☒ NUISANCE CONDITIONS ☐ TANK TEST ☐ TANK REMOVAL ☐ OTHER
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE 01/18/05
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ CLOSE TANK & REMOVE ☐ REPAIR PIPING ☐ REPAIR TANK ☐ CLOSE TANK & FILL IN PLACE ☒ CHANGE PROCEDURE ☐ REPLACE TANK ☒ OTHER Lock Fill Cap

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☐ TANK LEAK ☒ UNKNOWN ☐ PIPING LEAK ☐ OTHER
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☒ SPILL #1 Discovered ☐ CORROSION ☐ UNKNOWN ☒ OTHER See comments

CASE TYPE
CHECK ONE ONLY: ☒ UNDETERMINED ☐ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY
☐ NO ACTION TAKEN ☐ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ POLLUTION CHARACTERIZATION
☐ LEAK BEING CONFIRMED ☒ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ POST CLEANUP MONITORING IN PROGRESS
☐ REMEDIATION PLAN ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) ☐ CLEANUP UNDERWAY

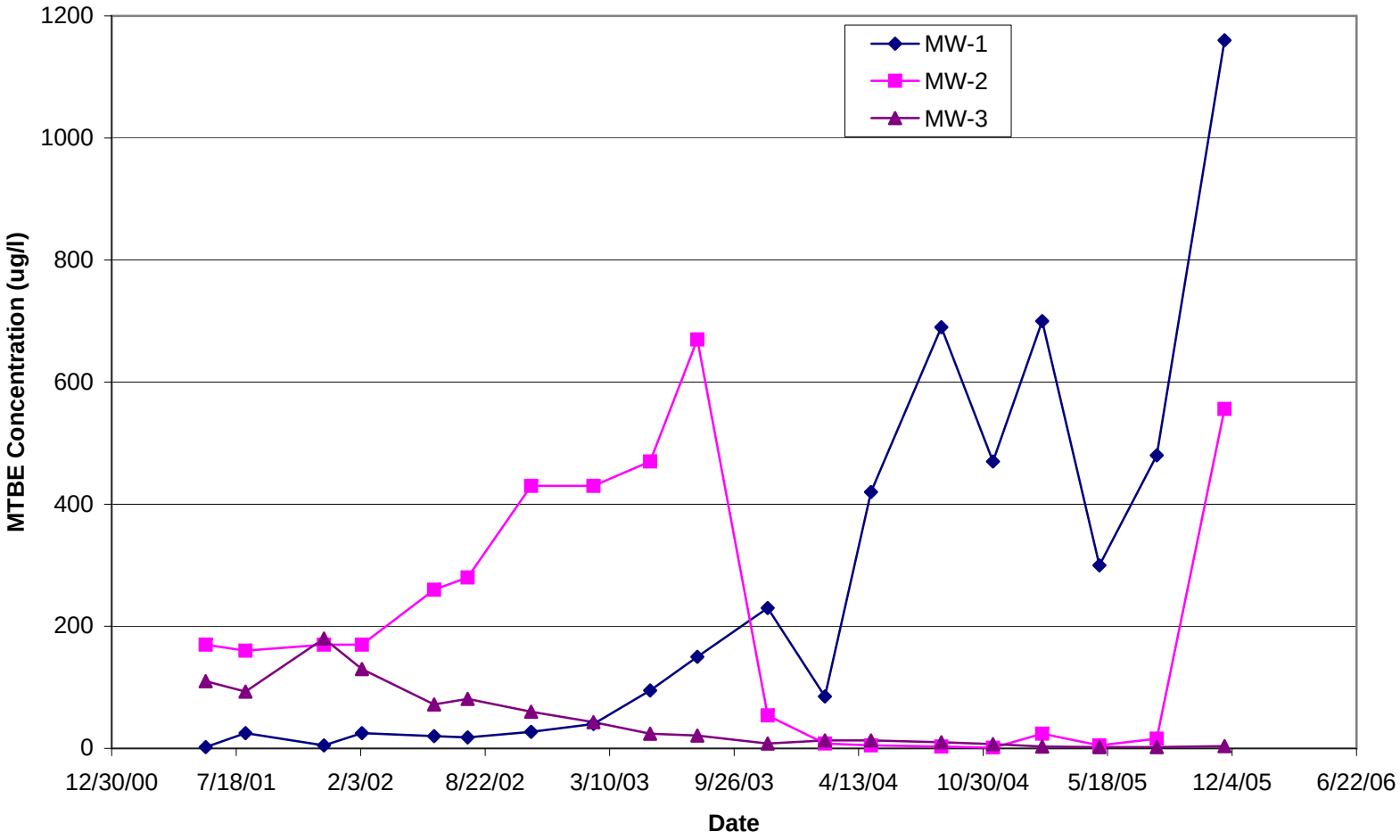
RECEIVED JAN 21 2005 FIRE PREVENTION

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT)
☐ CAP SITE (CD) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS)
☐ CONTAINMENT BARRIER (CB) ☐ NO ACTION REQUIRED (NA) ☐ TREATMENT AT HOOKUP (HU) ☐ VENT SOIL (VS)
☐ VACUUM EXTRACT (VE) ☒ OTHER (OT) Assessment underway

COMMENTS
#1 Oil Spill discovered during temporary closure due to environmental upgrades. Found other materials dumped without our knowledge. Facility closed 12/28/04 - 1/18/05

HSC 05 (8/90)

MTBE Concentrations
Wells MW-1, MW-2, and MW-3
Shell-branded Service Station
4226 First Street, Pleasanton, California



BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

December 19, 2005

Denis Brown
Shell Oil Products US
2095 South Wilmington Avenue
Carson, CA 90810

Fourth Quarter 2005 Groundwater Monitoring at
Shell-branded Service Station
4226 First Street
Pleasanton, CA

Monitoring performed on November 22, 2005

Groundwater Monitoring Report **051122-DW-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Mike Ninokata
Project Coordinator

MN/ks

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Vera Fischer
Delta Environmental
175 Bernal Rd., Suite 200
San Jose, CA 95119

WELL CONCENTRATIONS
Shell-branded Service Station
4226 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	06/16/1999	NA	NA	NA	NA	NA	NA	NA	371.20	37.81	333.39
MW-1	06/30/1999	89.0	5.89	<0.500	<0.500	0.652	<5.00	NA	371.20	33.65	337.55
MW-1	09/24/1999	1,560	473	<10.0	<10.0	22.8	<2.50	NA	371.20	37.04	334.16
MW-1	12/08/1999	1,020	375	<5.00	<5.00	15.2	<50.0	NA	371.20	36.79	334.41
MW-1	02/10/2000	523	106	<5.00	<5.00	31.8	2.90	NA	371.20	34.90	336.30
MW-1	05/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	37.0	29.5	371.20	32.55	338.65
MW-1	08/03/2000	808	290	<2.50	<2.50	8.90	<12.5	NA	371.20	39.13	332.07
MW-1	10/31/2000	507	250	0.962	<0.500	23.5	3.76	NA	371.20	37.91	333.29
MW-1	03/01/2001	<50.0	<0.500	<0.500	<0.500	<0.500	74.6	NA	371.20	39.60	331.60
MW-1	05/30/2001	780	280	<2.0	<2.0	11	NA	<2.0	371.20	39.53	331.67
MW-1	08/02/2001	1,900	580	<2.5	<2.5	12	NA	<25	371.20	39.61	331.59
MW-1	12/06/2001	840	190	<0.50	<0.50	13	NA	<5.0	371.20	39.63	331.57
MW-1	02/05/2002	2,700	650	<2.5	<2.5	7.2	NA	<25	371.20	35.53	335.67
MW-1	06/17/2002	2,500	550	<2.0	<2.0	5.9	NA	<20	371.20	39.29	331.91
MW-1	07/25/2002	690	130	<0.50	<0.50	4.4	NA	18	371.20	39.39	331.81
MW-1	11/14/2002	400	31	<0.50	<0.50	2.7	NA	27	371.20	40.00	331.20
MW-1	02/12/2003	840	0.85	<0.50	<0.50	<0.50	NA	40	371.20	32.92	338.28
MW-1	05/14/2003	680	190	<2.5	<2.5	<5.0	NA	95	371.20	32.57	338.63
MW-1	07/29/2003	870	190	<2.5	<2.5	<5.0	NA	150	371.20	33.82	337.38
MW-1	11/19/2003	<200	14	<2.0	<2.0	<4.0	NA	230	371.20	38.28	332.92
MW-1	02/19/2004	58 d	11	<0.50	<0.50	<1.0	NA	85	371.20	36.93	334.27
MW-1	05/03/2004	670	310	<2.5	<2.5	<5.0	NA	420	371.20	32.70	338.50
MW-1	08/24/2004	430 d	34	<2.5	<2.5	<5.0	NA	690	371.20	34.66	336.54
MW-1	11/15/2004	<250	29	<2.5	<2.5	<5.0	NA	470	371.20	38.27	332.93
MW-1	02/02/2005	540 e	87	<2.5	<2.5	<5.0	NA	700	371.20	32.02	339.18
MW-1	05/05/2005	460 e	88	<2.5	<2.5	<5.0	NA	300	371.20	36.82	334.38
MW-1	08/05/2005	910	230	<2.5	<2.5	<5.0	NA	480	371.20	33.35	337.85
MW-1	**11/22/2005**	**1,760**	**27.4**	**<0.500**	**<0.500**	**1.18**	**NA**	**1,160**	**371.20**	**33.42**	**337.78**

WELL CONCENTRATIONS
Shell-branded Service Station
4226 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	02/03/2000	NA	NA	NA	NA	NA	NA	NA	372.40	32.65	339.75
MW-2	02/07/2000	NA	NA	NA	NA	NA	NA	NA	372.40	35.51	336.89
MW-2	02/10/2000	<50.0	<0.500	<0.500	<0.500	<0.500	2.61	NA	372.40	36.62	335.78
MW-2	05/17/2000	120	4.09	<0.500	<0.500	<0.500	29.0	NA	372.40	32.14	340.26
MW-2	08/03/2000	<50.0	0.692	<0.500	<0.500	<0.500	40.5	36.6b	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	372.40	33.02	339.38
MW-2	03/01/2001	173	1.64	1.65	2.86	3.97	127	167	372.40	32.54	339.86
MW-2	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	372.40	32.42	339.98
MW-2	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	160	372.40	32.55	339.85
MW-2	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	372.40	33.15	339.25
MW-2	02/05/2002	<50	0.72	<0.50	<0.50	1.7	NA	170	372.40	32.29	340.11
MW-2	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	260	372.40	32.63	339.77
MW-2	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	280	372.40	32.80	339.60
MW-2	11/14/2002	120	13	9.0	3.8	14	NA	430	372.40	33.31	339.09
MW-2	02/12/2003	<100	<1.0	<1.0	<1.0	<1.0	NA	430	372.40	32.15	340.25
MW-2	05/14/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	470	372.40	32.01	340.39
MW-2	07/29/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	670	372.40	32.51	339.89
MW-2	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	54	372.40	33.83	338.57
MW-2	02/19/2004	65	<0.50	3.4	1.4	6.5	NA	8.2	372.40	32.68	339.72
MW-2	05/03/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	5.2	372.40	32.07	340.33
MW-2	08/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	2.7	372.40	32.44	339.96
MW-2	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	1.3	372.40	32.95	339.45
MW-2	02/02/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	24	372.40	31.94	340.46
MW-2	05/05/2005	72 f	<0.50	<0.50	<0.50	<1.0	NA	4.9	372.40	31.91	340.49
MW-2	08/05/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	16	372.40	32.15	340.25
MW-2	**11/22/2005**	**840**	**0.800**	**<0.500**	**<0.500**	**0.870**	**NA**	**556**	**372.40**	**32.31**	**340.09**
MW-3	02/03/2000	NA	NA	NA	NA	NA	NA	NA	375.05	32.06	342.99
MW-3	02/07/2000	NA	NA	NA	NA	NA	NA	NA	375.05	32.57	342.48

WELL CONCENTRATIONS
Shell-branded Service Station
4226 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	02/10/2000	180	5.12	<0.500	<0.500	0.714	26.8	21.5a	375.05	32.77	342.28
MW-3	05/17/2000	1,360	414	<5.00	<5.00	17.6	<25.0	NA	375.05	31.00	344.05
MW-3	08/03/2000	<50.0	0.536	<0.500	<0.500	<0.500	22.0	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	375.05	31.28	343.77
MW-3	03/01/2001	384	172	0.815	<0.500	8.00	5.16	NA	375.05	31.21	343.84
MW-3	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	110	375.05	31.02	344.03
MW-3	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	93	375.05	30.94	344.11
MW-3	12/06/2001	110	<0.50	<0.50	<0.50	2.3	NA	180	375.05	31.28	343.77
MW-3	02/05/2002	<50	0.89	0.60	<0.50	2.1	NA	130	375.05	31.12	343.93
MW-3	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	72	375.05	31.21	343.84
MW-3	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	81	375.05	30.96	344.09
MW-3	11/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	60	375.05	31.44	343.61
MW-3	02/12/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	43	375.05	31.28	343.77
MW-3	05/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	24	375.05	31.20	343.85
MW-3	07/29/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	21	375.05	31.29	343.76
MW-3	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	8.2	375.05	31.86	343.19
MW-3	02/19/2004	81	0.67	4.4	1.8	8.6	NA	13	375.05	31.66	343.39
MW-3	05/03/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	13	375.05	31.72	343.33
MW-3	08/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	10	375.05	32.09	342.96
MW-3	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	6.6	375.05	31.50	343.55
MW-3	02/02/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	3.1	375.05	31.28	343.77
MW-3	05/05/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.3	375.05	31.42	343.63
MW-3	08/05/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.4	375.05	31.35	343.70
MW-3	**11/22/2005**	**<50**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**NA**	**3.84**	**375.05**	**31.98**	**343.07**
TB-1	02/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA
TB-1	02/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	12.54	NA
TB-1	05/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	12.31	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4226 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
TB-2	02/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA
TB-2	02/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	12.56	NA
TB-2	05/14/2003	Insufficient water		NA	NA	NA	NA	NA	NA	12.54	NA
TB-3	02/12/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-3	02/28/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-3	05/14/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	02/12/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	02/28/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	05/14/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA

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
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

WELL CONCENTRATIONS
Shell-branded Service Station
4226 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)

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.

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.

Table 2 Ground Water Analytical Results - Shell-branded Service Station Incident# 98995840
4226 First Street, Pleasanton, California

Sample	TPHg	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE
	← (ppb) →					
SB-6 (MW-1)	10,000	4,500	<50	<50	140	<250
SB-7	750	20	<0.50	3.4	2.9	<2.5

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tert-Butyl Ether
ppb = parts per billion

Samples collected April 7 through 9, 1999

Table 2 Groundwater Analytical Results - Shell-branded Service Station Incident# 98995840
4226 First Street, Pleasanton, California

Sample	TPHg	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE
	← (concentrations reported in ppb) →					
MW-1	523	106	<5.00	<5.00	31.8	2.90
MW-2	<50.0	<0.500	<0.500	<0.500	<0.500	2.61
MW-3	180	5.12	<0.500	<0.500	1	26.8 (21.5a)

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tert-Butyl Ether by EPA 8020. Results in parentheses confirmed using 8260.
ppb = parts per billion
a = sample analyzed out of hold time.
Samples collected February 10, 2000

Shell Oil Products US

July 11, 2005

Re: **Soil and Water Investigation Report**
Shell-branded Service Station
4226 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

Denis L. Brown
Sr. Environmental Engineer

20945 S. Wilmington Avenue, Carson, CA 90810 P: (559) 645-9306; F: (559) 645-5643

Delta
Environmental
Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

175 Bernal Road • Suite 200
San Jose, California 95119 USA

408.224.4724 800.477.7411
Fax 408.225.8506

July 11, 2005
Project No. SJ42-26F-1.2005

Mr. Jerry Wickham
Alameda County Health Care Services Agency
Environmental Health Services – Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Soil and Water Investigation Report**
Shell-branded Service Station
4226 First Street
Pleasanton, California

Dear Mr.Wickham:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the following Soil and Water Investigation Report for the above referenced site (Figure1). The report was prepared in compliance with a letter from Alameda County Environmental Health Services (ACEHS) to Shell dated April 7, 2005.

BACKGROUND

A 550-gallon waste oil underground storage tank (UST) is located behind the station building (Figure 2)... On January 18, 2005 it was it was determined that a liquid had likely been poured into a second port present on the site waste oil tank which goes directly into the surrounding pea gravel of the tank pit. The quantity and type of the liquid is unknown.

Two of Shell's contractors, Service Station Systems and Able Maintenance, opened the tank pit and removed as much pea gravel as possible and containerized the material within a drum on-site. Approximately 18-gallons of pea gravel were removed. The port was sealed by Able Maintenance utilizing epoxy. On January 19, 2005 an Unauthorized Release Report was submitted by the operator to Paul Smith of the Livermore-Pleasanton Fire Department.

Based on emailed communication between Robert Schultz of ACEHS, Paul Smith of the Livermore-Pleasanton Fire Department, and Karen Petryna of Shell, it was decided that the first course of action was characterize the liquid that had been introduced into the pea gravel. Sampling the pea gravel around the tank was not feasible since the material had already been removed to the maximum extent possible and the access port sealed with epoxy preventing any future inadvertent incidents.

On February 16, 2005, Toxichem Management Systems, Inc. (Toxichem) collected a 6-part representative composite sample of the removed pea gravel and submitted it on ice accompanied by chain of custody documentation to STL Laboratories, Inc. (STL) in Pleasanton, California. The pea gravel was analyzed for petroleum hydrocarbon parameters including:

- Total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, and xylene (BTEX compounds), methyl tert-butyl ether (MTBE), tert-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), tert-amyl methyl ether (TAME), 1,2-DCA and EDB and for chlorinated hydrocarbons by EPA Method 8260B.
- Total petroleum hydrocarbons as diesel (TPH-d) by EPA Method 8015M, total petroleum hydrocarbons as oil and grease (TPH-o&g) by EPA Method 1664A and for polychlorinated biphenyls (PCBs) by EPA Method 8082.
- Semi-volatile organic compounds (SVOCs) compounds by EPA Method 8270.
- Cadmium, chromium, lead, nickel, and zinc by EPA Method 6010B.

Analytical results are presented in Tables 1 and 2 prepared by Toxichem (Attachment A). All the above constituents analyzed were below the laboratory detection limit with the following exceptions:

- The composite sample contained TPH-G at 1.4 milligrams per kilogram (mg/kg), TPH-D at 1,400 mg/kg, and TPH-o&g at 10,000 mg/kg. The laboratory noted that the concentration reported as TPH-D was of the late diesel range and did not match their laboratory diesel standard.
- Phenanthrene (the only SVOC compound detected) was reported at a concentration of 0.42 mg/kg.
- Minor concentrations of four of the five metals were detected (Attachment A, Table 2).
- All concentrations of detected constituents were below their respective Residential Environmental Screening Levels (Regional Water Quality Control Board Environmental Screening Levels, revised February, 2005) with the exception of TPH-d and TPH-o&g.

WORK PLAN

Toxichem submitted a work plan to ACEHS dated April 7, 2005. Toxichem proposed the drilling of one hydraulic push boring adjacent to the north end of the existing waste oil tank (Boring WO-1, Figure 2). The boring was proposed to be drilled to a depth of 35 to 40 feet below grade (bg) into first encountered groundwater. It was anticipated that at least three soil samples would be collected from the boring at depths of 10, 20, and 30 feet bg. A grab groundwater sample would also be collected from the boring. Soil and groundwater samples would be analyzed for TPH-G, TPH-D, BTEX compounds, and MTBE by EPA Method 8260 and for TPH-o&g by EPA Method 1664A. The work plan was approved by ACEHS in a letter to Shell dated April 7, 2005.

SOIL AND WATER INVESTIGATION

Delta obtained a soil boring drilling permit from the Zone 7 Water Agency (Attachment B). On June 10, 2005, Delta drilled a direct push soil boring WO-1 at the location shown on Figure 2. The boring was drilled to a depth of 37 feet bg at which point drilling refusal was met. The boring was continuously cored from 6 feet bg to its total depth. The boring encountered clay to a depth of approximately 26 feet bg underlain by primarily gravel to 37 feet bg. A boring log is presented in Attachment C. No groundwater was encountered during drilling of the boring. Depth to groundwater in site wells ranged from 31.42 feet to 36.82 feet bg on May 5, 2005. The borehole was left open for three hours without accumulating any water. The boring was backfilled with cement-bentonite grout.

Soil samples from depths of 10 feet, 20 feet, and 30 feet bg were retained in sealed brass liners and placed on ice for shipment to the laboratory for analysis. Samples were analyzed STL. The soil samples from 10 feet and 20 feet were analyzed for TPH-G, BTEX compounds, and MTBE by EPA Method 8260B, TPH-D by Method 8015M, and TPH-o&g by Method 1664A. All parameters were below the laboratory detection limit (see Table 1). The 30-foot soil sample was analyzed for TPH-G, TPH-D and BTEX compounds by Method 8260B, CAM 17 Metals by Method 6010B, PCBs by Method 8082, volatile organic compounds (VOCs) by Method 8260B, and SVOCs by Method 8270C. Analytical results are summarized on Table 1. TPH-G, PCBs, VOCs and SVOCs were not detected in the soil sample. All metals were below the San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for residential land use, deep soils, and potential source of drinking water. Laboratory reports and chain of custody documentation are provided as Attachment D.

CONCLUSIONS

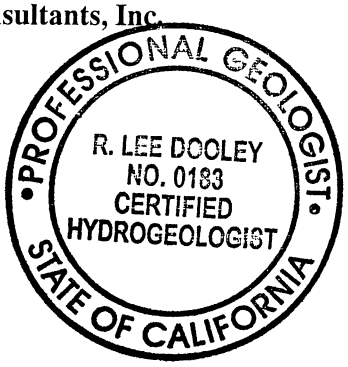
It does not appear that petroleum hydrocarbons introduced into the waste oil tank backfill have moved into the underlying soil. Clay soil surrounding the tank helped contain any liquids in the backfill which was later removed. No further action is recommended.

REMARKS

The information and recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report 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 report is intended only for the use of Delta's Client and anyone else specifically listed on this report. 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 report.

Please call if you have any questions regarding the contents of this letter.

Sincerely,
Delta Environmental Consultants, Inc.



R. Lee Dooley
Senior Hydrogeologist
CHG 0183

Attachments: Table 1 – Summary of Soil Analytical Data

Figure 1 – Site Location Map
Figure 2 – Site Map

Attachment A – Toxichem Analytical Data Summary Tables
Attachment B – Soil Boring Permit
Attachment C – Boring Log
Attachment D – Laboratory Reports and Chain of Custody Documentation

cc: Denis Brown, Shell Oil Products US, Carson
Paul Smith, Livermore-Pleasanton Fire Department
Douglas Safreno, 1627 Vineyard Ave., Pleasanton, CA 94566
Matt Katen, Zone 7 Water District
Rick Branehini, First Street Shell, 4226 First Street, Pleasanto, CA 94566

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

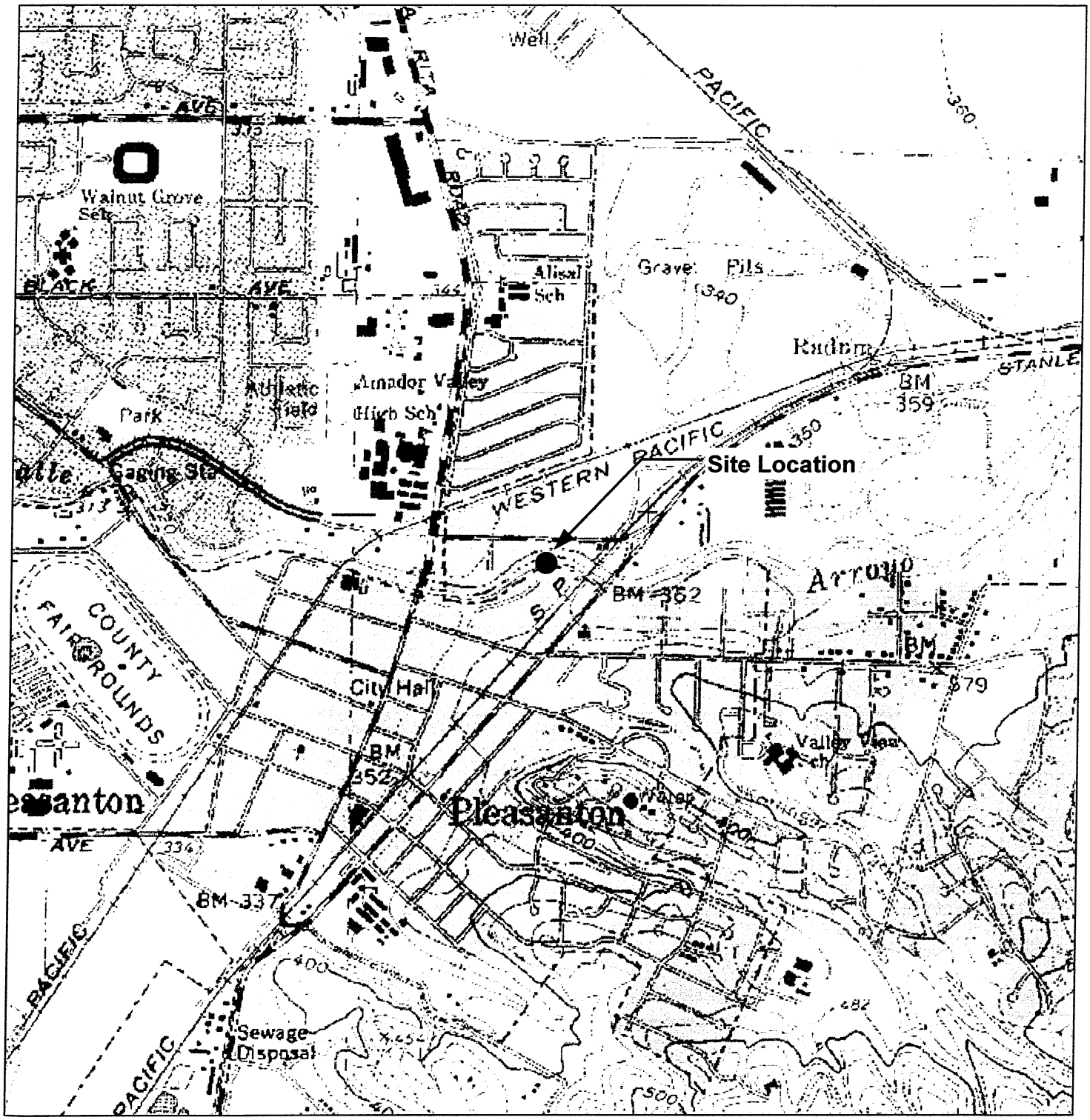
Sample	Depth (feet)	TPH-G (mg/kg)	TPH-D (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	TPH-o&g (mg/kg)	PCBs (ug/kg)	Semi V0Cs	VOCs
W0-1 @ 10	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<100	NA	NA	NA
W0-1 @ 20	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<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

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



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

North

QUADRANGLE LOCATION

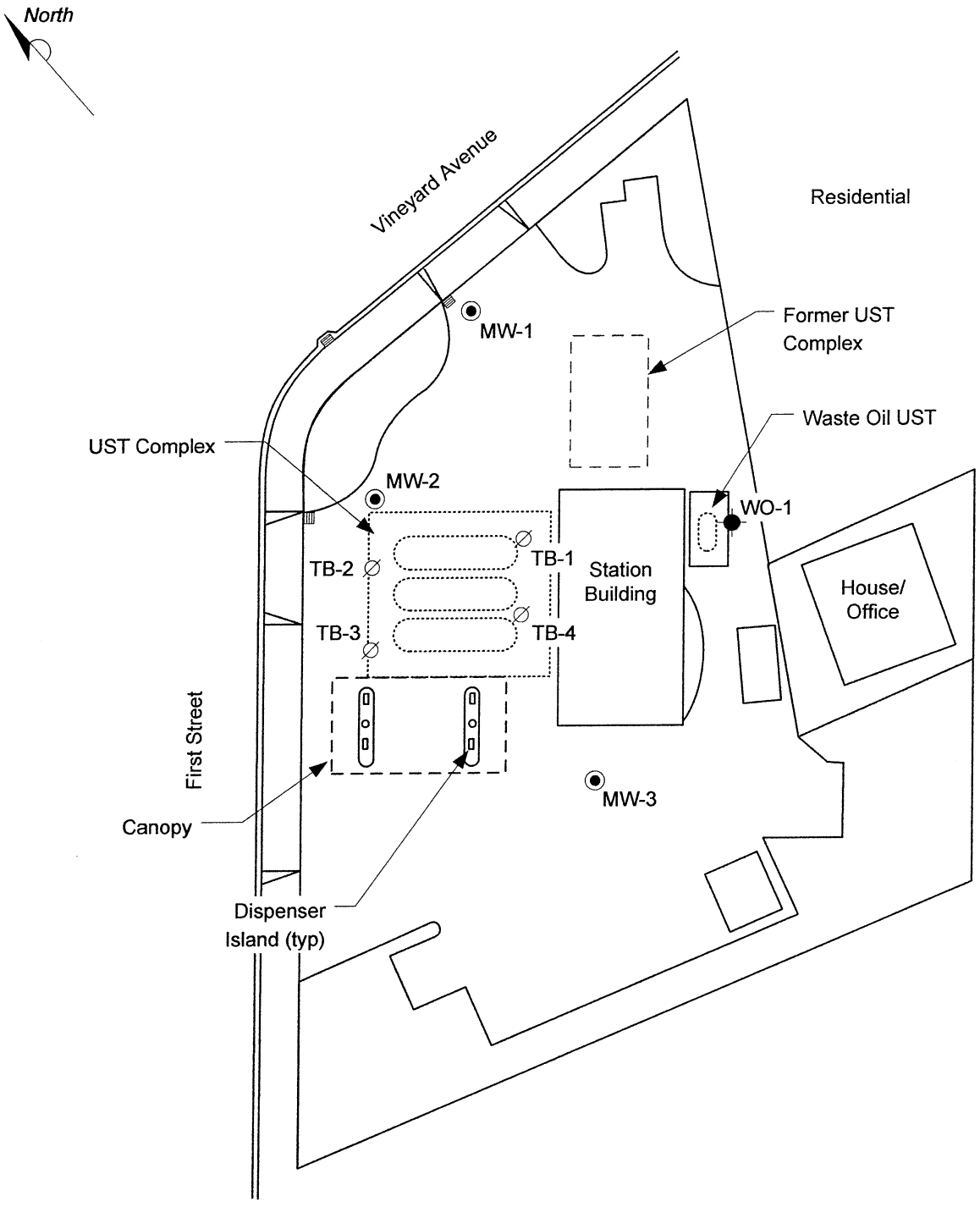
0 1,300 2,600
Scale, Feet

FIGURE 1
SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION
4226 First Street
Pleasanton, California

PROJECT NO. SJ42-26F-1.2005	DRAWN BY V. F. 5/5/05
FILE NO. SJ42-26F-1.2005	PREPARED BY VF
REVISION NO.	REVIEWED BY

Delta
Environmental
Consultants, Inc.



LEGEND

MW-2 ◉ **GROUNDWATER MONITORING WELL LOCATION**

TB-1 ∅ **ABANDONED TANK BACKFILL WELL LOCATION**

WO-1 ● **SOIL BORING LOCATION**

0 40 FT

APPROX. SCALE

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

FIGURE 2

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.

Attachment A

TOXICHEM ANALYTICAL SUMMARY TABLES

Table 1
Soil Analytical Data
Total Petroleum Hydrocarbons, Volatile and Semi-Volatile Organic Compounds
Shell Branded Service Station
4226 First Street, Pleasanton, California

Sample Designation	Sample Type or Depth (feet bgs)	Date Sampled	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-o&g (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MtBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	VOC (mg/kg)	SVOC (mg/kg)	PCBs (mg/kg)
D-1	Composite	02/16/05	**1.4**	**1400 ***	**10,000**	<0.005	<0.005	<0.005	<0.01	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	ND (0.42)**	<0.500
Soil Screening Levels																			
Residential ESL (Groundwater Protection, Leaching)***			100	100	500	0.044	2.9	3.3	2.3	0.023	NA	NA	NA	NA	NA	NA	NA	NA (11)	6.3 (0.22)
Commercial ESL (Groundwater Protection, Leaching)***			100	100	1,000	0.044	2.9	3.3	2.3	0.023	NA	NA	NA	NA	NA	NA	NA	NA (11)	6.3 (0.74)

TPH-g = Total petroleum hydrocarbons as gasoline (EPA Method 8260B)
TPH-d = Total petroleum hydrocarbons as diesel fuel (EPA Method 8015M)
TPH-o&g = Total petroleum as oil and grease (EPA Method 1664A)
MtBE = Methyl tert-butyl ether (EPA Method 8260B)
TBA = Tert-butyl alcohol (EPA Method 8260B)
DIPE = Di-isopropyl Ether (EPA Method 8260B)
ETBE = Ethyl tert-butyl ether (EPA Method 8260B)
TAME = tert-Amyl methyl ether (EPA Method 8260B)
VOC = Volatile Organic Compounds including 1,2-DCA and EDB (EPA Method 8260B)
SVOC = Semi voliatile organic compounds (EPA Method 8270C)
PCB = Polychlorinated biphenyls (EPA Method 8082)
mg/kg = Milligrams per kilogram
bgs = feet below ground surface of the bottom of the sample
* = Hydrocarbon reported is in the late diesel range, and does not match the laboratory diesel standard.
** = All SVOCs non detect except Phenanthrene (concentration in parentheses)
*** = SFRWQCB ESL for surface soil (<3m) where groundwater is a potential drinking water

Table 2
Soil Analytical Data
Total Metals by EPA 6010B
Shell Branded Service Station
4226 First Street
Pleasanton, California

Sample Designation	Depth (feet bgs)	Date Sampled	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
D-1	Composite	02/16/05	<0.5	13	6.8	27	100
Soil Screening Levels*							
Residential ESL			1.70	58	150	150	600
Commercial ESL			7.4	58	750	150	600

mg/kg = Milligrams per kilogram
* = SFRWQCB ESL for surface soil (<3m) where groundwater is a potential drinking water

Attachment B

SOIL BORING PERMIT

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

100 NORTH CANYONS PARKWAY, LIVERMORE, CA 94551 PHONE (925) 454-5000

May 27, 2005

Ms. Rebecca Wolff
Delta Environmental Consultants
175 Bernal Road, Suite 200
San Jose, CA 95119

Dear Ms. Wolff:

Enclosed is drilling permit 25089 for a contamination investigation at 4226 – 1st Street in Pleasanton for Shell Oil Porducts. Also enclosed are current drilling permit applications for your files.

Please note that permit conditions A-2 and G requires that a report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, permit number and any analysis of the soil and water samples. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact me at extension 5056 or Matt Katen at extension 5071.

Sincerely,

Wyman Hong

Wyman Hong
Water Resources Specialist

Enc.

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235 FAX (925) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 4226 1st St
Pleasanton CA 94566
Shell Station

California Coordinates Source _____ Accuracy± _____ ft.
CCN _____ ft. CCE _____ ft.
APN 94-95-24

CLIENT
Name Shell Oil Products US.
Address 20945 S. Wilmington Ave Phone (707)865-0251
City Carson, CA 90810 Zip _____

APPLICANT
Name Delta Environmental Consultants Fax (408)225-8506
Address 175 Bernal Rd. Ste 200 Phone (408)224-4724
City San Jose Zip 95119

TYPE OF PROJECT:
Well Construction •• Geotechnical Investigation ••
Well Destruction •• Contamination Investigation ••
Cathodic Protection •• Other _____

PROPOSED WELL USE:
Domestic •• Irrigation ••
Municipal •• Remediation ••
Industrial •• Groundwater Monitoring ••
Dewatering •• Other _____ ••

DRILLING METHOD:
Mud Rotary •• Air Rotary •• Hollow Stem Auger ••
Cable Tool •• Direct Push X Other _____ ••

DRILLING COMPANY GREGG Drilling
DRILLER'S LICENSE NO. C57-485165

WELL SPECIFICATIONS:
Drill Hole Diameter _____ in. Maximum
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

SOIL BORINGS:
Number of Borings 1 Maximum
Hole Diameter 3 in. Depth 40 ft.

ESTIMATED STARTING DATE 6-10-05
ESTIMATED COMPLETION DATE 6-10-05

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

APPLICANT'S SIGNATURE Rebecca Wolff Date 5-9-05
Rebecca Wolff

ATTACH SITE PLAN OR SKETCH

FOR OFFICE USE

PERMIT NUMBER 25089
WELL NUMBER _____
APN 094-0095-024-00

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal diameter is four inches greater than the well casing diameter.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

(D.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

(G.) SPECIAL CONDITIONS:, Submit to Zone 7 within 60 days after completion of permitted work the well installation report **including all soil and water laboratory analysis results**.

Approved Wyman Hong Date 5/27/05
Wyman Hong

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 454-5728

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT_____
_____
_____

California Coordinates Source_____ Accuracy±_____ft.
CCN_____ft. CCE_____ft.
APN_____

CLIENT
Name_____
Address_____Phone_____
City _____Zip _____

APPLICANT
Name_____
_____Fax_____
Address_____Phone_____
City_____Zip _____

TYPE OF PROJECT:

Well Construction	☐	Geotechnical Investigation	☐
Well Destruction	☐	Contamination Investigation	☐
Cathodic Protection	☐	Other _____	☐

PROPOSED WELL USE:

Domestic	☐	Irrigation	☐
Municipal	☐	Remediation	☐
Industrial	☐	Groundwater Monitoring	☐
Dewatering	☐	Other _____	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Hollow Stem Auger	☐
Cable Tool	☐	Direct Push	☐	Other_____	☐

DRILLING COMPANY _____
DRILLER'S LICENSE NO. _____

WELL SPECIFICATIONS:
Drill Hole Diameter_____ in. Maximum
Casing Diameter _____ in. Depth _____ft.
Surface Seal Depth _____ ft. Number _____

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

ESTIMATED STARTING DATE _____
ESTIMATED COMPLETION DATE _____

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

ATTACH SITE PLAN OR SKETCH

PERMIT NUMBER _____
WELL NUMBER _____
APN_____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal diameter is four inches greater than the well casing diameter.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report **including all soil and water laboratory analysis results**.

Approved_____Date_____
Wyman Hong

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 454-5728

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT_____
_____
_____

California Coordinates Source_____ Accuracy±_____ft.
CCN_____ft. CCE_____ft.
APN_____

CLIENT
Name_____
Address_____Phone_____
City _____Zip _____

APPLICANT
Name_____
_____Fax_____
Address_____Phone_____
City_____Zip _____

TYPE OF PROJECT:

Well Construction	□	Geotechnical Investigation	□
Well Destruction	□	Contamination Investigation	□
Cathodic Protection	□	Other _____	□

PROPOSED WELL USE:

Domestic	□	Irrigation	□
Municipal	□	Remediation	□
Industrial	□	Groundwater Monitoring	□
Dewatering	□	Other _____	□

DRILLING METHOD:

Mud Rotary	□	Air Rotary	□	Hollow Stem Auger	□
Cable Tool	□	Direct Push	□	Other_____	□

DRILLING COMPANY _____
DRILLER'S LICENSE NO. _____

WELL SPECIFICATIONS:

Drill Hole Diameter	_____ in.	Maximum	
Casing Diameter	_____ in.	Depth	_____ft.
Surface Seal Depth	_____ ft.	Number	_____

SOIL BORINGS:

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

ESTIMATED STARTING DATE _____
ESTIMATED COMPLETION DATE _____

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

APPLICANT'S
SIGNATURE _____Date_____

ATTACH SITE PLAN OR SKETCH

FOR OFFICE USE

PERMIT NUMBER _____
WELL NUMBER _____
APN_____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

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2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report **including all soil and water laboratory analysis results**.

Approved_____Date_____
Wyman Hong

Attachment C

SOIL BORING LOG

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 1 of 2
Driller:	Gregg	Date Drilled:	6/10/2005	Location Map
Drilling Method:	Direct Push	Hole Diameter:	3"	Please see site map
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)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout				hand augered				AF	Asphalt ~4"
		damp			1			CL	**Sandy Lean CLAY**: medium brown; 30-40% fine to coarse grained sand; soft; low plasticity
					2				
					3				
					4				
					5				(same as above, orangish brown; trace gravels)
					6				
					7			CL	**Sandy Lean CLAY with Gravels**: orangish brown; 55-65% fines; 35-45% fine grained sand; 15-20% rounded gravels up to ~4 mm in length
					8				
					9				
			0.1		10				
					11				(same as above, trace coarse grained sand)
					12				
					13				
					14				
			0.1		15				
					16			CL	**Sandy Lean CLAY**: same as above, trace gravels
					17				
		moist			18			CL	**Sandy Lean CLAY with Gravels**: same as above; gravels up to ~0.5 cm in length
					19				
			0.1		20				
					21			CL	**Sandy Lean CLAY**: same as above, dark gray mottling
					22				**Sandy Lean CLAY with Gravels**: same as above, dark gray mottling
								CL	

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	
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

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout					23		CL	**Sandy Lean CLAY with Gravels** (Continued)
							SC	**Clayey SAND**: orange brown; ~70% poorly graded fine grained sand; ~30% fines
		wet moist			24		CL	**Sandy Lean CLAY with Gravels**: same as above
			0.1		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
			0.1		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
			5.7		34			
					35			
					36			
					37			**Refusal at 37 feet below grade.** Hole remained dry after three hour wait.
					38			
					39			
					40			
					41			
					42			
					43			
					44			

Attachment D

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

SEVERN TRENT STL

Submission#: 2005-06-0339

Delta Env. Consultants San Jose

June 28, 2005

175 Bernal Road, Suite 200
San Jose, CA 95119

Attn.: Debbie Arnold

Project#: SJ42-26F-1
Project: 98995840
Site: 4226 First Street, Pleasanton, CA

Dear Ms. Arnold:

Attached is our report for your samples received on 06/13/2005 12:35
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/28/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,

Melissa Brewer

Melissa Brewer
Project Manager

PCBs

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
WO-1@30`	06/10/2005 10:14	Soil	3

PCBs

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	3550/8082	Test(s):	8082
Sample ID:	**WO-1@30`**	Lab ID:	2005-06-0339 - 3
Sampled:	06/10/2005 10:14	Extracted:	6/14/2005 11:51
Matrix:	Soil	QC Batch#:	2005/06/14-01.14

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Aroclor 1016	ND	50	ug/Kg	1.00	06/16/2005 10:16	
Aroclor 1221	ND	50	ug/Kg	1.00	06/16/2005 10:16	
Aroclor 1232	ND	50	ug/Kg	1.00	06/16/2005 10:16	
Aroclor 1242	ND	50	ug/Kg	1.00	06/16/2005 10:16	
Aroclor 1248	ND	50	ug/Kg	1.00	06/16/2005 10:16	
Aroclor 1254	ND	50	ug/Kg	1.00	06/16/2005 10:16	
Aroclor 1260	ND	50	ug/Kg	1.00	06/16/2005 10:16	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	99.6	57-113	%	1.00	06/16/2005 10:16	
Decachlorobiphenyl (PCB/8082)	94.2	56-115	%	1.00	06/16/2005 10:16	

PCBs

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 3550/8082
Method Blank
MB: 2005/06/14-01.14-001

Soil

Test(s): 8082
QC Batch # 2005/06/14-01.14
Date Extracted: 06/14/2005 11:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Aroclor 1016	ND	50	ug/Kg	06/16/2005 10:36	
Aroclor 1221	ND	50	ug/Kg	06/16/2005 10:36	
Aroclor 1232	ND	50	ug/Kg	06/16/2005 10:36	
Aroclor 1242	ND	50	ug/Kg	06/16/2005 10:36	
Aroclor 1248	ND	50	ug/Kg	06/16/2005 10:36	
Aroclor 1254	ND	50	ug/Kg	06/16/2005 10:36	
Aroclor 1260	ND	50	ug/Kg	06/16/2005 10:36	
Surrogates(s)					
2,4,5,6-Tetrachloro-m-xylene	88.2	57-113	%	06/16/2005 10:36	
Decachlorobiphenyl (PCB/8082)	84.0	56-115	%	06/16/2005 10:36	

PCBs

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

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San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 3550/8082

Test(s): 8082

Laboratory Control Spike **Soil** **QC Batch # 2005/06/14-01.14**

LCS 2005/06/14-01.14-002 Extracted: 06/14/2005 Analyzed: 06/16/2005 10:55
LCSD 2005/06/14-01.14-003 Extracted: 06/14/2005 Analyzed: 06/16/2005 11:15

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Aroclor 1016	60.4	57.9	66.4	91.0	87.9	3.5	65-135	30		
Aroclor 1260	60.1	60.6	66.4	90.5	92.0	1.6	65-135	30		
Surrogates(s)										
2,4,5,6-Tetrachloro-m-xylene	44.6	43.6	50	89.2	87.2		57-113	0		
Decachlorobiphenyl	42.6	43.9	50	85.2	87.9		56-115	0		

SEVERN TRENT STL

Submission: 2005-06-0339

Oil & Grease (Petroleum) by EPA 1664A

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
WO-1@10`	06/10/2005 09:34	Soil	1
WO-1@20`	06/10/2005 09:45	Soil	2
WO-1@30`	06/10/2005 10:14	Soil	3

Oil & Grease (Petroleum) by EPA 1664A

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	1664A	Test(s):	1664A
Sample ID:	**WO-1@10`**	Lab ID:	2005-06-0339 - 1
Sampled:	06/10/2005 09:34	Extracted:	6/16/2005 11:26
Matrix:	Soil	QC Batch#:	2005/06/16-02.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	100	mg/Kg	1.00	06/17/2005 17:10	

Oil & Grease (Petroleum) by EPA 1664A

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

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San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	1664A	Test(s):	1664A
Sample ID:	**WO-1@20`**	Lab ID:	2005-06-0339 - 2
Sampled:	06/10/2005 09:45	Extracted:	6/16/2005 11:26
Matrix:	Soil	QC Batch#:	2005/06/16-02.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	100	mg/Kg	1.00	06/17/2005 17:10	

Oil & Grease (Petroleum) by EPA 1664A

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Attn.: Debbie Arnold

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Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	1664A	Test(s):	1664A
Sample ID:	**WO-1@30`**	Lab ID:	2005-06-0339 - 3
Sampled:	06/10/2005 10:14	Extracted:	6/16/2005 11:26
Matrix:	Soil	QC Batch#:	2005/06/16-02.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	100	mg/Kg	1.00	06/17/2005 17:10	

Oil & Grease (Petroleum) by EPA 1664A

Delta Env. Consultants San Jose

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Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 1664A
Method Blank

Soil

Test(s): 1664A
QC Batch # 2005/06/16-02.23

MB: 2005/06/16-02.23-001

Date Extracted: 06/16/2005 11:26

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (Petroleum)	ND	100	mg/Kg	06/17/2005 17:10	

Oil & Grease (Petroleum) by EPA 1664A

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 1664A

Test(s): 1664A

Laboratory Control Spike **Soil** **QC Batch # 2005/06/16-02.23**

LCS 2005/06/16-02.23-002 Extracted: 06/16/2005 Analyzed: 06/17/2005 17:10

LCSD 2005/06/16-02.23-003 Extracted: 06/16/2005 Analyzed: 06/17/2005 17:10

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Oil & Grease (Petroleum)	357	309	400	89.3	77.3	14.4	66-114	24		

Oil & Grease (Petroleum) by EPA 1664A

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 1664A

Test(s): 1664A

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/06/16-02.23**

WO-1@10` >> MS

Lab ID: 2005-06-0339 - 001

MS: 2005/06/16-02.23-004 Extracted: 06/16/2005

Analyzed: 06/17/2005 17:10

Dilution: 1.00

MSD:

Analyzed:

Dilution:

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Oil & Grease (Petroleum)	318		ND	400	79.5			66-114	24		

SEVERN TRENT STL

Submission: 2005-06-0339

Diesel (C9-C24)

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
WO-1@10`	06/10/2005 09:34	Soil	1
WO-1@20`	06/10/2005 09:45	Soil	2
WO-1@30`	06/10/2005 10:14	Soil	3

Diesel (C9-C24)

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	**WO-1@10`**	Lab ID:	2005-06-0339 - 1
Sampled:	06/10/2005 09:34	Extracted:	6/14/2005 09:03
Matrix:	Soil	QC Batch#:	2005/06/14-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	06/15/2005 12:10	
Surrogate(s)						
o-Terphenyl	81.3	60-130	%	1.00	06/15/2005 12:10	

Diesel (C9-C24)

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	**WO-1@20`**	Lab ID:	2005-06-0339 - 2
Sampled:	06/10/2005 09:45	Extracted:	6/14/2005 09:03
Matrix:	Soil	QC Batch#:	2005/06/14-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.2	1.0	mg/Kg	1.00	06/17/2005 02:09	ndp
Surrogate(s)						
o-Terphenyl	80.9	60-130	%	1.00	06/17/2005 02:09	

Diesel (C9-C24)

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

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San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	**WO-1@30`**	Lab ID:	2005-06-0339 - 3
Sampled:	06/10/2005 10:14	Extracted:	6/14/2005 09:03
Matrix:	Soil	QC Batch#:	2005/06/14-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	06/17/2005 02:36	
Surrogate(s)						
o-Terphenyl	76.4	60-130	%	1.00	06/17/2005 02:36	

Diesel (C9-C24)

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 3550/8015M
Method Blank DIESEL
MB: 2005/06/14-01.10-004

Soil

Test(s): 8015M
QC Batch # 2005/06/14-01.10
Date Extracted: 06/14/2005 09:03

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	06/14/2005 18:44	
Surrogates(s)					
o-Terphenyl	83.3	60-130	%	06/14/2005 18:44	

Diesel (C9-C24)

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike DIESEL **Soil** **QC Batch # 2005/06/14-01.10**

LCS 2005/06/14-01.10-005 Extracted: 06/14/2005 Analyzed: 06/14/2005 17:50

LCSD 2005/06/14-01.10-006 Extracted: 06/14/2005 Analyzed: 06/14/2005 18:17

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	34.6	33.4	41.5	83.4	80.3	3.8	60-130	25		
Surrogates(s)										
o-Terphenyl	17.9	17.4	20.0	89.7	87.2		60-130	0		

Diesel (C9-C24)

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

SEVERN TRENT STL

Submission: 2005-06-0339

CAM 17 Metals

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
WO-1@30`	06/10/2005 10:14	Soil	3

CAM 17 Metals

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	**WO-1@30`**	Lab ID:	2005-06-0339 - 3
Sampled:	06/10/2005 10:14	Extracted:	6/20/2005 07:02 6/20/2005 14:41
Matrix:	Soil	QC Batch#:	2005/06/20-02.15 2005/06/20-04.16

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	06/20/2005 16:54	
Arsenic	2.8	1.0	mg/Kg	1.00	06/20/2005 16:54	
Barium	93	1.0	mg/Kg	1.00	06/20/2005 16:54	
Beryllium	ND	0.50	mg/Kg	1.00	06/20/2005 16:54	
Cadmium	1.0	0.50	mg/Kg	1.00	06/20/2005 16:54	
Chromium	30	1.0	mg/Kg	1.00	06/20/2005 16:54	
Cobalt	6.2	1.0	mg/Kg	1.00	06/20/2005 16:54	
Copper	13	1.0	mg/Kg	1.00	06/20/2005 16:54	
Lead	7.4	1.0	mg/Kg	1.00	06/20/2005 16:54	
Molybdenum	ND	1.0	mg/Kg	1.00	06/20/2005 16:54	
Nickel	32	1.0	mg/Kg	1.00	06/20/2005 16:54	
Selenium	ND	2.0	mg/Kg	1.00	06/20/2005 16:54	
Silver	ND	1.0	mg/Kg	1.00	06/20/2005 16:54	
Thallium	ND	1.0	mg/Kg	1.00	06/20/2005 16:54	
Vanadium	22	1.0	mg/Kg	1.00	06/20/2005 16:54	
Zinc	28	1.0	mg/Kg	1.00	06/20/2005 16:54	
Mercury	ND	0.050	mg/Kg	1.00	06/20/2005 18:24	

CAM 17 Metals

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 3050B
Test(s): 6010B

Method Blank **Soil** **QC Batch # 2005/06/20-02.15**

MB: 2005/06/20-02.15-054
Date Extracted: 06/20/2005 07:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	06/20/2005 12:37	
Arsenic	ND	1.0	mg/Kg	06/20/2005 12:37	
Barium	ND	1.0	mg/Kg	06/20/2005 12:37	
Beryllium	ND	0.50	mg/Kg	06/20/2005 12:37	
Cadmium	ND	0.50	mg/Kg	06/20/2005 12:37	
Chromium	ND	1.0	mg/Kg	06/20/2005 12:37	
Cobalt	ND	1.0	mg/Kg	06/20/2005 12:37	
Copper	ND	1.0	mg/Kg	06/20/2005 12:37	
Lead	ND	1.0	mg/Kg	06/20/2005 12:37	
Molybdenum	ND	1.0	mg/Kg	06/20/2005 12:37	
Nickel	ND	1.0	mg/Kg	06/20/2005 12:37	
Selenium	ND	2.0	mg/Kg	06/20/2005 12:37	
Silver	ND	1.0	mg/Kg	06/20/2005 12:37	
Thallium	ND	1.0	mg/Kg	06/20/2005 12:37	
Vanadium	ND	1.0	mg/Kg	06/20/2005 12:37	
Zinc	ND	1.0	mg/Kg	06/20/2005 12:37	

CAM 17 Metals

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 7471A

Test(s): 7471A

Method Blank

Soil

QC Batch # 2005/06/20-04.16

MB: 2005/06/20-04.16-065

Date Extracted: 06/20/2005 14:41

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	06/20/2005 18:15	

CAM 17 Metals

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2005/06/20-02.15**

LCS 2005/06/20-02.15-055 Extracted: 06/20/2005 Analyzed: 06/20/2005 12:40
LCSD 2005/06/20-02.15-056 Extracted: 06/20/2005 Analyzed: 06/20/2005 12:44

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Antimony	100	110	100.0	100.0	110.0	9.5	80-120	20		
Arsenic	113	113	100.0	113.0	113.0	0.0	80-120	20		
Barium	113	113	100.0	113.0	113.0	0.0	80-120	20		
Beryllium	110	111	100.0	110.0	111.0	0.9	80-120	20		
Cadmium	110	109	100.0	110.0	109.0	0.9	80-120	20		
Chromium	110	110	100.0	110.0	110.0	0.0	80-120	20		
Cobalt	110	109	100.0	110.0	109.0	0.9	80-120	20		
Copper	110	109	100.0	110.0	109.0	0.9	80-120	20		
Lead	109	109	100.0	109.0	109.0	0.0	80-120	20		
Molybdenum	112	112	100.0	112.0	112.0	0.0	80-120	20		
Nickel	110	110	100.0	110.0	110.0	0.0	80-120	20		
Selenium	110	110	100.0	110.0	110.0	0.0	80-120	20		
Silver	108	108	100.0	108.0	108.0	0.0	80-120	20		
Thallium	110	109	100.0	110.0	109.0	0.9	80-120	20		
Vanadium	110	111	100.0	110.0	111.0	0.9	80-120	20		
Zinc	109	108	100.0	109.0	108.0	0.9	80-120	20		

CAM 17 Metals

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Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 7471A

Test(s): 7471A

Laboratory Control Spike **Soil** **QC Batch # 2005/06/20-04.16**

LCS 2005/06/20-04.16-066 Extracted: 06/20/2005 Analyzed: 06/20/2005 18:16
LCSD 2005/06/20-04.16-067 Extracted: 06/20/2005 Analyzed: 06/20/2005 18:17

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Mercury	0.495	0.509	0.500	99.0	101.8	2.8	85-115	20		

SEVERN TRENT STL

Submission: 2005-06-0339

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
WO-1@30`	06/10/2005 10:14	Soil	3

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s): 5035
Sample ID: **WO-1@30`**
Sampled: 06/10/2005 10:14
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-06-0339 - 3
Extracted: 6/22/2005 19:13
QC Batch#: 2005/06/22-01.70

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Acetone	ND	50	ug/Kg	1.00	06/22/2005 19:13	
Benzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Bromobenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Bromochloromethane	ND	20	ug/Kg	1.00	06/22/2005 19:13	
Bromoform	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Bromomethane	ND	10	ug/Kg	1.00	06/22/2005 19:13	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	06/22/2005 19:13	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Carbon disulfide	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Chlorobenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Chloroethane	ND	10	ug/Kg	1.00	06/22/2005 19:13	
Chloroform	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Chloromethane	ND	10	ug/Kg	1.00	06/22/2005 19:13	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	06/22/2005 19:13	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	06/22/2005 19:13	

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	5035	Test(s):	8260B
Sample ID:	**WO-1@30`**	Lab ID:	2005-06-0339 - 3
Sampled:	06/10/2005 10:14	Extracted:	6/22/2005 19:13
Matrix:	Soil	QC Batch#:	2005/06/22-01.70

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	10	ug/Kg	1.00	06/22/2005 19:13	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	06/22/2005 19:13	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Ethylbenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
2-Hexanone	ND	50	ug/Kg	1.00	06/22/2005 19:13	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Methylene chloride	ND	10	ug/Kg	1.00	06/22/2005 19:13	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	06/22/2005 19:13	
Naphthalene	ND	10	ug/Kg	1.00	06/22/2005 19:13	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Styrene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Toluene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Trichloroethene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

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Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	5035	Test(s):	8260B
Sample ID:	**WO-1@30`**	Lab ID:	2005-06-0339 - 3
Sampled:	06/10/2005 10:14	Extracted:	6/22/2005 19:13
Matrix:	Soil	QC Batch#:	2005/06/22-01.70

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Vinyl acetate	ND	50	ug/Kg	1.00	06/22/2005 19:13	
Vinyl chloride	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Total xylenes	ND	5.0	ug/Kg	1.00	06/22/2005 19:13	
Surrogate(s)						
4-Bromofluorobenzene	102.4	60-130	%	1.00	06/22/2005 19:13	
1,2-Dichloroethane-d4	106.5	60-140	%	1.00	06/22/2005 19:13	
Toluene-d8	98.9	70-130	%	1.00	06/22/2005 19:13	

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

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Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 5035 — Test(s): 8260B

Method Blank — **Soil** — **QC Batch # 2005/06/22-01.70**

MB: 2005/06/22-01.70-024 — Date Extracted: 06/22/2005 17:24

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	06/22/2005 17:24	
Acetone	ND	50	ug/Kg	06/22/2005 17:24	
Benzene	ND	5.0	ug/Kg	06/22/2005 17:24	
Bromodichloromethane	ND	5.0	ug/Kg	06/22/2005 17:24	
Bromobenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
Bromochloromethane	ND	20	ug/Kg	06/22/2005 17:24	
Bromoform	ND	5.0	ug/Kg	06/22/2005 17:24	
Bromomethane	ND	10	ug/Kg	06/22/2005 17:24	
2-Butanone(MEK)	ND	50	ug/Kg	06/22/2005 17:24	
n-Butylbenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
sec-Butylbenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
tert-Butylbenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
Carbon disulfide	ND	5.0	ug/Kg	06/22/2005 17:24	
Carbon tetrachloride	ND	5.0	ug/Kg	06/22/2005 17:24	
Chlorobenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
Chloroethane	ND	10	ug/Kg	06/22/2005 17:24	
Chloroform	ND	5.0	ug/Kg	06/22/2005 17:24	
Chloromethane	ND	10	ug/Kg	06/22/2005 17:24	
2-Chlorotoluene	ND	5.0	ug/Kg	06/22/2005 17:24	
4-Chlorotoluene	ND	5.0	ug/Kg	06/22/2005 17:24	
Dibromochloromethane	ND	5.0	ug/Kg	06/22/2005 17:24	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
1,3-Dichloropropane	ND	5.0	ug/Kg	06/22/2005 17:24	
2,2-Dichloropropane	ND	5.0	ug/Kg	06/22/2005 17:24	
1,1-Dichloropropene	ND	5.0	ug/Kg	06/22/2005 17:24	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	06/22/2005 17:24	
1,2-Dibromoethane	ND	10	ug/Kg	06/22/2005 17:24	

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Method Blank **Soil** **QC Batch # 2005/06/22-01.70**

MB: 2005/06/22-01.70-024 Date Extracted: 06/22/2005 17:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Dibromomethane	ND	10	ug/Kg	06/22/2005 17:24	
Dichlorodifluoromethane	ND	10	ug/Kg	06/22/2005 17:24	
1,1-Dichloroethane	ND	5.0	ug/Kg	06/22/2005 17:24	
1,2-Dichloroethane	ND	5.0	ug/Kg	06/22/2005 17:24	
1,1-Dichloroethene	ND	5.0	ug/Kg	06/22/2005 17:24	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	06/22/2005 17:24	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	06/22/2005 17:24	
1,2-Dichloropropane	ND	5.0	ug/Kg	06/22/2005 17:24	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	06/22/2005 17:24	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	06/22/2005 17:24	
Ethylbenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
Hexachlorobutadiene	ND	5.0	ug/Kg	06/22/2005 17:24	
2-Hexanone	ND	50	ug/Kg	06/22/2005 17:24	
Isopropylbenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
p-Isopropyltoluene	ND	5.0	ug/Kg	06/22/2005 17:24	
Methylene chloride	ND	10	ug/Kg	06/22/2005 17:24	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	06/22/2005 17:24	
Naphthalene	ND	10	ug/Kg	06/22/2005 17:24	
n-Propylbenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
Styrene	ND	5.0	ug/Kg	06/22/2005 17:24	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	06/22/2005 17:24	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	06/22/2005 17:24	
Tetrachloroethene	ND	5.0	ug/Kg	06/22/2005 17:24	
Toluene	ND	5.0	ug/Kg	06/22/2005 17:24	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	06/22/2005 17:24	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	06/22/2005 17:24	
Trichloroethene	ND	5.0	ug/Kg	06/22/2005 17:24	

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Method Blank **Soil** **QC Batch # 2005/06/22-01.70**

MB: 2005/06/22-01.70-024 Date Extracted: 06/22/2005 17:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Trichlorofluoromethane	ND	5.0	ug/Kg	06/22/2005 17:24	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	06/22/2005 17:24	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	06/22/2005 17:24	
Vinyl acetate	ND	50	ug/Kg	06/22/2005 17:24	
Vinyl chloride	ND	5.0	ug/Kg	06/22/2005 17:24	
Total xylenes	ND	5.0	ug/Kg	06/22/2005 17:24	
Surrogates(s)					
4-Bromofluorobenzene	98.5	60-130	%	06/22/2005 17:24	
1,2-Dichloroethane-d4	97.6	60-140	%	06/22/2005 17:24	
Toluene-d8	106.2	70-130	%	06/22/2005 17:24	

Volatile Organic Compounds by 8260B (Low Level)

Delta Env. Consultants San Jose

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Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 5035

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/06/22-01.70**

LCS 2005/06/22-01.70-048 Extracted: 06/22/2005 Analyzed: 06/22/2005 16:48

LCSD

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	92.3		100.0	92.3			69-129	20		
Chlorobenzene	97.5		100.0	97.5			61-121	20		
1,1-Dichloroethene	99.9		100.0	99.9			65-125	20		
Toluene	100.0		100.0	100.0			70-130	20		
Trichloroethene	98.7		100.0	98.7			74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	483		500	96.6			60-130			
1,2-Dichloroethane-d4	517		500	103.4			60-140			
Toluene-d8	536		500	107.2			70-130			

Volatile Organic Compounds by 8260B (Low Level)

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Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 5035

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/06/22-01.70**

WO-1@30` >> MS

Lab ID: 2005-06-0339 - 003

MS: 2005/06/22-01.70-049 Extracted: 06/22/2005

Analyzed: 06/22/2005 19:49

Dilution: 1.00

MSD: 2005/06/22-01.70-026 Extracted: 06/22/2005

Analyzed: 06/22/2005 20:26

Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	83.0	84.3	ND	89.6	92.6	95.8	3.4	69-129	20		
Chlorobenzene	85.5	84.4	ND	89.6	95.4	95.9	0.5	61-121	20		
1,1-Dichloroethene	91.9	93.6	ND	89.6	102.6	106.4	3.6	65-125	20		
Toluene	82.0	84.5	ND	89.6	91.5	96.0	4.8	70-130	20		
Trichloroethene	82.9	87.8	ND	89.6	92.5	99.8	7.6	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	504	505		500	100.7	101.0		60-130			
1,2-Dichloroethane-d4	518	520		500	103.5	104.0		60-140			
Toluene-d8	497	517		500	99.5	103.3		70-130			

SEVERN TRENT STL

Submission: 2005-06-0339

Semi-volatile analysis by GC/MS - EPA8270C

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
WO-1@30`	06/10/2005 10:14	Soil	3

Semi-volatile analysis by GC/MS - EPA8270C

Delta Env. Consultants San Jose

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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	3550B/8270C	Test(s):	8270C
Sample ID:	**WO-1@30`**	Lab ID:	2005-06-0339 - 3
Sampled:	06/10/2005 10:14	Extracted:	6/15/2005 14:27
Matrix:	Soil	QC Batch#:	2005/06/15-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
2-Chlorophenol	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Benzyl alcohol	ND	0.17	mg/Kg	1.00	06/23/2005 22:14	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
2-Methylphenol	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
4-Methylphenol	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Hexachloroethane	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Nitrobenzene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Isophorone	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
2-Nitrophenol	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
2,4-Dimethylphenol	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	1.00	06/23/2005 22:14	
2,4-Dichlorophenol	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Naphthalene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
4-Chloroaniline	ND	0.33	mg/Kg	1.00	06/23/2005 22:14	
Hexachlorobutadiene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	1.00	06/23/2005 22:14	
2-Methylnaphthalene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	1.00	06/23/2005 22:14	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
2-Chloronaphthalene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
2-Nitroaniline	ND	0.33	mg/Kg	1.00	06/23/2005 22:14	

Semi-volatile analysis by GC/MS - EPA8270C

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Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	3550B/8270C	Test(s):	8270C
Sample ID:	**WO-1@30`**	Lab ID:	2005-06-0339 - 3
Sampled:	06/10/2005 10:14	Extracted:	6/15/2005 14:27
Matrix:	Soil	QC Batch#:	2005/06/15-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dimethyl phthalate	ND	0.17	mg/Kg	1.00	06/23/2005 22:14	
Acenaphthylene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
3-Nitroaniline	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Acenaphthene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
2,4-Dinitrophenol	ND	0.33	mg/Kg	1.00	06/23/2005 22:14	
4-Nitrophenol	ND	0.33	mg/Kg	1.00	06/23/2005 22:14	
Dibenzofuran	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
2,6-Dinitrotoluene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Diethyl phthalate	ND	0.17	mg/Kg	1.00	06/23/2005 22:14	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	1.00	06/23/2005 22:14	
Fluorene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
4-Nitroaniline	ND	0.33	mg/Kg	1.00	06/23/2005 22:14	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	1.00	06/23/2005 22:14	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	1.00	06/23/2005 22:14	
Hexachlorobenzene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Pentachlorophenol	ND	0.33	mg/Kg	1.00	06/23/2005 22:14	
Phenanthrene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Anthracene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Di-n-butyl phthalate	ND	0.17	mg/Kg	1.00	06/23/2005 22:14	
Fluoranthene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Pyrene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Butyl benzyl phthalate	ND	0.17	mg/Kg	1.00	06/23/2005 22:14	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	1.00	06/23/2005 22:14	
Benzo(a)anthracene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	1.00	06/23/2005 22:14	
Chrysene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Di-n-octyl phthalate	ND	0.17	mg/Kg	1.00	06/23/2005 22:14	

Semi-volatile analysis by GC/MS - EPA8270C

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Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	3550B/8270C	Test(s):	8270C
Sample ID:	**WO-1@30`**	Lab ID:	2005-06-0339 - 3
Sampled:	06/10/2005 10:14	Extracted:	6/15/2005 14:27
Matrix:	Soil	QC Batch#:	2005/06/15-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzo(b)fluoranthene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Benzo(a)pyrene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	1.00	06/23/2005 22:14	
Benzoic acid	ND	0.33	mg/Kg	1.00	06/23/2005 22:14	
Surrogate(s)						
Nitrobenzene-d5	66.4	23-120	%	1.00	06/23/2005 22:14	
2-Fluorobiphenyl	74.5	30-115	%	1.00	06/23/2005 22:14	
p-Terphenyl-d14	90.8	18-137	%	1.00	06/23/2005 22:14	
2-Fluorophenol	67.4	25-121	%	1.00	06/23/2005 22:14	
Phenol-d5	64.5	24-113	%	1.00	06/23/2005 22:14	
2,4,6-Tribromophenol	73.5	19-122	%	1.00	06/23/2005 22:14	

Semi-volatile analysis by GC/MS - EPA8270C

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Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 3550B/8270C

Test(s): 8270C

Method Blank

Soil

QC Batch # 2005/06/15-01.11

MB: 2005/06/15-01.11-001

Date Extracted: 06/15/2005 14:27

Compound	Conc.	RL	Unit	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	06/23/2005 21:09	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	06/23/2005 21:09	
2-Chlorophenol	ND	0.067	mg/Kg	06/23/2005 21:09	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	06/23/2005 21:09	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	06/23/2005 21:09	
Benzyl alcohol	ND	0.17	mg/Kg	06/23/2005 21:09	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	06/23/2005 21:09	
2-Methylphenol	ND	0.067	mg/Kg	06/23/2005 21:09	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	06/23/2005 21:09	
4-Methylphenol	ND	0.067	mg/Kg	06/23/2005 21:09	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	06/23/2005 21:09	
Hexachloroethane	ND	0.067	mg/Kg	06/23/2005 21:09	
Nitrobenzene	ND	0.067	mg/Kg	06/23/2005 21:09	
Isophorone	ND	0.067	mg/Kg	06/23/2005 21:09	
2-Nitrophenol	ND	0.067	mg/Kg	06/23/2005 21:09	
2,4-Dimethylphenol	ND	0.067	mg/Kg	06/23/2005 21:09	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	06/23/2005 21:09	
2,4-Dichlorophenol	ND	0.067	mg/Kg	06/23/2005 21:09	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	06/23/2005 21:09	
Naphthalene	ND	0.067	mg/Kg	06/23/2005 21:09	
4-Chloroaniline	ND	0.330	mg/Kg	06/23/2005 21:09	
Hexachlorobutadiene	ND	0.067	mg/Kg	06/23/2005 21:09	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	06/23/2005 21:09	
2-Methylnaphthalene	ND	0.067	mg/Kg	06/23/2005 21:09	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	06/23/2005 21:09	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	06/23/2005 21:09	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	06/23/2005 21:09	
2-Chloronaphthalene	ND	0.067	mg/Kg	06/23/2005 21:09	
2-Nitroaniline	ND	0.33	mg/Kg	06/23/2005 21:09	

Semi-volatile analysis by GC/MS - EPA8270C

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Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 3550B/8270C
Test(s): 8270C

Method Blank
Soil
QC Batch # 2005/06/15-01.11

MB: 2005/06/15-01.11-001
Date Extracted: 06/15/2005 14:27

Compound	Conc.	RL	Unit	Analyzed	Flag
Dimethyl phthalate	ND	0.17	mg/Kg	06/23/2005 21:09	
Acenaphthylene	ND	0.067	mg/Kg	06/23/2005 21:09	
3-Nitroaniline	ND	0.067	mg/Kg	06/23/2005 21:09	
Acenaphthene	ND	0.067	mg/Kg	06/23/2005 21:09	
2,4-Dinitrophenol	ND	0.33	mg/Kg	06/23/2005 21:09	
4-Nitrophenol	ND	0.33	mg/Kg	06/23/2005 21:09	
Dibenzofuran	ND	0.067	mg/Kg	06/23/2005 21:09	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	06/23/2005 21:09	
2,6-Dinitrotoluene	ND	0.067	mg/Kg	06/23/2005 21:09	
Diethyl phthalate	ND	0.17	mg/Kg	06/23/2005 21:09	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	06/23/2005 21:09	
Fluorene	ND	0.067	mg/Kg	06/23/2005 21:09	
4-Nitroaniline	ND	0.33	mg/Kg	06/23/2005 21:09	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	06/23/2005 21:09	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	06/23/2005 21:09	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	06/23/2005 21:09	
Hexachlorobenzene	ND	0.067	mg/Kg	06/23/2005 21:09	
Pentachlorophenol	ND	0.33	mg/Kg	06/23/2005 21:09	
Phenanthrene	ND	0.067	mg/Kg	06/23/2005 21:09	
Anthracene	ND	0.067	mg/Kg	06/23/2005 21:09	
Di-n-butyl phthalate	ND	0.17	mg/Kg	06/23/2005 21:09	
Fluoranthene	ND	0.067	mg/Kg	06/23/2005 21:09	
Pyrene	ND	0.067	mg/Kg	06/23/2005 21:09	
Butyl benzyl phthalate	ND	0.17	mg/Kg	06/23/2005 21:09	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	06/23/2005 21:09	
Benzo(a)anthracene	ND	0.067	mg/Kg	06/23/2005 21:09	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	06/23/2005 21:09	
Chrysene	ND	0.067	mg/Kg	06/23/2005 21:09	
Di-n-octyl phthalate	ND	0.17	mg/Kg	06/23/2005 21:09	

Semi-volatile analysis by GC/MS - EPA8270C

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Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 3550B/8270C — Test(s): 8270C

Method Blank — **Soil** — **QC Batch # 2005/06/15-01.11**

MB: 2005/06/15-01.11-001 — Date Extracted: 06/15/2005 14:27

Compound	Conc.	RL	Unit	Analyzed	Flag
Benzo(b)fluoranthene	ND	0.067	mg/Kg	06/23/2005 21:09	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	06/23/2005 21:09	
Benzo(a)pyrene	ND	0.067	mg/Kg	06/23/2005 21:09	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	06/23/2005 21:09	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	06/23/2005 21:09	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	06/23/2005 21:09	
Benzoic acid	ND	0.33	mg/Kg	06/23/2005 21:09	
Surrogates(s)					
Nitrobenzene-d5	67.4	23-120	%	06/23/2005 21:09	
2-Fluorobiphenyl	65.6	30-115	%	06/23/2005 21:09	
p-Terphenyl-d14	76.6	18-137	%	06/23/2005 21:09	
2-Fluorophenol	65.7	25-121	%	06/23/2005 21:09	
Phenol-d5	68.0	24-113	%	06/23/2005 21:09	
2,4,6-Tribromophenol	66.1	19-122	%	06/23/2005 21:09	

Semi-volatile analysis by GC/MS - EPA8270C

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98995840

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Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 3550B/8270C

Test(s): 8270C

Laboratory Control Spike **Soil** **QC Batch # 2005/06/15-01.11**

LCS 2005/06/15-01.11-002 Extracted: 06/15/2005 Analyzed: 06/23/2005 21:31

LCSD 2005/06/15-01.11-003 Extracted: 06/15/2005 Analyzed: 06/23/2005 21:52

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Phenol	1.11	1.28	1.67	66.5	76.6	14.1	20-90	35		
2-Chlorophenol	1.12	1.22	1.67	67.1	73.1	8.6	27-123	35		
1,4-Dichlorobenzene	1.09	1.10	1.67	65.3	65.9	0.9	28-104	30		
N-Nitroso-di-n-propylamine	1.20	1.15	1.67	71.9	68.9	4.3	25-114	39		
1,2,4-Trichlorobenzene	1.21	1.17	1.67	72.5	70.1	3.4	38-107	35		
4-Chloro-3-methylphenol	1.19	1.21	1.67	71.3	72.5	1.7	26-103	33		
Acenaphthene	1.19	1.11	1.67	71.3	66.5	7.0	49-102	30		
4-Nitrophenol	1.36	1.40	1.67	81.4	83.8	2.9	17-109	35		
2,4-Dinitrotoluene	1.29	1.31	1.67	77.2	78.4	1.5	39-139	38		
Pentachlorophenol	1.37	1.39	1.67	82.0	83.2	1.5	11-114	35		
Pyrene	1.37	1.30	1.67	82.0	77.8	5.3	25-117	35		
Surrogates(s)										
Nitrobenzene-d5	18.1	16.6	25	72.4	66.4		23-120			
2-Fluorobiphenyl	16.8	16.2	25	67.3	64.7		30-115			
p-Terphenyl-d14	21.8	22.9	25	87.4	91.6		18-137			
2-Fluorophenol	31.9	34.9	50	63.8	69.9		25-121			
Phenol-d5	34.6	37.9	50	69.2	75.9		24-113			
2,4,6-Tribromophenol	39.8	38.0	50	79.6	76.1		19-122			

Semi-volatile analysis by GC/MS - EPA8270C

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98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 3550B/8270C

Test(s): 8270C

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/06/15-01.11**

WO-1@30` >> MS

Lab ID: 2005-06-0339 - 003

MS: 2005/06/15-01.11-005 Extracted: 06/15/2005 Analyzed: 06/24/2005 05:27

Dilution: 1.00

MSD: 2005/06/15-01.11-006 Extracted: 06/15/2005 Analyzed: 06/24/2005 05:48

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Phenol	1.11	1.07	ND	1.67	66.5	64.1	3.7	20-90	35		
2-Chlorophenol	1.12	1.01	ND	1.67	67.1	60.5	10.3	27-123	35		
1,4-Dichlorobenzene	1.02	0.870	ND	1.67	61.1	52.1	15.9	28-104	30		
N-Nitroso-di-n-propylamine	1.12	1.04	ND	1.67	67.1	62.3	7.4	25-114	39		
1,2,4-Trichlorobenzene	1.06	0.940	ND	1.67	63.5	56.3	12.0	38-107	35		
4-Chloro-3-methylphenol	1.18	1.14	ND	1.67	70.7	68.3	3.5	26-103	33		
Acenaphthene	1.01	1.19	ND	1.67	60.5	71.3	16.4	49-102	30		
4-Nitrophenol	1.18	1.24	ND	1.67	70.7	74.3	5.0	17-109	35		
2,4-Dinitrotoluene	1.17	1.28	ND	1.67	70.1	76.6	8.9	39-139	38		
Pentachlorophenol	1.30	1.42	ND	1.67	77.8	85.0	8.8	11-114	35		
Pyrene	1.21	1.49	ND	1.67	72.5	89.2	20.7	25-117	35		
Surrogate(s)											
Nitrobenzene-d5	15.9	15.6		25	63.4	62.4		23-120			
2-Fluorobiphenyl	15.7	16.5		25	62.6	66.0		30-115			
p-Terphenyl-d14	22.4	26.2		25	89.4	104.6		18-137			
2-Fluorophenol	32.0	29.0		50	64.0	58.1		25-121			
Phenol-d5	32.9	31.1		50	65.8	62.1		24-113			
2,4,6-Tribromophenol	36.9	40.6		50	73.8	81.2		19-122			

SEVERN TRENT STL

Submission: 2005-06-0339

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

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98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
WO-1@10`	06/10/2005 09:34	Soil	1
WO-1@20`	06/10/2005 09:45	Soil	2
WO-1@30`	06/10/2005 10:14	Soil	3

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**WO-1@10`**	Lab ID:	2005-06-0339 - 1
Sampled:	06/10/2005 09:34	Extracted:	6/24/2005 10:11
Matrix:	Soil	QC Batch#:	2005/06/24-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/24/2005 10:11	
Benzene	ND	0.0050	mg/Kg	1.00	06/24/2005 10:11	
Toluene	ND	0.0050	mg/Kg	1.00	06/24/2005 10:11	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/24/2005 10:11	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/24/2005 10:11	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/24/2005 10:11	
Surrogate(s)						
1,2-Dichloroethane-d4	101.4	76-124	%	1.00	06/24/2005 10:11	
Toluene-d8	95.7	75-116	%	1.00	06/24/2005 10:11	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**WO-1@20`**	Lab ID:	2005-06-0339 - 2
Sampled:	06/10/2005 09:45	Extracted:	6/24/2005 09:45
Matrix:	Soil	QC Batch#:	2005/06/24-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/24/2005 09:45	
Benzene	ND	0.0050	mg/Kg	1.00	06/24/2005 09:45	
Toluene	ND	0.0050	mg/Kg	1.00	06/24/2005 09:45	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/24/2005 09:45	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/24/2005 09:45	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/24/2005 09:45	
Surrogate(s)						
1,2-Dichloroethane-d4	105.9	76-124	%	1.00	06/24/2005 09:45	
Toluene-d8	82.3	75-116	%	1.00	06/24/2005 09:45	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**WO-1@30`**	Lab ID:	2005-06-0339 - 3
Sampled:	06/10/2005 10:14	Extracted:	6/23/2005 16:52
Matrix:	Soil	QC Batch#:	2005/06/23-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/23/2005 16:52	
Surrogate(s)						
1,2-Dichloroethane-d4	95.4	76-124	%	1.00	06/23/2005 16:52	
Toluene-d8	90.6	75-116	%	1.00	06/23/2005 16:52	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Soil** — **QC Batch # 2005/06/23-1A.69**

MB: 2005/06/23-1A.69-009 — Date Extracted: 06/23/2005 13:09

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	06/23/2005 13:09	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	06/23/2005 13:09	
Benzene	ND	0.0050	mg/Kg	06/23/2005 13:09	
Toluene	ND	0.0050	mg/Kg	06/23/2005 13:09	
Ethyl benzene	ND	0.0050	mg/Kg	06/23/2005 13:09	
Total xylenes	ND	0.0050	mg/Kg	06/23/2005 13:09	
Surrogates(s)					
1,2-Dichloroethane-d4	105.2	76-124	%	06/23/2005 13:09	
Toluene-d8	97.2	75-116	%	06/23/2005 13:09	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Soil** — **QC Batch # 2005/06/24-1B.62**

MB: 2005/06/24-1B.62-012 — Date Extracted: 06/24/2005 09:12

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	06/24/2005 09:12	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	06/24/2005 09:12	
Benzene	ND	0.0050	mg/Kg	06/24/2005 09:12	
Toluene	ND	0.0050	mg/Kg	06/24/2005 09:12	
Ethyl benzene	ND	0.0050	mg/Kg	06/24/2005 09:12	
Total xylenes	ND	0.0050	mg/Kg	06/24/2005 09:12	
Surrogates(s)					
1,2-Dichloroethane-d4	101.6	76-124	%	06/24/2005 09:12	
Toluene-d8	96.4	75-116	%	06/24/2005 09:12	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/06/23-1A.69**

LCS 2005/06/23-1A.69-051 Extracted: 06/23/2005 Analyzed: 06/23/2005 12:51

LCSD

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	0.0530		0.05	106.0			65-165	20		
Benzene	0.0479		0.05	95.8			69-129	20		
Toluene	0.0481		0.05	96.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	529		500	105.8			76-124			
Toluene-d8	514		500	102.8			75-116			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/06/24-1B.62**

LCS 2005/06/24-1B.62-046 Extracted: 06/24/2005 Analyzed: 06/24/2005 08:46
LCSD

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	0.0414		0.049309	84.0			65-165	20		
Benzene	0.0399		0.049309	80.9			69-129	20		
Toluene	0.0435		0.049309	88.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	500		500	100.0			76-124			
Toluene-d8	489		500	97.8			75-116			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/06/23-1A.69**

WO-1@30` >> MS

Lab ID: 2005-06-0339 - 003

MS: 2005/06/23-1A.69-011 Extracted: 06/23/2005

Analyzed: 06/23/2005 17:11

Dilution: 1.00

MSD: 2005/06/23-1A.69-029 Extracted: 06/23/2005

Analyzed: 06/23/2005 17:29

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0415	0.0477	ND	0.049019	84.7	97.9	14.5	65-165	20		
Benzene	0.0361	0.0446	ND	0.049019	73.7	91.5	21.5	69-129	20		R1
Toluene	0.0415	0.0493	ND	0.049019	84.7	101.2	17.8	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	458	444		500	91.7	88.8		76-124			
Toluene-d8	470	478		500	94.0	95.6		75-116			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/06/24-1B.62**

MS/MSD

Lab ID: 2005-06-0366 - 011

MS: 2005/06/24-1B.62-005 Extracted: 06/24/2005 Analyzed: 06/24/2005 14:05
Dilution: 1.00

MSD: 2005/06/24-1B.62-031 Extracted: 06/24/2005 Analyzed: 06/24/2005 14:31
Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0411	0.0433	ND	0.045289	90.7	89.3	1.6	65-165	20		
Benzene	0.0312	0.0323	ND	0.045289	68.9	66.6	3.4	69-129	20	M5	M5
Toluene	0.0314	0.0334	ND	0.045289	69.3	68.9	0.6	70-130	20	M5	M5
Surrogate(s)											
1,2-Dichloroethane-d4	630	639		500	126.0	127.8		76-124		S7	S7
Toluene-d8	477	473		500	95.4	94.6		75-116			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ42-26F-1
98995840

Received: 06/13/2005 12:35

Site: 4226 First Street, Pleasanton, CA

Legend and Notes

Result Flag

.

-

M5

MS/MSD spike recoveries were below acceptance limits.
See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA

(925)484-1919 (925)484-1096 fax

EQUIVA Services LLC Chain Of Custody Record

116547

Equiva Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Denis Brown

2005-06-0339

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 8 4 0

SAP or CRMT NUMBER (TS/CRMT):

DATE: 6/13/05

PAGE: 1 of 1

SAMPLING COMPANY: Delta Environmental Consultants

LOG CODE:

SITE ADDRESS (Street and City): 4226 First Street, Pleasanton, CA

GLOBAL ID NO.: T0600101259

ADDRESS: 175 Bernal Rd #200, San Jose, CA 95119

EDF DELIVERABLE TO (Responsible Party or Designee): Vera Fischer

PHONE NO.:

E-MAIL: vfisher@deltaenv.com

CONSULTANT PROJECT NO.: SJ42-26F-1

PROJECT CONTACT (Hardcopy or PDF Report to): Debbie Arnolod

SAMPLER NAME(S) (Print): Heather Buckingham

LAB USE ONLY

TELEPHONE: (408) 224-4724 FAX: (408) 225-8506 E-MAIL: darnold@deltaenv.com

TURNAROUND TIME (BUSINESS DAYS): ☐ 10 DAYS ☑ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST ______ HIGHEST per BORING ______ ALL ______

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

REQUESTED ANALYSIS

Field Sample Identification	Sampling Date	Sampling Time	Matrix	No. of Cont.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	TBA	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Title 22 Metals by 6010B	Semi VOCS by 8270C	VOCs by 8260B	TPH - Diesel, Extractable (8015m)	TPH - Oil and Grease (1664A)	PCBs by 8082
WO-1@10'	6/10/2005	9:34	soil	1	X	X		X														X	X	
WO-1@20'	6/10/2005	9:45	soil	1	X	X		X														X	X	
WO-1@30'	6/10/2005	10:14	soil	1	X														X	X	X	X	X	X

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°: 3

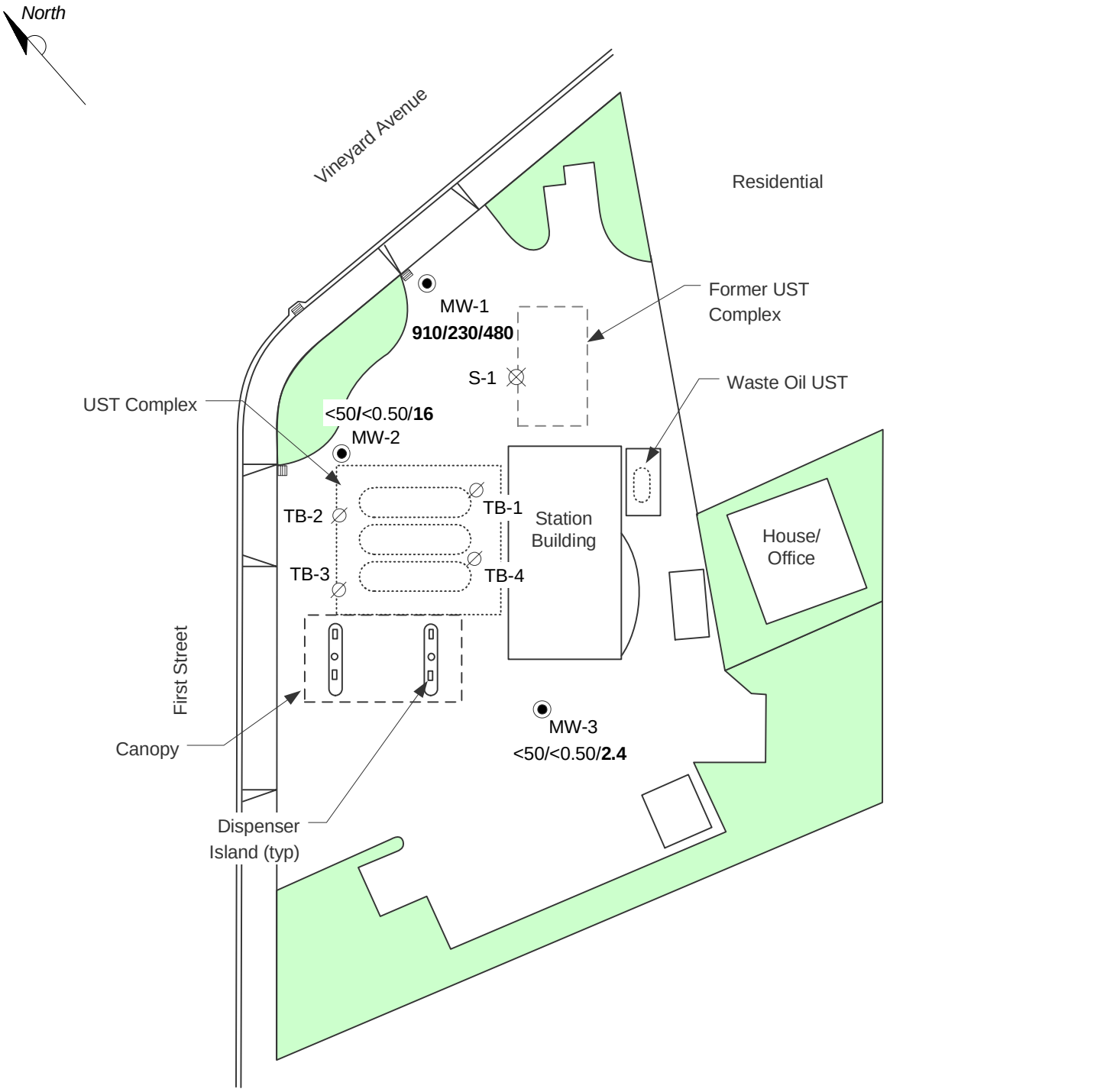
Relinquished by: (Signature) Heather Buckingham — Received by: (Signature) [signature] — Date: 6/13/05 — Time: 1235

Relinquished by: (Signature) [signature] 6/13/05 1727 — Received by: (Signature) [signature] — Date: 6/13/05 — Time: 1727

Relinquished by: (Signature) — Received by: (Signature) — Date: — Time:

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision



0 40 FT

APPROX. SCALE

LEGEND

MW-2 ◉ **GROUNDWATER MONITORING WELL LOCATION**

S-1 ⊗ **DESTROYED WELL**

TB-1 ∅ **ABANDONED TANK BACKFILL WELL LOCATION**

<50/<0.50/<0.50 **TPH-G/BENZENE/MTBE CONCENTRATION MAP, 8/5/05**

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

FIGURE 3

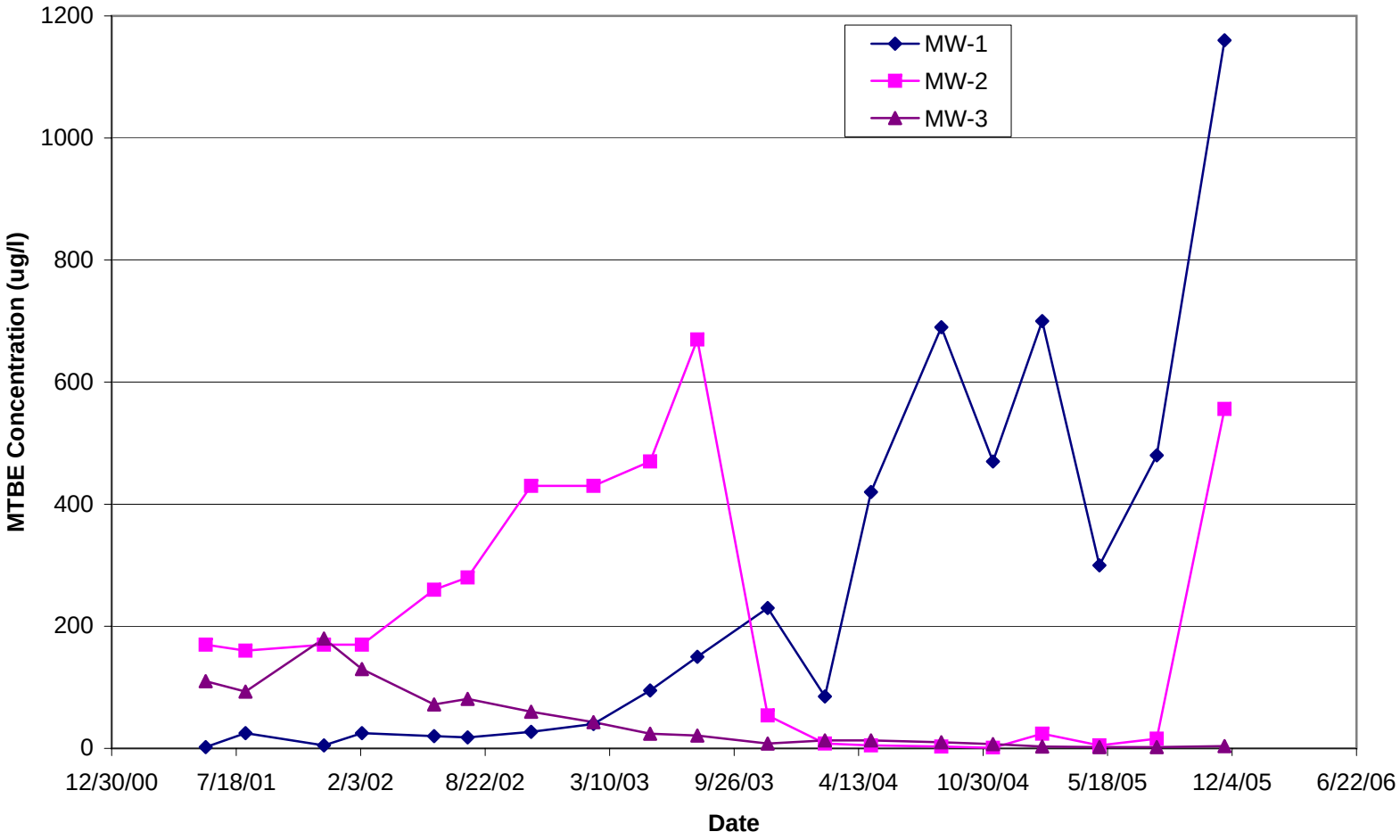
TPH-G, BENZENE, AND MTBE CONCENTRATION MAP, AUGUST 5, 2005

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.

MTBE Concentrations
Wells MW-1, MW-2, and MW-3
Shell-branded Service Station
4226 First Street, Pleasanton, California



Weiss Associates Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: **510-450-6000**

Site 204-6138-0303
Proj. ☐ Rem. ☐ RP ☑ Bill ☐
1☐ 2☐ 3☐ 4☐ 5☐ S☐

December 21, 1995

PROJECT COPY

Scott Seery
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alemeda, California 94502-6577

RE: **Dispenser Replacement Sampling**
Shell Service Station
WIC #204-6138-0303
4226 First Street
Pleasanton, California
WA Job #81-0571-008

Dear Mr. Seery:

On behalf of Shell Oil Products Company (Shell), Weiss Associates (WA) submits this report documenting soil sampling and excavation for the recent fuel dispenser and product piping replacements at the above referenced service station (Figure 1 and 2). The former dispensers and piping were used to pump gasoline from the sites underground storage tanks. The objective of this sampling was to assess whether hydrocarbons are in soil beneath these structures. WA's scope of work, the site background, and the soil sampling results are presented below.

SCOPE OF WORK

WA's scope of work for this investigation was to:

- Collect soil samples from beneath the former dispensers and product piping joints for laboratory analysis;
- Analyze the soil samples for petroleum hydrocarbons;
- Direct overexcavation of hydrocarbon-bearing soil;
- Sample and dispose of the excavated soil; and
- Report the results.

SITE BACKGROUND

Location: The operating Shell service station is located at the southeast corner of First Street and Vineyard Avenue in Pleasanton, California (Figure 1).

Surroundings: Residential and commercial development.

Ground Water Depth: According to Chris Boykin of the Pleasanton Fire Department (PFD), ground water is about 60 ft below ground surface at this site.

INITIAL SAMPLING RESULTS

Parties Present: WA Geologist Faith Daverin collected the soil samples. PFD Inspector Chris Boykin observed and directed the soil sampling. Paradiso Mechanical of San Leandro, California excavated the trenches, removed the product lines, assisted with the sampling and replaced the dispensers and piping.

Sampling Dates: September 8 and 11, 1995.

Number of Initial Samples: Six: Four dispenser samples DP-1(3.0), DP-2(7.5), DP-3(8.0) and DP-4(8.5) were collected at various depths beneath the former dispensers. Product line samples PT-1 and PT-2 were collect beneath former piping joints at 4.0 and 4.5 ft below ground surface (bgs), respectively. PFD inspector Chris Boykin requested that "stained, odorous soil" that she observed be excavated to the extent feasible from beneath the former dispensers. Sample locations are presented on Figure 3.

Soil Sampling Method: Soil samples were collected by driving clean brass tubes into undisturbed soil from the backhoe bucket. All sample tubes were immediately sealed with Teflon sheeting and plastic caps and placed on ice in a cooler for transport to the state-certified analytical laboratory.

Analytical Laboratory: Sequoia Analytical in Redwood City, California.

Analytical Methods: Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by modified EPA Method 8015 and benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020. The certified analytical reports and chain-of-custody forms are included in Attachment A.

Analytic Results: Only one sample contained more than 3 parts per million (ppm) TPH-G: 120 ppm TPH-G was detected in soil at 8 ft beneath the former eastern dispenser. No benzene was detected in any samples, except one where benzene was slightly above the laboratory method detection limit.

SOIL OVEREXCAVATION AND CONFIRMATION SAMPLING

Overexcavation Objective: To remove hydrocarbon-bearing soil to the maximum extent practical beneath the former dispensers.

Overexcavation Dates: September 8 and 11, 1995.

Volume Excavated: About 40 cubic yards of soil were excavated as shown in Figure 2. About 20 cubic yards of soil were removed in association with the dispenser and piping replacements. Approximately 20 cubic yards of hydrocarbon-bearing soil, including soil removed during the initial soil sampling, were overexcavated as shown in Figure 3.

Hydrocarbons Removed: Based on the average TPH-G concentration of the excavated soil, about 3.4 pounds of hydrocarbons were removed from beneath the site.

Maximum Excavation Depth: 8.5 ft below ground surface.

Lithology Encountered: Sandy clay to about 8.5 ft depth.

Ground Water Depth: No ground water was encountered.

Sampling Date: September 8 and 11, 1995.

Number of Confirmation Samples: Two: Samples DP-1(6.0) and DP-2-SW(4.0).

Analytic Results: No benzene and less than 3 ppm TPH-G were detected in the confirmation samples.

SOIL DISPOSAL

Stockpile Sampling:

The soil stockpile was sampled by driving clean brass tubes at least 12 inches below the stockpile surface. The tubes were immediately capped and sealed with Teflon tape and refrigerated for transport to the analytical laboratory. The laboratory composited and analyzed the samples for TPH-G, BTEX and total characteristic leaching potential for metals by EPA Method 6010. The certified analytic report and chain-of-custody form are included in Attachment B.

Soil Transport and Disposal:

On September 29, 1995, Manley and Sons Inc. of Sacramento, California transported about 40 cubic yards of soil to Forward Incorporated in Stockton, California for disposal. The soil disposal confirmation sheet is presented in Attachment B.

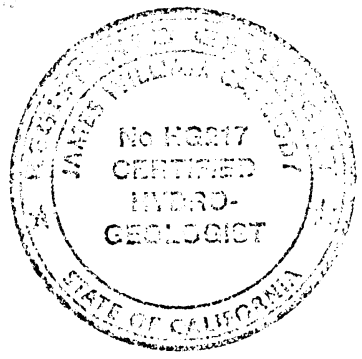
CONCLUSIONS

Based on the sampling results, WA concludes that:

- Only one of six soil samples collected from beneath the six former dispensers contained more than 3 ppm TPH-G. No benzene was detected in any of the samples.
- Most of the hydrocarbon-bearing soil was removed from the site. About 20 cubic yards of soil were overexcavated from the dispenser areas.
- 120 ppm TPH-G was left 8.0 ft beneath the south dispensers on the east fuel island. Benzene, however was below laboratory method detection limits in this sample. Further overexcavation was not possible due to the foundation of the canopy support column.
- Soil samples from beneath the product piping collected adjacent to the west fuel island contained 0.01 ppm benzene. Therefore, the former product piping was probably not a hydrocarbon source to the subsurface.
- Depth to ground water in the site vicinity is about 60 ft below ground surface. Due to the localized and shallow extent of hydrocarbons in soil, it is unlikely that hydrocarbons detected during this sampling event have impacted ground water.

WA trusts that this submittal meets your needs. Please call if you have any questions.

Sincerely,
Weiss Associates



Faith Morris Daverin
Staff Geologist

James W. Carmody, CHG
Senior Project Hydrogeologist

FMD/JWC:fmd

J:\SHELL\057\DISPENS.DOC

Attachments: Figures
Table
A - Certified Analytical Reports and Chain-of-Custody Forms for Soil
B - Soil Disposal Confirmation and Certified Analytical Report for Stockpile Samples

cc: R. Jeff Granberry, Shell Oil Products Company, PO Box 4023, Concord, CA 94524
Jeff Byram, Shell Oil Products Company, PO Box 4023, Concord, CA 94524
Kevin Graves, Regional Water Quality Control Board - San Francisco Bay, 2101 Webster Street, Suite 500, Oakland, CA 94612
Chris Boykin, Pleasanton Fire Department, P.O. Box 520, Pleasanton, CA 94566

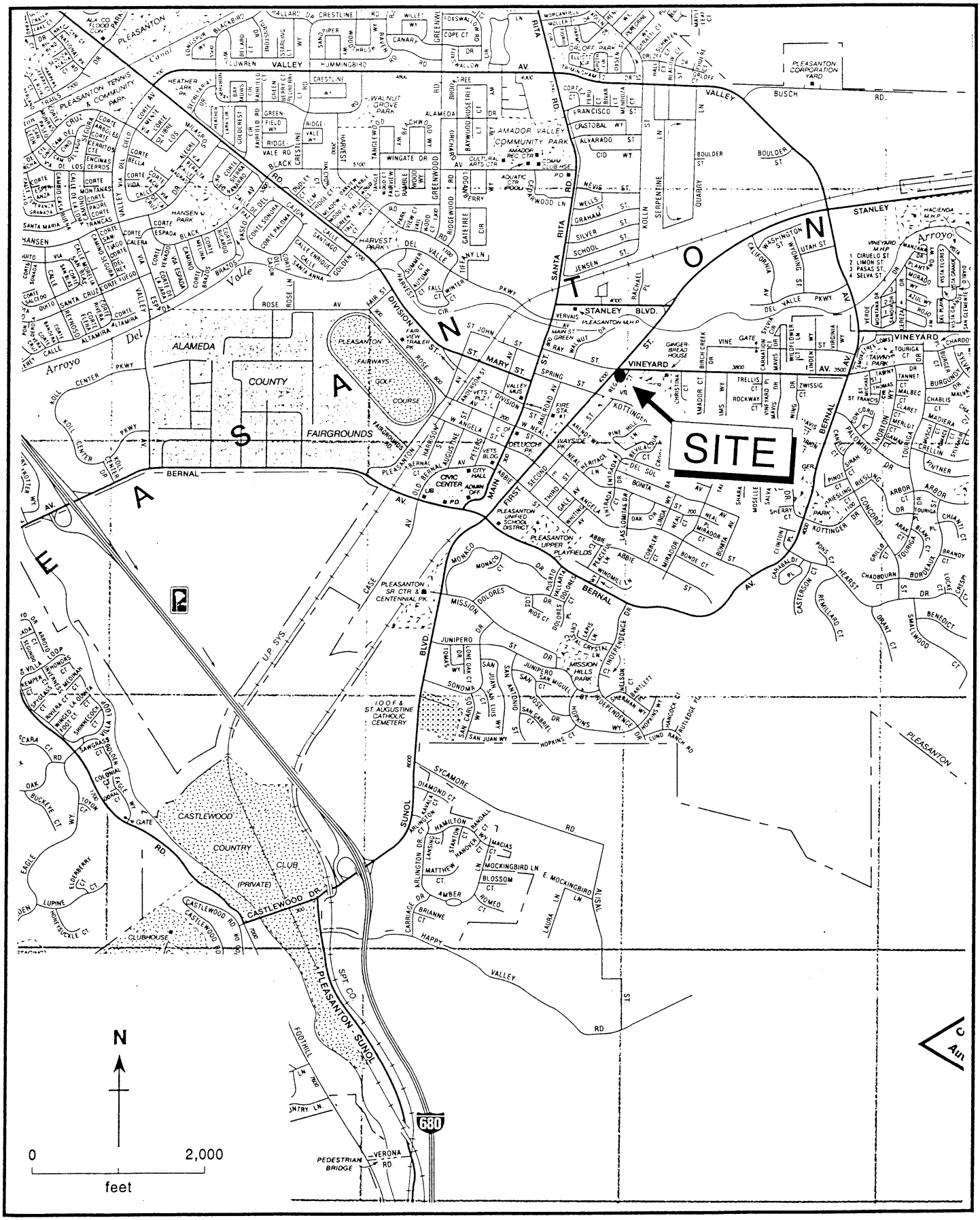


Figure 1. Site Location Map - Shell Service Station WIC #204-6138-0303, 4226 First Street, Pleasanton, California

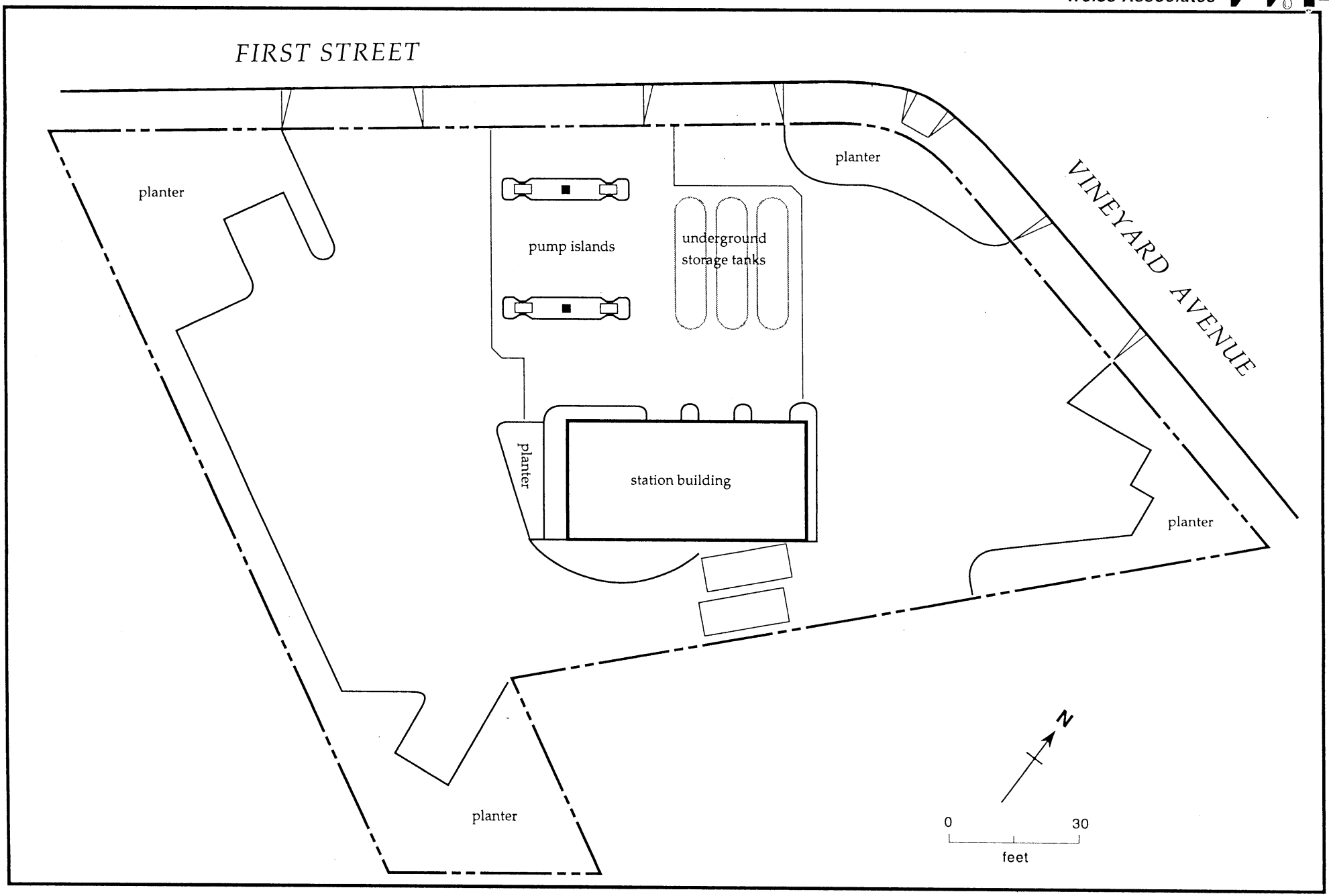


Figure 2. Site Layout - Shell Service Station WIC #204-6138-0303 - 4226 First Street, Pleasanton, California

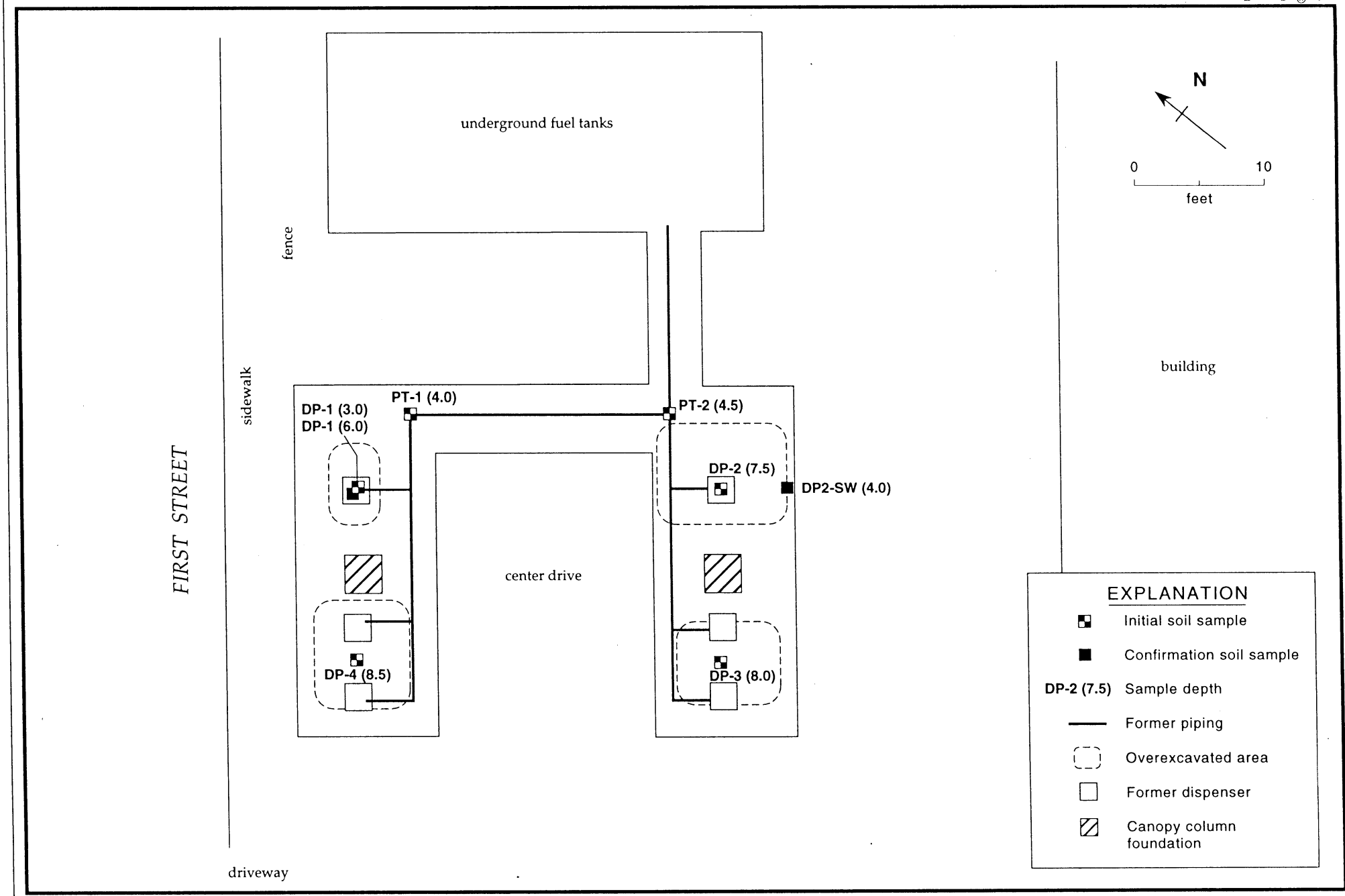


Figure 3. Soil Sample Locations - Shell Service Station WIC #204-6138-0303, 4226 First Street, Pleasanton, California

s571-002.ai

12/20r/95

Table 1. Analytic Results for Soil - Shell Service Station, WIC #204-6138-0303, 4226 First Street, Pleasanton, California

Sample ID	Sample Depth (ft)	Date Sampled	TPH-G	B	T	E	X
			<——— parts per million (mg/kg) ——— >				
Initial Soil Samples							
DP-1	3.0	09/08/95	1.3	<0.005	<0.005	<0.005	<0.005
DP-2	7.5	09/08/95	<1.0	<0.005	<0.005	<0.005	<0.005
DP-3	8.0	09/08/95	120	<0.12	<0.12	<0.12	<0.12
DP-4	8.5	09/08/95	<1.0	<0.005	<0.005	<0.005	<0.005
PT-1	4.0	09/08/95	2.5	0.0080	<0.005	0.038	0.19
PT-2	4.5	09/08/95	<1.0	<0.005	<0.005	<0.005	<0.005
Confirmation Soil Samples							
DP-1	6.0	09/11/95	2.5	<0.005	<0.005	0.020	0.035
DP-2-SW	4.0	09/08/95	1.7	<0.005	<0.005	0.0075	0.017

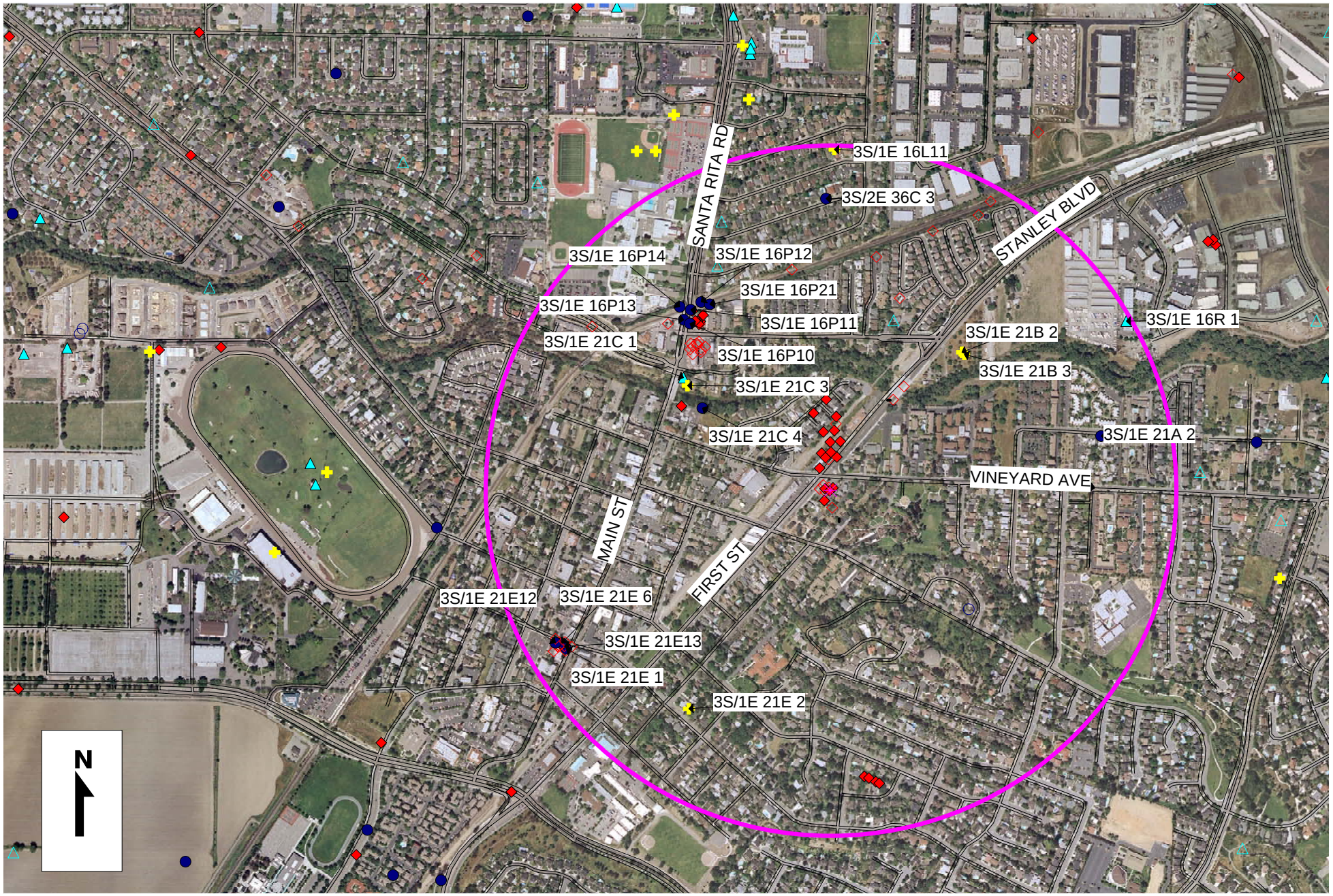
Abbreviations

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
B = Benzene by EPA Method 8020
T = Toluene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
X = Xylenes by EPA Method 8020
<n = Not detected at detection limit of n ppm
DP = Soil Sample collected beneath former dispenser
PT = Soil Sample collected beneath former product line

Analytical Laboratory:

Sequoia Analytical of Redwood City, California

j:\shell\0571\reports\soilanal.doc



ZONE 7 WATER AGENCY
100 NORTH CANYONS PARKWAY
LIVERMORE, CA 94551

WELL LOCATION MAP

SCALE: 1"= 1000'

RADIUS = 1/2 mi

4226 FIRST ST
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WORK PLAN
1-24-06
Shell-branded Service Station
4226 First Street
Pleasanton, California

Description of Methods

Delta proposes to further define hydrogeologic conditions in the area by drilling two deep off-site borings.

Delta will obtain drilling permits from the Zone 7 Water District for all proposed borings. Delta will also need to obtain an encroachment from the City of Pleasanton in order drill within First Street. Shell will need to obtain an access agreement from the owner of the property located on the western corner of First and Ray Streets.

Prior to conducting any field work at the site, Delta will prepare a site specific Health and Safety Plan (HASP). The Delta field geologist on-site will review the HASP with site subcontractors at the start of each work day.

Borings CPT-1 and CPT-2

Delta proposes to two cone penetration test (CPT) borings to define the vertical of extent of petroleum hydrocarbons and fuel oxygenates detected in perched groundwater beneath the site. The borings will also define the lateral and vertical extent of a silt layer encountered beneath the site at a depth of approximately 60 feet. The locations of the CPT borings (CPT-1 and CPT-2) are shown on attached site area map. Soil classification will be based on the cone penetration resistance, sleeve friction, and friction ratio. A soil classification graph will be generated during drilling of the CPT borehole. CPT borings will be advanced to a depth of approximately 100 feet bg. Grout will be pumped into the borehole behind the cone by using a grout collar (retraction grouting).

A second CPT borehole will be drilled at each location for collection of depth discrete groundwater samples. Sand layers throughout the stratigraphic profile will be targeted for sampling. Collection of groundwater samples will be attempted both above and below the silt layer encountered in deep on-site Boring SB-7. A sealed PVC hydropunch screen will be pushed to the desired sampling depth. The push rod will then be retracted exposing the hydropunch screen. Groundwater should flow hydrostatically from the formation into the sampler. The predominance of silt and clay may prevent collection of groundwater samples from some depth intervals. A small diameter stainless steel bailer will be lowered through the hollow push rods, into the screen section for sample collection. The groundwater samples will be transferred to 40-milliliter glass VOA bottles. The bottles will be placed on ice for transportation to the laboratory.

After sample collection, the push rods will be removed from the hole. The rods will be steam cleaned and a new hydropunch screen installed. The sealed screen will then be advanced to the next sampling depth and the above described process repeated. After collection of the final groundwater sample, grout will be pumped through the push rods as they are extracted from the borehole. Groundwater samples will be analyzed for TPH-G, BTEX compounds, MTBE, and TBA by EPA Method 8260B.