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Alameda County
Environmental Health

ConocoPhillips
76 Broadway
Sacramento, California 95818

December 16, 2009

Jerry Wickham
Alameda County Health Agency
1131 Harbor Bay parkway, Suite250
Alameda, California 94502-577

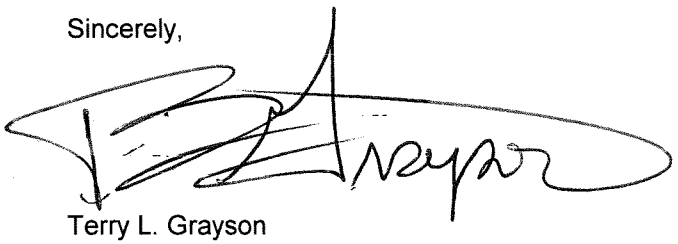
Re: ***Feasibility Study and Proposed Work Plan***
76 Service Station # 7376 RO # 0361
4191 First Street
Pleasanton, CA

Dear Mr. Wickham:

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

If you have any questions or need additional information, please call me at (916) 558-7666.

Sincerely,



Terry L. Grayson
Site Manager
Risk Management & Remediation

WORK PLAN AND FEASIBILITY STUDY
76 SERVICE STATION NO. 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA
FUEL LEAK CASE NO. RO0000361

Prepared for:

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

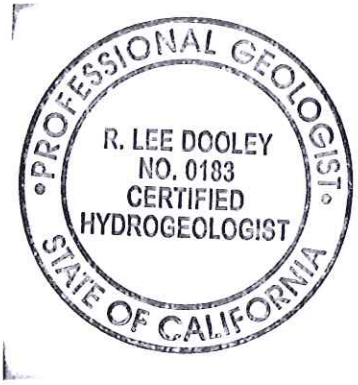
Prepared by:

Delta Consultants
312 Piercy Road
San Jose, California 95138

December 16, 2009

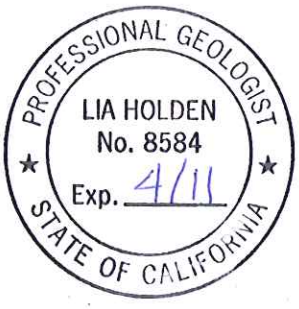
CERTIFICATION

The following report was prepared under the supervision and direction of the undersigned California Professional Geologists.



DELTA CONSULTANTS

R. Lee Dooley
California Certified Hydrogeologist #0831



Lia Holden
California Professional Geologist #8584
Project Manager

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1.0 INTRODUCTION

Delta Consultants, (Delta), on behalf of ConocoPhillips (COP) has prepared this Feasibility Study (FS) and Work Plan for the 76 Service Station No. 7376, located at 4191 First Street in Pleasanton, California (site) (**Figure 1**). The work plan is prepared in response to a letter from Alameda County Health Services Agency, Environmental Protection (ACEH) to ConocoPhillips and others dated October 16, 2009 (**Appendix A**). ACEH approved Delta's recommendation contained in the *Site Conceptual Model* dated September 30, 2009 to install an additional groundwater monitoring well in the area of previous boring CP-7. The purpose of the additional well is to provide definition of the downgradient extent of the groundwater plume.

The ACEH letter also requested the preparation of a soil and groundwater remediation FS. The following is an excerpt from the October 16, 2009 letter;

> *We [ACEH] request that you prepare a Feasibility Study that screens and evaluates the feasibility of remedial technologies appropriate for this site and prepare a Work Plan to test the feasibility of the most promising technology or technologies. The Work Plan must describe the field feasibility testing in sufficient detail for ACEH to approve implementation of the feasibility testing. The feasibility testing must include sufficient data collection and monitoring to evaluate the potential for the technology to remediate the targeted areas and vertical intervals and to estimate the time required to achieve cleanup. We request that the Work Plan include the installation of sufficient monitoring points to assess whether stratigraphic or structural discontinuities are present the will limit the radius of influence of injection or extraction points.*

The following report provides a site description and history, a summary of regional and site hydrogeologic conditions, a fate and transport study, a work plan for an additional groundwater monitoring well, and a work plan for a FS.

2.0 SITE LOCATION AND DESCRIPTION

The following sections provide a description of the site and surrounding area.

2.1 Site Location

The site (Alameda County Assessor's Parcel # 94-110-12-4) is a rectangular property located at the intersection of Ray Street and First Street in Pleasanton, California (**Figures 1 and 2**).

2.2 Site Description

The site is currently an active 76 Service Station. Current site facilities consist of a cashier's kiosk, four product dispenser islands and two 12,000-gallon double-wall fiberglass gasoline underground storage tanks (USTs). There are currently 12 active groundwater-monitoring wells and four former groundwater monitoring wells at and in the site vicinity. The site is bounded to the northwest by a former Southern Pacific Railroad right-of-way currently owned by Alameda County, to north and northeast by a commercial building, to the southeast by First Street, and to the southwest by Ray Street. There is an underground KinderMorgan petroleum pipeline located on Alameda County property (former Southern Pacific right-of way) adjacent to the northwest edge of the site. Properties in the immediate site vicinity are used for a mix of residential and commercial purposes. A Shell service station is located southeast of the site. The site is located at an approximate elevation of 360 feet above mean sea level.

The site was developed around 1907 as a warehouse to store grain and hay. As shown on a Sanborn map, an "in-ground" bunker fuel storage tank to support the railway was installed northwest of the property as early as 1907 (**Appendix B**). Additionally, overlays (estimates only) of historic site features upon the current arrangement of properties and site features were produced from historic Sanborn maps. These are included in **Appendix B**.

A service station was first constructed on the site in 1976. Between November 8, 1982 and February 8, 1985, the Pleasanton Fire Department (PFD) responded to five separate fuel releases at the site. The releases occurred prior to acquisition of the property by Unocal Corporation in 1988, and prior to ConocoPhillips assuming operations at the site.

2.3 Site Owner

According to an ACEH letter dated November 14, 1994, the site was a Gas-N-Save station until the early 1980s, at which time Armour Oil Company owned and operated the site as an Arco service station. The site was purchased by the Unocal Corporation in on February 8, 1988. ConocoPhillips sold the site to CDW & PWS Enterprises, Inc, 8998 Alcosta Blvd, San Ramon, California on April 29, 2005. The property is currently owned by De L. Liu and Na Li of 922 Saddlehorn Ct in Danville, California.

3.0 SITE SETTING

The following sections provide a summary of the regional geologic and hydrogeologic setting.

3.1 Regional Geologic Setting

The subject site is located near the southwest end of the Livermore Valley. The site is situated on a northern facing hill, and slopes slightly to the north. The Arroyo Valley stream is located approximately 1,100 feet to the north of the site. The site is underlain by Holocene age alluvial fan deposits, described by the Department of Water Resources (DWR) in Bulletin 118-3 as "unconsolidated, moderately sorted, permeable fine sand and silt, with gravel becoming more abundant toward fan heads with canyons." The site is approximately three miles east of the northwest trending Pleasanton Fault (**Figure 3**) (USGS 2006). Holocene alluvial fan deposits under the site are underlain by the Livermore Formation, consisting of northward dipping sand and gravel deposits. Above mentioned features are shown in regional geologic cross sections and maps, presented in **Appendix C**.

3.2 Regional Hydrogeologic Setting

The site is located within the Amador Sub-basin of the Livermore Valley Groundwater Basin. The Amador Sub-basin is bounded on the east by the Livermore Fault and on the west by the Pleasanton Fault. The main watercourses in the basin are the Arroyo Valle and Arroyo Mocho, which both drain into the Arroyo de la Laguna. Gravel pits are present in the central portion of the subbasin. The estimated depth to the regional groundwater is 40 feet below ground surface (bgs) and the regional flow direction is north and northeast (ACWD-Zone 7, 1993-2006).

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 bgs. Deeper aquifers are encountered within sand and gravel deposits at a depth of approximately 90 to 100 feet bgs (DWR, 2003). 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 contained in **Appendix C**). A contour map from the Zone 7 Well Master Plan shows a flow within the "deeper aquifer" to the west. Sand and gravel pit groundwater extraction areas are located greater than one 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.

The City of Pleasanton is served by the Zone 7 Water Agency. Based on information provided by personnel from the Zone 7 Water Agency, the City of Pleasanton obtains 80% of its water from the Hetch-Hetchy reservoir, the San Joaquin/Sacramento Delta and multiple deep-water wells located in the Fremont area. The remaining water is pumped from wells in Pleasanton that range in depth from 50-600 feet bgs (ACWD 1993-2006).

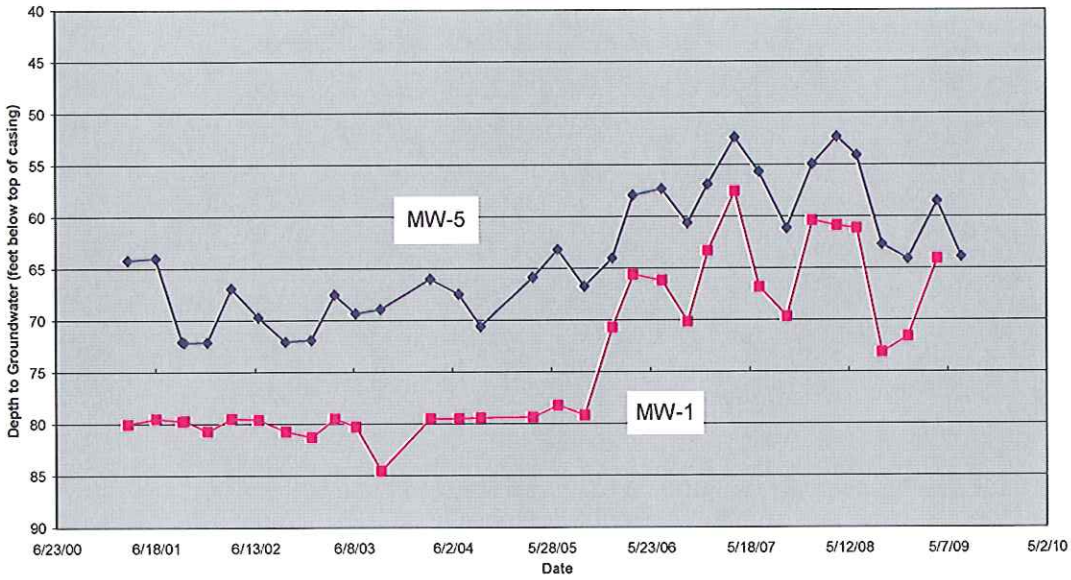
3.3 Site Hydrogeologic Conditions

The site is underlain by complexly interlayered clay (Unified Soil Classification CL), silt (ML), silty sand (SM), clayey sand (SC), silty gravel (GM), sand (SP, SW), and gravel (GW). Contacts between soil types are often gradational. All soils contain various percentages of silt and sand. Site subsurface conditions are illustrated on cross-section shown on **Figures 4**. Soils have been combined into two units; generally fine grained, moderate to low permeability soils (clay, silt, with some clayey sand and clayey gravel) and generally coarse-grained, moderate to high permeable soils (sand, gravel, with some interlayered silt, silty sand, and silty gravel). Copies of historic boring logs are contained in **Appendix D**.

Soil layers appear to dip to the north-northeast at an angle of approximately 15 degrees. Groundwater was first encountered in borings drilled between 1996 and 1998 typically at a depths of approximately 65 to 75 feet below ground surface (bgs) (KEI 1996), (GR 1999). Perched groundwater was encountered in thin permeable sand and gravel beds at depths as shallow as 40 feet bgs (see Shell MW-1 and COP MW-7 on cross-section A-A, **Figure 4**). Saturated layers are separated by low permeability dipping clay and silt beds. Saturated beds appear to be confined or semi-confined.

Two saturated permeable layers are recognized and are designated A and B on the cross section (**Figures 4 through 6)**. Wells MW-5, MW-7, MW-8, and MW-9, appear to be screened across the upper of the two layers (A). Wells MW-1 (destroyed), MW-2B (destroyed), MW-1B, MW-2C, MW-3B, MW-6, and MW-10 appear to be screened in the lower of the units. Well MW-4 appears to be screened below the lower of the two units (B). Depth to groundwater in wells MW-4 through MW-10 on June 22, 2009, ranged from 57.43 (MW-7) to 70.45 (MW-6) feet below top of casing. Overall groundwater flow was to the east. Groundwater levels in wells have risen by approximately 15 feet since late-2005 (see chart below). Seasonal fluctuations may be as great as 10 feet.

Depth to Groundwater
Well MW-5
76 Service Station #7376
4191 First Street, Pleasanton, California



4.0 NATURE AND EXTENT OF SOURCE

The following sections describe the source(s) of the petroleum hydrocarbons that have been detected in soil and groundwater beneath and adjacent to the site.

4.1 Former USTs

A Union Oil Company of California drawing dated November 17, 1987 shows the two 12,000- gallon fuel USTs to be located in the northeastern end of the site in their current location (**Appendix B and Figure 2**). The first soil and groundwater investigation report dated September 9, 1987 shows four 12,000-gallon petroleum product USTs near the current tank pit location in the northeastern portion of the site. The four former USTs were replaced with two 12,000 gallon double-walled steel USTs in December 1987 as part of the property sale agreement (Enviros 1995).

A Bunker C fuel oil tank was installed at the site sometime around 1907 according to Sanborn insurance maps. The bunker fuel oil tank is/was located just to the northwest of the site in the vicinity of boring SB-1. The bunker fuel oil tank was used to service the railroad that bordered the site to the northwest. The tank is believed to have been removed from the site, but removal documents are not available. Currently, there

are no documents verifying the removal of this bunker tank. Delta utilized ground penetrating radar (GPR) technology to determine the current presence or absence of the bunker tank. The bunker tank was not detected; however, GPR results may not be conclusive depending on the material with which the tank was made.

4.2 Release Reports 1984-1994

November 8, 1982: The Pleasanton Fire Department reported that approximately nine gallons of gasoline had leaked from a damaged fuel filter and collected in the base sand area directly below the pumps.

November 23, 1982: The Valley Times Newspaper (volume 97 No. 230 dated November 23, 1982) reported that approximately 100 gallons of gasoline was discovered welling from an underground storage tank and pooling in a nearby parking lot. The nearby stream, Arroyo Del Valle, was reportedly not affected by the gasoline release.

February 20, 1984: The Pleasanton Fire Department filed a fire incident report for a gasoline leak at the site. According to the report, pump #12 located on the south fuel island was observed to be leaking. Approximately 30 gallons of gasoline was estimated to have leaked from possibly damaged underground product piping. Approximately 10 gallons of pooled gasoline was recovered using a soil berm in the southeast portion of the site.

January 7, 1985: A complaint report was filed against the station, reporting a "strong odor of gasoline around storm drains." Station attendants stated that the site's gasoline USTs were filled that morning and that gasoline from a possible overfill was likely transported to the drain via rain water runoff.

February 8, 1985: The Pleasanton Fire Department filed a Leak Reporting Form documenting an unknown amount of gasoline contaminated rain runoff entering two separate sewer drains. The nature of the spill was likely due to overfilling of the gasoline USTs.

July 16, 1987: A Petro Tite System Test revealed a leak of 0.93 gallons per hour in the North No. 1 regular gasoline UST. This result was followed up by an additional test on July 25th to confirm the leak. Leakage during the confirmation test was reported at 0.028 gallons per hour, and was deemed mathematically tight. It is unclear whether repairs were made to the UST system to repair the leak, or whether the leak detection was false (Environmental Laboratories Inc., 1987).

October 17, 1994: An unauthorized Release Report was filed following soil sampling performed on September 9, 1994. The report did not specify a release date or quantity released, but identified the contaminant as gasoline/waste oil. The report was filed following product piping replacement, during which old single-walled product lines were discovered, as well as extensive soil contamination.

A summary of site assessment activities is contained in **Appendix E**.

4.3 Potential Offsite Sources

A Shell service station is located approximately 75 feet southeast of the site. This site has had an open leaking underground storage tank (LUST) case since 1995. Petroleum hydrocarbons were detected below the former USTs in the northern portion of the site in 1985 during UST replacement. In January 2005, waste oil was poured into a part of the waste oil tank which releases straight to the surrounding pea gravel. Oil and grease was detected in pea gravel, but soil samples confirmed that waste oil was confined to the pea gravel. Groundwater flow at the site has historically been to the north-northeast (Delta 2006). In September 2006, Shell advanced a CPT boring (CPT-2) in First Street between the Shell and 76 sites. Groundwater samples were collected at depths of approximately 78 and 98 feet bgs. TPH-G, toluene, ethylbenzene, and xylene were all below the laboratory reporting limit in both sample. Benzene was detected in the 78-foot sample at 0.99 µg/L along with 15 µg/L MTBE and 27 µg/L TBA. MTBE was the only constituent detected in the 98-foot sample (47 µg/L) (Delta 2006b).

A KinderMorgan Pipeline is located approximately 20 feet northwest of the site, within the former Southern Pacific right-of-way and is approximately 6 to 8 feet deep. The pipeline is a 10 inch steel pipe which transports gasoline, diesel and jet fuel. An investigation was performed by TRC in 2005 to determine whether the pipeline could be considered a potential source of contamination. The investigation reported that the pipeline is inspected every 5 years by an internal inspection device, and no damage or repairs had been reported. In 2007, BSK reported detections of TPH-jet fuel and TPH-aviation fuel in soil borings SB-5, SB-6 and SB-7, located between the pipeline and the site **(Figure 2)** , with a maximum concentration of 6,300 mg/kg in boring SB-5 at a depth of 30 feet bgs. The indication of the petroleum hydrocarbons as jet fuel appeared to be questionable (see description of investigation November 5, 2007, **Appendix E**).

Fuel fingerprinting has been performed on free product collected from the site in 1997, 1998 and in 2009. In 1997, fuel fingerprinting determined that the free product in MW-5 was most likely composed of 50% refined gasoline and 50% heavier hydrocarbons resembling crude oil, bunker C fuel, diesel, motor oil, or some combination of the above. The gasoline portion of the product was reported to be relatively "fresh" (Entrix 1997). In 1998 free product was collected in soil samples in B-11 from depths of 10.5 feet bgs and 61 feet bgs. The product was reported to be approximately 90% semi-volatile hydrocarbons consisting of crude oil and 10% slightly weathered gasoline (GR 1999). In 2009, soil samples from the boring for MW-2C were submitted for fuel fingerprinting. The presence of heavy hydrocarbons such as diesel, kerosene and hydraulic oil were reported (Delta 2009). TRC concluded that the source of free product on site and to the north was likely due to the former underground bunker C fuel tank that was installed at the site in 1907, and not from the Santa Fe Pacific pipeline (TRC 2005)

4.4 Residual Soils as On-Going Source

The most current on-site soil analytical data from borings CP-1 through CP-7, SB-5, SB-6, SB-7 (BSK), SB-1 (Delta), and monitoring well MW-2C show that the source area for soil contamination is in the vicinity of the site's USTs, in the northeastern portion of the site. This data is consistent with the distribution of analytes in historic soil data. Offsite borings and monitoring wells to the northwest have not historically contained high levels of hydrocarbons in soil. Depth of soil contamination is from grade to approximately 70 feet bgs (see **Figures 4 through 6**). The vadose zone extends to approximately 50 to 80 feet below the site, with groundwater averaging about 70 feet bgs. The vadose zone consists of alternating layers of silt/clay and sand/gravel. Clay is present to a depth of approximately five to fifteen feet bgs at the site, with interbedded high and low permeability zones below. Historic cross sections are presented in **Appendix C** The tank pit in the northern portion of the site likely extends to a depth of 15 feet bgs. Any product emanating from the tank pit would be mobilized in high permeability zones beneath the site.

4.5 Summary

Multiple releases of gasoline from the site USTs, dispenser islands and product piping occurred between 1982 and 1994 when spills and leaks were reported during annual inspections and tank refilling. A report documenting the removal of the site USTs in 1987 is unavailable; hence it is uncertain if the former USTs were a source of contamination. Results of fuel fingerprinting analyses indicate that a heavy hydrocarbon source exists or existed at the site. This source is most likely the former Bunker C fuel tank which resides on Alameda County property northwest of the site.

Soil contamination has consistently been encountered at the site in the vicinity of the fuel USTs and product lines, primarily in northern portion of the site, and off-site to the north. Soil contamination has been reported from 3 feet bgs to approximately 70 feet bgs.

5.0 FATE AND TRANSPORT CHARACTERISTICS

The following sections describe potential contaminant migration pathways for petroleum hydrocarbons and MTBE. Plume migration and contaminant concentration trends are discussed.

5.1 Underground Utility Conduits

The exact location and depth information of utility trenches both on-site and in the site vicinity has not been determined. A Kinder-Morgan pipeline is located approximately 10 feet to the northwest of the site and is approximately six to eight feet deep. A fiber optic cable also exists approximately 60 feet to the west of the site, running parallel to the site's western boundary and the Kinder-Morgan pipeline. A general survey of nearby utilities for the purpose of a preferential pathway evaluation has not been performed. However, depth to groundwater averages 70 feet bgs, and is below the depth of utility trenches and no survey is now deemed necessary.

5.2 Soil Migration Pathways

Soils beneath the site area are both fine-grained and coarse grained. Coarse grained zones provide pathways for more rapid spread of contaminants. Boring logs for soil borings and monitoring well installations across the site have consistently shown alternating layers of fine grained and coarse grained deposits to the maximum depth explored. Copies of boring logs and well construction diagrams are provided in **Appendix D**.

5.3 Hydrogeologic Pathways

Vertical migration of dissolved contaminants beneath the site is hindered by fine-grained soil layers, but expedited in coarse grained layers. Groundwater was first detected in soil borings and borings for site wells at depths ranging from 64 feet bgs (MW-5) to 96 feet bgs (B-13). Replacement wells MW-1B, MW-2C and MW-3B are screened from 79.5 to 81.5 feet bgs, well MW-4 is screened from 73 to 93 feet bgs, wells MW-5 and MW-7 are screened from approximately 52 to 75 feet bgs, wells MW-6, MW-8, MW-11 and MW-12 are screened from approximately 66-88 feet bgs, and MW-10 is screened from 83-100 feet bgs. Monitoring well construction details are outlined in Table 1. On June 22, 2009 (last sampling event), static water levels in the wells ranged from 55.54 (MW-12) to 70.45 feet below top of casing (MW-6). Newly installed wells MW-1B, MW-2C, and MW-3B were not included in this sampling event. Seasonally, depth to groundwater in individual wells typically fluctuates approximately 10 feet with the highest groundwater levels in January- March and lowest levels in August-September, however variations of up to 30 feet in site wells is occasionally observed at the site. Depth to water in wells over the year typically ranges from approximately 60 to 80 feet below top of casing. Cross sections (contained in **Appendix C**) indicate that beds beneath the site are dipping to the north, and wells are not necessarily screened in the same beds.

The groundwater flow direction beneath the site has generally been to the north, varying from northwest to northeast. Regionally, groundwater flows to the northwest. A Shell branded service station approximately 75 feet to the southeast of the site has reported groundwater flow consistently to the north and northeast. The site is believed to have significant geologic features inferred through groundwater elevation patterns across the site and geologic cross sections. These features are evidenced by a cross section showing beds curving steeply upward from MW-5 to the vicinity of MW-2B and B-13 as shown on Gettler-Ryan's cross section B-B' presented in **Appendix C**. Groundwater flow at the site appears to be directed toward the north-northwest, with two separate flow regimes. The first, being located on site, flows toward the north-northwest at an average gradient of 0.071 feet/foot. The second is directly northwest of the first, and starts at MW-5 with the highest groundwater elevation, and flows toward MW-11 and MW-12 with lower groundwater elevations. Historically, groundwater has not been interpreted with two flow regimes. Groundwater flow directions and gradients for on site wells, considered to be in the southern flow regime, were re-calculated to produce an on-site groundwater flow rose diagram. The rose diagram from 1995 until 2009 (a total of 58 monitoring events). Historic groundwater flow diagrams are presented in **Appendix F**.

The groundwater flow rate beneath the site can be approximated based on the hydraulic conductivity of the soil, groundwater flow gradient and effective soil porosity. The linear groundwater flow rate or velocity (V) can be calculated from the formula:

$V = (K \times I)/N$

where K = soil coefficient of hydraulic conductivity
I = groundwater gradient
N = effective soil porosity

The predominant soil types in water bearing zones beneath the site are sand and gravel. The average K for a sand and gravel is estimated in the range of 100 to 1000 feet per day and the porosity at 30% . The site hydraulic conductivity has typically been approximately 0.07 ft/ft. Using the above estimated parameters, a groundwater velocity of approximately 23 to 233 feet per year is calculated. The flow rate for dissolved petroleum hydrocarbons is typically significantly slower than the groundwater due to physical and chemical interactions with the soil matrix and biological processes. Vertical migration can be expected to be much slower, since contaminants must travel through clay and silt layers. TPH-G first appeared in well MW-8 on June 20, 2002. Using November 1982, the date of two documented gasoline releases, contaminants moved from the USTs to well MW-8 at a rate of 0.02 feet per day. This calculation result is lower than the theoretical rate for sand and gravel, due to the fact that contaminants are being

slowed in low permeability zones during their descent. Another possibility is that contaminants have moved downward through dipping coarse grained layers, and that their horizontal transport is being hindered by transport through overlying fine grained deposits. Soil stratigraphy in the vicinity of the fuel USTs would need to be determined to further understand the path of contaminants and groundwater beneath the site.

5.4 Contaminant Migration Model

It appears that multiple releases occurred at the site from 1982 to 1994. The distance from the bottom of the UST pit to the top of groundwater at this time was approximately 60 feet. Petroleum hydrocarbons moved downdip by gravity through sandy layers until encountering saturated soils at a depth of approximately 60 feet bgs. The primary flow path appears to be through layer A as shown on cross-sections **Figures 4 through 6**. Once contaminants entered the groundwater, they were dissolved and began migrating with the groundwater flow toward the north. TPH-G, TPH-D, and MTBE concentrations in groundwater are shown on maps in **Appendix F**. By June 2002, dissolved petroleum hydrocarbons had migrated more than 130 feet down gradient and were detected in the first sample from well MW-7 (**Figure 2**). MTBE was also detected in the first sample from well MW-7 at 1700 µg/L. In September 2001, MTBE was reported in the first sample from MW-11, located approximately 200 feet north of MW-7, at a concentration of 9 µg/L. MTBE has not been reported in MW-11 since 2005. The down gradient extent of MTBE is defined between MW-7 and wells MW-9 and MW-11.

5.5 Concentration Trends

TPH-G and BTEX compounds have been detected in all wells with the exceptions of MW-4, MW-9, MW-10 and MW-11. Liquid phase hydrocarbons (LPH) have been reported in wells MW-2B and MW-5. LPH was reported in MW-5 nearly continuously from June 27th 1997 to December 11, 2006, and in MW-2B in September 2007 and December 2008. Groundwater samples were not collected when LPH was present in the wells. TPH-G has reached highest concentrations in wells MW-3 and MW-5 with a maximum concentration of 210,000 µg/L reported in well MW-5 on June 7, 1999. Benzene reached a maximum concentration of 7,300 µg/L in well MW-5 in March 2004. Currently, the TPH-G and benzene plume is centered on MW-5, with a concentration of 16,000 µg/L and 2,700 µg/L, respectively reported on June 22, 2009. The plume extends over the northern region of the site and to offsite wells MW-6, MW-7 and MW-8. Groundwater concentration maps are included in **Appendix F**.

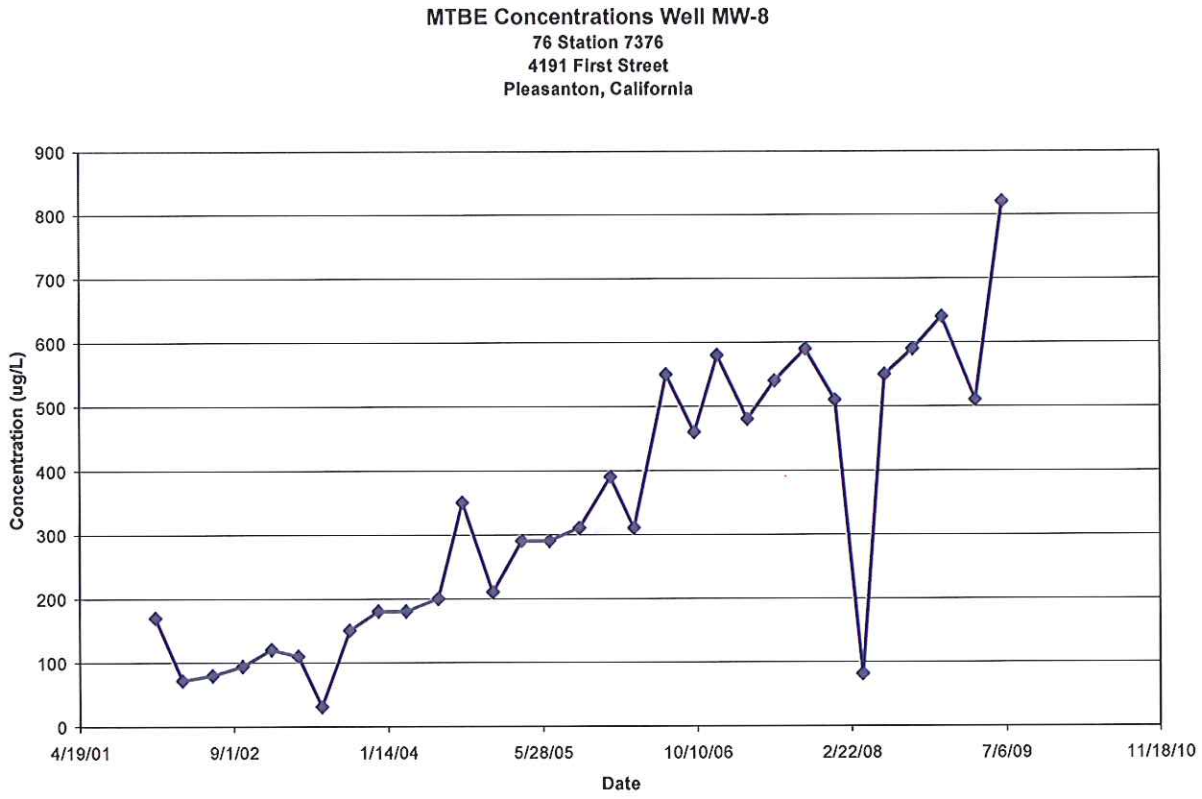
MTBE has been detected in all site wells with the exceptions of MW-4 and MW-12. MTBE has been detected continuously in wells MW-1, MW-2B, MW-3, MW-5, MW-6, MW-7, MW-8 and MW-10. Currently, the MTBE plume is centered on well MW-2B in the northwestern region of the Site with a concentration of 5,200 µg/L and extends to MW-7 and MW-8 to the northwest of the site, and well MW-1

to the southeast. MTBE reached a maximum concentration of 12,200 µg/L in well MW-2B on September 25, 2000.

6.0 ADDITIONAL OFF-SITE GROUNDWATER MONITORING WELL

6.1 Off-site Assessment

Petroleum hydrocarbon and MTBE concentrations are rising in downgradient well MW-8 located near the leading edge of the plume (see graph below).



MTBE has been detected in downgradient well MW-9 (**Figure 2)** in five of the last 12 quarterly samples. MTBE concentrations have ranged from 0.56 to 1.1 µg/L. Well MW-9 appears to be located within the northeast portion of the off-site MTBE plume. Delta proposes to install an additional groundwater monitoring well (MW-13) at the location shown on **Figure 2**. The location of the well is based on a general groundwater flow direction to the east-northeast in the location of well MW-8.

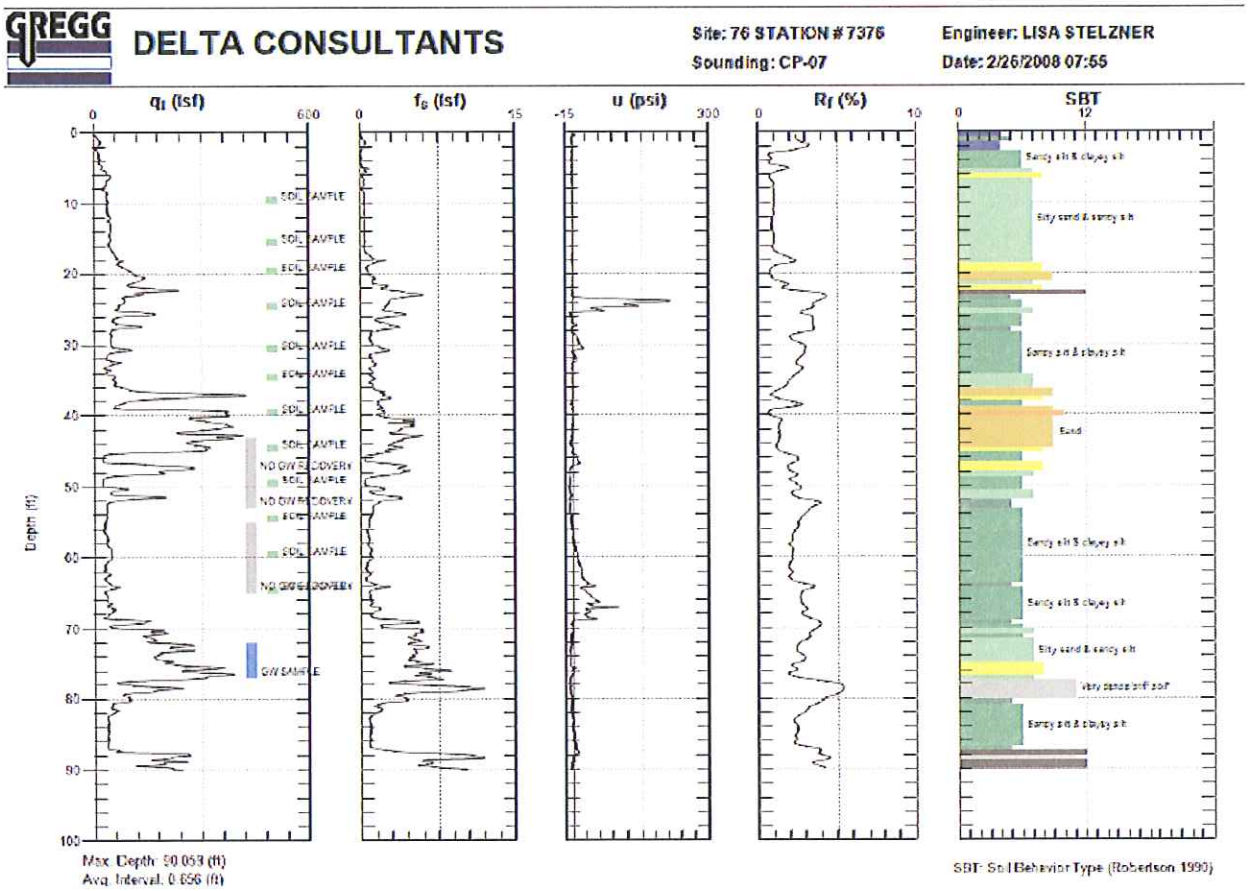
6.2 Pre-field Activities

Upon approval of the work plan, Delta will arrange the drilling schedule and coordinate mobilization of the drilling equipment and materials, contact Underground Services Alert a minimum of 48 hours prior to drilling, and visit the site to mark the well locations. Prior to boring advancement, a utility locator

contractor will perform a geophysical survey of the proposed boring and well locations. Notifications regarding the field activities will be made in advance to the appropriate agencies and the property owner, and any necessary permits will be obtained.

6.3 Well Installation Details

Well MW-13 will be installed using 8-inch hollow-stem drilling equipment. The well will be constructed to intercept the same sand zone as well MW-8 based on lithologic data from nearby CPT borings CP-7 (see log below). Well MW-8 is screened from 66 to 86 feet bgs.



Well MW-13 will be screened from 70 to 80 feet bgs. The well will be constructed of 2-inch diameter schedule 40 PVC casing with manufactured 0.02-inch well screen. A 2/12 sand pack will be placed from the bottom of the boring (80 feet) to two feet above the top of the well screen (68 feet bgs). A two-foot

bentonite seal will be placed from 66 to 68 feet bgs. A cement grout will be placed from the top of the bentonite to within two feet of the ground surface. The well will be completed with a traffic-rated vault.

The well will be developed a minimum of 24-hours after completion by surging and pumping until clear water is produced and pH and electrical conductivity values stabilize. Typically, approximately 10 casing volumes of water are removed during well development. A minimum of 72-hours after development, the well will be sampled. Three casing volumes will be removed from the well by pump. Groundwater samples will be collected using a Teflon bailer and decanted into 40-milliliter VOA bottles with hydrochloric acid (HCl) preservative. Samples will be stored on ice for shipment to a State of California certified lab for analysis.

Groundwater samples will be collected and analyzed for the following parameters: Gasoline Range Organics (GRO), Diesel Range Organics (DRO), MTBE, and gasoline oxygenates which include tertiary butyl alcohol (TBA), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), diisopropyl ether (DIPE), and ethanol by EPA Method 8260B.

The location and elevation of top of casing will be determined by a licensed surveyor. The survey and analytical data will be uploaded into GeoTracker.

7.0 FEASIBILITY STUDY

The following sections provide details regarding the proposed FS and field testing program.

7.1 Goals

Feasibility Study (FS) is an evaluation of alternative remedial options for soil and groundwater contamination. The goal of the FS is to select a remedial option(s) that is deemed the most viable based on site specific soil and groundwater data. Site historic, soil, groundwater, migration, and risk data are contained in the *Site Conceptual Model, 76 Service Station NO. 7376, 4191 First Street, Pleasanton, California dated September 30, 2009* (Delta 2009) and summarized above in Section 3.0. Field testing is performed to confirm the ability of the selected method(s) to accomplish remediation goals.

7.2 Remediation Alternatives

The following factors were considered in the evaluation of various remediation alternatives:

- The contaminants of concern (COCs) are TPH-G, TPH-D, and MTBE.
- The site is underlain by dipping alternative layers of sand and silt-clay.
- COCs migration appears to have been influenced by the dipping structure of the subsurface geology.
- Most of the contaminant mass lies within the vadose zone in the 20- to 70-foot depth interval.
- COCs appear to be held within both clay-silt and sand layers of the vadose zone.
- COCs appear to be primarily migrating east-northeast through what is designated as the "A" sand zone on cross-sections.
- The dissolved MTBE plume appears to be migrating east-northeast based on data from well MW-8 (see Section 6.1).
- Sampling of well MW-5 indicates that sand layers may produce only limited amounts of water. Well MW-5 was found to dewater during purging for water sampling.

Five remediation alternative remediation options were evaluated;

- Natural attenuation
- Soil vapor extraction and treatment (SVE)
- Dual-Phase extraction (DPE)
- Groundwater extraction and treatment (GWE&T)
- Oxygen or ozone injection

7.3 Monitoring of Natural Attenuation

Monitoring of natural attenuation (MNA) relies on natural biological and chemical processes to clean up or attenuate COCs in soil and groundwater. However, the right conditions must exist for the natural process(es) to be activated and/or reduce contaminant concentrations in a reasonable time frame. **MNA is not considered a practical option for this site.** COC concentrations are sufficiently high to resist breakdown through natural processes. Groundwater monitoring data indicates that the groundwater plume is migrating to the east-northeast and requires active remediation.

7.4 Soil Vapor Extraction

The majority of COC mass is located with the vadose zone. The highest concentrations of TPH-G, TPH-D, and MTBE are located in at depths between 15 and 50 feet bgs near the source area (Well MW-2C) and between 20 and 70 feet downgradient near boring SB-5 (see cross-sections **Figures 4 through 6**). **Soil vapor extraction appears to be a viable option for removing COC mass from the vadose**.

7.5 Dual Phase Extraction

During dual phase extraction, both soil vapor and groundwater are removed from the well simultaneously. The test method makes it difficult to quantify the sustainable groundwater flow rate. A dual phase (DPE) test was performed at the adjacent Shell-branded Station (4212 First Street) in January 2009. Data from an 8-hour test Shell well MW-1 is summarized below.

DPE Field Measurements for 8-hour test on MW-1
Shell Branded Station, 4212 First Street, Pleasanton, CA

Dual Phase Extraction operation (From 1/13/2009 9:00 To 1/13/2009 13:00)

Date	Time	Inlet Flow Rate (cfm)	Inlet Applied Vacuum (system) (inH_2O)	Induced Vacuum at wellhead (inH_2O)	Inlet Hydrocarbon Vapor conc. (ppm)	Totalizer Reading (gallons)	Total Volume GW Extracted (gallons)
1/13/2009	9:00	68	26.50	<150	25	1,272,690	0
1/13/2009	9:15	68	26.50	<150	41	1,272,690	0
1/13/2009	9:30	68	26.50	<150	35	1,272,690	0
1/13/2009	9:45	60	26.00	<150	30	1,272,690	0
1/13/2009	10:00	60	26.00	<150	48	1,272,690	0
1/13/2009	10:15	68	26.00	<150	53	1,272,690	0
1/13/2009	10:30	70	26.50	<150	53	1,272,690	0
1/13/2009	10:45	68	26.50	<150	41	1,272,690	0
1/13/2009	11:00	68	26.50	<150	50	1,272,690	0
1/13/2009	12:00	68	26.50	<150	25	1,272,690	0
1/13/2009	13:00	68	26.50	<150	27	1,272,690	0

Abbreviations:
cfm = Cubic feet per minute
inH2O = Inches of water
ppm = Parts per million

Shell well MW-1 is 58 feet deep and screened from 38 to 58 feet bgs in clayey gravelly sand (30% fines) and clayey gravel with silt (GC, 40% fines) and poorly graded sand (SP). As can be observed from the table above, no groundwater was recovered. Shell later performed a separate groundwater extraction tests using wells MW-1 and MW-4, a well similar in construction and soil profile to well MW-1. The sustainable yield of MW-1 was 0.5 gallons per minute and 0. 4 gpm for well MW-4.

Delta proposes the use of separate SVE and GWE tests to better define subsurface conditions

7.5 Groundwater Extraction

Groundwater extraction is anticipated to be required to prevent further downgradient migration of the dissolved plume. Groundwater extraction may be required to remove contaminant mass from saturated zones in the source area. Delta proposes to perform an 8-hour constant rate groundwater extraction test using well MW-5 (**Figure 2**). Well MW-5 contains the highest concentrations of COCs. The pumping rates are expected to be very low during certain times of the year. Well MW-5, during sampling in September 2009, dewatered after removal of only 3 gallons of water and did not recover for 2 hours. Water levels in well MW-5 fluctuate approximately 10 feet annually.

7.6 Oxygen/Ozone Injection

Oxygen/ozone injection may be an option for remediation of groundwater. Delta will use the data from the above tests to evaluate the use of oxygen/ozone injection. Data from the adjacent Shell site indicates that the permeability of aquifer soils may not be sufficient to accept injection gases. Proposed testing will determine the permeability of the sand layers and the ability of silt-clay layers to act as vapor barriers.

7.7 Conclusion

Delta will perform testing of SVE and GWE remedial alternatives. Data from these tests will be used to further evaluate DPE and injection alternatives.

8.0 SVE TEST PROGRAM

Delta proposes to perform pilot testing activities to determine the effectiveness of SVE as an appropriate long-term remedial action plan. Delta will utilize a portable vapor extraction system with a positive displacement vacuum pump and a thermal oxidizer to treat extracted vapors prior to release to the atmosphere.

8.1 Well Clusters

Delta proposes to install two well clusters (A and B) to perform SVE testing. Well cluster A will be located near the source area near well MW-2C (**Figure 2**). The clusters will consist of three separately installed wells, screened within discrete sand and silt-clay beds. Each well in the clusters will be placed within approximately 5 to 7 feet of one another. Cluster A will contain three wells screened from 15 to 30 feet bgs (clay-silt), 35 to 45 feet bgs (sand), and 50 to 55 feet bgs (clay-silt) – **Figure 7**. Cluster B will contain three separately installed wells screened from 20 to 25 feet (sand), 35 to 45 feet bgs (clay-silt), 55 to 65 feet bgs (sand) – **Figure 8**, Data from the well clusters will provide information on the ability of SVE to remove COCs from both sand and silt-clay beds. The clusters will also provide information on the ability of silt-clay beds to act as barriers for air flow between sand layers. Each well cluster will be accompanied by an observation well to monitor the horizontal influence of the soil vapor extraction vacuum, which will be placed approximately 20 feet from the cluster wells. Well MW-5 will also be utilized as an observation well (for tests conducted on the Cluster B wells) monitor the vertical influence of vacuum applied to the two shallower cluster wells on the deeper MW-5.

8.1.1 Well Installations

Pre-Field Activities Upon approval of the work plan, Delta will obtain a revised access agreement from the Alameda County. arrange the drilling schedule and coordinate mobilization of the drilling equipment

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

Drilling and Sampling Procedures. Prior to drilling, the well locations will be cleared using air-knife equipment to a minimum depth of approximately eight feet bgs. Proposed SVE wells and associated observation wells will be drilled using hollow stem auger (HSA) drill rig equipment. The deepest boring in each well cluster will be sampled for soil profiling at 5-foot intervals, starting at 10 feet bgs, and continuously from one foot above to one foot below each proposed screen interval, using a 2-inch diameter California modified split-spoon sampler. At each sampling interval, the soil sample will be logged using the Unified Soil Classification System and select samples will be retained in 2-inch diameter brass rings. Following removal of the rings from selected borings, the rings will be sealed at each end with Teflon™–lined plastic end caps, and will be labeled in accordance with specified sampling procedures and stored on ice for transport with the appropriate chain-of-custody documentation to a state-certified analytical laboratory.

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

SVE Well Installations Upon completion, the borings within each cluster will be converted into SVE wells. The SVE wells for each location will be constructed of 4-inch diameter Schedule 40 PVC and manufactured 0.020-inch well screen. The well annulus will be backfilled with #2/16 Monterey sand approximately to two feet above each well screened interval, followed by two feet of hydrated bentonite chip seal. A cement grout will be tremied from the top of bentonite seat to the surface of the SVE wells. A locking cap will be placed on each wellhead, which will be enclosed in a flush-mounted traffic-rated vault.

SVE Observation Well Installations A SVE observation well will be installed approximately 20 feet from each of the two well clusters (**Figures 7 and 8**). Three one-inch diameter well casings and 5-foot well screens will be placed in a single eight-inch diameter boring. Each screen will correspond to one of the screened depths in the adjacent well clusters. Sand will be placed around each well screen. The well screens will be separated by hydrated bentonite chips.

8.1.2 SVE Test Procedures

Delta proposes to perform pilot testing activities to determine the effectiveness of SVE as an appropriate

long-term remedial action plan. Delta will utilize a portable vapor extraction system with a positive displacement vacuum pump and a thermal oxidizer to treat extracted vapors prior to release to the atmosphere.

The pilot testing will consist of two distinct phases: a series of step-tests and an extended extraction test. The primary goal of the step tests will be to determine radius-of-influence (ROI) values at the different clustered vapor extraction wells. The primary goal of the extended extraction test is to evaluate hydrocarbon removal rates. SVE pilot tests will be conducted as described below. For the purpose of this test, ROI will be defined as 1% of the vacuum applied to the extraction well.

SVE Step Test The step tests will be conducted by applying a vacuum with up to 15 inches of mercury to the test well and connecting it to the thermal oxidation unit. Extracted vapors will be destroyed by the thermal oxidation unit. Total hydrocarbons will be monitored using a photoionization detector (PID). Each well within Clusters A and B will be tested for a total of six tests. The step test wells will be tested individually for a minimum of two hours. During the step tests, the thermal oxidation unit will be connected to the test well and a vacuum will be applied. The applied vacuum will be increased in three steps (approximately 45 minute intervals). During each step test the following tasks will be performed:

- Vacuum measurements will be collected from the adjacent observation wells at 15-minute intervals.
- Additional induced vacuum measurements will be collected periodically from the distant cluster and observation wells.
- Vapor flow rates and applied vacuum readings at the extraction wellhead will be collected at 15-minute intervals.
- Vapor samples will be collected from the test well at the beginning, middle, and end of each test in Tedlar bags. These samples will be analyzed in the field for total hydrocarbons using a PID.

SVE Extended Test At the completion of the step test, an extended tests will be initiated using wells within Cluster A and Cluster B. A constant vacuum will be applied and allowed to run for a period of 8-hours. During the test, inlet flow rates and applied vacuums will be measured and recorded at 30 minute intervals until the completion of the test. Soil vapor samples will be collected from the extraction well at the beginning, midpoint and end of the extended test. Samples will be collected in Tedlar bags. Using Tedlar bags, vapor samples will be collected from the SVE well influent vapor stream at the start, mid, and end of each test. Influent samples will be collected by a subcontractor and Delta personnel throughout the

test. Vapor samples will be analyzed for TPH-g, benzene, toluene, ethylbenzene and total xylene (BTEX), and MTBE using USEPA Method TO-14. The vapor samples will be logged on chain-of-custody forms, and submitted to a California certified laboratory for analysis. The results of the extended test will provide data to determine hydrocarbon mass removal rates in the vapor stream, ROI, flow rates, and applied vacuum.

9.0 GROUNDWATER EXTRACTION TESTING

Groundwater extraction is anticipated to be required to prevent further downgradient migration of the dissolved plume. Groundwater extraction may be required to remove contaminant mass from saturated zones in the source area. Delta proposes to perform an 8-hour constant rate groundwater extraction test using well MW-5 (**Figure 2**). Well MW-5 contains the highest concentrations of COCs and is near the center of the downgradient portion of the off-site plume. Pumping rates is expected to be very low during certain times of the year. Well MW-5 during sampling, in September 2009 dewatered after removal of only 3 gallons and did not recover for 2 hours. Water levels in well MW-5 fluctuate approximately 10 feet annually. Testing is planned for a time when sufficient water is contained in the well (winter/spring).

A step-drawdown test will initially be performed using a submersible pump. The well will be pumped at a minimum three rates (step) for a minimum of 1 hour each or until drawdown the water level in the well stabilizes. The 24-hour constant rate pumping test will be performed at 60% of the sustainable rate determined from the step drawdown test. Groundwater levels in the well will be measured using an electronic sounder every 5 minutes during the first hour, every 20 minutes for hours 2 through 4, and then every 30 minutes up to 8 hours. Groundwater effluent samples will be collected every hour during the first eight hours and analyzed using field instruments for ph and electrical conductivity. A groundwater sample will be collected at the beginning, middle, and end of the test. The sample will be sent to a California certified laboratory for analysis of TPH-G, TPH-D, BTEX, and MTBE.

Groundwater levels during the test will be monitored in wells MW-7 and MW-8 located approximately 50 feet and 75 feet, respectively from extraction well MW-5. Depth to water in these observation wells will be monitored using a pressure transducer with periodic manual measurements.

10.0 SUMMARY

The site is underlain by a complex series of dipping sand and clay-silt layers. Depth to groundwater is approximately 65 to 70 feet bgs. Groundwater levels are generally increasing and can fluctuate up to 10 feet annually. The majority of contaminant mass is contained in the vadose zone in both sand and clay-silt layers. Delta proposes to complete site assessment with the installation of an additional groundwater monitoring well near the downgradient edge of the plume.

Various remediation options were evaluated based on specific site conditions. Soil vapor extraction was selected as the primary option based on depth to groundwater and mass of contaminants within the vadose zone. Delta proposes to install two well clusters for soil vapor extraction testing of both sand and clay –silt layers within the vadose zone. One cluster will be placed near the source area (well MW-2c) and the other in the downgradient portion of the plume (well MW-5). An observation well will be constructed adjacent to each cluster to determine the radius of influence within various soil types.

A groundwater pumping test will be attempted to evaluate the permeability of saturated sand layers. Very low well flow rates are anticipated. Data from the test will also be used to evaluate the use of oxygen-ozone injection as a remediation option.

11.0 REPORT

A well installation and FS report will be prepared containing a description of all field procedures and a summary of field and laboratory data. The report will contain boring logs, well completion details, SVE test summary data sheets, GWE test summary data sheets, and maps showing locations of field activities. The report will propose a remediation system to cleanup current COCs to acceptable levels. A cleanup time frame will be estimated.

12.0 REMARKS

The descriptions, conclusions, 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. For any reports cited that were not generated by Delta, the data from those reports is used "as is" and is assumed to be accurate. Delta does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. 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 conducted. 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.

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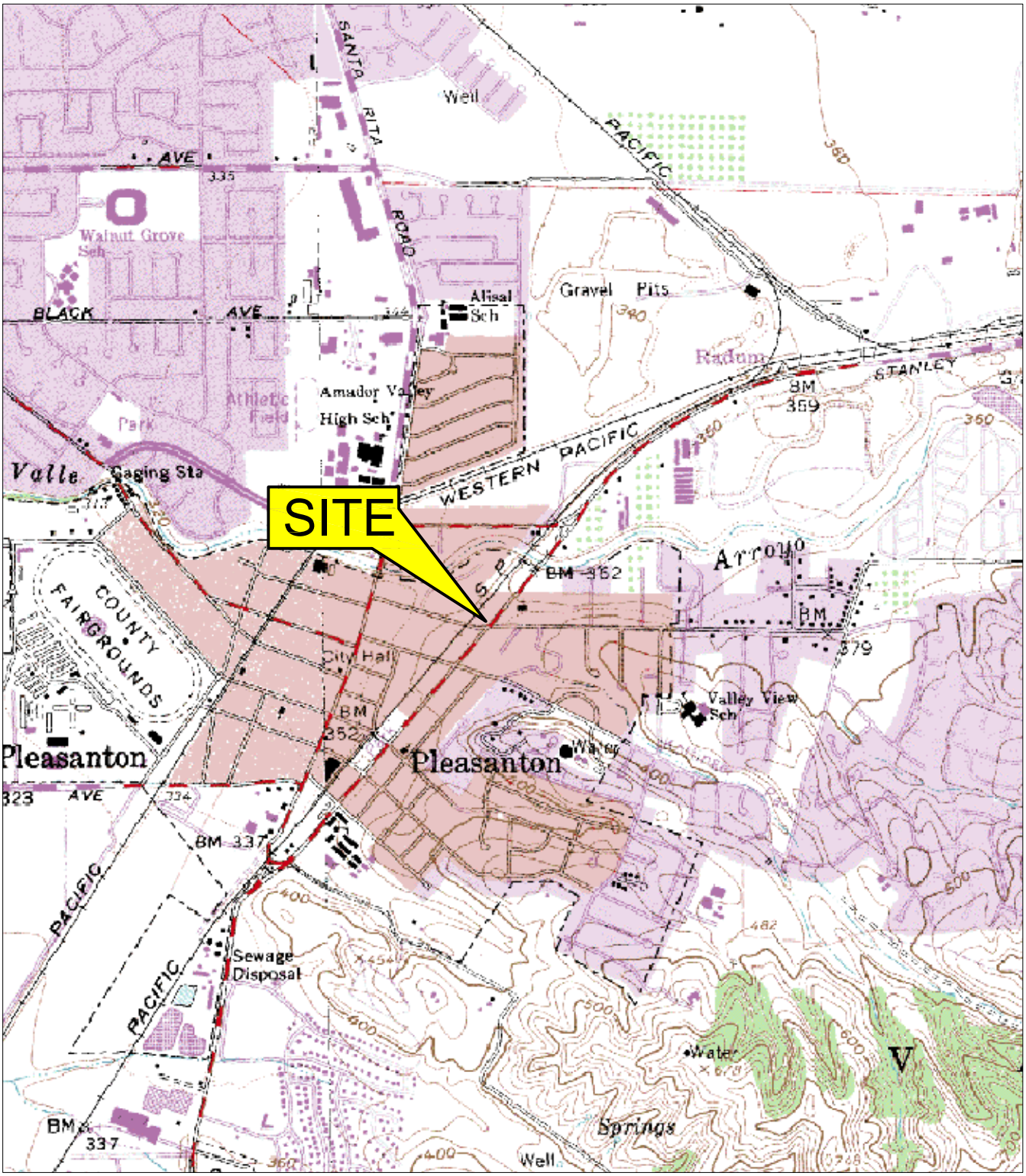
FIGURES



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, LIVERMORE QUADRANGLE (1978)

FIGURE 1

SITE LOCATION MAP

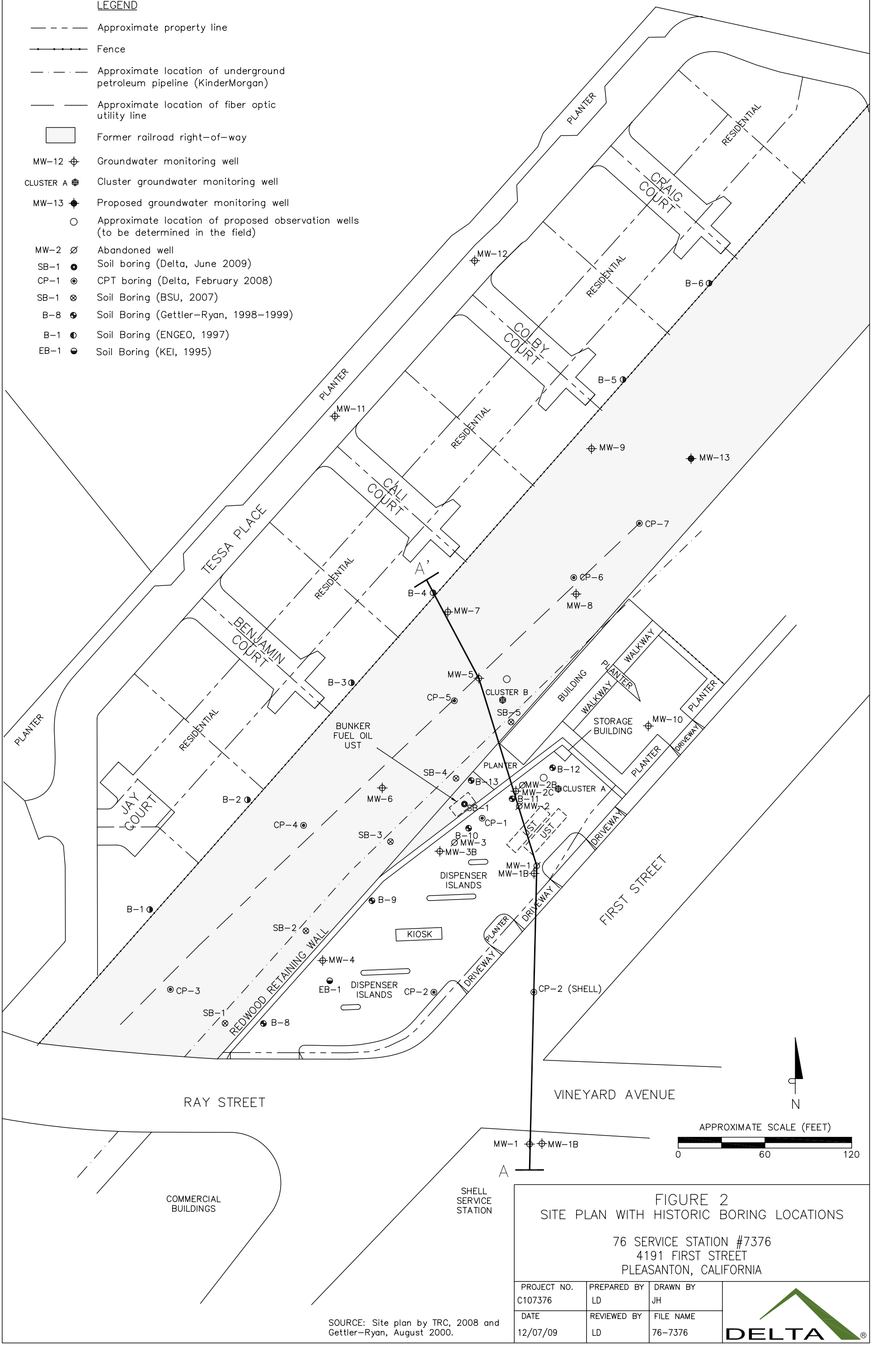
76 STATION NO. 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NO. C107376	DRAWN BY JH 03/28/08
FILE NO. 7376-SiteLocator	PREPARED BY LS
REVISION NO.	REVIEWED BY DD

DELTA

LEGEND

- Approximate property line
- Fence
- Approximate location of underground petroleum pipeline (KinderMorgan)
- Approximate location of fiber optic utility line
- Former railroad right-of-way
- MW-12 Groundwater monitoring well
- CLUSTER A Cluster groundwater monitoring well
- MW-13 Proposed groundwater monitoring well
- Approximate location of proposed observation wells (to be determined in the field)
- MW-2 Abandoned well
- SB-1 Soil boring (Delta, June 2009)
- CP-1 CPT boring (Delta, February 2008)
- SB-1 Soil Boring (BSU, 2007)
- B-8 Soil Boring (Gettler-Ryan, 1998-1999)
- B-1 Soil Boring (ENGEO, 1997)
- EB-1 Soil Boring (KEI, 1995)



SOURCE: Site plan by TRC, 2008 and Gettler-Ryan, August 2000.

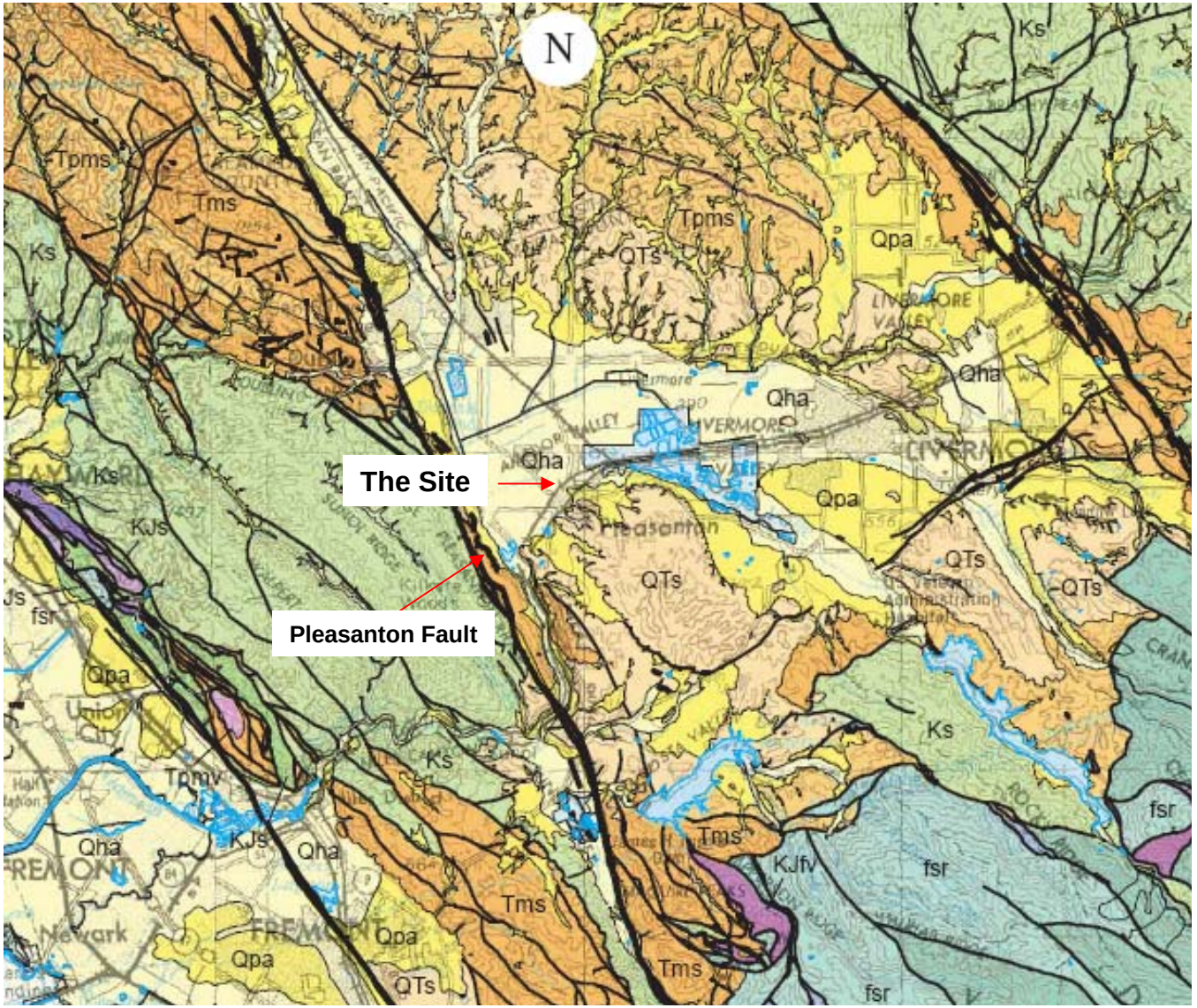
FIGURE 2
SITE PLAN WITH HISTORIC BORING LOCATIONS

76 SERVICE STATION #7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C107376	LD	JH
DATE	REVIEWED BY	FILE NAME
12/07/09	LD	76-7376

DELTA®

Figure 3: Regional Geologic Map



Qha = Holocene alluvium

Qpa = Pleistocene Alluvium

QTs = Plio-Pleistocene Sediments

Ks = Great Valley Complex

SOUTH A — **NORTH A'**

SHELL | VINEYARD AVENUE | FIRST STREET | 76 STATION | TRANSPORTATION CORRIDOR | RESIDENTIAL

MW-1 MW-1B CPT-2 (SHELL) MW-1B MW-1 CPT-1 B-11 MW-2C MW-2B (DESTROYED) SB-5 (PROJ. 20'E) CPT-5 MW-5 MW-7 B-4

(PROJ. 10'E) BUNKER OIL TANK

PIPELINE

USTs

NO LOGS AVAILABLE

DEPTH (FEET) 0 10 20 30 40 50 60 70 80 90 100 110

ELEVATION (FEET MSL) 380 370 360 350 340 330 320 310 300 290 280 270 260

(MW-1)

(MW-1B)

*

(7.3 / ND / NA)
(<1 / <4 / <5.0)
(2.1 / ND / NA)
(2.0 / ND / NA)
(8.5 / 140 / 21)
(0.64 / 3100 / 0.29)
(48 / 140 / 0.51)
(640 / 220 / <0.5)
(16 / 110 / NA)
(660 / 550 / NA)
(170 / 8100 / 700)
(470 / 5000 / 1.3)
(370 / 300 / <0.25)
(720 / 2400 / NA)
(680 / 1100 / NA)
(2.8 / 1300 / 52)
(360 / 570 / 0.76)
(130 / 140 / NA)
(<0.2 / <2 / <0.022)
(61 / 920 / 0.075)
(110 / 1000 / NA)
(1.6 / 130 / 0.29)
(140 / 1900 / NA)
(52 / 1700 / 81)
(1.4 / 9.9 / 0.28)
(4.3 / 320 / NA)
(0.27 / <2 / 0.063)
(2.2 / 33 / NA)
(<1 / <2 / 7.1)
(1.0 / 4.7/ NA)
(0.21 / <2 / 0.11)
(0.35 / <2 / 0.32)
(ND / ND / NA)
(560 / 110 / NA)
(400 / 450 NA)
(32 / ND / NA)
(ND/ ND/ ND)

A

B

0 40
SCALE IN FEET
20

ND<2 = NOT DETECTED ABOVE LABORATORY REPORTING LIMITS
NA = NOT ANALYZED
TPH-G = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPH-D = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
mg/kg = MILLIGRAMS PER KILOGRAM

LEGEND

MW-5 — MONITORING WELL/BORING NAME

WELL CASING/EXPLORATORY BORING

SOIL SAMPLE LOCATION

WELL SCREEN

FIRST ENCOUNTERED GROUNDWATER

STABILIZED WATER LEVEL IN WELLS
6/22/09 COP WELLS
5/27/09 SHELL WELLS

* CALCULATED FROM CPT DISSIPATION TEST

PRIMARILY SILT (ML) AND CLAY (CL) WITH SOME CLAYEY SAND (SC) AND CLAYEY GRAVEL (GC)

PRIMARILY SAND (SP, SW) WITH INTERLAYERED SILT (ML), CLAY (CL), SILTY SAND (SM), AND SILTY GRAVEL (GM)

APPROXIMATE STRATIGRAPHIC BOUNDARY

NOTE: STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.
A = UPPER MOST AQUIFER
B = LOWER AQUIFER

(640 / 220 / <0.5) ● SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, TPH-D, MTBE (mg/kg)

* SOIL SAMPLE CONTAINED SEPARATE PLUME HYDROCARBONS

TPH-G VADOSE ZONE

◉ >100 mg/kg

FIGURE 4
CROSS SECTION A–A'
SOIL ANALYTICAL DATA – TPH–G
76 SERVICE STATION #7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C107376	LD	JH
DATE	REVIEWED BY	FILE NAME
12/08/09	LH	76–7376

DELTA®

SOUTH A — **NORTH A'**

SHELL | VINEYARD AVENUE | FIRST STREET | 76 STATION | TRANSPORTATION CORRIDOR | RESIDENTIAL

MW-1 MW-1B CPT-2 (SHELL) MW-1B MW-1 B-11 CPT-1 MW-2C MW-2B (DESTROYED) (PROJ. 10'E) SB-5 (PROJ. 20'E) CPT-5 MW-5 MW-7 B-4

BUNKER OIL TANK

PIPELINE

USTs

NO LOGS AVAILABLE

(MW-1)

(MW-1B)

*

(7.3 / ND / NA)
(<1 / <4 / <5.0)
(2.1 / ND / NA)
(2.0 / ND / NA)
(8.5 / 140 / 21)
(16 / 110 / NA)
(660 / 550 / NA)
(680 / 1100 / NA)
(2.8 / 1300 / 52)
(130 / 140 / NA)
110 / 1000 / NA)
(140 / 1900 / NA)
(52 / 1700 / 81)
(4.3 / 320 / NA)
(2.2 / 33 / NA)
(1.0 / 4.7/ NA)
(ND / ND / NA)
(ND / ND / NA)
(ND / ND / NA)

(0.64 / 3100 / 0.29)
(48 / 140 / 0.51)
(640 / 220 / <0.5)
(470 / 5000 / 1.3)
(370 / 300 / <0.25)
(720 / 2400 / NA)
(360 / 570 / 0.76)
(61 / 920 / 0.075)
(1.6 / 130 / 0.29)
(1.4 / 9.9 / 0.28)
(0.27 / <2 / 0.063)
(0.21 / <2 / 0.11)
(0.35 / <2 / 0.32)

(170 / 8100 / 700)
(<0.2 / <2 / <0.022)
(<1 / <2 / 7.1)
(560 / 110 / NA)
(400 / 450 NA)
(32 / ND / NA)

(ND / ND / NA) ×12
(ND/ ND/ ND) ×4

B

DEPTH (FEET): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110
ELEVATION (FEET MSL): 380, 370, 360, 350, 340, 330, 320, 310, 300, 290, 280, 270, 260

0 — 40
SCALE IN FEET
20

ND<2 = NOT DETECTED ABOVE LABORATORY REPORTING LIMITS
NA = NOT ANALYZED
TPH-G = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPH-D = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
mg/kg = MILLIGRAMS PER KILOGRAM

LEGEND

MW-5 — MONITORING WELL/BORING NAME

WELL CASING/EXPLORATORY BORING

SOIL SAMPLE LOCATION

WELL SCREEN

FIRST ENCOUNTERED GROUNDWATER

STABILIZED WATER LEVEL IN WELLS
6/22/09 COP WELLS
5/27/09 SHELL WELLS

* CALCULATED FROM CPT DISSIPATION TEST

PRIMARILY SILT (ML) AND CLAY (CL) WITH SOME CLAYEY SAND (SC) AND CLAYEY GRAVEL (GC)

PRIMARILY SAND (SP, SW) WITH INTERLAYERED SILT (ML), CLAY (CL), SILTY SAND (SM), AND SILTY GRAVEL (GM)

APPROXIMATE STRATIGRAPHIC BOUNDARY

NOTE: STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.
A = UPPER MOST AQUIFER
B = LOWER AQUIFER

(640 / 220 / <0.5) ● SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, TPH-D, MTBE (mg/kg)

* SOIL SAMPLE CONTAINED SEPARATE PLUME HYDROCARBONS

TPH-D VADOSE ZONE

>100 mg/kg

>1000 mg/kg

FIGURE 5
CROSS SECTION A–A'
SOIL ANALYTICAL DATA – TPH–D
76 SERVICE STATION #7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C107376	LD	JH
DATE	REVIEWED BY	FILE NAME
12/08/09	LH	76–7376

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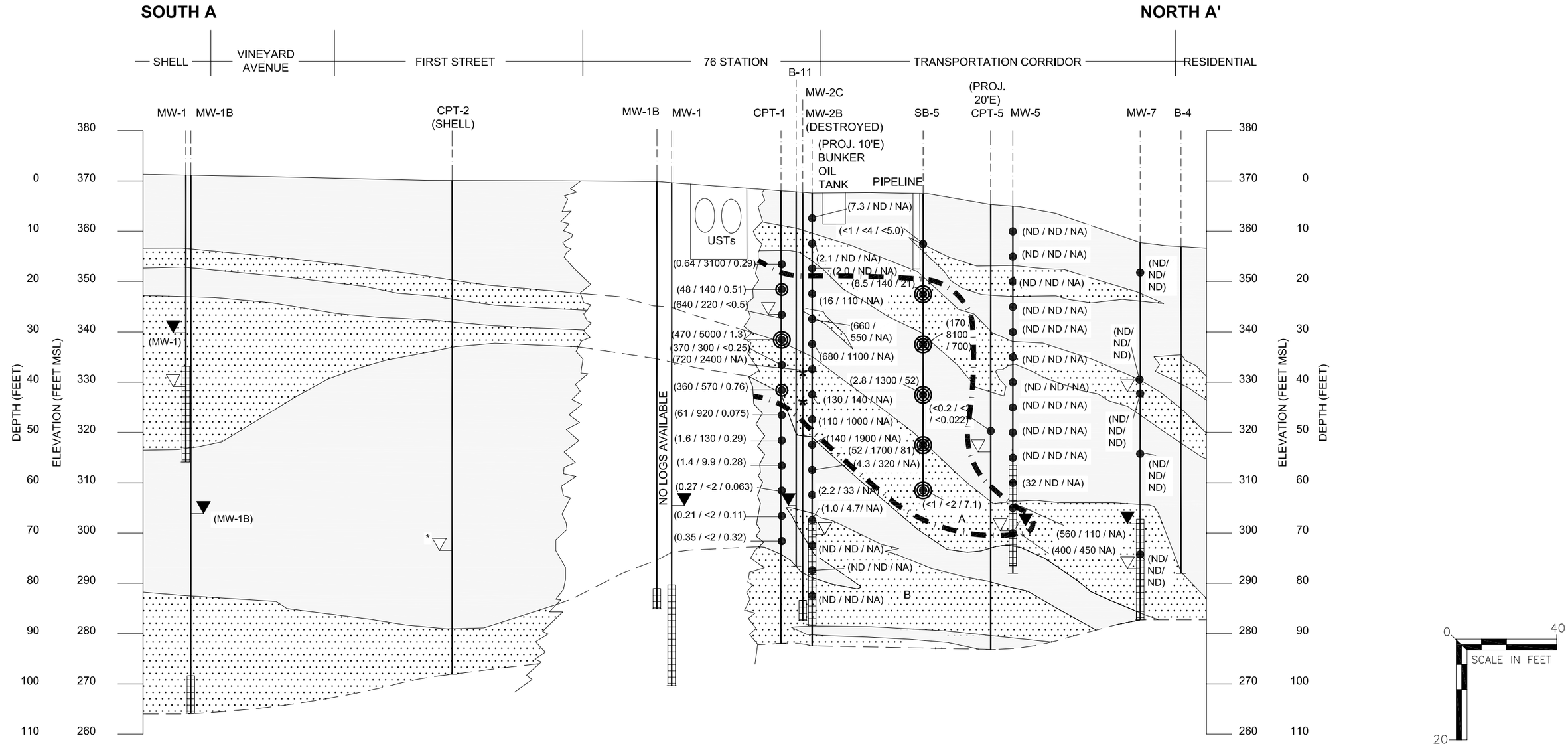


ND<2 = NOT DETECTED ABOVE LABORATORY REPORTING LIMITS
NA = NOT ANALYZED
TPH-G = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPH-D = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
mg/kg = MILLIGRAMS PER KILOGRAM

LEGEND

MW-5 — MONITORING WELL/BORING NAME

WELL CASING/EXPLORATORY BORING

SOIL SAMPLE LOCATION

WELL SCREEN

FIRST ENCOUNTERED GROUNDWATER

STABILIZED WATER LEVEL IN WELLS
6/22/09 COP WELLS
5/27/09 SHELL WELLS

* CALCULATED FROM CPT DISSIPATION TEST

PRIMARILY SILT (ML) AND CLAY (CL) WITH SOME CLAYEY SAND (SC) AND CLAYEY GRAVEL (GC)

PRIMARILY SAND (SP, SW) WITH INTERLAYERED SILT (ML), CLAY (CL), SILTY SAND (SM), AND SILTY GRAVEL (GM)

APPROXIMATE STRATIGRAPHIC BOUNDARY

NOTE: STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.
A = UPPER MOST AQUIFER
B = LOWER AQUIFER

(640 / 220 / <0.5) — SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, TPH-D, MTBE (mg/kg)

* SOIL SAMPLE CONTAINED SEPARATE PLUME HYDROCARBONS

MTBE VADOSE ZONE

>0.5 mg/kg

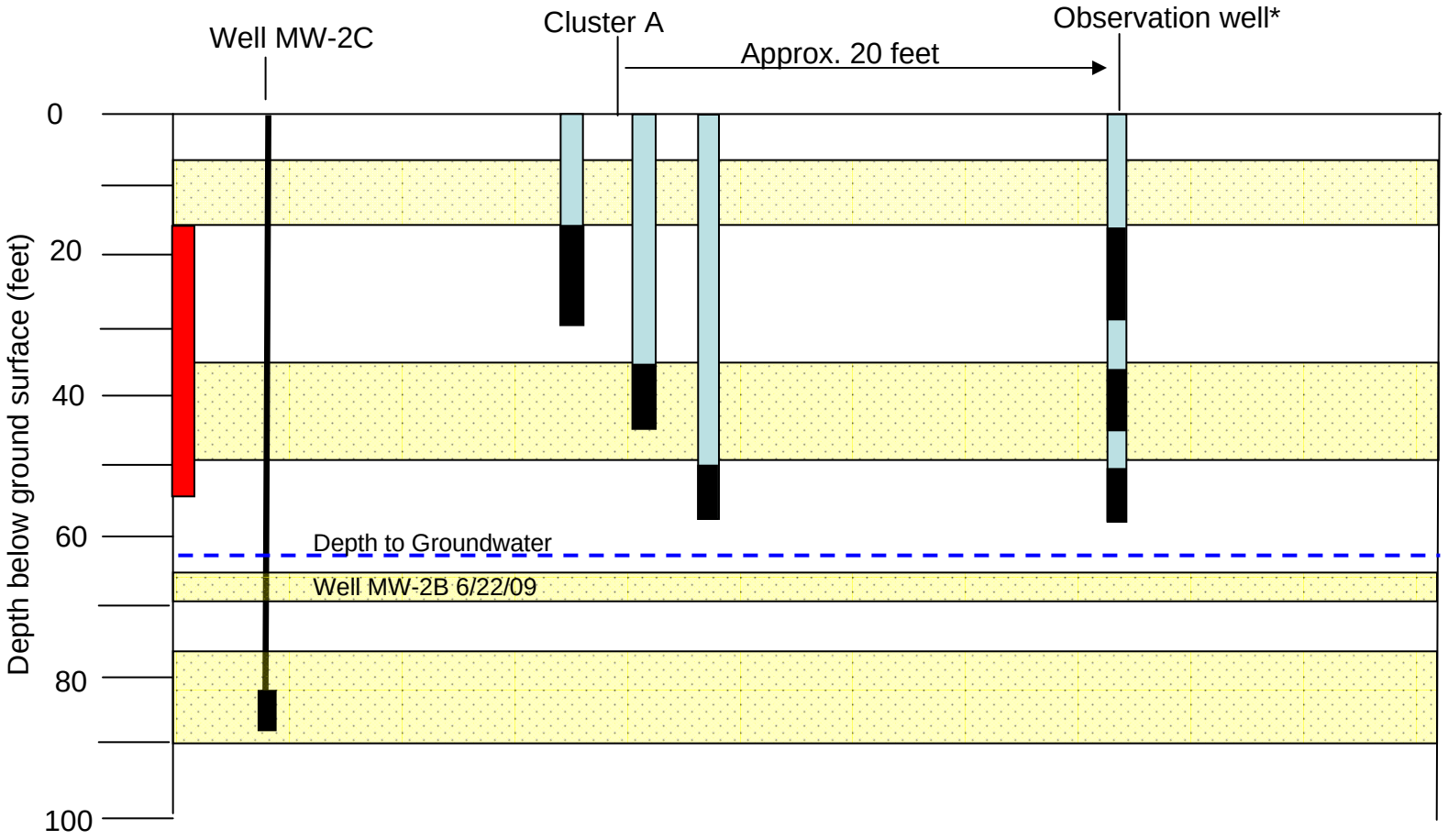
>1.0 mg/kg

>10 mg/kg

FIGURE 6
CROSS SECTION A–A'
SOIL ANALYTICAL DATA – MTBE
76 SERVICE STATION #7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C107376	LD	JH
DATE	REVIEWED BY	FILE NAME
12/08/09	LH	76-7376

DELTA®



Highest soil concentrations TPH-G, TPH-D, MTBE

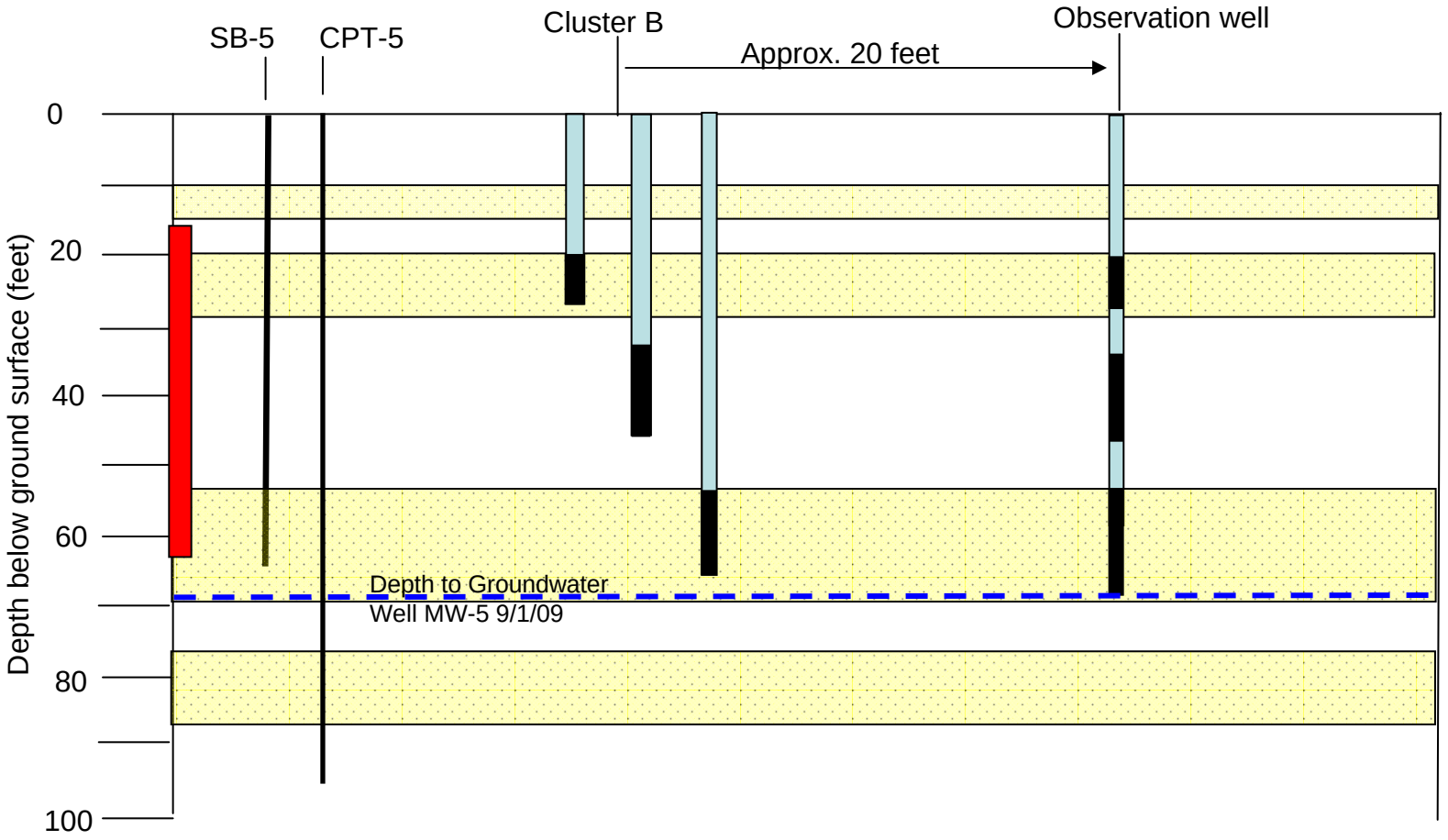
Approximate screen interval

*Observation well is three 1" casings in a single boring-each independently screened within one of three zones.

Figure 7

Well Cluster A Diagram

COP Station 7376



Highest soil concentrations TPH-G, TPH-D, MTBE

Approximate screen interval

*Observation well is three 1" casings in a single boring-each independently screened within one of three zones.

Figure 8

Well Cluster B Diagram

COP Station 7376

APPENDIX A

ACEH Letter Dated October 16, 2009

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Acting Director

RECEIVED
OCT 19 2009

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

October 16, 2009

Mr. Terry Grayson
ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

De L Liu and Na Li
922 Saddlehorn Court
Danville, CA 94506

Mr. Henry O. Armour
P.O. Box 2527
Olympia, WA 98507

CD & PWS Enterprises, Inc.
8998 Alcosta Boulevard
San Ramon, CA 94583

Subject: Fuel Leak Case No. RO0000361 and Geotracker Global ID T0600100101, Unocal #7376, 4191 First Street, Pleasanton, CA 94566 – Work Plan Approval

Dear Mr. Grayson:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the most recent document entitled, "*Site Conceptual Model (SCM), 76 Service Station #7376, RO# 361, 4191 First Street, Pleasanton, CA*," dated September 30, 2009. The SCM was prepared on behalf of ConocoPhillips by Delta Environmental. The SCM summarizes site conditions and recommends installation of a monitoring well in the vicinity of CP-7 and preparation of a work plan for a feasibility study. These recommendations are acceptable and are to be implemented as discussed in the technical comments below.

A review of issues related to the Bunker C fuel tank, off-site remediation access issues, and schedule for additional investigation and remediation may be appropriate at this time. We suggest that you contact representatives of the County of Alameda Public Works Agency to arrange a meeting between ConocoPhillips, Delta Environmental, and the County of Alameda Public Works Agency to review these issues. ACEH will attend if requested.

We request that you address the technical comments below, perform the proposed work, and send us the reports requested below.

TECHNICAL COMMENTS

1. **Monitoring Well in Area of CP-7.** We have no objection to the installation of a monitoring well in the area of CP-7. Please presents plans for the well installation in the Feasibility Study and Work Plan requested below.

2. **Work Plan and Feasibility Study.** We request that you prepare a Feasibility Study that screens and evaluates the feasibility of remedial technologies appropriate for the site and prepare a Work Plan to test the feasibility of the most promising technology or technologies. The Work Plan must describe the field feasibility testing in sufficient detail for ACEH to approve implementation of the feasibility testing. The feasibility testing must include sufficient data collection and monitoring to evaluate the potential for the technology to remediate the targeted areas and vertical intervals and to estimate the time required to achieve cleanup. We request that the Work Plan include the installation of sufficient

monitoring points to assess whether stratigraphic or structural discontinuities are present that will limit the radius of influence of injection or extraction points. Monitoring the area and vertical interval over which injection or extraction achieves influence will also help to assess the accuracy of existing cross sections and our understanding of the site hydrogeology. Please include these plans in the Feasibility Study and Work Plan requested below.

3. **Groundwater Monitoring.** Please continue semi-annual groundwater monitoring and present the results in the groundwater monitoring reports requested below.

TECHNICAL REPORT REQUEST

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

- **December 22, 2009** – Feasibility Study and Work Plan
- **January 18, 2010** – Semi-annual Groundwater Monitoring Report, Fourth Quarter 2009
- **July 18, 2010** – Semi-annual Groundwater Monitoring Report, Second Quarter 2010

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

ELECTRONIC SUBMITTAL OF REPORTS

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

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

Sincerely,

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

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

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

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

Les Hausrath, Wendel, Rosen, Black & Dean, 1111 Broadway, 24th Floor, Oakland, CA 94607

Rory MacNeil, Alameda County Public Works, 399 Elmhurst Street, Hayward, CA 94544-1307

John Reay, Delta Environmental Consultants, Inc., 11050 White Rock Road, Suite 110, Rancho Cordova, CA 95670

Donna Drogos, ACEH
Jerry Wickham, ACEH
Geotracker, File

APPENDIX B

Historic Site Maps

REMOVE AND STORE EXISTING DUAL DISPENSERS PRIOR TO TANK REMOVAL. ANY DEMOLITION OF ISLAND IN PART OR FULL SHALL BE REPLACED LIKE AND KIND PER DETAIL 'A' OF THIS DWG.

REINSTALL EXISTING BUMPER POSTS PER DETAIL 'A' OF THIS DRAWING

GAS FREE AND REMOVE (4) EXISTING 12,000 GALLON UNDERGROUND GASOLINE STORAGE TANKS. SEE DRAWING J-1.0.C.

REPLACE EXISTING VENT LINES WITH NEW 2" DIA. STEEL LINES. SLOPE MIN. 1/8" PER FOOT FROM EXISTING VENT RISERS TO NEW TANKS

EXISTING VENT RISERS

SALVAGE AND STORE EXISTING VEEDER-ROOT TLS 350 TANK MONITORING PROBES (4) AND CONTROL MODULE (1) LOCATED IN CASHIER'S BOOTH. FINAL DISPOSITION TO BE DETERMINED BY UNOCAL REPRESENTATIVE

EXISTING CANOPY TO BE DEMOLISHED

INSTALL SECONDARY CONTAINMENT SUMP MONITORING STATIONS AT EACH ISLAND (TYPICAL OF 8) SEE DETAIL DRAWING J-20.3

EXTEND NEW TANK SLAB TO EDGE OF EXISTING DENSE SLAB, LOCATION OF WHICH TO BE VERIFIED BY CONTRACTOR IN FIELD

INSTALL 2" CONDUIT AND CONDUCTOR TO SUBMERSIBLE PUMP BOX JUNCTION BOX. CAP FOR FUTURE USE

INSTALL (2) NEW 12,000 GALLON DOUBLE WALL STEEL UNDERGROUND GASOLINE STORAGE TANKS SEE DRAWING J-1.0.

ISLAND VAPOR RETURN | TANK VENT

TRUCK VAPOR RETURN

FILL

INSTALL ECTM LEAK DETECTION SYSTEM. RUN CONDUIT AND CONDUCTOR TO INTERIOR FACE OF NEAREST WALL OF CASHIER BLDG. AND RUN OVERHEAD TO ALICM PANEL. CONCEAL CONDUIT AS MUCH AS POSSIBLE. WHERE NEEDED SEE DWG. J-21.1

RAY STREET

FIRST STREET

DRAWING INDEX

DATE	DWG. NO.	DESCRIPTION
		SCOPE OF WORK
11/7/97	1.1	GENERAL ARRANGEMENT
11/7/97	J-0	GENERAL SPECIFICATIONS, PIPING AND TESTING
11/7/97	J-1.0	PETROLEUM PIPING DETAILS
11/7/97	J-1.0	DOUBLE WALL STEEL UNDERGROUND STORAGE TANKS
11/7/97	J-3.0	CONCRETE TANK SLAB DETAILS-PRODUCT TANKS
11/13/97	J-4	SPECIFICATIONS FOR REMOVAL & DISPOSAL OF UNDERGROUND FUEL TANKS
11/7/97	J-9.0	DOUBLE WALL TANK INSTALLATION WITH FLOAT VENT VALVES GASOLINE ONLY
11/7/97	J-10.0	PETROLEUM PIPING AND TANK DETAILS
11/7/97	J-20.3	A.O. SMITH FIBERGLASS SECONDARY CONTAINMENT SYST
11/7/97	J-21.1	Ronan LEAK DETECTOR SYSTEM

NOTE!
BOXED-IN NOTES INDICATE NEW WORK. ALL OTHER NOTES REFER TO EXISTING CONDITIONS.

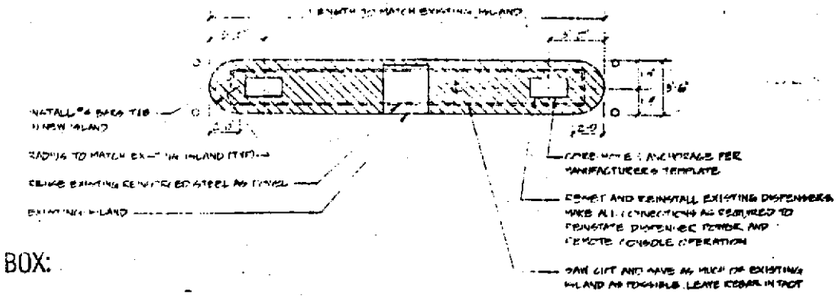
NOTE: UNION OIL CO. SHALL FILE, OBTAIN AND PAY FOR TANK AND APCD PERMITS. CONTRACTOR SHALL PICK UP TANK PERMITS.

ALL ELECTRICAL RUNS ARE SHOWN SCHEMATICALLY. THE BEST ROUTE SHOULD BE DETERMINED IN THE FIELD AND INSTALLED ACCORDING TO NATIONAL, STATE, AND LOCAL CODE REQUIREMENTS.

ALL PIPING RUNS ARE SHOWN SCHEMATICALLY. THE BEST ROUTE SHOULD BE DETERMINED IN THE FIELD AND INSTALLED ACCORDING TO NATIONAL, STATE, AND LOCAL CODE REQUIREMENTS.

NOTE!
CONTRACTOR SHALL PERFORM A PETRO-TITE, HUNTER ENVIRONMENTAL, OR N.D.E. TECHNOLOGY TEST ON TANKS AND LINES PRIOR TO LAYING FINISH GRADE ASPHALT OR CONCRETE SLABS ON TANKS AND PETROLEUM TRENCHES.

CONTACT UNOCAL REPRESENTATIVE 48 HOURS PRIOR TO TEST.



WESTERN REGION BOX:

#9532

Store # 257376 Date: 11/11/11
Unit # 7376 Code. GEN Color
Description. GEN ARRANGEMENT

(A) ISLAND EXTENSION

Revised

TANK REPLACEMENT

GENERAL ARRANGEMENT

SS# 7376

4191 FIRST STREET
PLEASANTON, CALIFORNIA

Unocal Refining & Marketing Division
UNOCAL

RHL# 1270T

LEGEND

- Approximate property line
- Fence
- Approximate location of underground petroleum pipeline (KinderMorgan)
- Approximate location of fiber optic utility line
- Former railroad right-of-way
- MW-12 Groundwater monitoring well
- MW-2 Abandoned well
- CP-1 CPT boring (Delta, February 2008)
- B-8 Soil Boring (Gettler-Ryan, 1998-1999)
- B-1 Soil Boring (ENGEO, 1997)
- EB-1 Soil Boring (KEI, 1995)
- B-1 Soil Boring (AGS, 1987)
- 1907 Sanborn Map Features

PLANTER
RESIDENTIAL
CRAIG COURT
MW-12
RESIDENTIAL
HALL W. HO. CO NO. 6 HAY
B-6
COLBY COURT
B-5
NO EXPOSURE
PLANTER
MW-11
RESIDENTIAL
MW-9
CALI COURT
TESSA PLACE
SIGE
CP-7
RESIDENTIAL
CP-6
B-4
MW-7
MW-8
BENJAMIN COURT
B-3
MW-5
CP-5
PLANTER
RESIDENTIAL
BUILDING
PLANTER
WALKWAY
WALKWAY
PLANTER
STORAGE BUILDING
MW-10
PLANTER
DRIVEWAY
PLANING MILL
PLANTER
B-12
B-13
MW-2B
MW-6
B-11
B-2
B-2
B-4
MW-2
B-1
CP-4
CP-1
OIL TANK
ENG. AMP
B-10
MW-3
UST
UST
DRIVEWAY
B-3
MW-1
DISPENSER ISLANDS
JAY COURT
LUMBER 5'
LUMBER 5'
LUMBER 15'
B-9
FIRST STREET
B-1
LUMBER 5' ON 2' PLATFORM
SOUTHERN PACIFIC MAIN TRACK
4' PLATFORM CLOSED
KIOSK
PLANTER
DRIVEWAY
DRIVEWAY
MW-4
REDWOOD RETAINING WALL
HALL W. HO. NO. 1 GRAIN
CP-3
EB-1
DISPENSER ISLANDS
CP-2
B-8
LUMBER 5'
R
R
R
R
PLANTER
RAY STREET
VINEYARD AVENUE
N
SIGE
SIGE
MOULDINGS
HALL W. HO. CO. LUMBER SHED
SCALES
OFF.
HALL W. HO. CO. NO. 2 HAY

APPROXIMATE SCALE (FEET)
0 60 120

SOURCE: Site plan by TRC, 2008 and Gettler-Ryan, August 2000.

SITE PLAN WITH 1907 SANBORN MAP

76 SERVICE STATION #7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C107376	JR	JH
DATE	REVIEWED BY	FILE NAME
02/09/09	JR	76-7376

DELTA®

LEGEND

- Approximate property line
- Fence
- Approximate location of underground petroleum pipeline (KinderMorgan)
- Approximate location of fiber optic utility line
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- MW-12 Groundwater monitoring well
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- B-1 Soil Boring (ENGEO, 1997)
- EB-1 Soil Boring (KEI, 1995)
- B-1 Soil Boring (AGS, 1987)
- 1943 Sanborn Map Features

PLANTER
RESIDENTIAL
CRAIG COURT
MW-12
B-6
COLBY COURT
B-5
NO EXPOSURE
MW-11
MW-9
CALI COURT
TESSA PLACE
HAY
CP-7
CP-6
MW-8
B-4
MW-7
BENJAMIN COURT
B-3
MW-5
CP-5
BUILDING
WALKWAY
STORAGE BUILDING
MW-10
DRIVEWAY
SHED
JAY COURT
B-2
CP-4
MW-6
B-12
B-13
MW-2B
B-11
MW-2
B-4
B-1
CP-1
B-10
MW-3
B-3
UST
UST
DISPENSER ISLANDS
MW-1
LUMBER SHED
SOUTHERN PACIFIC MAIN TRACK
B-9
BOILER ROOM
KIOSK
B-1
CP-3
MW-4
EB-1
CP-2
HALL W HO NO. 1 GRAIN
REDWOOD RETAINING WALL
B-8
SIGE
4' PLATFORM CLOSED
FIRST STREET
RAY STREET
VINEYARD AVENUE
VACANT
SCALES
JACKSON & PERKINS CO. ROSE GRADING & PACKING

N

APPROXIMATE SCALE (FEET)
0 60 120

SOURCE: Site plan by TRC, 2008 and Gettler-Ryan, August 2000.

SITE PLAN WITH 1943 SANBORN MAP

76 SERVICE STATION #7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C107376	JR	JH
DATE	REVIEWED BY	FILE NAME
02/09/09	JR	76-7376

DELTA®

LEGEND

- Approximate property line
- Fence
- Approximate location of underground petroleum pipeline (KinderMorgan)
- Approximate location of fiber optic utility line
- Former railroad right-of-way
- MW-12 Groundwater monitoring well
- MW-2 Abandoned well
- CP-1 CPT boring (Delta, February 2008)
- B-8 Soil Boring (Gettler-Ryan, 1998-1999)
- B-1 Soil Boring (ENGEO, 1997)
- EB-1 Soil Boring (KEI, 1995)
- B-1 Soil Boring (AGS, 1987)
- 1953 Sanborn Map Features

PLANTER
RESIDENTIAL
CRAIG COURT
MW-12
B-6
COLBY COURT
B-5
NO EXPOSURE
MW-11
MW-9
CALI COURT
CP-7
TESSA PLACE
CP-6
MW-8
B-4
MW-7
BENJAMIN COURT
MW-5
B-3
CP-5
BUILDING
WALKWAY
STORAGE BUILDING
MW-10
DRIVEWAY
SHED
JAY COURT
B-2
MW-6
B-12
B-13
MW-2B
B-11
B-4
MW-2
B-1
CP-1
CP-4
B-10
MW-3
B-3
UST
BOILER ROOM
DISPENSER ISLANDS
MW-1
SOUTHERN PACIFIC MAIN TRACK
B-9
KIOSK
FIRST STREET
B-1
REDWOOD RETAINING WALL
MW-4
CP-3
EB-1
HALL W. HO. NO. 1 GRAIN
CP-2
B-8
RAY STREET
VINEYARD AVENUE
SCALES
JACKSON & PERKINS CO. ROSE GRADING & PACKING

N

APPROXIMATE SCALE (FEET)
0 60 120

SOURCE: Site plan by TRC, 2008 and Gettler-Ryan, August 2000.

SITE PLAN WITH 1953 SANBORN MAP

76 SERVICE STATION #7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C107376	JR	JH
DATE	REVIEWED BY	FILE NAME
02/09/09	JR	76-7376

DELTA®

LEGEND

- Approximate property line
- Fence
- Approximate location of underground petroleum pipeline (KinderMorgan)
- Approximate location of fiber optic utility line
- Former railroad right-of-way
- MW-12 Groundwater monitoring well
- MW-2 Abandoned well
- CP-1 CPT boring (Delta, February 2008)
- B-8 Soil Boring (Gettler-Ryan, 1998-1999)
- B-1 Soil Boring (ENGEO, 1997)
- EB-1 Soil Boring (KEI, 1995)

PLANTER
RESIDENTIAL
CRAIG COURT
MW-12
B-6
COLBY COURT
B-5
MW-11
CALI COURT
MW-9
TESSA PLACE
CP-7
CP-6
MW-8
B-4
MW-7
BENJAMIN COURT
MW-5
B-3
CP-5
BUILDING
WALKWAY
STORAGE BUILDING
MW-10
DRIVEWAY
JAY COURT
B-2
MW-6
B-12
B-13
MW-2B
B-11
MW-2
CP-4
CP-1
B-10
MW-3
UST
MW-1
DISPENSER ISLANDS
B-9
KIOSK
MW-4
EB-1
CP-2
CP-3
B-8
REDWOOD RETAINING WALL
B-1
FIRST STREET
RAY STREET
VINEYARD AVENUE
N

APPROXIMATE SCALE (FEET)
0 60 120

SOURCE: Site plan by TRC, 2008 and Gettler-Ryan, August 2000.

FIGURE 3
SITE PLAN WITH HISTORIC BORING LOCATIONS

76 SERVICE STATION #7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C107376	AB	JH
DATE	REVIEWED BY	FILE NAME
06/30/09	JR	76-7376

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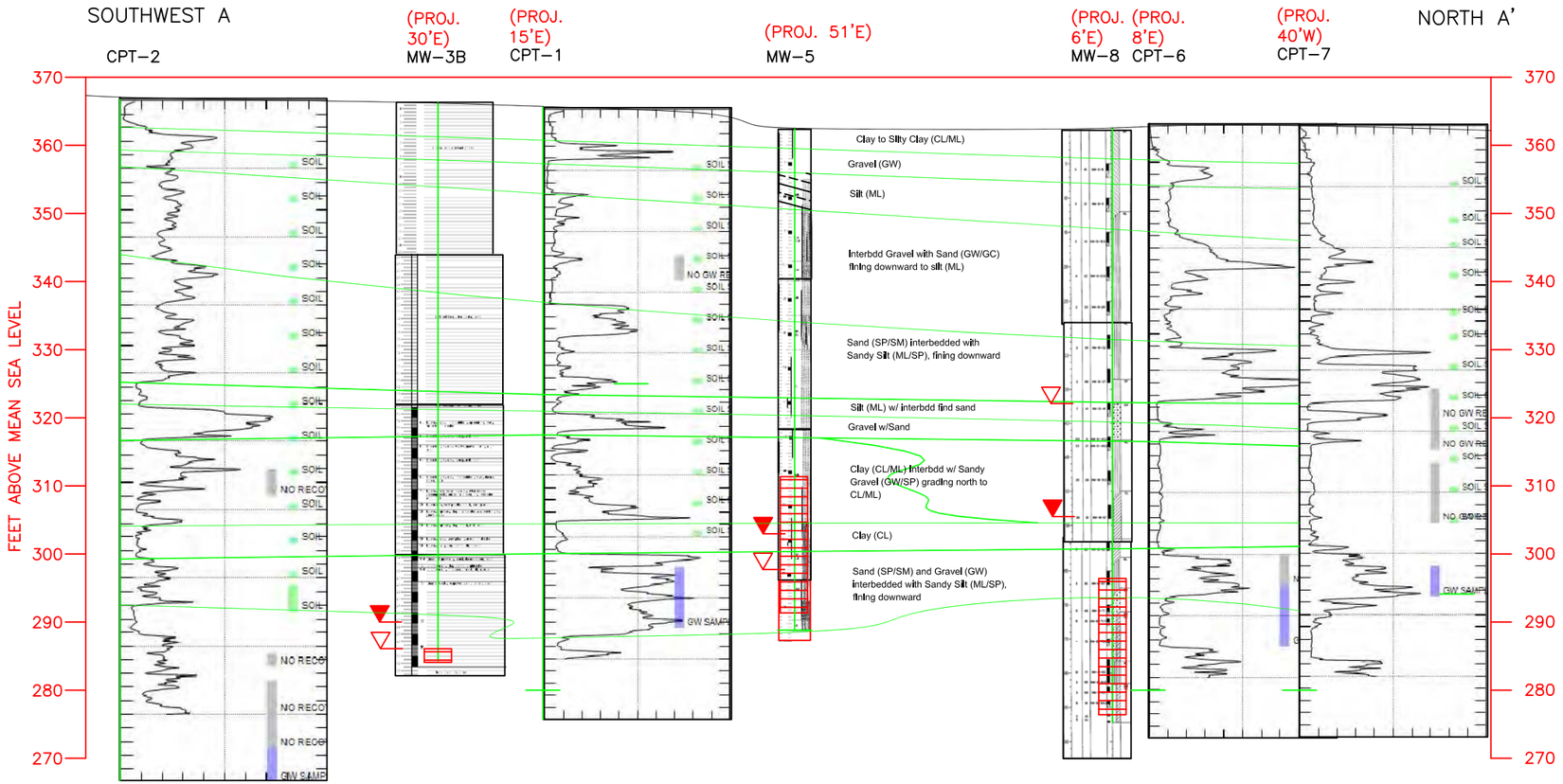
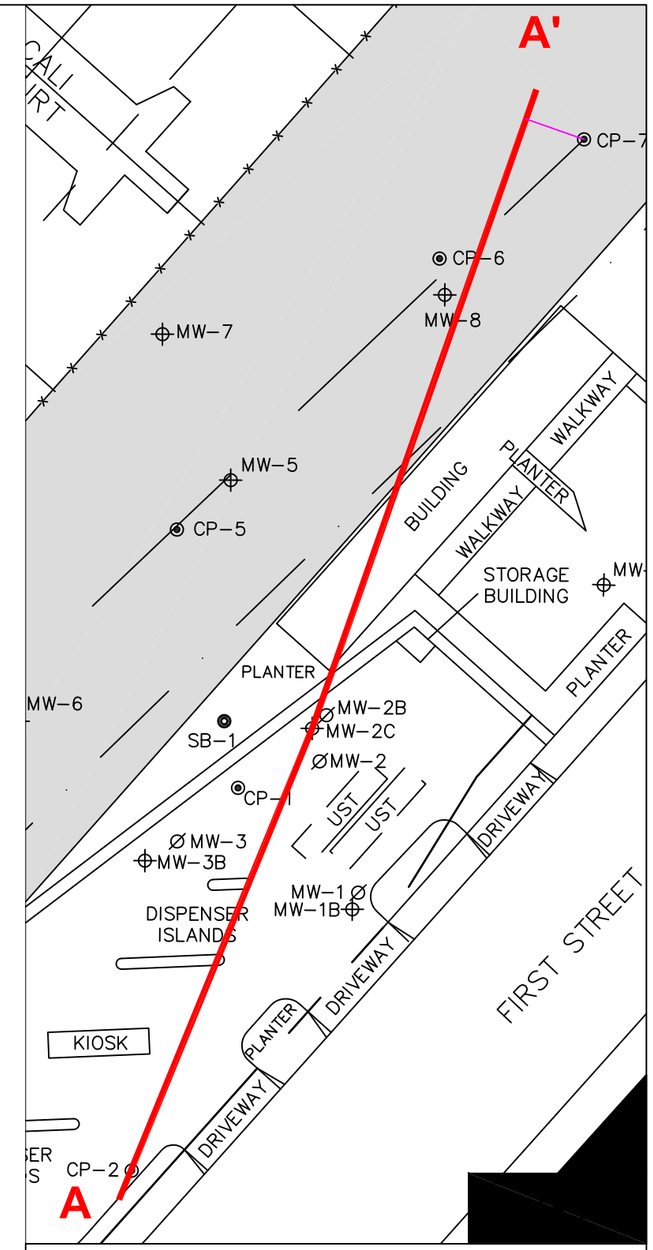
APPENDIX C

Historic Geologic Figures





LEGEND

MW–9 MONITORING WELL/BORING NAME

WELL CASING/EXPLORATORY BORING

SOIL SAMPLE LOCATION

WELL SCREEN

DEPTH TO FIRST ENCOUNTERED GROUNDWATER

DEPTH TO STATIC GROUNDWATER

APPROXIMATE STRATIGRAPHIC BOUNDARY

0 20 40
SCALE IN FEET

NOTES:

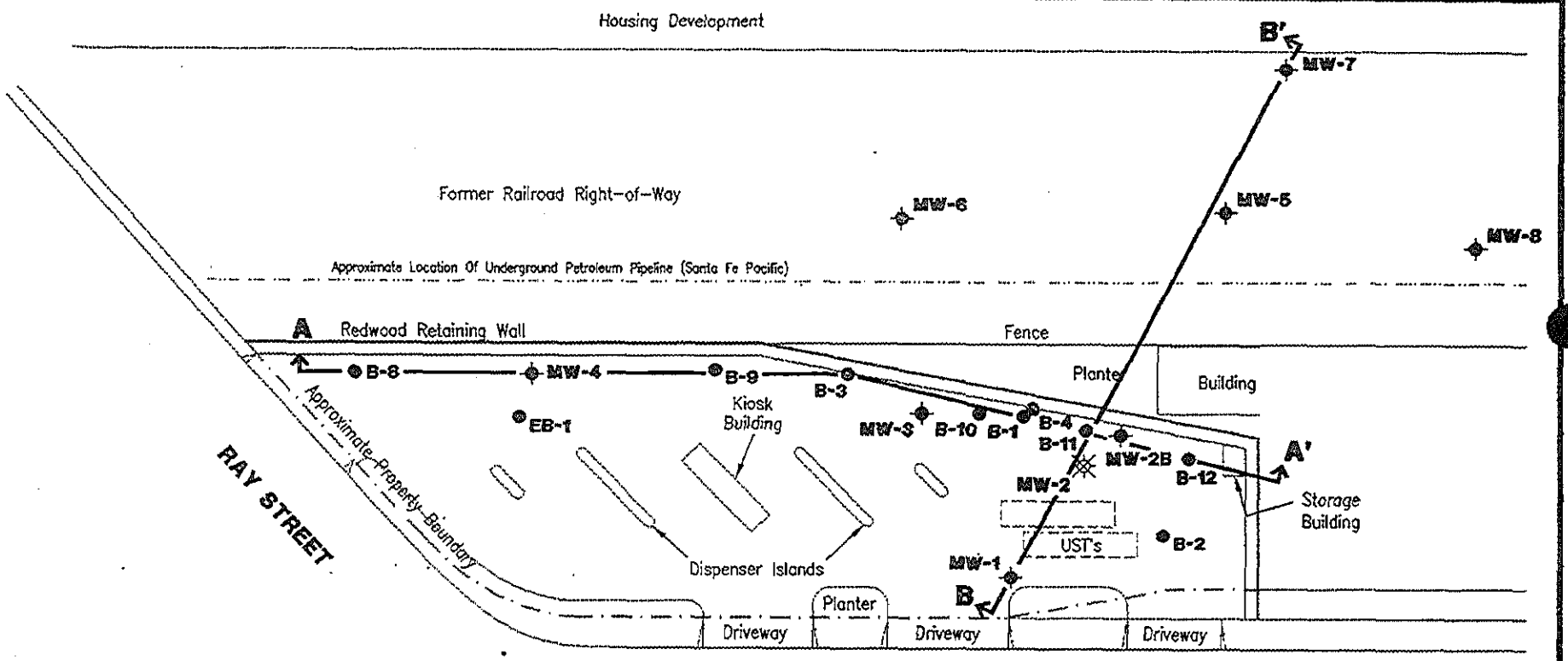
1) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.

FIGURE 4
GEOLOGIC CROSS SECTION A–A'

76 SERVICE STATION #7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C107376	JR	JH
DATE	REVIEWED BY	FILE NAME
07/06/09	JR	76–7376

DELTA®



Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

SITE PLAN
Tosco 76 Branded Facility No. 7376
4191 First Street
Pleasanton, California

FIGURE
2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
140107.02		September, 1998	02/99

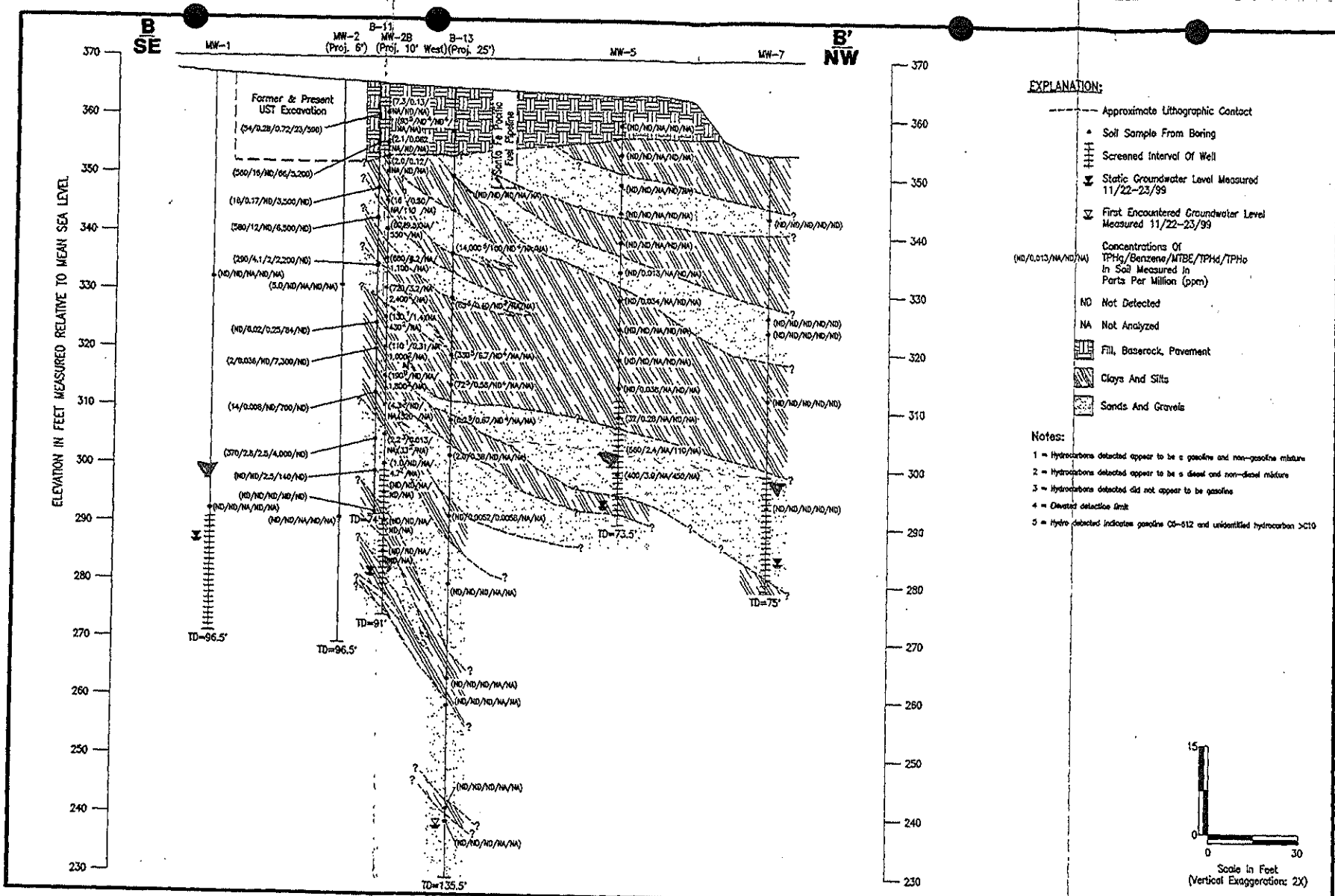


FIGURE 4

GENERALIZED GEOLOGIC CROSS-SECTION B-B'
Tosco (Unocal) Service Station No. 7376
4191 1st Street
Pleasanton, California

REVISED DATE 5/00
DATE 10/98

Gettler - Ryan Inc.
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JOB NUMBER 140107.04
REVIEWED BY

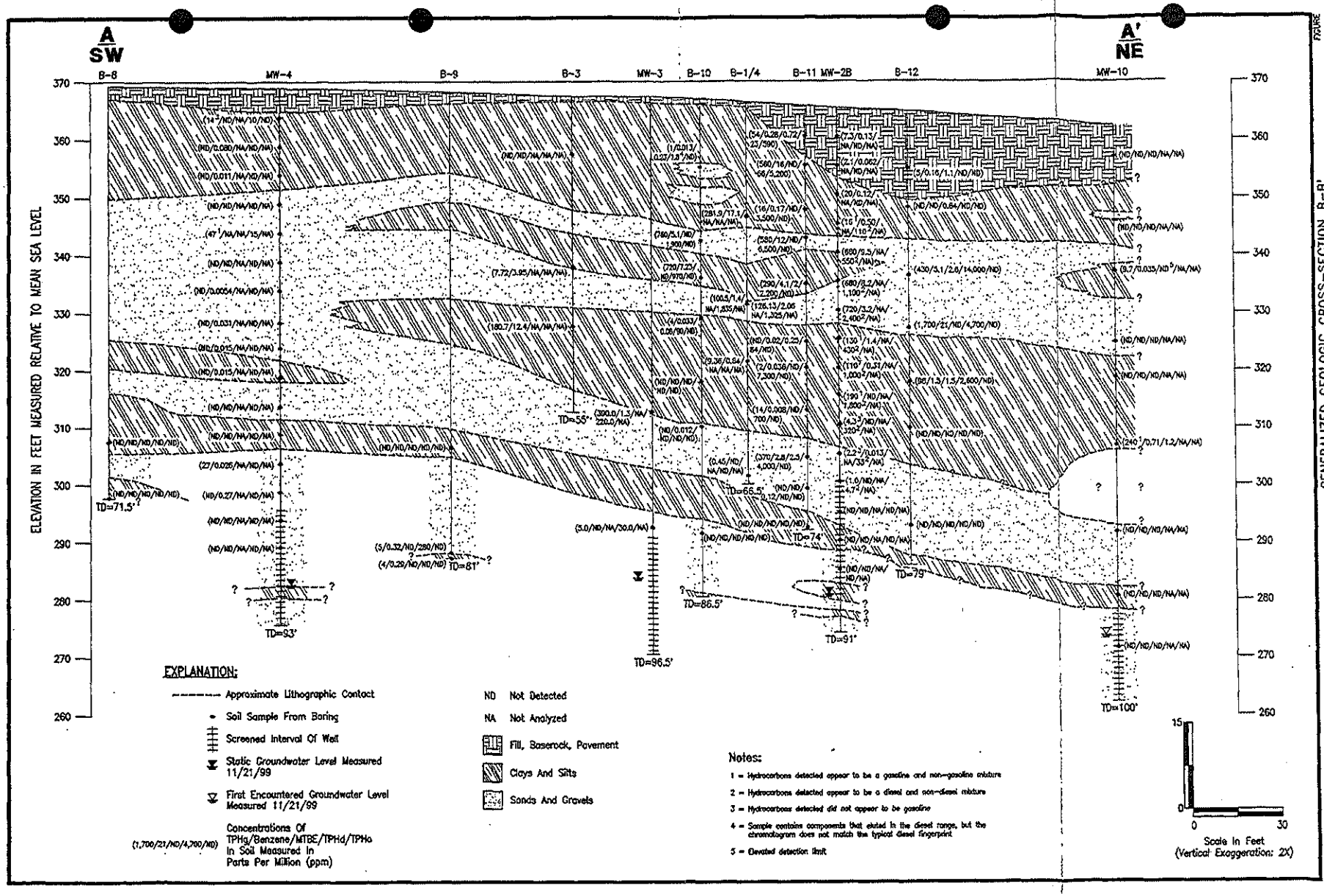
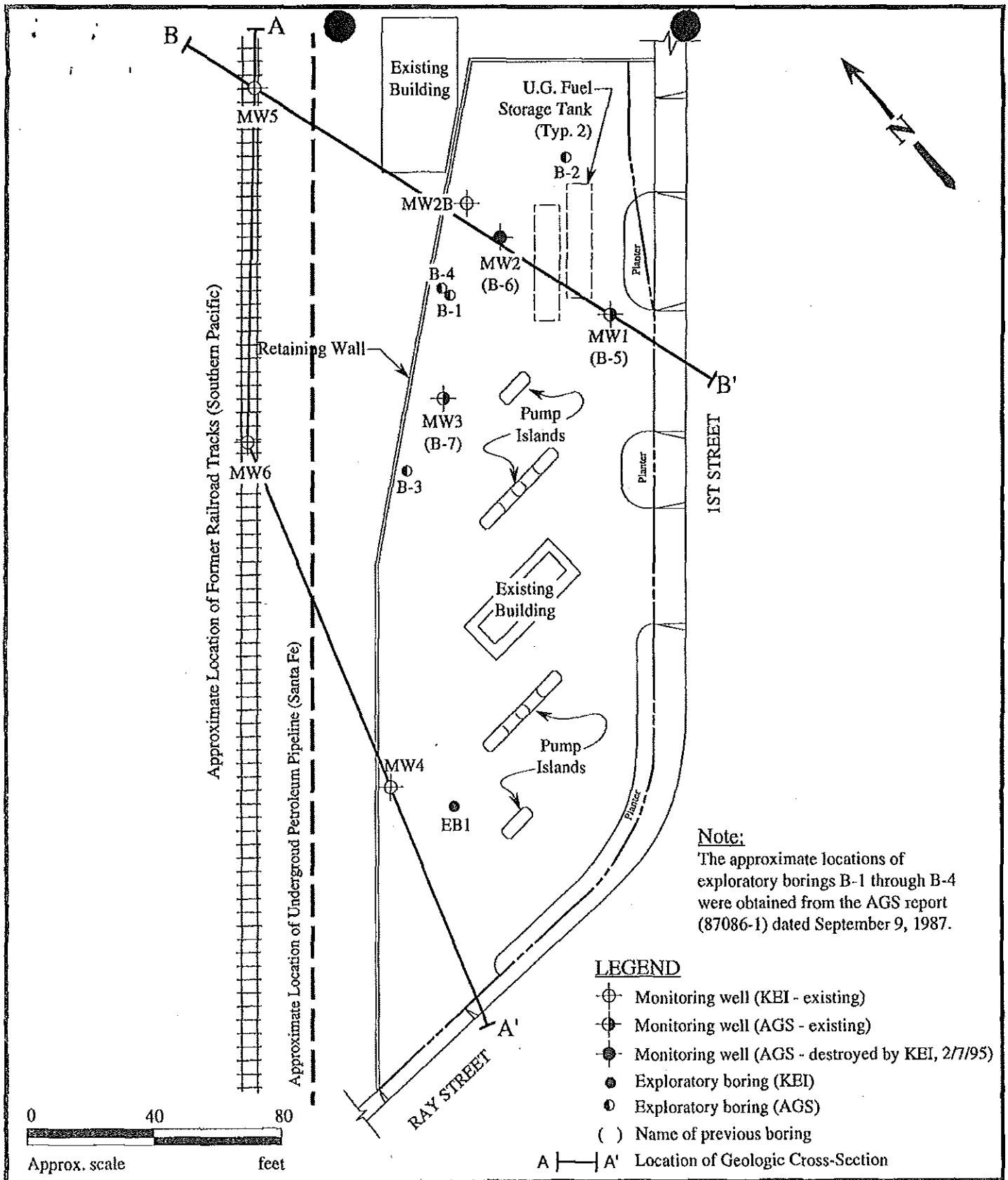


FIGURE 3

GENERALIZED GEOLOGIC CROSS-SECTION B-B'
Tosco (Unocal) Service Station No. 7376
4191 1st Street
Pleasanton, California

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

JOB NUMBER 140107.04
REVIEWED BY
DATE 10/98
REVISED DATE 5/00

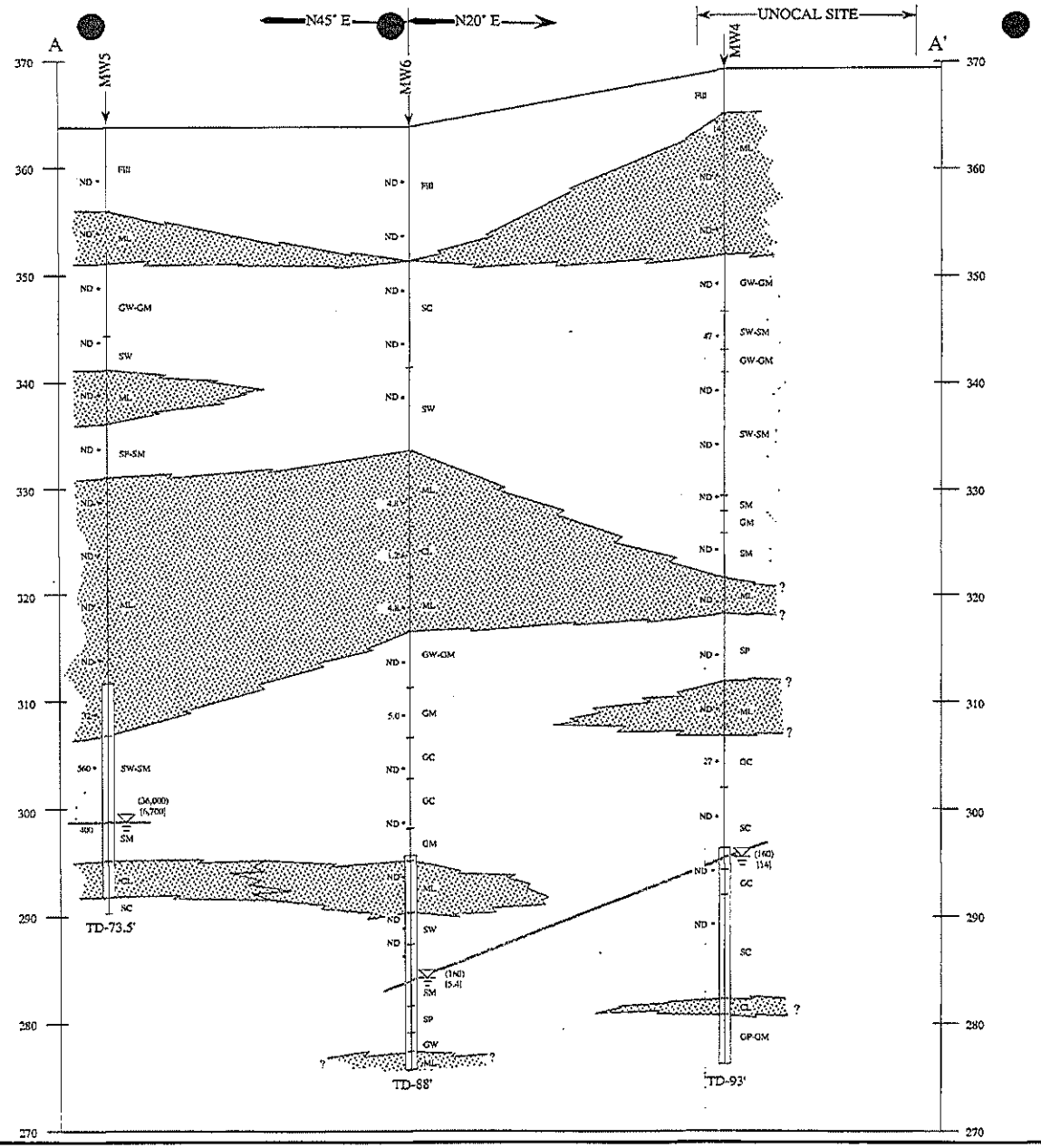


GEOLOGIC CROSS-SECTION LOCATION MAP

KAPREALIAN ENGINEERING
INCORPORATED

UNOCAL SERVICE STATION #7376
4191 1ST STREET
PLEASANTON, CALIFORNIA

FIGURE
4



LEGEND

Soil classification symbols per USCS

- Ground water level on 9/18/96
- Screened interval of well
- ND — Non-detectable
- ( ) — Concentration of TPH as gasoline (µg/L) in ground water sample collected on 9/18/96
- [ ] — Concentration of benzene (µg/L) in ground water sample collected on 9/18/96
- Concentration of TPH as gasoline (mg/kg) in soil sample collected at depth shown
- ? — Geologic contact, queried where uncertain.
- Predominantly silt and or clay
- Predominantly sand and gravel

0 40 80

Approx. horizontal scale feet

0 10 20

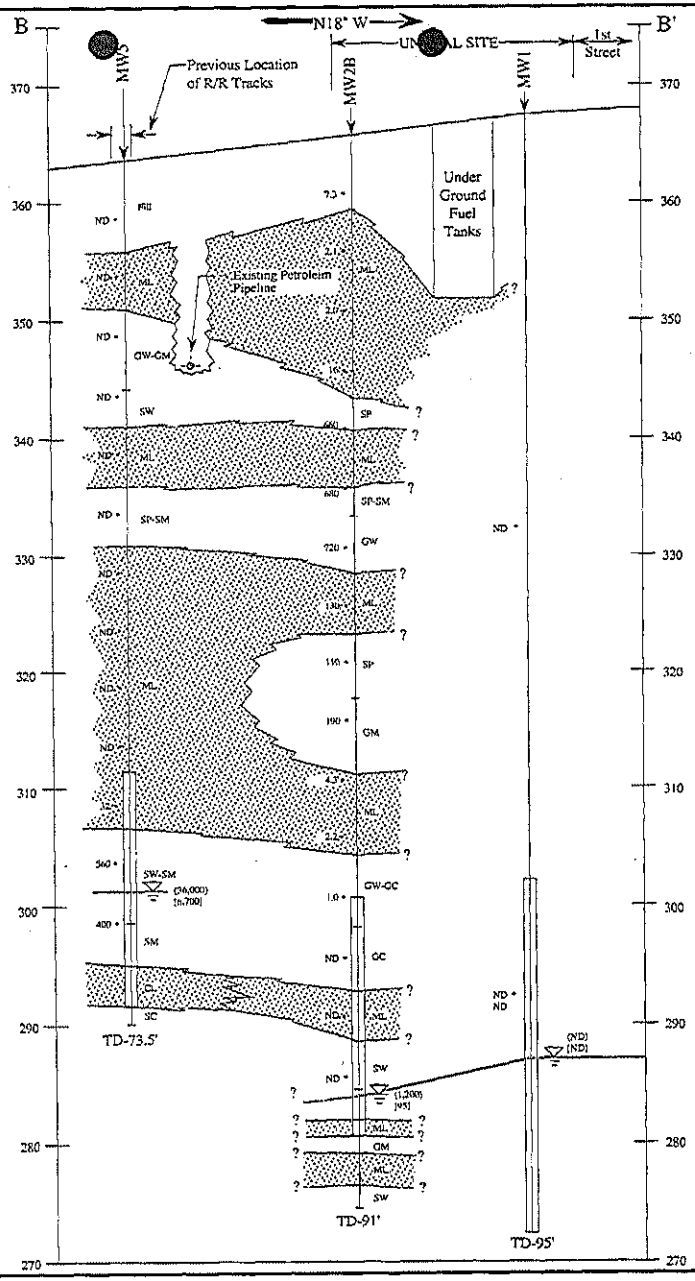
Approx. vertical scale feet

GEOLOGIC CROSS SECTION A-A'

UNOCAL SERVICE STATION #7376
4191 1ST STREET
PLEASANTON, CALIFORNIA

KAPREALIAN ENGINEERING
INCORPORATED

FIGURE
5



LEGEND

Soil classification symbols per USCS

- Ground water level on 9/18/96
- Screened interval of well
- ND Non-detectable
- ( ) Concentration of TPH as gasoline (µg/L) in ground water sample collected on 9/18/96
- [ ] Concentration of benzene (µg/L) in ground water sample collected on 9/18/96
- Concentration of TPH as gasoline (mg/kg) in soil sample collected at depth shown
- Geologic contact, queried where uncertain.
- Predominantly silt and or clay
- Predominantly sand and gravel

Notes:

Lithologic data for MW1 not available.

0 40 80

Approx. horizontal scale feet

0 10 20

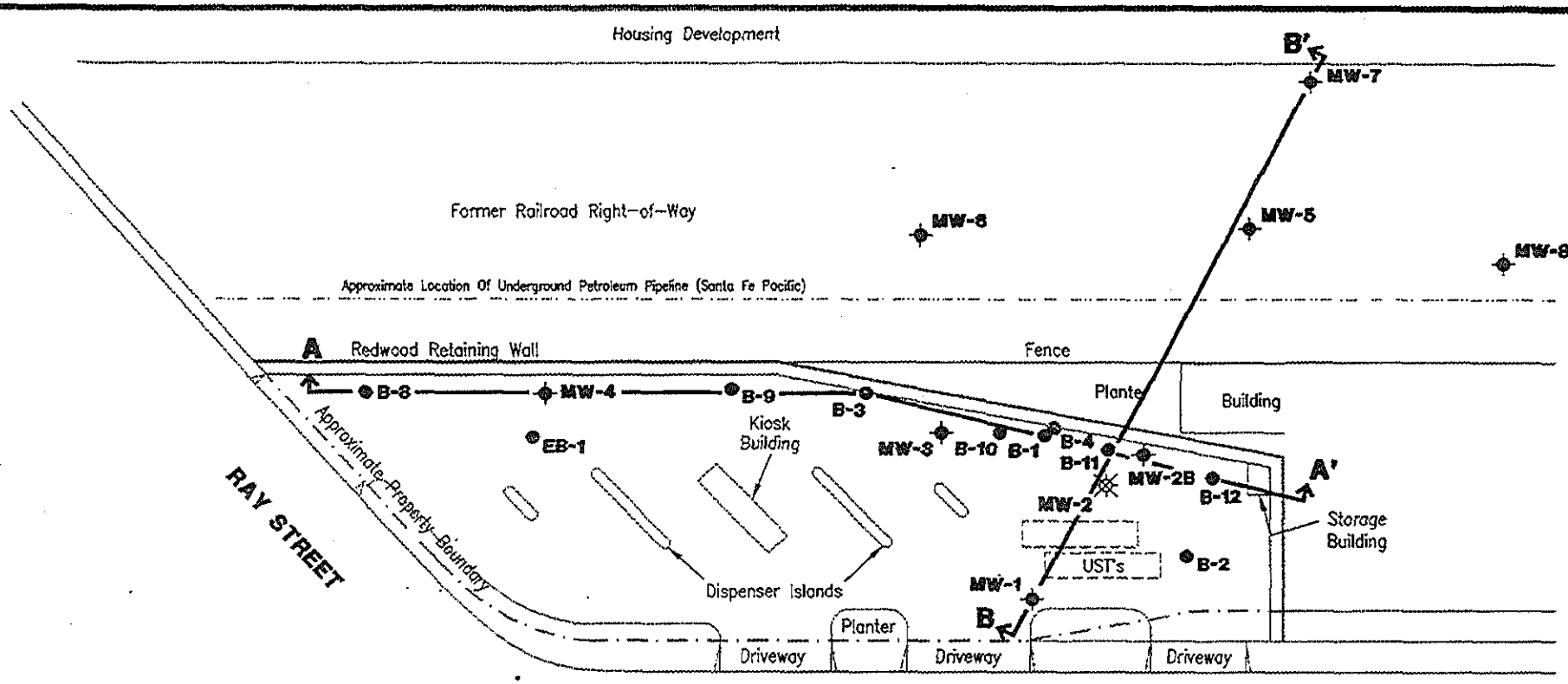
Approx. vertical scale feet

GEOLOGIC CROSS SECTION B-B'

UNOCAL SERVICE STATION #7376
4191 1ST STREET
PLEASANTON, CALIFORNIA

KAPREALIAN ENGINEERING INCORPORATED

FIGURE 6



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SITE PLAN
Tosco 76 Branded Facility No. 7376
4191 First Street
Pleasanton, California

FIGURE
2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
140107.02		September, 1998	02/99

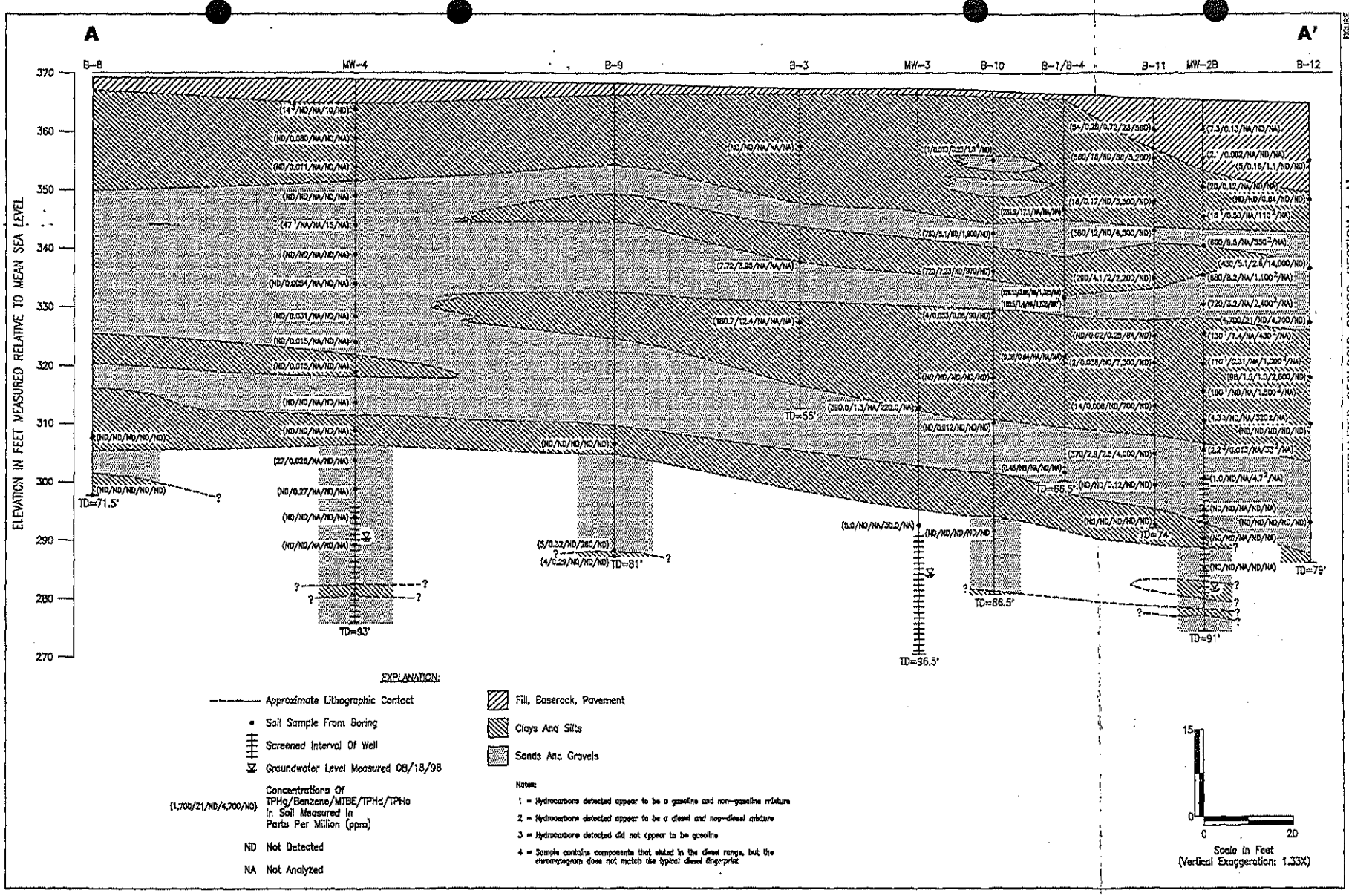

FIGURE 3

GENERALIZED GEOLOGIC CROSS-SECTION A-A'
Unocal Service Station No. 7376
4191 1st Street
Pleasanton, California

DATE 10/98
REVISED DATE 03/99

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JOB NUMBER 140107
REVIEWED BY

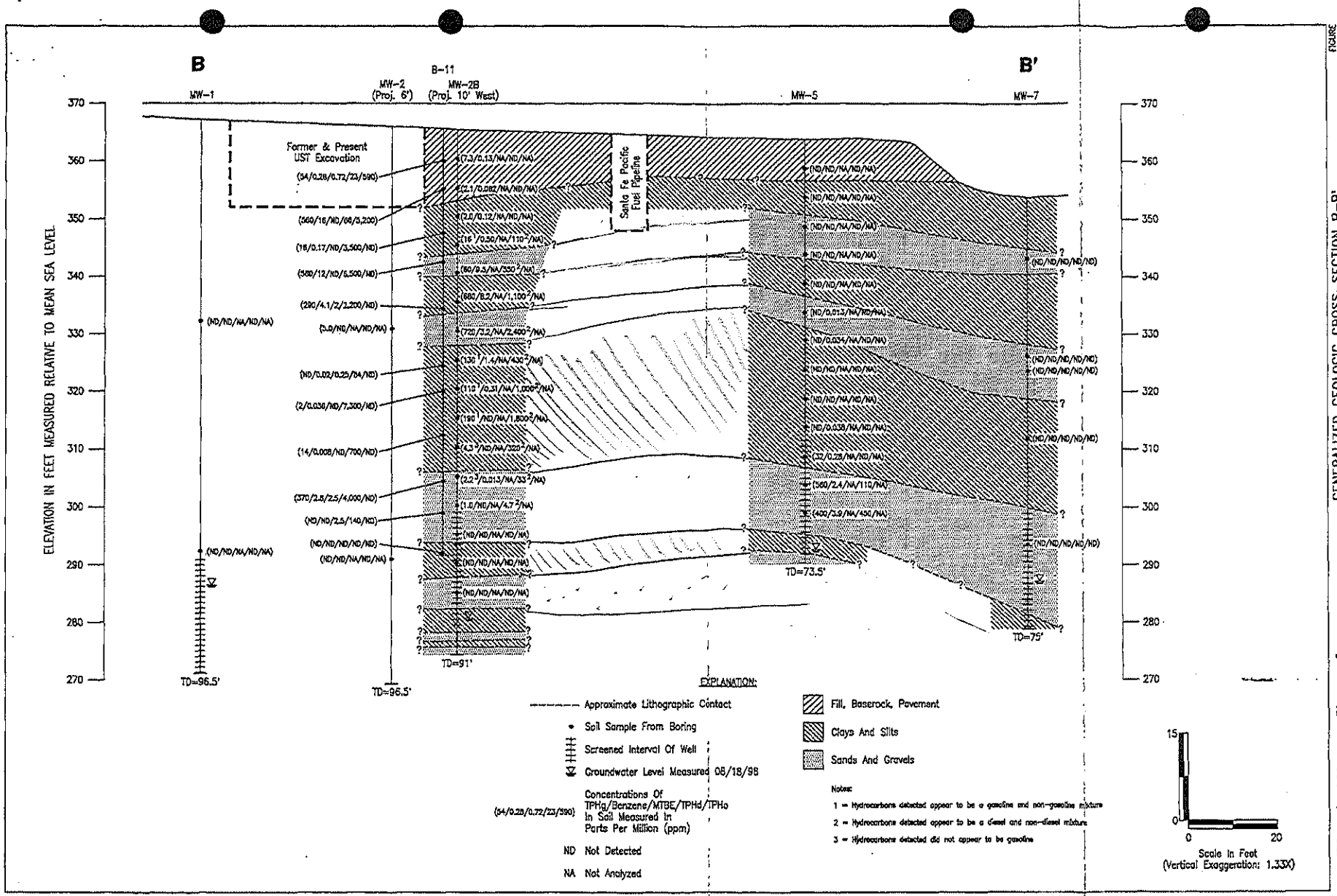

FIGURE 4

GENERALIZED GEOLOGIC CROSS-SECTION B-B'
Unocal Service Station No. 7376
4191 1st Street
Pleasanton, California

DATE 10/98
REVISED DATE 03/99

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J
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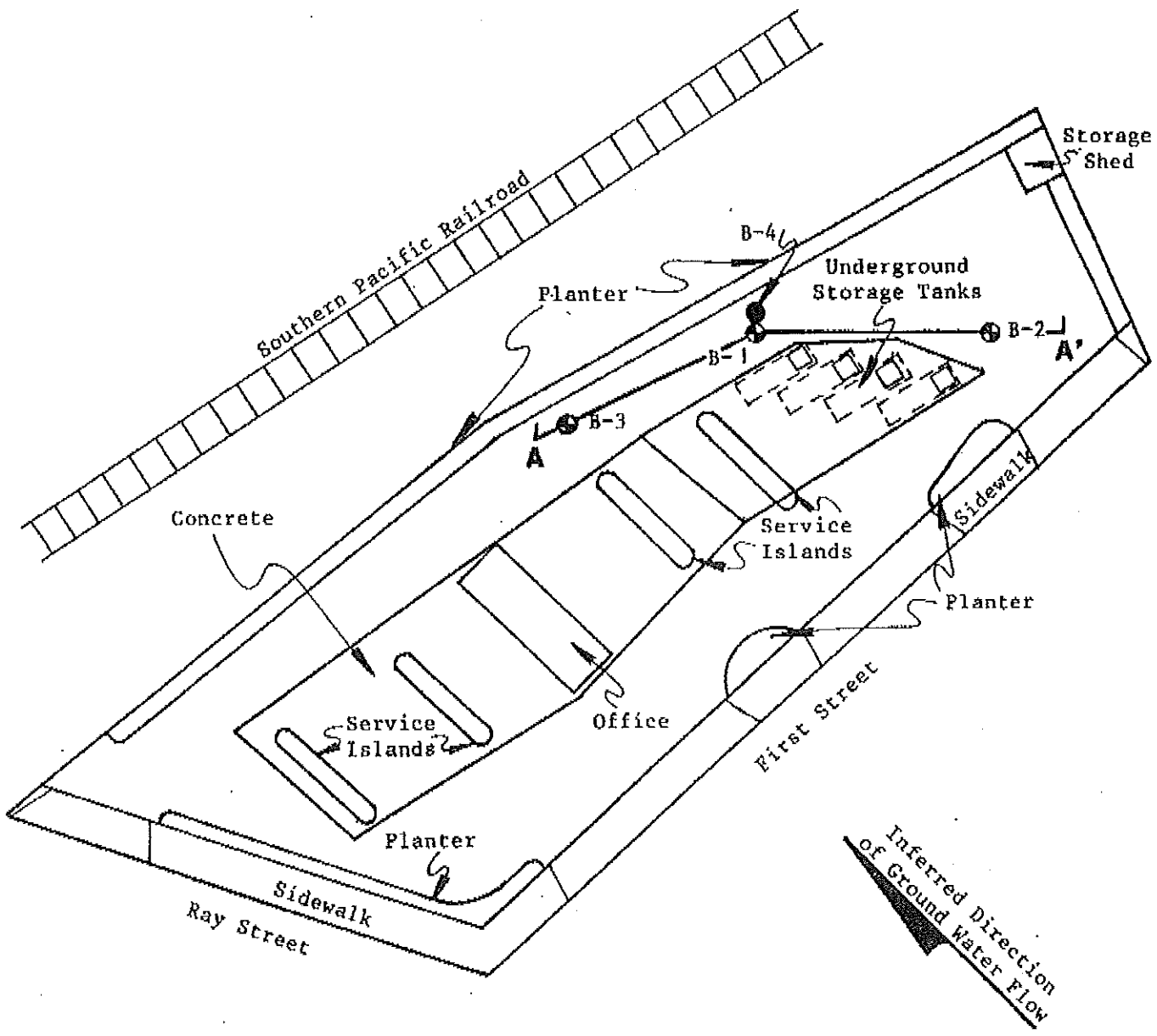
(510) 551-7555

JOB NUMBER 140107
REVIEWED BY



Soil Boring Location

Previous Soil Boring Location

A — A' Cross section

Approximate Scale

40 0 40 80

feet

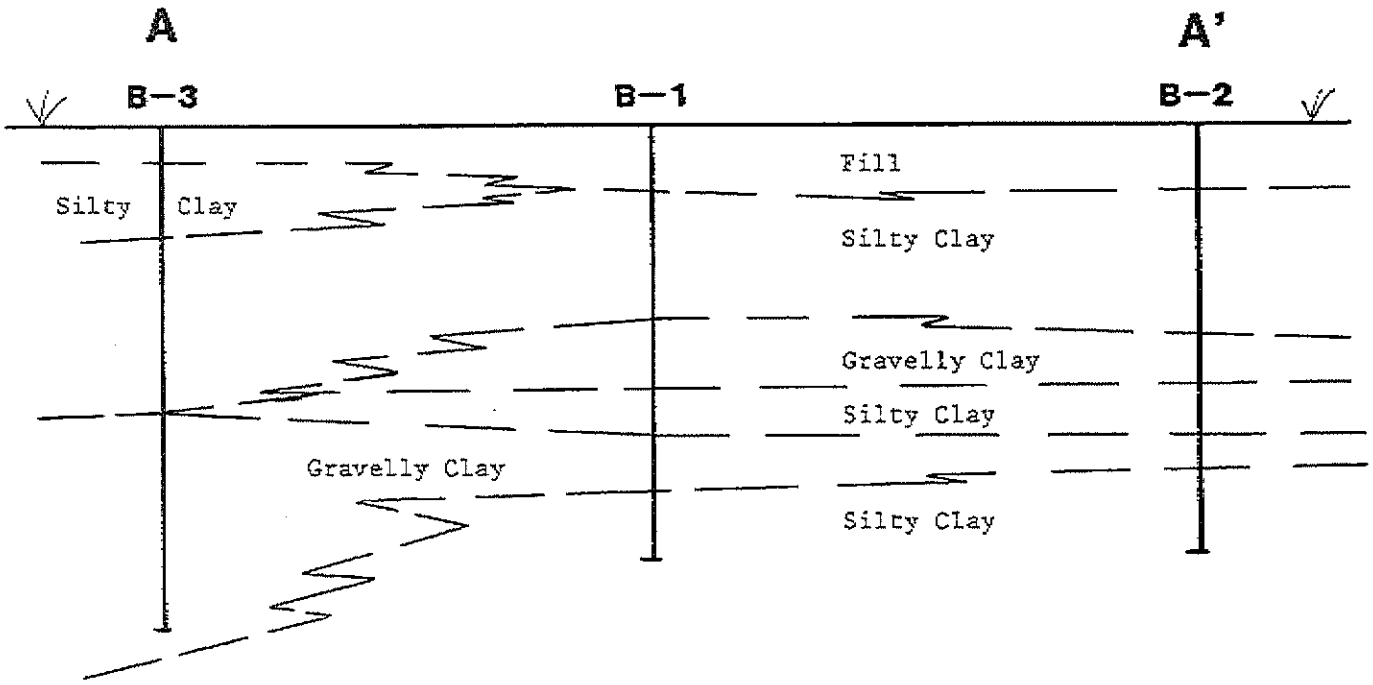
Applied GeoSystems

PROJECT NO. AGS 87086-1

GENERALIZED SITE PLAN
Arco Station
First and Ray Street
Pleasanton, California

PLATE

P-2

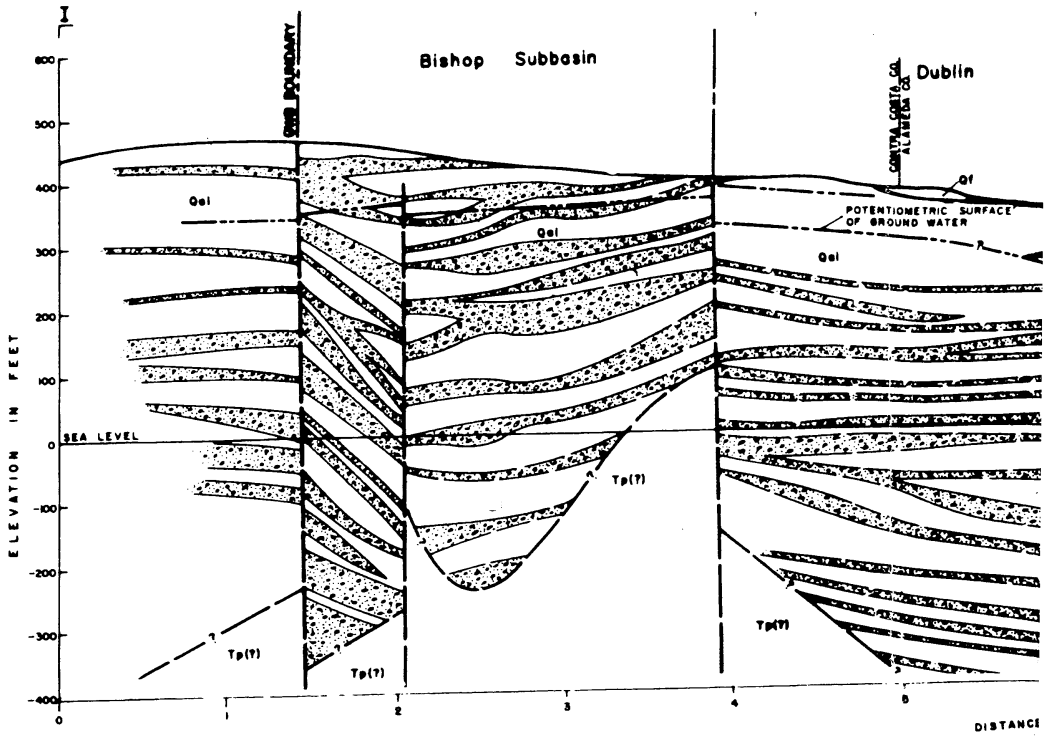


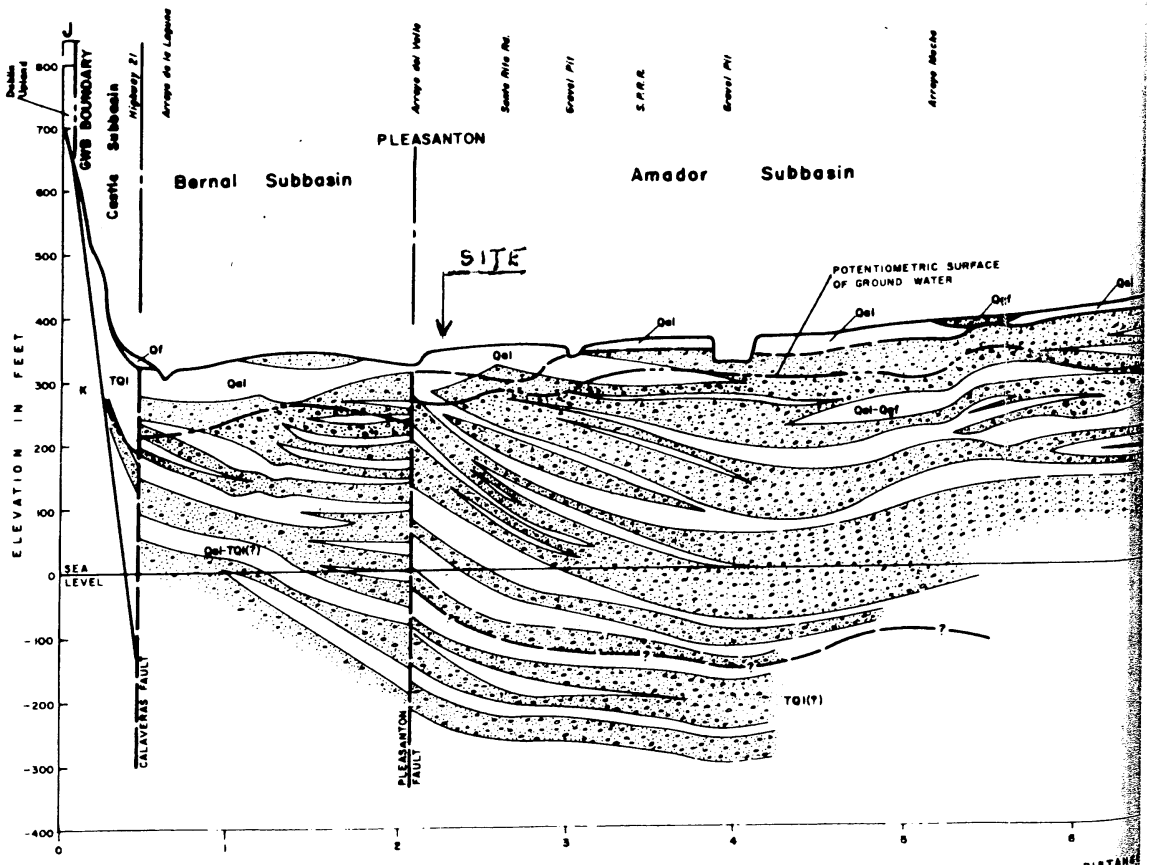
Approximate Scale
Horizontal and Vertical

20 0 20 40

feet

PLATE		
P-10	CROSS SECTION A - A' Arco Station First and Ray Street Pleasanton, California	Applied GeoSystems **PROJECT NO.** AGS 87065-1





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

GEOLOGIC SECTIONS

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.

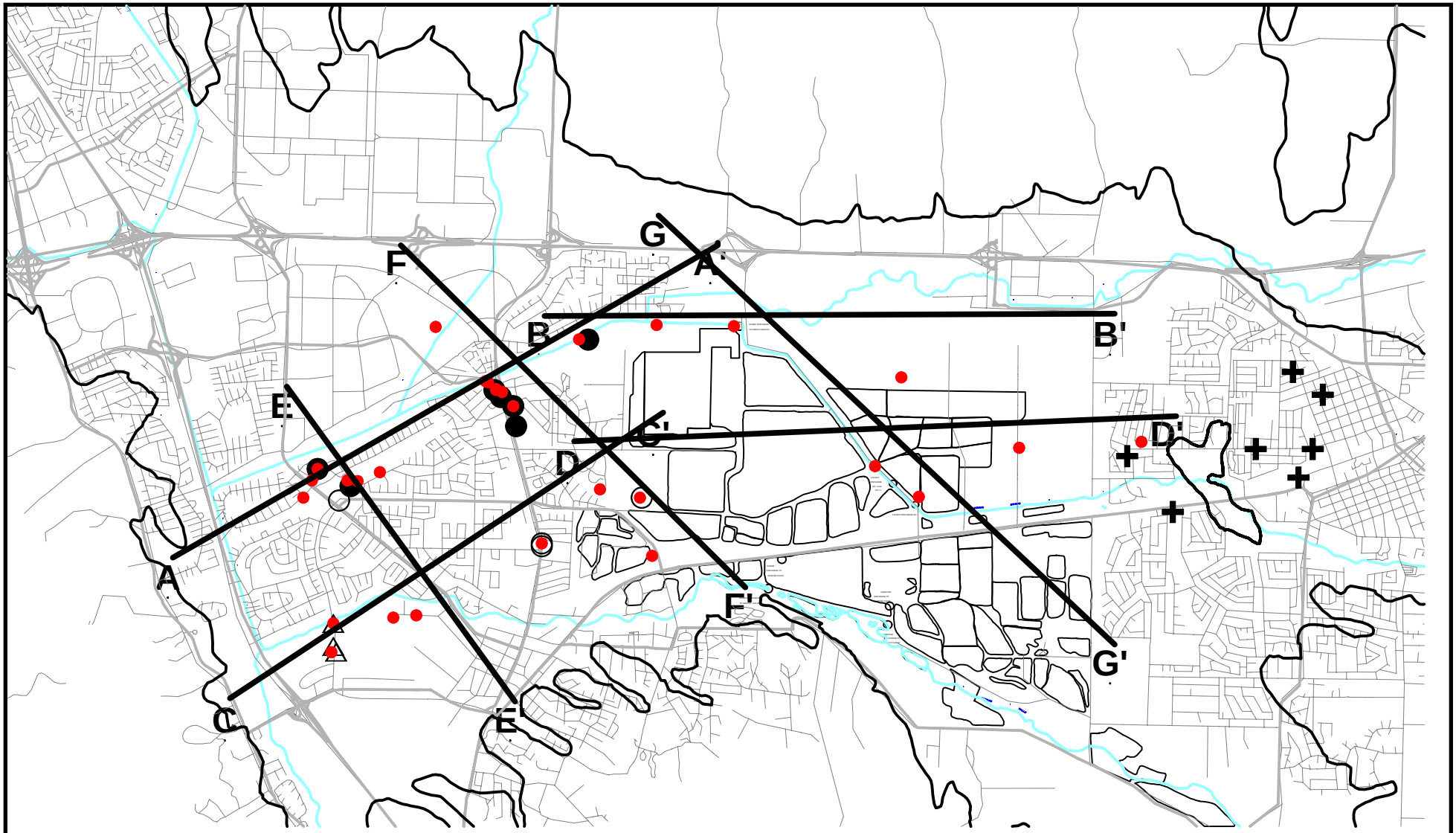
Qm MERRITT SAND -- Loose, fine-grained, very well sorted beach and wind-blown sand at Alameda Island and adjacent bay margin near Oakland (Lawson, 1914).

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.

SITE



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

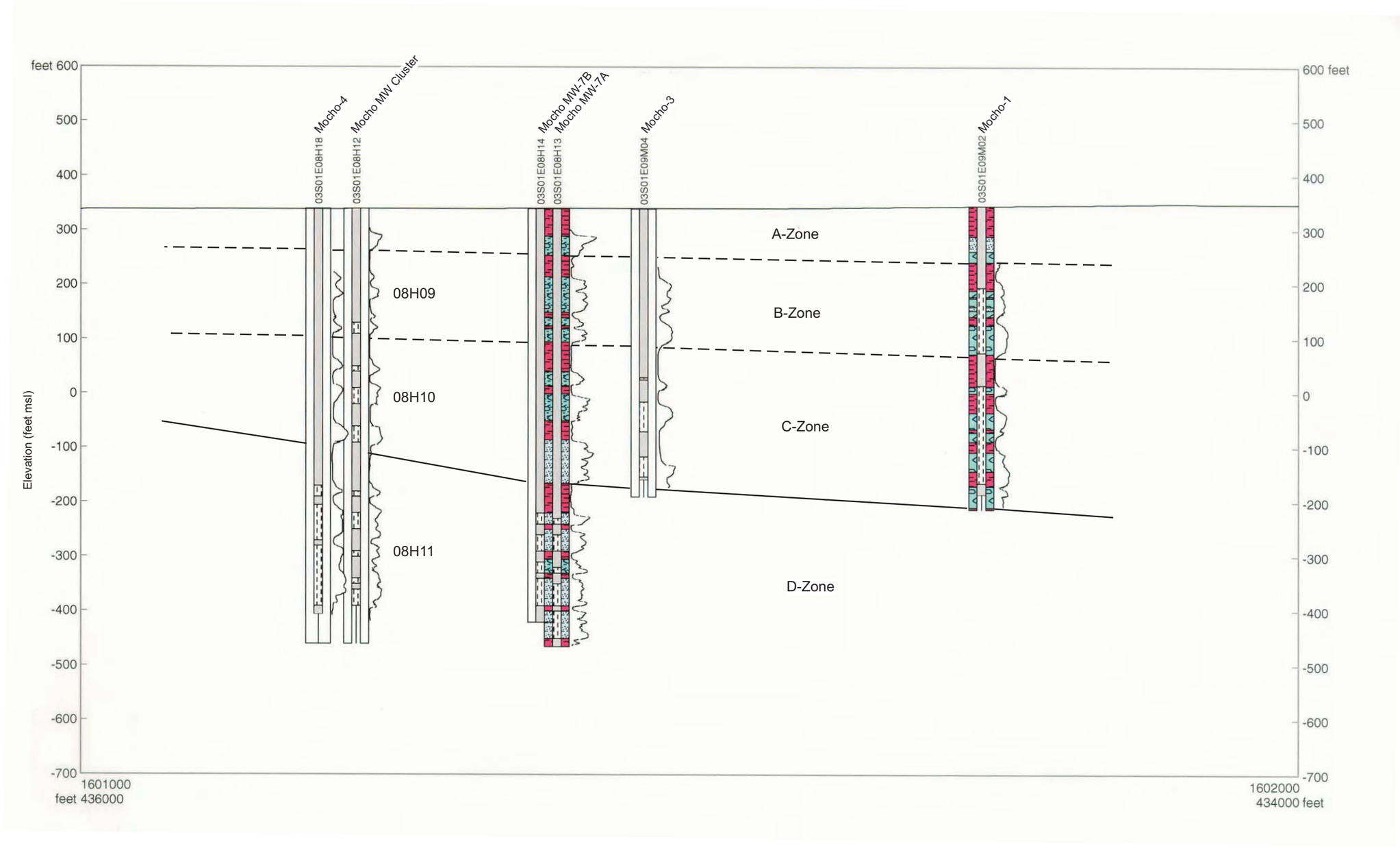


FIGURE 1.1-2
CROSS-SECTION MOCHO WELLFIELD
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

CH2MHILL

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

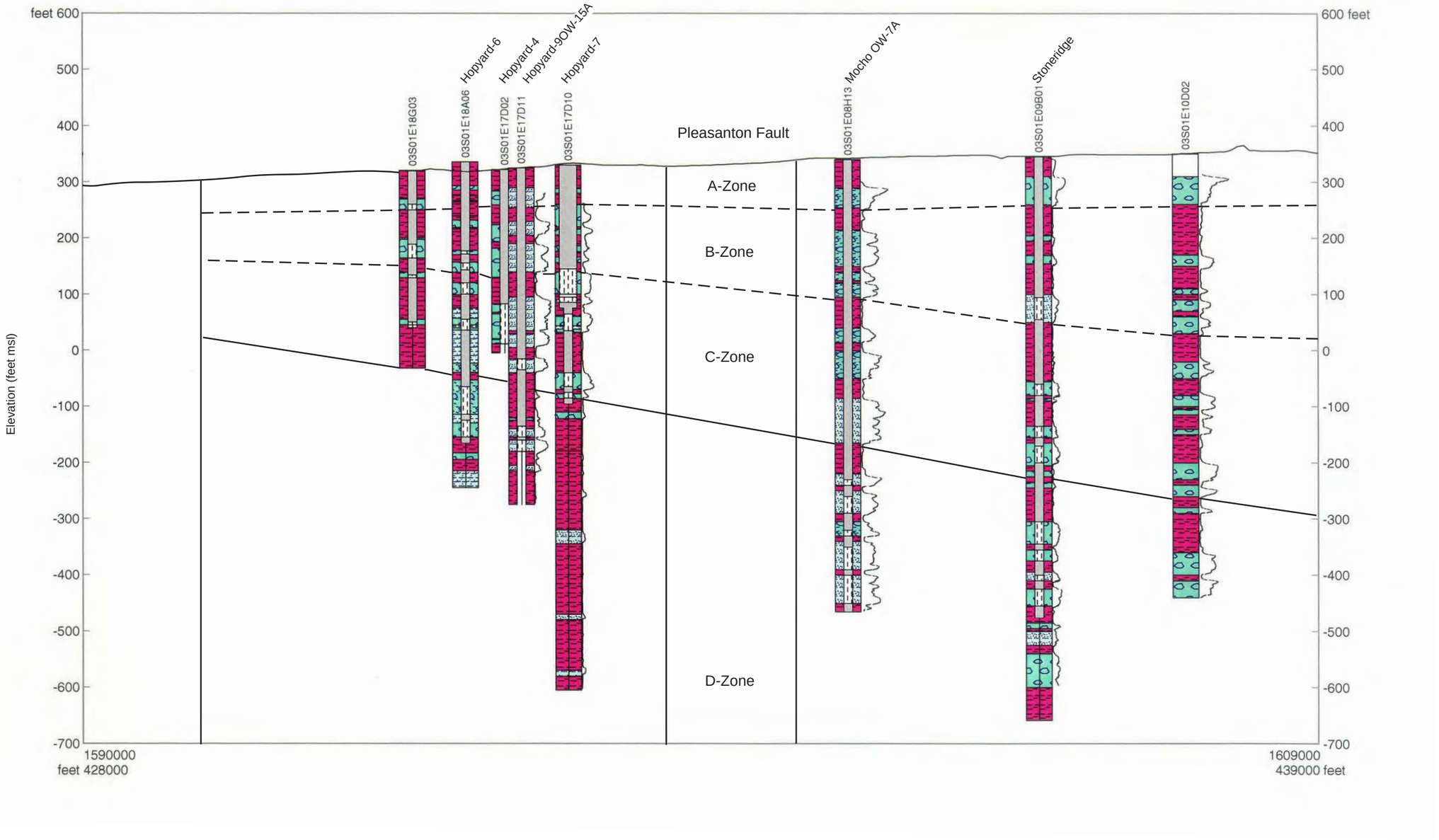


FIGURE 1.1-3
CROSS-SECTION A-A'
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

CH2MHILL

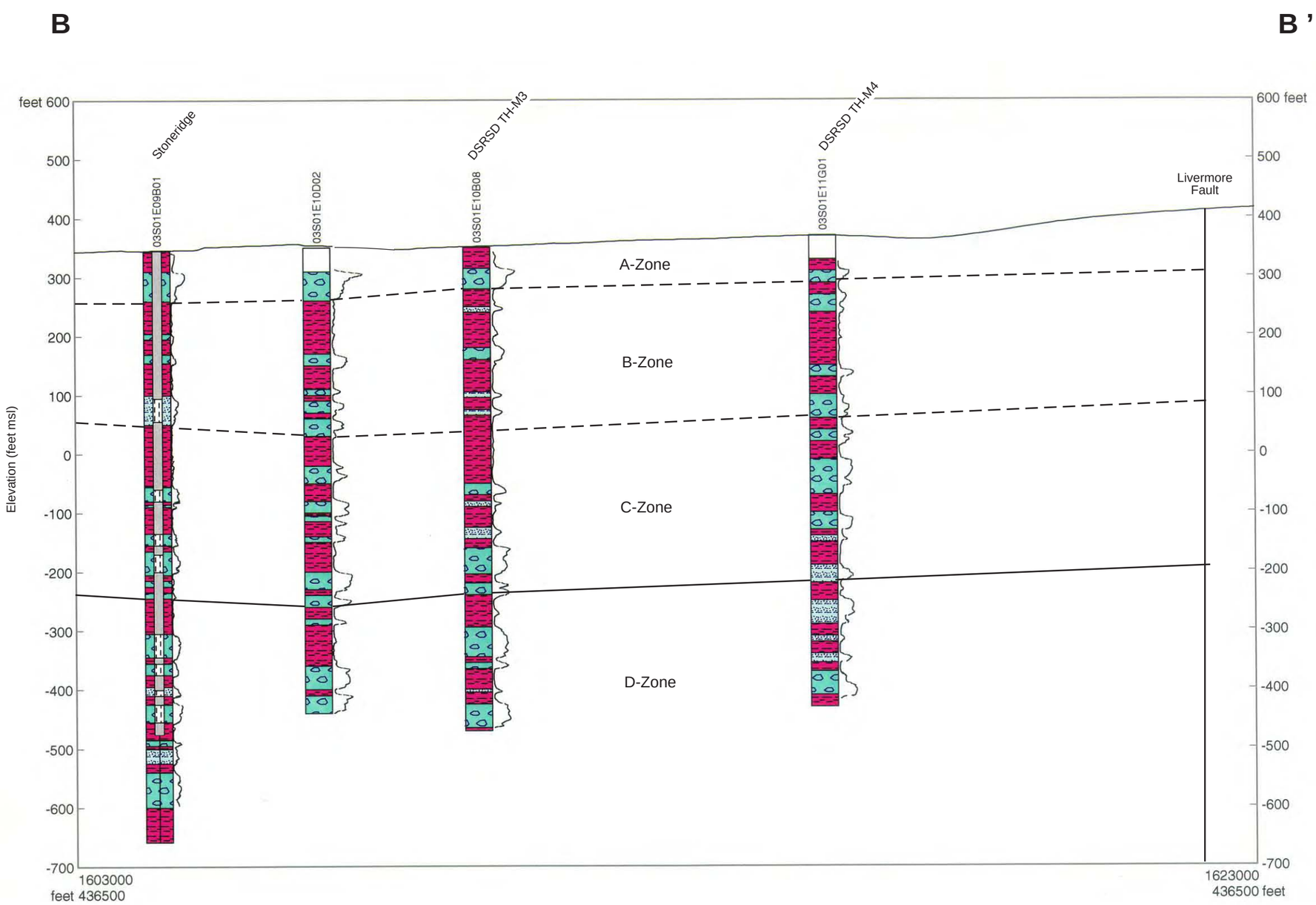


FIGURE 1.1-4
CROSS-SECTION B-B’
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

CH2MHILL

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

C

C’

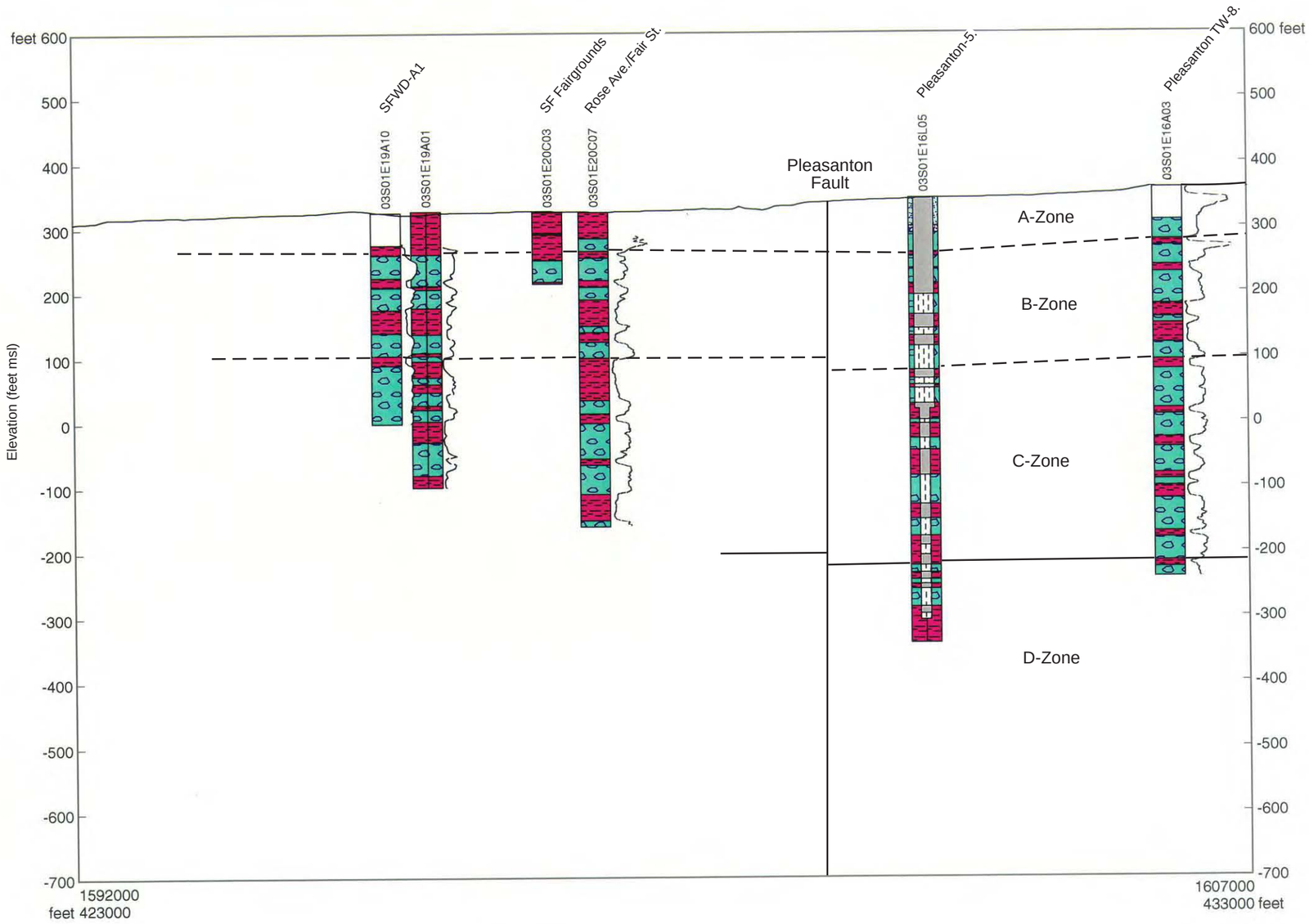


FIGURE 1.1-5
CROSS-SECTION C-C’
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

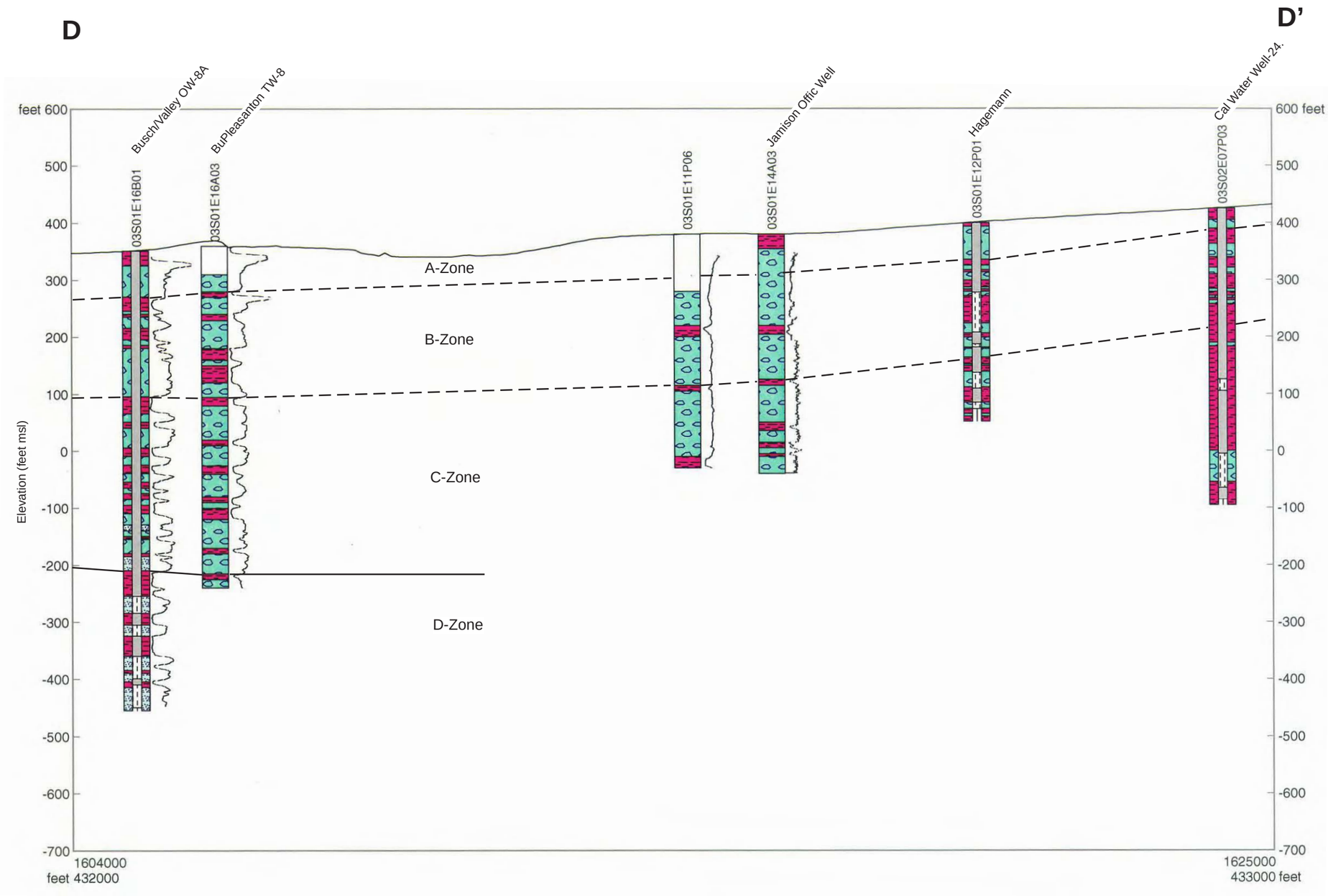


FIGURE 1.1-6
CROSS-SECTION D-D'
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

CH2MHILL

E

E’

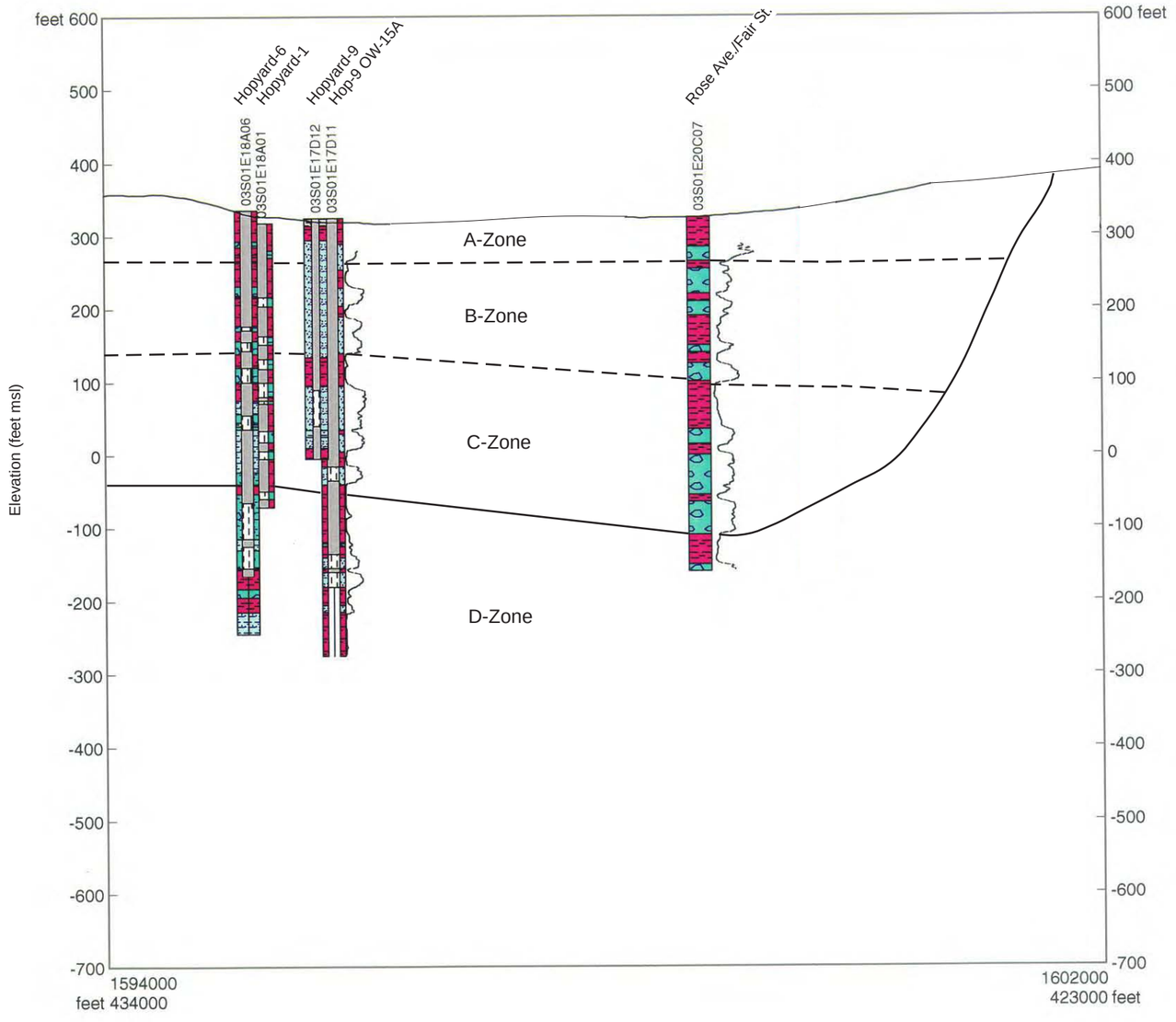


FIGURE 1.1-7
CROSS-SECTION E-E’
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

CH2MHILL

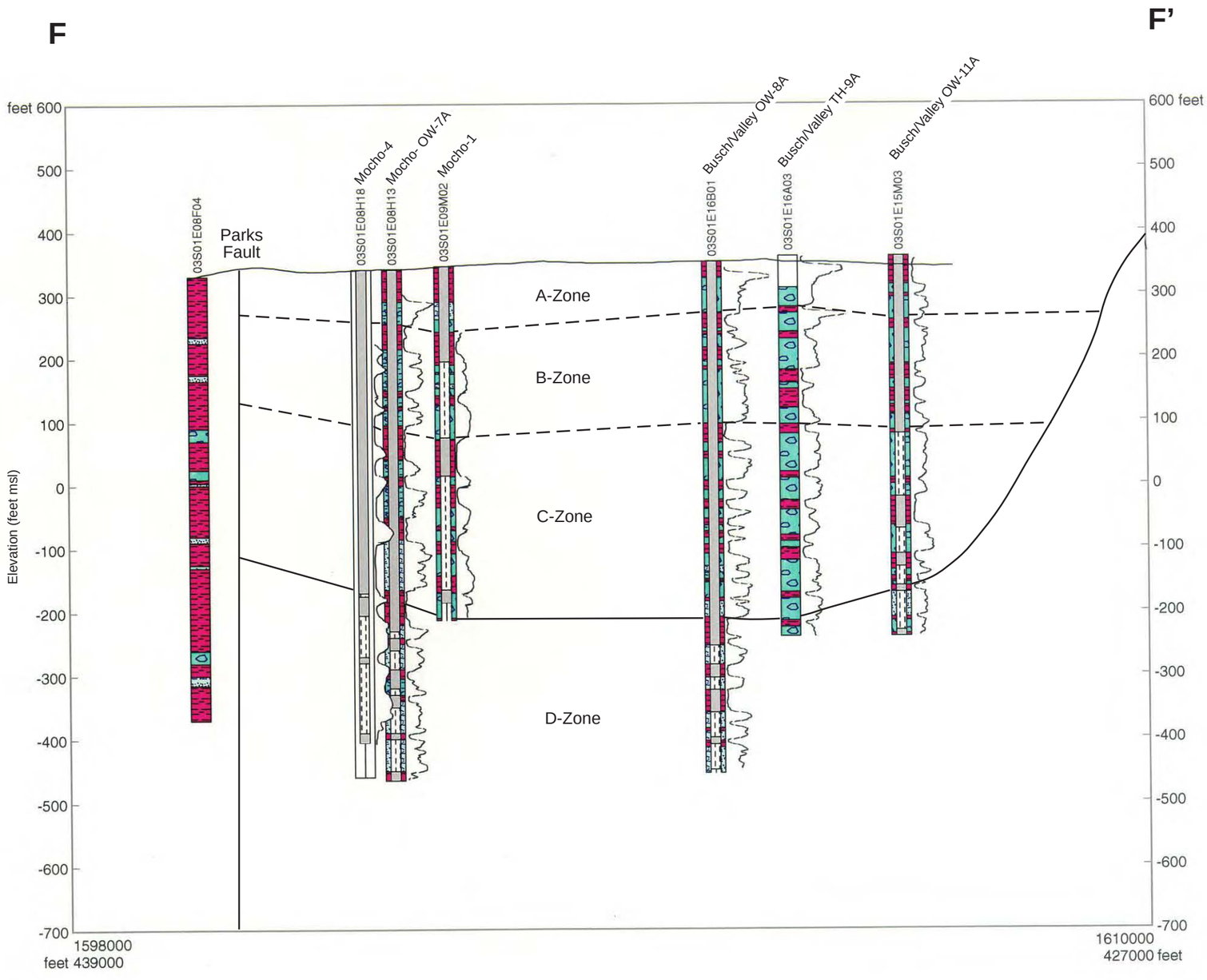


FIGURE 1.1-8
CROSS-SECTION F-F'
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

CH2MHILL

G

G’

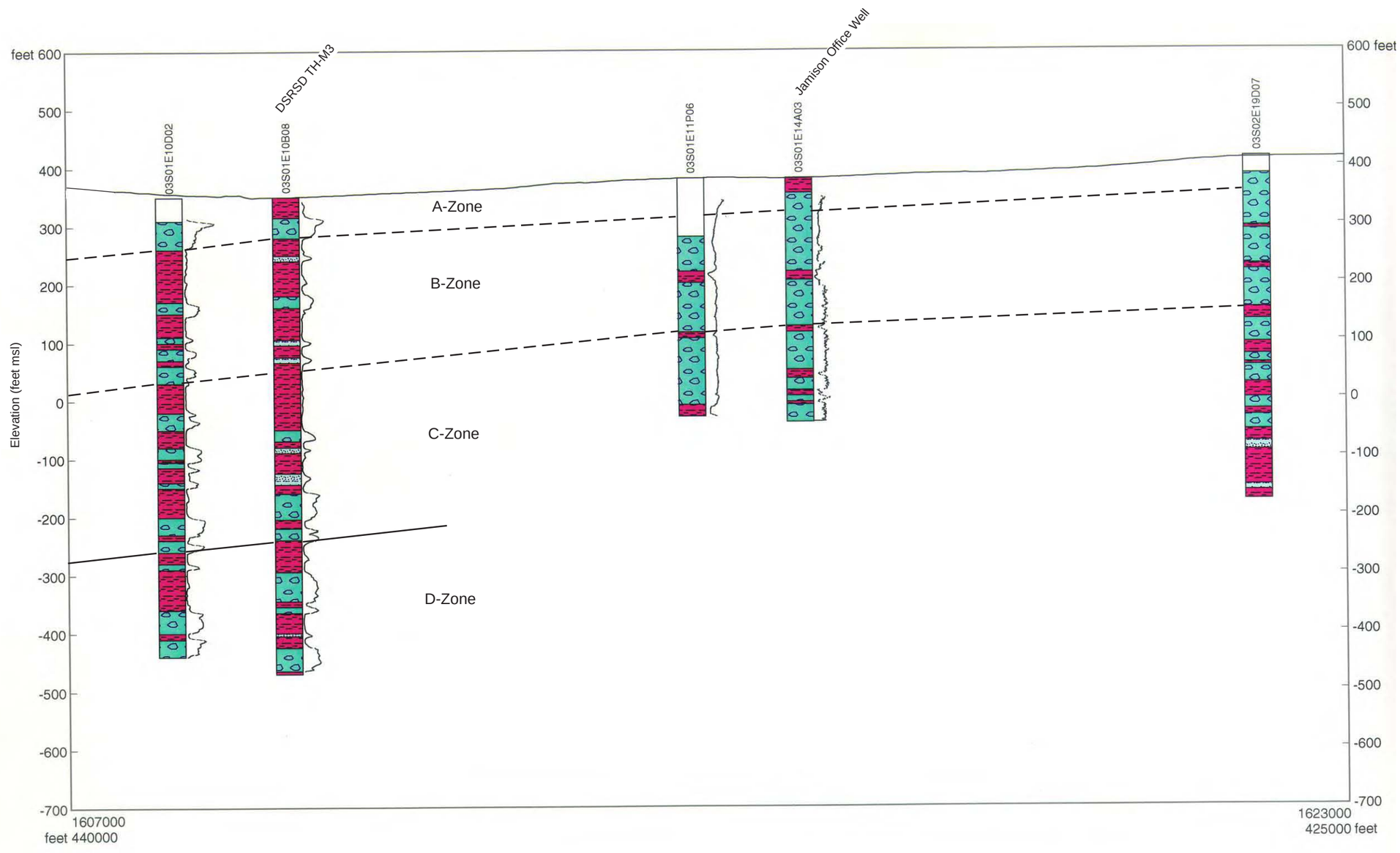
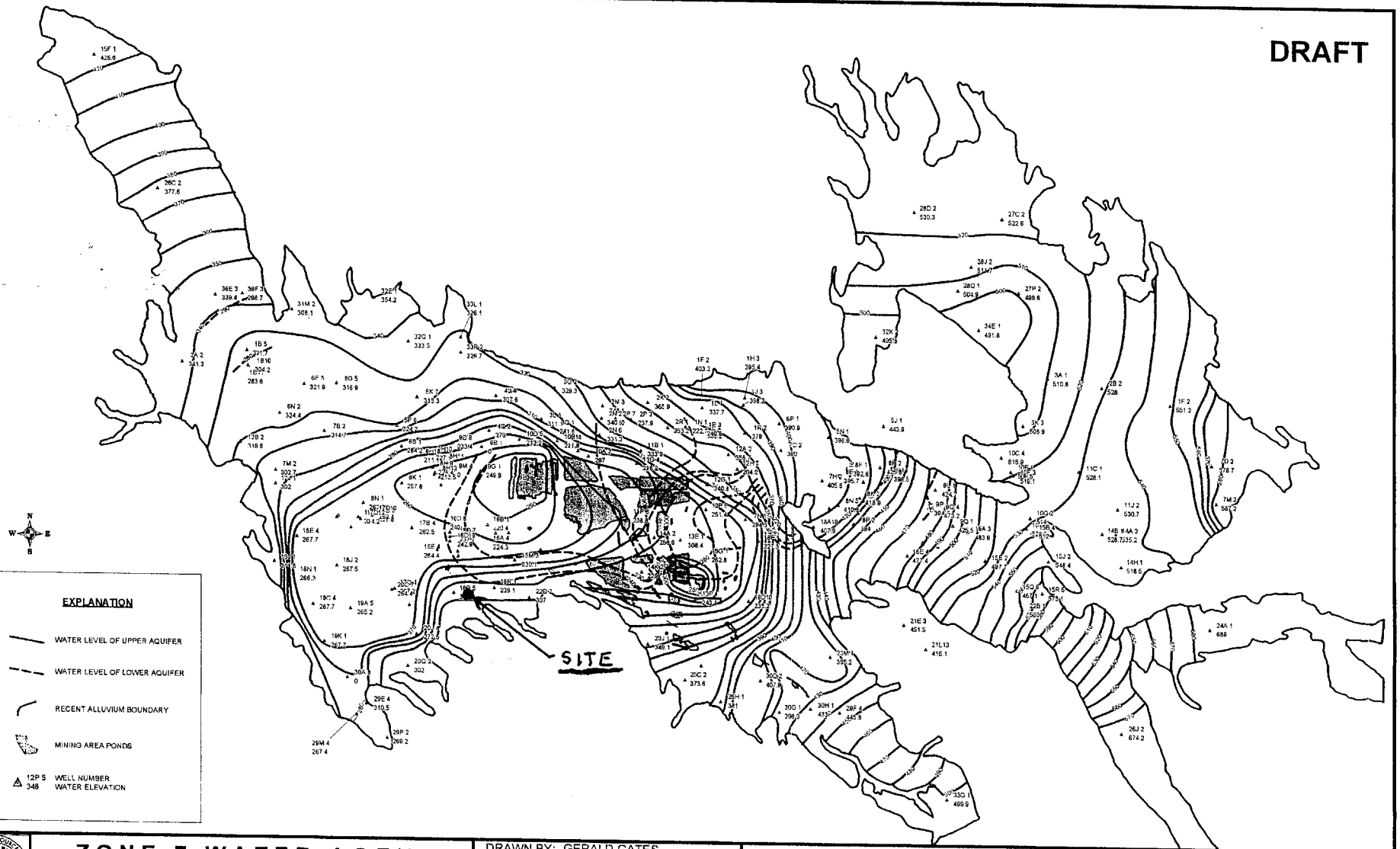


FIGURE 1.1-9
CROSS-SECTION G-G’
WELL MASTER PLAN
ZONE 7 WATER AGENCY
WELL WATER PLAN

CH2MHILL

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

APPENDIX D

Historic Boring Logs

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		LTR	DESCRIPTION	MAJOR DIVISIONS		LTR	DESCRIPTION
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	Well-graded gravels or gravel sand mixtures, little or no fines.	FINE GRAINED SOILS	SILTS AND CLAYS LL<50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
		GP	Poorly-graded gravels or gravel sand mixture, little or no fines			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
		GM	Silty gravels, gravel-sand-clay mixtures.			OL	Organic silts and organic silt-clays of low plasticity.
		GC	Clayey gravels, gravel-sand-clay mixtures.		SILTS AND CLAYS LL>50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
	SAND AND SANDY SOILS	SW	Well-graded sands or gravelly sands, little or no fines.			CH	Inorganic clays of high plasticity, fat clays.
		SP	Poorly-graded sands or gravelly sands, little or no fines.			OH	Organic clays of medium to high plasticity.
		SM	Silty sands, sand-silt mixtures.	HIGHLY ORGANIC SOILS		Pt	Peat and other highly organic soils.
		SC	Clayey sands, sand-clay mixtures.				

I	Depth through which sampler is driven		Sand pack
	Relatively undisturbed sample		Bentonite annular seal
	Missed sample		Neat cement annular seal
	Ground water level observed in boring		Blank PVC
S-10	Sample number		Machine-slotted PVC

BLOW/FT. REPRESENTS THE NUMBER OF BLOWS OF A 140-POUND HAMMER FALLING 30 INCHES TO DRIVE THE SAMPLER THROUGH THE LAST 12 INCHES OF AN 18 INCH PENETRATION.

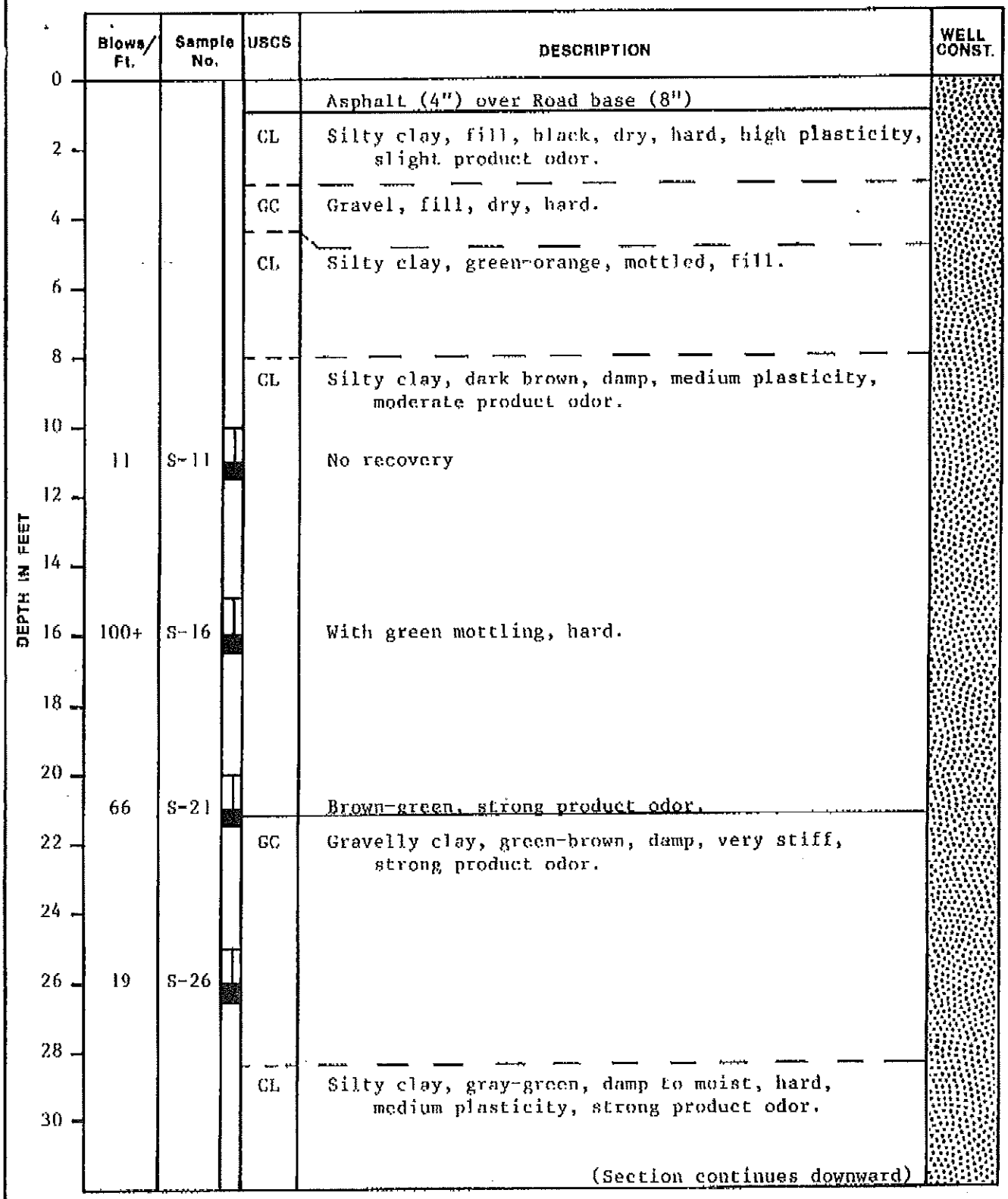
DASHED LINES SEPARATING UNITS ON THE LOG REPRESENT APPROXIMATE BOUNDARIES ONLY. ACTUAL BOUNDARIES MAY BE GRADUAL. LOGS REPRESENT SUBSURFACE CONDITIONS AT THE BORING LOCATION AT THE TIME OF DRILLING ONLY.

Applied GeoSystems

PROJECT NO. AGS 87065-1

UNIFIED SOIL CLASSIFICATION SYSTEM AND SYMBOL KEY
Arco Station
First and Ray Street
Pleasanton, California

PLATE
P-3



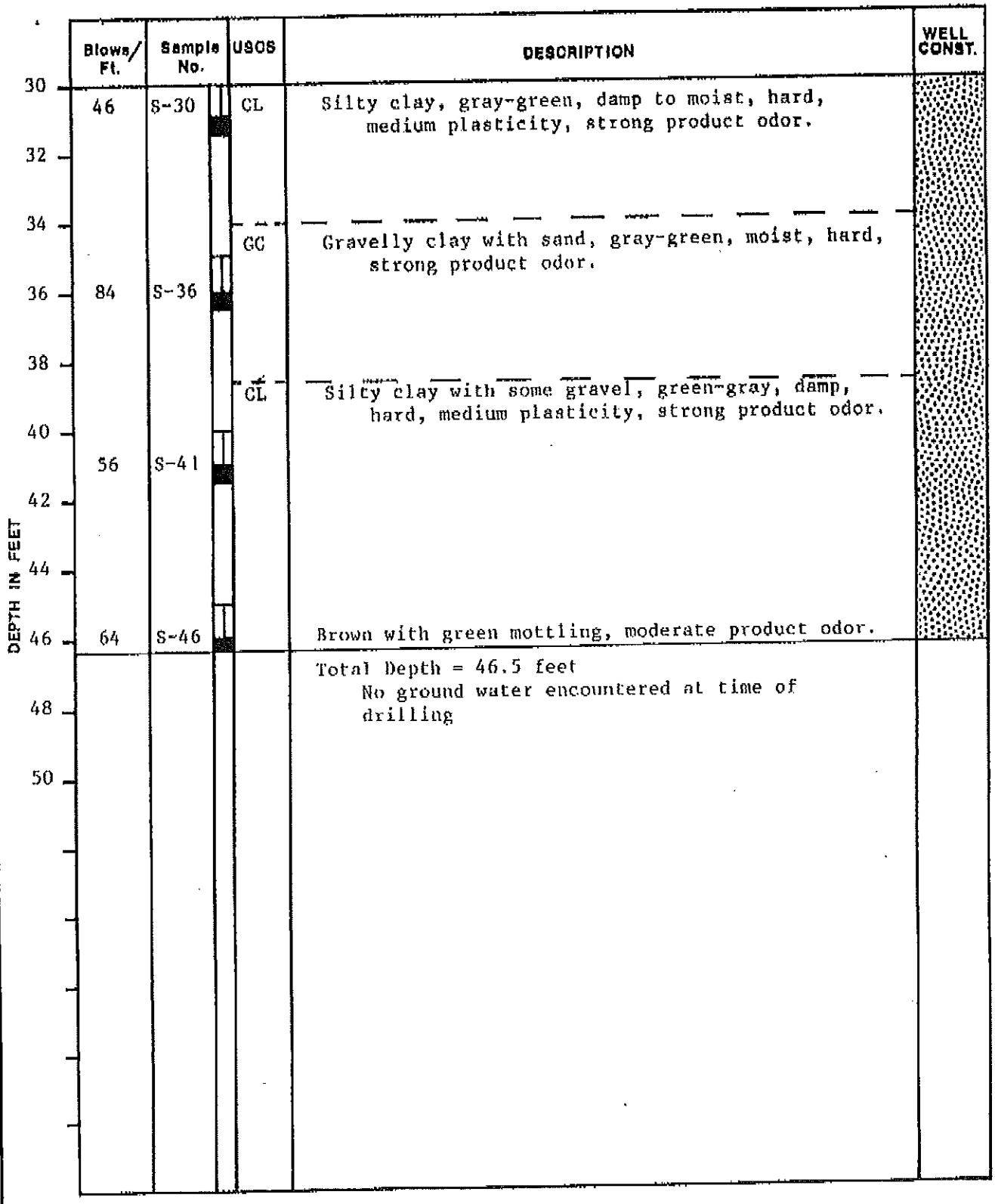
Applied GeoSystems

LOG OF BORING B-1

Arco Station
First and Ray Street
Pleasanton, California

PLATE P-4

PROJECT NO. AGS 87065-1



Applied GeoSystems
43255 Mission Blvd Suite B Fremont CA 94539 (415) 651-1906

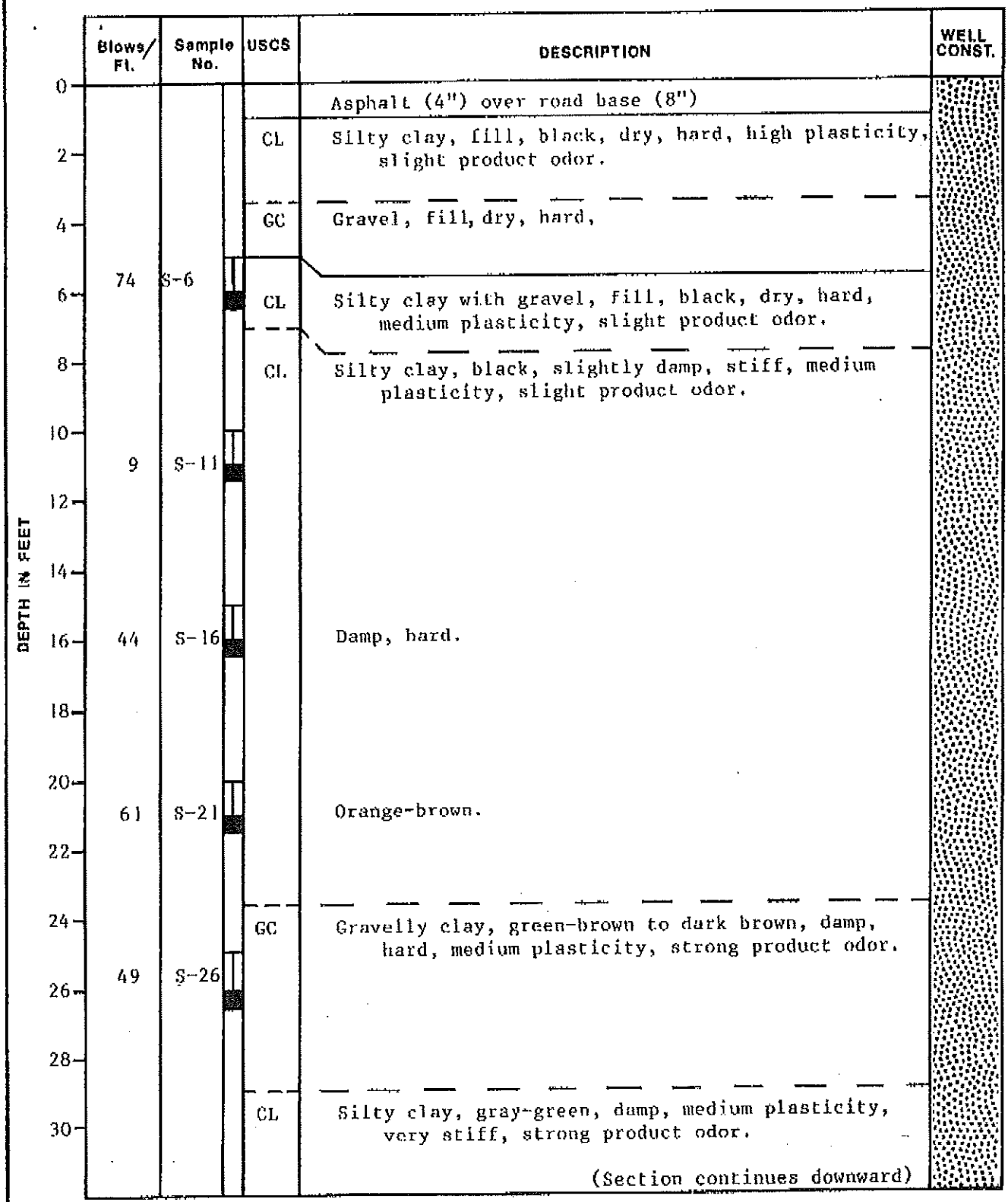
PROJECT NO. AGS 87065-1

LOG OF BORING B-1

Arco Station
First and Ray Street
Pleasanton, California

PLATE

P-5



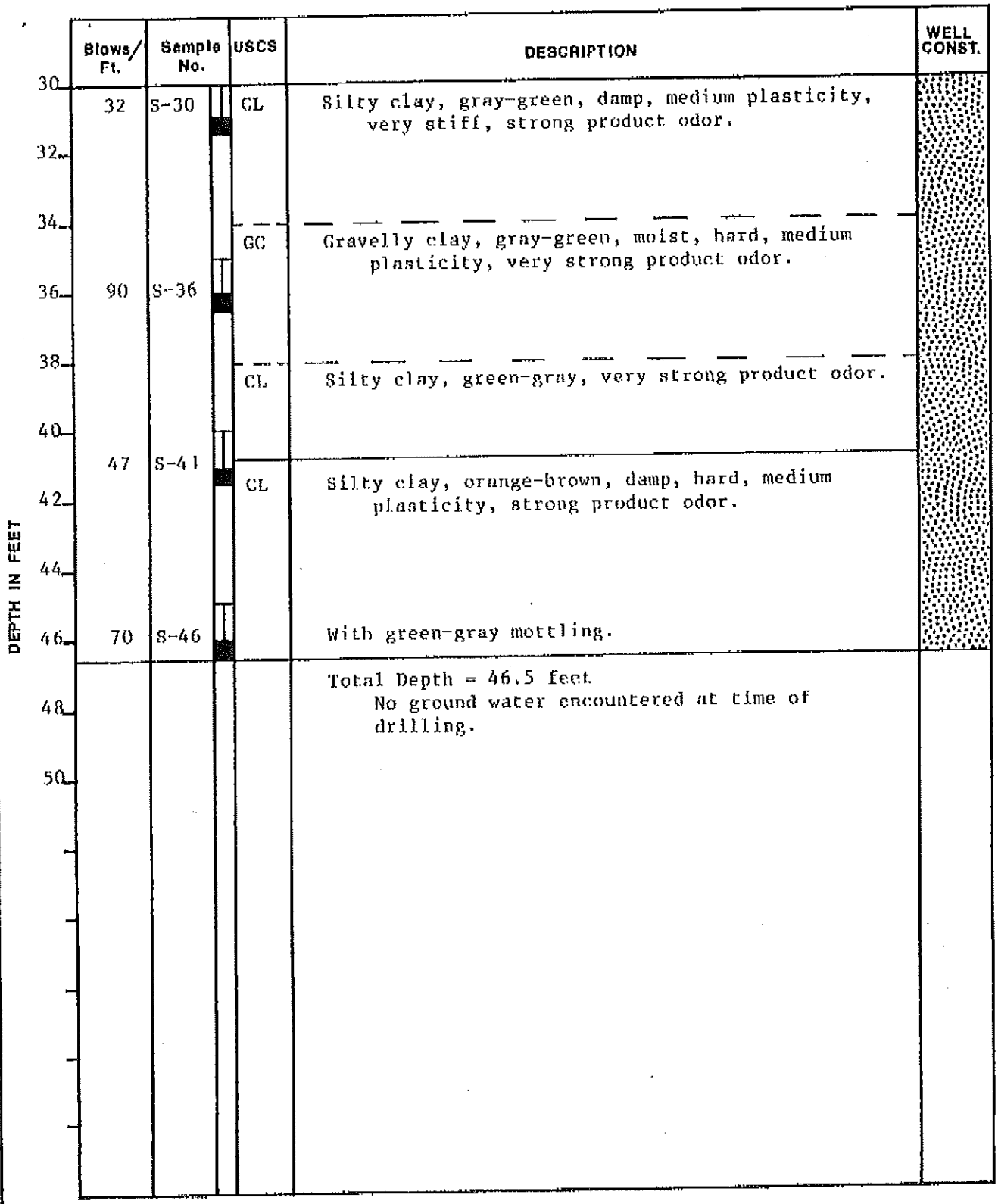
Applied GeoSystems

PROJECT NO. AGS 87065-1

LOG OF BORING B—2

Arco Station
First and Ray Street
Pleasanton, California

PLATE P-6



Applied GeoSystems

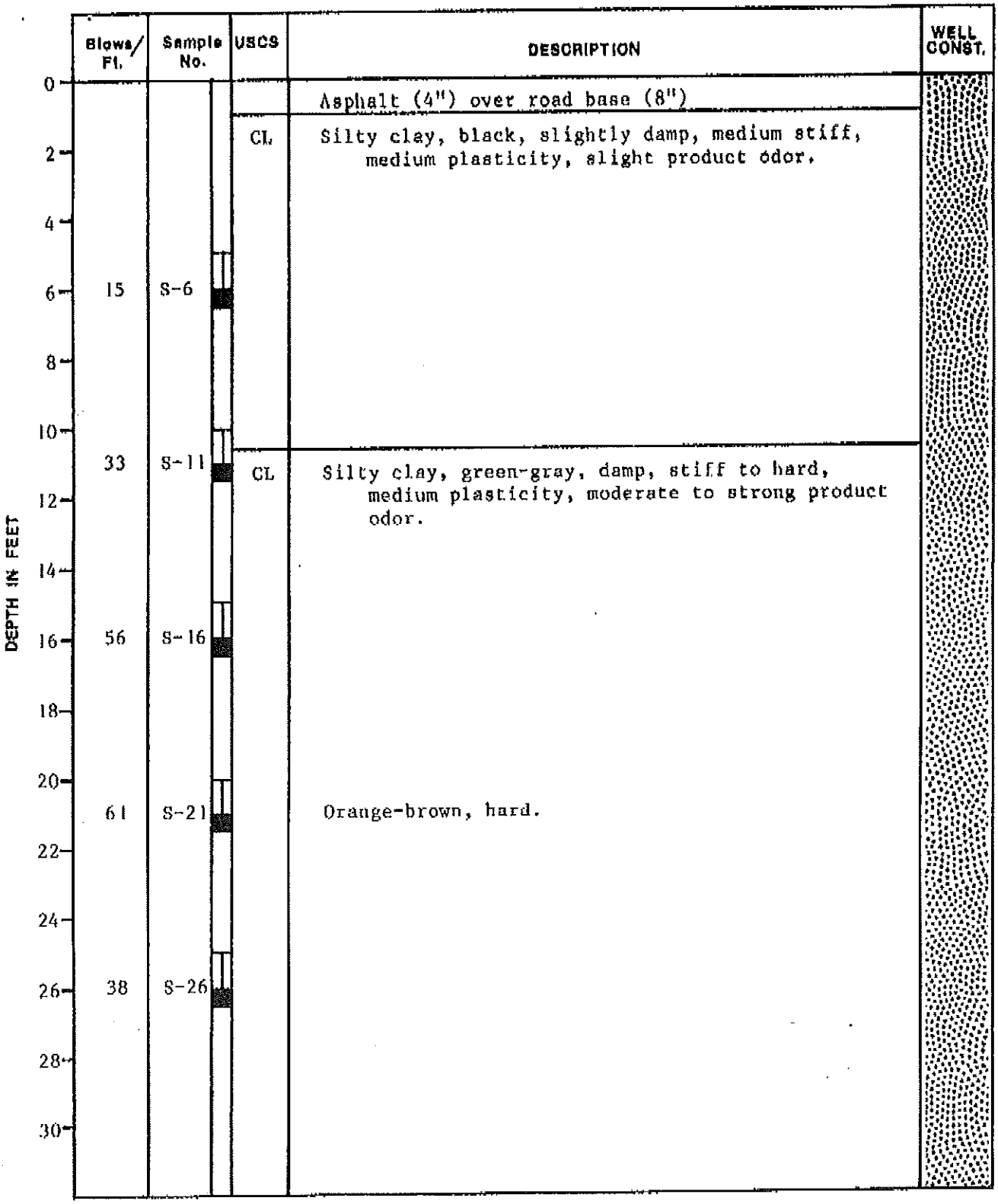
PROJECT NO. AGS 87065-1

LOG OF BORING B-2

Arco Station
First and Ray Street
Pleasanton, California

PLATE

P-7



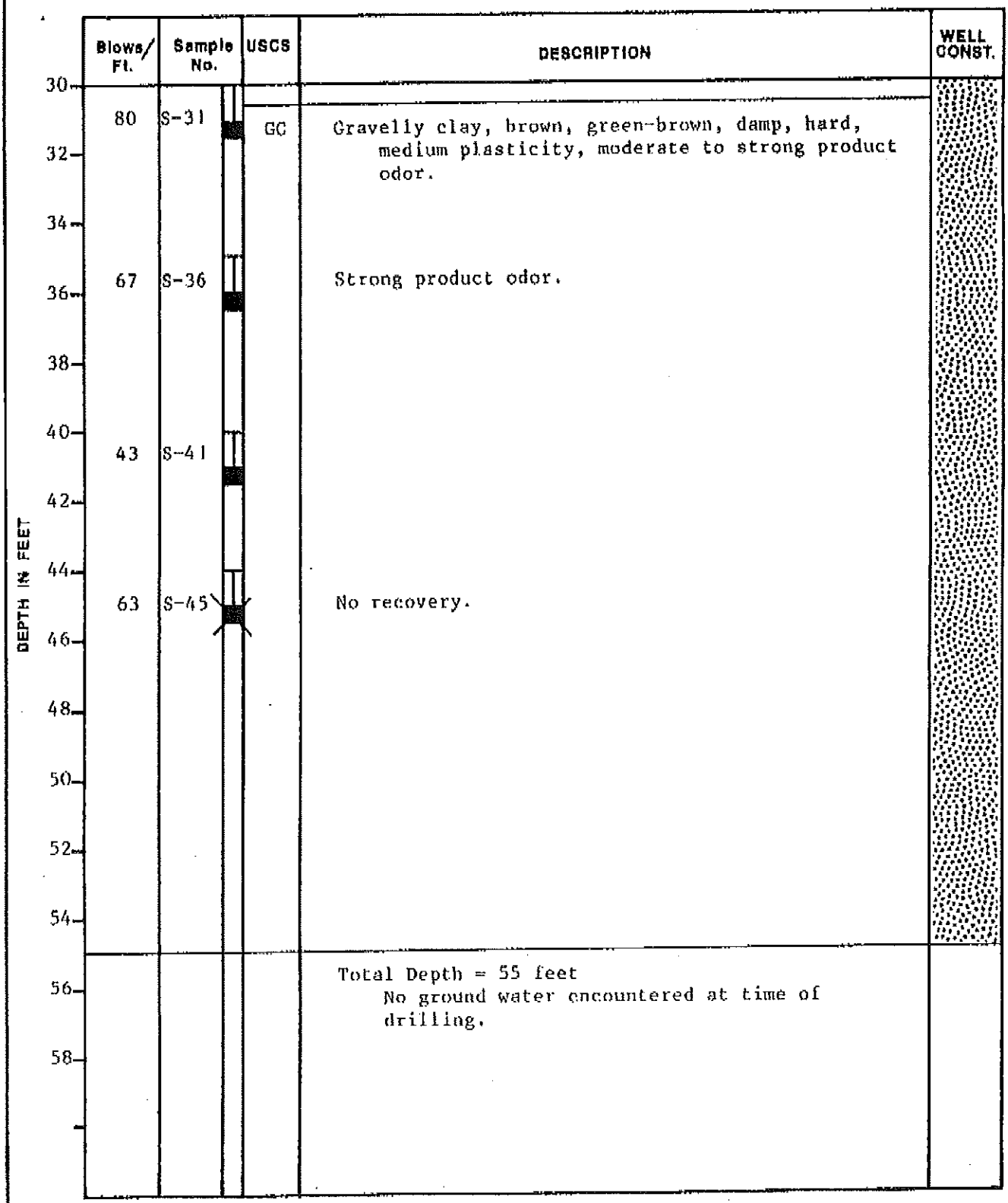
Applied GeoSystems

LOG OF BORING B-3

Arco Station
First and Ray Street
Pleasanton, California

PLATE P-8

PROJECT NO. AGS 87065-1



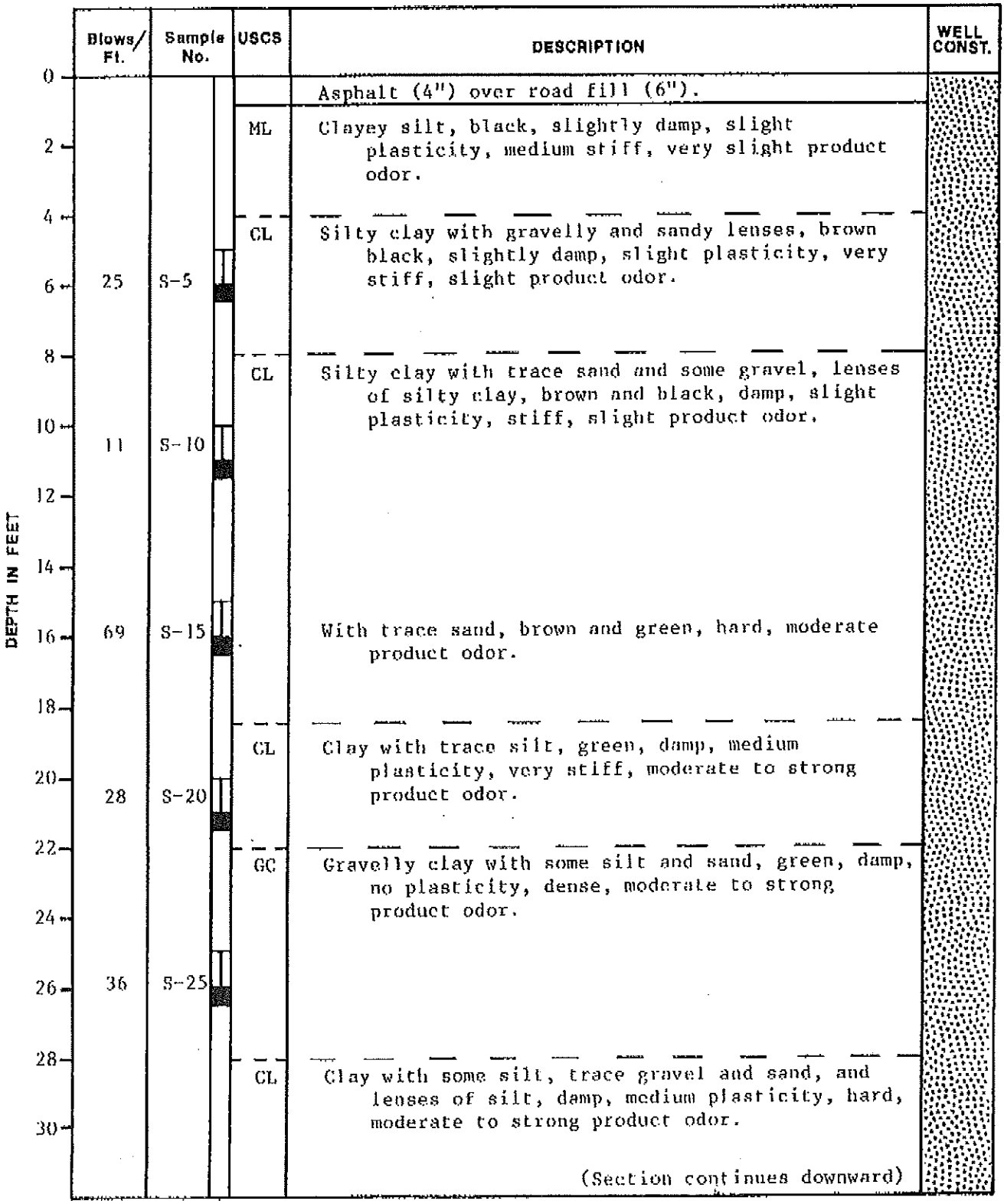
Applied GeoSystems

LOG OF BORING B—3

Arco Station
First and Ray Street
Pleasanton, California

PLATE P-9

PROJECT NO. AGS 87065-1



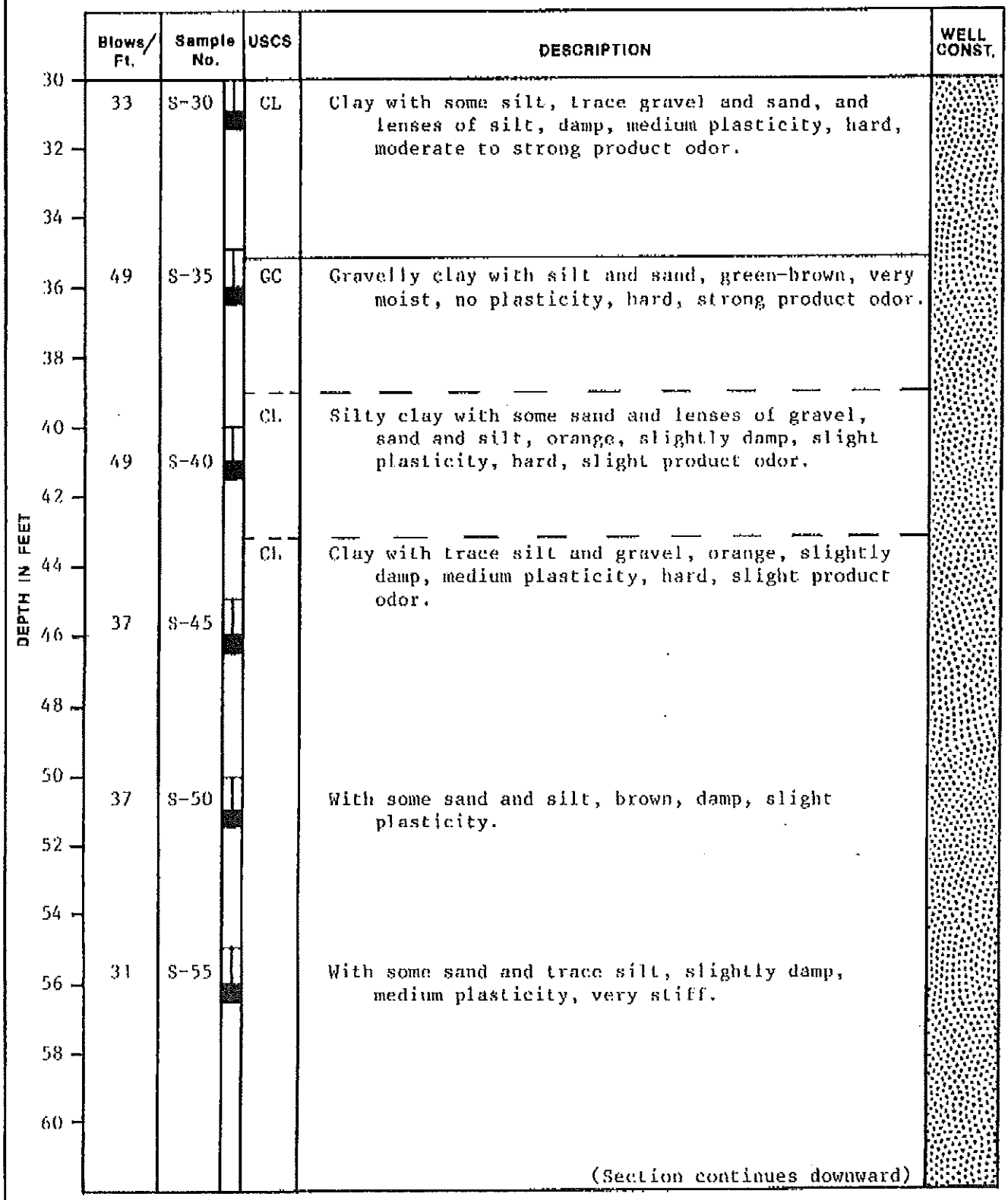
Applied GeoSystems

LOG OF BORING B-4

Arco Station
First and Ray Street
Pleasanton, California

PLATE P-10

PROJECT NO. AGS 87086-1



Applied GeoSystems

PROJECT NO. 87086-1

LOG OF BORING B-4

Arco Station
First and Ray Street
Pleasanton, California

PLATE P-11

Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
72	S-60	CL	Gravelly clay with some silt, orange, moist, slight plasticity, hard, no product odor.	
72	S-65		Clay with some sand and trace silt. medium plasticity.	
			Total Depth = 66.5 feet.. Boring terminated after 2 consecutive clean samples after 55 feet. No ground water encountered.	

DEPTH IN FEET

60
62
64
66
68
70

Applied GeoSystems

LOG OF BORING B-4

Arco Station
First and Ray Street
Pleasanton, California

PLATE P-12

PROJECT NO. 8708601

Gettler-Ryan Inc.

Log of Boring B-8

PROJECT: *Tosco (Unocal) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
PROJECT NO.: *140107.02*	CASING ELEVATION:
DATE STARTED: *06/08/98*	WL (ft. bgs): *65* DATE: TIME:
DATE FINISHED: *06/08/98*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *71.5 Feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
							Asphalt.	
						CL	CLAY (CL) - very dark grayish brown (10YR 3/2), damp, stiff, medium plasticity, 70% clay, 30% silt.	Boring backfilled to ground surface with neat cement containing 5% bentonite powder.
5	1	20	B-8-6				Color change to dark yellowish brown (10YR 4/8), becomes damp, hard, 60% clay, 30% silt, 10% fine to medium sand, trace gravel.	
10	2	28	B-8-11.5					
						ML	SILT (ML) - dark yellowish brown (10YR 4/6), damp, hard, no plasticity, 55% silt, 40% clay, 5% fine sand.	
15	2	37	B-8-16				30% gravel layer from 15 to 15.5 feet.	
						GW		
20	2	50	B-8-21				GRAVEL WITH SAND (GW) - dark yellowish brown (10YR 4/6), moist, dense, 65% subangular to rounded fine gravel, 30% fine to coarse sand, 5% clay.	
25	2	66	B-8-25.5				Color change to brown (10YR 4/3).	

Gettler-Ryan Inc.

Log of Boring B-8

PROJECT: *Tosco (Unocal) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
	1	70	B-8-31			GW	Becomes 60% gravel, 35% sand, 5% clay.	
33						SW		
	3	62	B-8-36				SAND (SW) - yellowish brown (10YR 5/4), damp, very dense, 95% subangular to rounded fine to medium sand, 5% clay.	
38								
	2	67	B-8-40.5				*Becomes fine to coarse sand, trace fine gravel.*	
43						ML		
	1	38	B-8-46.5				SILT WITH GRAVEL (ML) - light yellowish brown (2.5Y 6/3), damp, hard, no plasticity, 60% silt, 20% clay, 15% fine gravel, 5% fine to coarse sand.	
48						GW GC		
	1	57	B-8-50.5				GRAVEL WITH CLAY AND SAND (GW-GC) - strong brown (7.5YR 4/6), moist, very dense, 60% semiangular to rounded fine gravel, 30% fine to coarse sand, 10% clay.	
53						CL		
	1	44	B-8-56.5				CLAY (CL) - brown (10YR 5/3) to dark yellowish brown (10YR 3/6), damp, hard, medium plasticity, 70% clay, 25% silt, trace fine gravel, trace fine sand, iron oxide staining.	
58						ML		

Gettler-Ryan Inc.

Log of Boring B-8

PROJECT: *Tosco (Unocal) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
	1	39	B-8-61.5			ML	SILT (ML) - strong brown (7.5YR 4/6), damp, hard, no plasticity, 80% silt, 30% clay, 5% fine to coarse sand, 5% fine gravel.	
65	1	48	B-8-66			SW	SAND (SW) - dark brown (7.5YR 4/4), saturated, very dense, 95% subangular to rounded fine to very coarse sand, 5% clay, trace fine gravel.	
70	1	41	B-8-71.5			CL	CLAY (CL) - light yellowish brown (2.5Y 6/3) to strong brown (7.5YR 4/6), damp, hard, high plasticity, 100% clay, trace fine gravel in thin layers, iron oxide staining layers.	
75								
80								
85								
90								

JOB NUMBER: *140107.02*

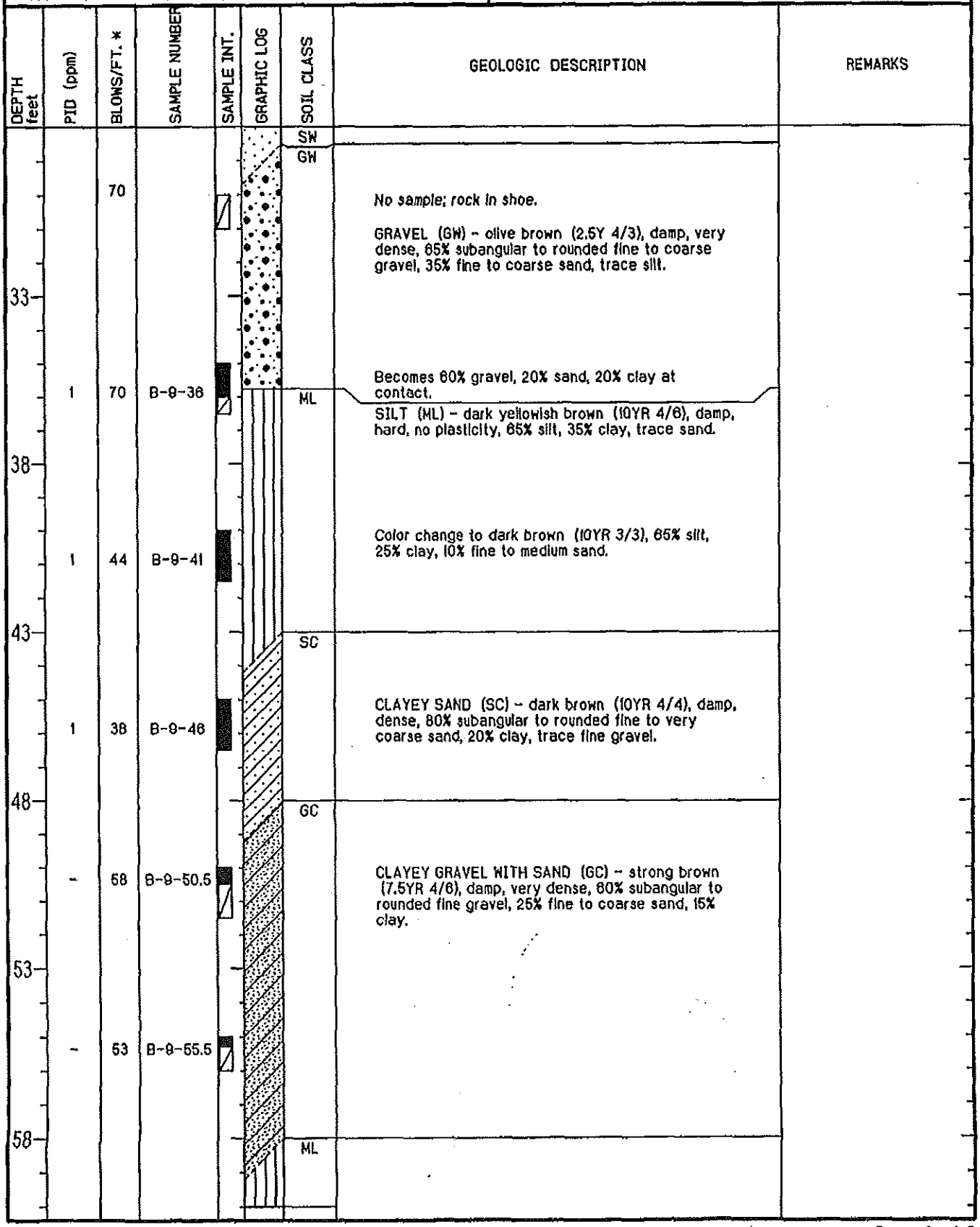
Gettler-Ryan Inc.

Log of Boring B-9

PROJECT: *Tosco (Unocal) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
PROJECT NO.: *140107.02*	CASING ELEVATION:
DATE STARTED: *06/08/98*	WL (ft. bgs): *65* DATE: TIME:
DATE FINISHED: *06/08/98*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *81 Feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
							Asphalt.	
						ML	SILT (ML) – yellowish brown (10YR 5/4), damp, hard, no plasticity, 100% silt, trace fine sand.	Boring backfilled to ground surface with neat cement containing 5% bentonite powder.
5		65					No recovery.	
10	1	35	B-9-11				Color change to yellowish brown (10YR 5/6), *becomes 80% silt, 20% clay, non oxide crenulations.*	
						GC		
15	0	58	B-9-15.5				CLAYEY GRAVEL WITH SAND (GC) – dark yellowish brown (10YR 4/4), damp, very dense, 60% subangular to rounded fine gravel, 25% fine to coarse sand, 15% clay.	
						CL		
20	1	49	B-9-21.5				CLAY WITH SAND (CL) – dark yellowish brown (10YR 4/6), damp, hard, slight plasticity, 80% clay, 20% silt, 20% fine to medium sand, trace fine gravel.	
						SW		
25	1	43	B-9-26				SAND (SW) – yellowish brown (10YR 5/4), damp, very dense, 95% subangular to rounded fine to very coarse sand, 5% silt, trace fine gravel.	

Gettler-Ryan Inc.	Log of Boring B-9
PROJECT: *Tosco (Unocal) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*



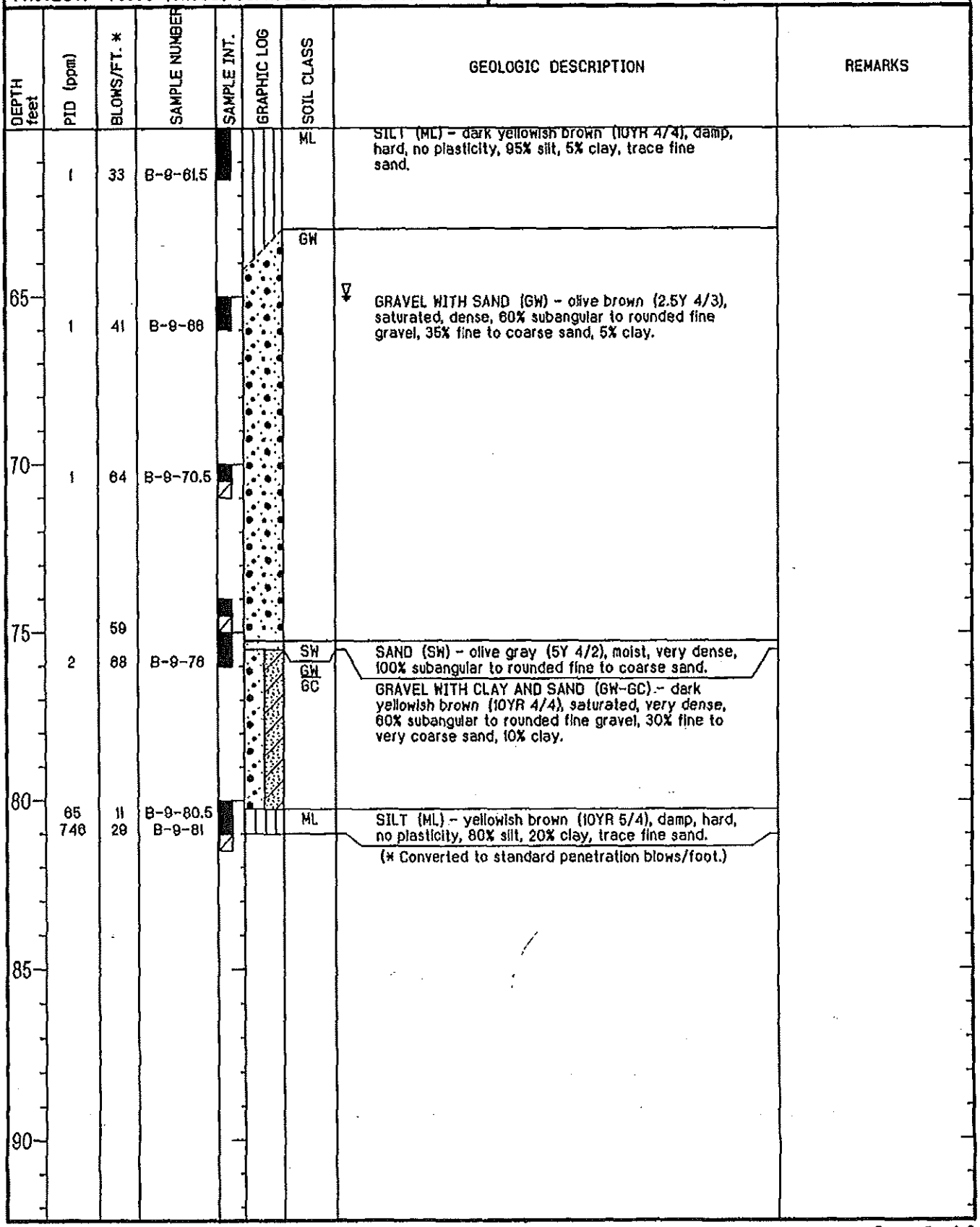
JOB NUMBER: *140107.02*

Gettler-Ryan Inc.

Log of Boring B-9

PROJECT: *Tosco (Unocal) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*



JOB NUMBER: *140107.02*

Gettler-Ryan Inc.

Log of Boring B-10

PROJECT: *Tosco (Unocal) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
PROJECT NO.: *140107.02*	CASING ELEVATION:
DATE STARTED: *06/11/98*	WL (ft. bgs): *77* DATE: TIME:
DATE FINISHED: *06/11/98*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *86.5 Feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
					Asphalt.	
				ML	GRAVEL WITH SAND – fill material.	Boring backfilled to ground surface with neat cement containing 5% bentonite powder.
5	2	43	B-10-6		SANDY SILT WITH GRAVEL (ML) – very dark gray (10YR 3/1), damp, hard, no plasticity, 65% silt, 15% fine gravel, 15% fine to coarse sand, 5% clay.	
	132	28	B-10-8		Gravel strata from 7 to 7.25 feet. Color change to dark brown (10YR 3/3).	
10	–	8	B-10-9.5			
	260	10	B-10-12	GW	Color change to very dark grayish brown (2.5Y 3/2), becomes saturated, stiff, no plasticity. GRAVEL WITH SAND (GW) – black (7.5YR N2/), saturated, very dense, 70% subangular to rounded fine gravel, 25% fine to coarse sand, 5% clay.	
	313	35	B-10-14			
	11	56	B-10-15	ML	SILT WITH SAND (ML) – olive brown (2.5Y 4/3) to dark yellowish brown (10YR 4/4), damp, hard, no plasticity, 75% silt, 15% fine to coarse sand, 5% fine gravel, 5% clay, hydrocarbons (?) in cracks.	
15				SM		
	30	79	B-10-16.5		SILTY SAND (SM) – very dark grayish brown (2.5Y 3/2), damp to moist, very dense, 50% subangular to rounded fine to coarse sand, 40% silt, 10% fine gravel, hydrocarbons (?) in cracks.	
	24	63	B-10-18			
				ML	SILT WITH SAND (ML) – dark grayish brown (2.5Y 4/2), damp, hard, no plasticity, 50% silt, 25% clay, 20% fine to coarse sand, 5% fine gravel, hydrocarbons (?) in cracks.	
20	14	62	B-10-21			
	17	43	B-10-22.5	SM	SILTY SAND (SM) – dark greenish gray (5G 4/1), damp to moist, dense, 70% subangular to rounded fine to coarse sand, 25% silt, 5% fine gravel, hydrocarbons (?) in void space and cracks.	
	578	26	B-10-24.5			
25	587	43	B-10-26	GW	GRAVEL WITH SAND (GW) – dark greenish gray (5G 4/1), moist, very dense, 75% subangular to rounded fine gravel, 20% fine to coarse sand, 5% silt, hydrocarbons (?) in void spaces and cracks. Sand layer at contact.	
				ML	SILT (ML) – olive gray (5Y 4/2), damp to moist, hard, no plasticity, 75% silt, 20% clay, 5% fine to coarse sand, hydrocarbons (?) in void spaces.	

Gettler-Ryan Inc.

Log of Boring B-10

PROJECT: *Tosco (Unocal) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
	470	32	B-10-29			ML	Color change to dark greenish gray (5GY 4/1) at 29 feet.	
	891	18	B-10-30.5					
	401	60	B-10-32			GW	GRAVEL (GW) - olive gray (5Y 4/2), moist, very dense, 80% subangular to rounded fine gravel, 15% fine to coarse sand, 5% clay, abundant hydrocarbons (?) in void spaces.	
33	636	44	B-10-34				No sample recovery; rock in shoe.	
	4	18	B-10-37.5			ML	Abundant moisture/hydrocarbons (?) at contact.	
38	462	73	B-10-38				SILT WITH GRAVEL (ML) - yellowish brown (10YR 5/4), damp, hard, no plasticity, 70% silt, 20% fine gravel, 10% clay, hydrocarbons (?) in cracks and void spaces.	
	250	62	B-10-40					
	89	82	B-10-41.5				Color change to olive brown (2.5Y 4/4) to light yellowish brown (2.5Y 6/4).	
43	120	50	B-10-44					
	31	75	B-10-47				Color change to strong brown (7.5YR 4/6) at 45.25 feet, becomes damp to moist, hard, no plasticity, 70% silt, 15% clay, 10% fine to coarse sand, 5% fine gravel, decrease in hydrocarbons (?).	
48	3	46	B-10-49				Becomes 60% silt, 35% clay, 5% fine to coarse sand, trace gravel, no hydrocarbons (?) at 47.5 feet.	
	6	40	B-10-51				Localized fine to coarse sand at 51.25 to 51.75 feet.	
53	8	41	B-10-53				Color change to strong brown (7.5YR 4/6) with light brownish gray (10YR 6/3) mottling from 53.25 to 54 feet.	
	347	25	B-10-54.5				Localized fine gravel and fine to coarse gravel strata from 55.75 to 56.25 feet.	
	290	56	B-10-57			SM		
58	24	62	B-10-58				SILTY SAND WITH GRAVEL (SM) - dark yellowish brown (10YR 4/4), damp, very dense, 65% subangular to rounded sand, 20% silt, 15% fine gravel.	

Gettler-Ryan Inc.

Log of Boring B-10

PROJECT: *Tosco (Unocal) Service Station No. 7378*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
	50	79	B-10-60.5			SM		
	11	79	B-10-62			SW	SAND WITH GRAVEL (SW) – dark yellowish brown (10YR 4/4), moist, very dense, 75% subangular to rounded fine to coarse sand, 20% fine gravel, 5% silt.	
	8	62	B-10-64					
65	–	88	B-10-65.5			ML		
							SILT (ML) – dark yellowish brown (10YR 4/6), damp, hard, no plasticity, 75% silt, 20% clay, 5% fine sand.	
	6	89	B-10-69				Fine gravel strata at 69.75 feet.	
70	7	50	B-10-71				Becomes 85% silt, 15% clay, trace fine sand at 70 feet.	
	8	63	B-10-72.5					
	8	60	B-10-73.5			SW		
75	4	70	B-10-75.5				SAND (SW) – yellowish brown (10YR 5/4), damp, very dense, 90% subangular to rounded fine to very coarse sand, 5% silt, 5% fine gravel.	
						GW	GRAVEL WITH SAND (GW) – dark grayish brown (10YR 4/2), saturated, very dense, 60% subangular to rounded fine gravel, 35% fine to very coarse sand, 5% clay.	
	5	72	B-10-78					
	–	72	B-10-79.5					
80						SW	SAND (SW) – saturated, very dense, 95% medium to very coarse sand, 5% fine gravel.	
	5	83	B-10-82.5					
	6	19	B-10-84				Becomes 80% sand, 20% fine gravel at 84 feet.	
85								
	6	88	B-10-86.5			ML	SILT WITH SAND (ML) – dark yellowish brown (10YR 4/6), moist, hard, no plasticity, 80% silt, 20% fine to medium sand.	
							(* Converted to standard penetration blows/foot.)	
90								

JOB NUMBER: *140107.02*

Gettler-Ryan Inc.

Log of Boring B-11

PROJECT: *Tosco (Unocal) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
PROJECT NO.: *140107.02*	CASING ELEVATION:
DATE STARTED: *06/09/98*	WL (ft. bgs): *68* DATE: TIME:
DATE FINISHED: *06/09/98*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *74 Feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
							Asphalt.	
						GW	GRAVEL WITH SAND (GW) – dark grayish brown (2.5Y 4/2), damp, dense, 65% subangular to rounded fine gravel, 30% fine to coarse sand, 5% clay: FILL.	Boring backfilled to ground surface with neat cement containing 5% bentonite powder.
						CL	CLAY (CL) – very dark gray (5Y 3/1), damp, very stiff, medium plasticity, 90% clay, 10% silt: FILL.	
						GW	GRAVEL (GW) – dark grayish brown (2.5Y 4/2), damp, dense, 85% subangular to rounded fine gravel, 10% fine to coarse sand, 5% clay, asphalt: FILL.	
5	202	72	B-11-5.5					
	316	27	B-11-8			ML	SILT WITH SAND (ML) – black (10YR 2/1), damp, hard, no plasticity, 75% silt, 20% fine to very coarse sand, 5% fine gravel.	
10	564	26	B-11-10.5				*Color change to very dark grayish brown (2.5Y 3/2)* at 11 feet, trace gravel, sand fining.	
	408	40	B-11-13					
	478	70	B-11-14				Asphalt at 14 feet; may still be backfill.	
15	202	81	B-11-16				Color change to olive brown (2.5Y 4/3) at 15 feet, becomes 65% silt, 30% clay, 5% fine sand, hydrocarbons (?) in void spaces.	
	513	79	B-11-18					
	483	82	B-11-19.5				Localized fine gravel strata from 19.25 to 19.5 feet.	
20	361	51	B-11-21				Localized fine gravel strata from 20.25 to 20.75 feet.	
	552	55	B-11-23			GC	CLAYEY GRAVEL WITH SAND (SC) – olive brown (2.5Y 4/3), damp, very dense, 60% subangular to rounded fine gravel, 25% fine to coarse sand, 15% clay, abundant hydrocarbons (?) in all cracks and void spaces.	
25	311	32	B-11-25.5			ML	SILT (ML) – dark olive gray (5Y 3/2), damp, hard, slight plasticity, 70% silt, 25% clay, 5% fine to coarse sand, localized fine gravel.	
	459	32	B-11-27					

Gettler-Ryan Inc.

Log of Boring B-11

PROJECT: *Tosco (Unocal) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
	359	79	B-11-29.5			ML		
	372	32	B-11-31				Localized fine gravel and sand from 30.5 to 31.25 feet.	
	292	88	B-11-32.5				Sand strata from 32.4 to 32.6 feet.	
33						GW	GRAVEL WITH SAND (GW) - very dark gray (5Y 3/1), damp, very dense, 70% subangular to rounded fine gravel, 25% fine to coarse sand, 5% clay, abundant hydrocarbons (?) in all cracks and and void spaces.	
	231	70	B-11-35					
	310	63	B-11-37					
38						ML	SILT (ML) - greenish gray (5G 5/1) to dark yellowish brown (10YR 4/4), damp, hard, slight plasticity, 65% silt, 35% clay, trace fine sand to fine gravel, hydrocarbons (?) in cracks.	
	115	74	B-11-39.5			CL	CLAY (CL) - dark yellowish brown (10YR 4/4), damp, hard, high plasticity, 80% clay, 20% silt, trace fine to coarse sand, hydrocarbons (?) decreasing with depth.	
	30	77	B-11-41			ML	SILT (ML) - olive brown (2.5Y 4/4), damp, hard, no plasticity, 70% silt, 30% clay, trace fine sand, hydrocarbons (?) in cracks.	
43	320	72	B-11-43.5				Color change to olive gray (5Y 4/2) with dark greenish gray (5BG 4/1) mottling at 44 feet, increase in hydrocarbons (?) in cracks.	
	358	62	B-11-45.5					
	209	70	B-11-47					
48	321	70	B-11-49				Sand layer from 48.4 to 48.6 feet, abundant hydrocarbons (?) in cracks, trace fine gravel.	
	97	70	B-11-51.5				Color change to dark grayish brown (2.5Y 4/2) at 50 feet, becomes 60% silt, 30% clay, 10% fine to coarse sand, trace fine gravel.	
53	82	83	B-11-53				Decrease in hydrocarbons (?) at 52 feet, iron oxide staining from 52.2 to 52.8 feet.	
	141	77	B-11-55					
							Abundant hydrocarbons (?) in sand at 57 feet.	
58	148	79	B-11-58					
	428	78	B-11-59			SW SC	SAND WITH CLAY (SW-SC) - very dark grayish brown (2.5Y 3/2), damp to moist, very dense, 85% subangular to rounded fine to coarse sand, 10% clay, 5% fine gravel, saturated with hydrocarbons (?).	

Gettler-Ryan Inc.

Log of Boring B-11

PROJECT: *Tosco (Unocal) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
	455	62	B-11-61	SW SC	SAND WITH CLAY (SW-SC) - very dark grayish brown (2.5Y 3/2) to dark brown (10YR 4/3), damp, very dense, 80% subangular to rounded fine to coarse sand, 10% clay, 10% fine gravel, abundant hydrocarbons (?) from 61 to 62.25 feet.	
	451	63	B-11-62.5			
65	74	62	B-11-65	GW GC	GRAVEL WITH CLAY AND SAND (GW-GC) - dark yellowish brown (10YR 4/6), damp, very dense, 60% subangular to rounded fine gravel, 30% fine to coarse sand, 10% clay.	
	51	62	B-11-66.5		Becomes 50% gravel, 40% sand, 10% clay at 66 feet.	
					▽ Saturated above 68 feet, sand strata above 68.2 feet.	
	24	57	B-11-69			
70	6	62	B-11-70.5		Abundant water.	
				CL	CLAY (CL) - brownish yellow (10YR 6/6), damp, hard, medium plasticity, 80% clay, 20% silt, trace fine sand.	
	6	62	B-11-73.5			
75					(* Converted to standard penetration blows/foot.)	
80						
85						
90						

Gettler-Ryan Inc.

Log of Boring B-12

PROJECT: *Tosco (Unocal) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
PROJECT NO.: *140107.02*	CASING ELEVATION:
DATE STARTED: *06/10/98*	WL (ft. bgs): *73* DATE: TIME:
DATE FINISHED: *06/10/98*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *79 Feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
							Asphalt.	Boring backfilled to ground surface with neat cement containing 5% bentonite powder.
							GRAVEL WITH SILT - fil material.	
						CL	CLAY (CL) - very dark gray (5Y 3/1), damp, very stiff, medium plasticity, 90% clay, 10% silt.	
							CLAYE WITH GRAVEL (CL) - yellowish brown (10YR 5/8), damp, hard, no plasticity, 60% clay, 20% fine gravel, 20% fine to coarse sand.	
5	19	83	B-12-5.5				Color change to very dark gray (10YR 3/1) at 5 feet; fill material.	
	93	44	B-12-8				Asphalt in soil from 7 to 8 feet.	
10	144	18	B-12-10				Asphalt, burnt wood, and wood in soil.	
	118	12	B-12-12					
							Brick shards from 13 to 13.25 feet.	
15	39	18	B-12-14.5				Color change to dark grayish brown (2.5Y 4/2) at 13.5 feet, becomes moist.	
	56	79	B-12-16.5			ML	SANDY SILT (ML) - dark yellowish brown (10YR 4/6), damp, hard, no plasticity, 55% silt, 35% fine to coarse sand, 10% clay.	
	32	70	B-12-17.5				Fine sand layer from 16.4 to 16.5 feet.	
							Becomes SILT (ML), 60% silt, 40% clay, trace fine sand at 17.5 feet.	
20	44	78	B-12-20.5				SILT WITH SAND (ML) - olive gray (5Y 5/2), damp to wet, no plasticity, 75% silt, 15% very fine to medium sand, 10% clay.	
							Medium sand layer from 19.25 to 19.5 feet.	
	58	70	B-12-22.5			GC	SANDY SILT (ML) - dark yellowish brown (10YR 4/6), damp, hard, no plasticity, 60% silt, 30% fine to medium sand, 10% clay.	
	46	42	B-12-24				CLAYEY GRAVEL WITH SAND (GC) - damp, very dense, 55% subangular to rounded fine gravel, 25% fine to coarse sand, 20% clay.	
25						ML	CLAYEY SILT strata from 24 to 24.5 feet.	
	37	76	B-12-26			SW SC	SAND WITH CLAY (SW-SC) - olive gray (5Y 4/2), damp, very dense, 80% subangular to rounded fine to very coarse sand, 10% clay, 10% fine gravel.	
						SC	CLAYEY SAND (SC) - dark greenish gray (5GY 4/1), damp to moist, very dense, 70% subangular to rounded very fine to fine sand, 30% clay.	

Gettler-Ryan Inc.

Log of Boring B-12

PROJECT: *Tosco (Unocal) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
	415	78	B-12-28.5			SC		
						GW	GRAVEL WITH SAND (GW) – olive gray (5Y 4/2), damp, very dense, 80% subangular to rounded fine gravel, 15% fine to coarse sand, 5% clay.	
	449	70	B-12-30					
	–	59	B-12-31.5					
33	447	60	B-12-33.5				Visible hydrocarbon (?) liquid on surface of gravel.	
	377	77	B-12-36				Localized increase in clay content to 70% gravel, 15% sand, 15% clay.	
	399	62	B-12-37.5				Becomes saturated.	
38						ML	SILT (ML) – dark olive gray (5Y 3/2) to greenish gray (5G 5/1) with yellowish brown (10YR 5/4) mottling, damp, hard, no plasticity, 70–85% silt, 10–25% clay, 5% fine to coarse sand, trace fine gravel, abundant hydrocarbons (?) in void spaces and cracks.	
	397	33	B-12-41				*Decrease in hydrocarbons (?) at 41 feet.*	
43	192	66	B-12-43				Color change to dark yellowish brown (10YR 4/6) with dark greenish gray (5GY 4/1) mottling at 43 feet, occasional hydrocarbons (?) in cracks.	
	278	68	B-12-44.5					
	245	53	B-12-47				No hydrocarbons (?) visible below 47 feet.	
48	48	62	B-12-48.5					
	20	44	B-12-50.5				Increase in medium sand from 50.75 to 51.25 feet.	
							Increase in coarse sand from 52.25 to 52.75 feet.	
53	3	53	B-12-53				Color change to strong brown (7.5YR 5/6) at 53.5 feet, *becomes moist to wet.*	
	2	40	B-12-55					
	2	59	B-12-58.5					
58							Fine gravel strata from 58 to 58.5 feet.	
	3	48	B-12-59				Fine gravel strata from 59 to 59.5 feet.	

Gettler-Ryan Inc.

Log of Boring B-12

PROJECT: *Tosco (Unocal) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
				ML	Gravel strata from 60 to 60.5 feet.	
	3	53	B-12-61			
	3	75	B-12-62.5	SW SC	SAND WITH CLAY (SW-SC) - strong brown (7.5YR 5/6), damp to moist, very dense, 80% subangular to rounded fine to very coarse sand, 10% fine gravel, 10% clay.	
	4	63	B-12-64		Silt layer from 63.25 to 63.5 feet.	
65	5	55	B-12-65.5		Localized gravel at 65.5 feet.	
				GW GC	No sample recovery; rock in shoe.	
					GRAVEL WITH CLAY (GW-GC) - strong brown (7.5YR 4/6), moist, very dense, 75% subangular to rounded fine gravel, 15% fine to coarse sand, 10% clay.	
70	3	79	B-12-70			
	3	62	B-12-72			
	5	55	B-12-73.5		▽ *Becomes wet to saturated.*	
75	5	53	B-12-75.5			
				ML	SILT (ML) - dark yellowish brown (10YR 4/6), damp, hard, no plasticity, 70% silt, 30% clay, trace sand and gravel.	
	4	60	B-12-79		(* Converted to standard penetration blows/foot.)	
80						
85						
90						

JOB NUMBER: *140107.02*

Gettler-Ryan, Inc.

Log of Boring B-13

PROJECT: *Tosco (76) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
GR PROJECT NO.: *140107.04*	SURFACE ELEVATION: *364.65 feet MSL*
DATE STARTED: *11/22/99*	WL (ft. bgs): *102* DATE: TIME:
DATE FINISHED: *11/22/99*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *135.5 feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH (feet)	PID (ppm)	BLOWS/FT.*	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
							Topsoil - planter material with bark.	Boring backfilled with neat cement from the bottom to ground surface.
						CL	CLAY with GRAVEL (CL) - strong brown (7.5YR 5/8), moist, hard; 70% clay, 20% subangular to rounded fine gravel, 10% subangular to rounded fine to coarse sand, bricks, concrete, asphalt. (fill material)	
4								
						ML	SILT with GRAVEL (ML) - black (10YR 2/1), moist, hard, non-plastic; 60% silt, 30% subangular to rounded fine gravel, 10% fine to coarse sand. (fill material)	
	27	37	B-13-8					
							Change at 8 - 7 feet to SILT (ML) - dark brown (10YR 3/3), moist, hard, non-plastic; 85% silt, 10% subangular to rounded fine to medium sand, 5% fine gravel. (fill material)	
	139	42	B-13-7.5					
8								
							Change at 10 feet to dark gray (10YR 4/1), saturated; (fill material)	
	11	39	B-13-11					
							Change at 11.25 feet to SILT with SAND (ML) - dark yellowish brown (10YR 4/6), moist, hard, non-plastic; 70% silt, 15% subangular to rounded fine sand, trace of fine gravel.	
12	~	<100	B-13-12.5			SW	SAND (SW) - strong brown (10YR 4/6), moist, very dense; 90-95% very fine to medium sand, 5-10% silt.	
						ML	SILT (ML) - dark yellowish brown (10YR 4/4), moist, hard, non-plastic; 90% silt, 5% subangular to rounded fine sand, 5% clay.	
	2	<100	B-13-15.5					
16								
							Change at 18 feet to dark grayish brown (2.5Y 4/2).	
	15	<100	B-13-18.5					
							Change at 20 feet to dark olive brown (2.5Y 2/2); 60% silt, 25% clay, 10% subangular to rounded fine gravel, 5% fine to coarse sand, black hydrocarbon in void spaces.	
20	144	73	B-13-21			GW-GM	GRAVEL with SILT (GW-GM) - very dark gray (5Y 3/1), moist, very dense; 75% subangular to rounded fine gravel, 15% subangular to rounded fine to coarse sand, 10% silt, abundant black hydrocarbon in void spaces.	
	376	<100	B-13-23.5			SW	SAND (SW) - very dark gray (5Y 3/1), saturated, very dense; 90% subangular to rounded fine to very coarse sand, 5% silt, 5% fine gravel, abundant hydrocarbon.	
24								
	957	<100	B-13-26.5				Change at 27 feet to 75% sand, 20% fine gravel, 5% silt.	
28	>1500	<100	B-13-28					

JOB NUMBER: *140107.04*

Gettler-Ryan, Inc.

Log of Boring B-13

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
						SW	See previous page for geologic description.	
						ML	SILT (ML) - very dark gray (5Y 3/1), saturated, hard, non-plastic; 85% silt, 10% subangular to rounded fine sand, 5% clay, hydrocarbon in void spaces.	
32	>1500	44	B-13-32			SM	SILTY SAND (SM) - very dark gray (5Y 3/1), saturated, very dense; 65% subangular to rounded fine sand, 35% silt.	
	>1500	<100	B-13-33			GM	GRAVEL (GW) - very dark gray (5Y 3/1), saturated, very dense; 85% subangular to rounded fine gravel, 10% fine to coarse sand, 5% silt, hydrocarbon in void spaces.	
	877	<100	B-13-35.5					
36						CL	CLAY (CL) - brown (10YR 4/3) and gray (5Y 5/1), damp, hard, plastic; 60% clay, 30% silt, 10% subangular to rounded fine sand, trace of fine gravel, hydrocarbon in void spaces.	
	49	72	B-13-38.5					
40								
	60	72	B-13-42					
	190	68	B-13-43					
44								
	697	69	B-13-46				Change at 45 feet to CLAY with GRAVEL (CL) - brown (10YR 5/3) and gray (5Y 5/1), moist, hard, non-plastic; 60% clay, 20% subangular to rounded fine gravel, 10% fine to coarse sand, hydrocarbon in void spaces.	
48								
	339	<100	B-13-49					
	686	<100	B-13-51				Sand strata at 50.8 - 51.3 feet saturated with hydrocarbons.	
52							Change at 52 feet to 60% clay, 30% gravel, 10% sand.	
	728	<100	B-13-53					
						GM	SILTY GRAVEL with SAND (GM) - brown (10YR 5/3), moist, very dense; 70% subangular to rounded fine gravel, 15% silt, 15% subangular to rounded fine to very coarse sand, hydrocarbon in void spaces.	
	-	<100				ML	No sample recovery.	
56								
	524	<100	B-13-57				SILT (ML) - yellowish brown (10YR 5/4) to light brownish gray (10YR 6/2), moist, hard, non-plastic; 60% silt, 35% clay, 5% subangular to rounded fine sand, trace of fine gravel, trace of hydrocarbon in void spaces.	
60								

Gettler-Ryan, Inc.

Log of Boring B-13

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
	15	<100	B-13-61			ML	Sand strata at 60.4 - 60.7 feet.	
	833	<100	B-13-63			GW-GC	GRAVEL with CLAY and SAND (GW-GC) - dark yellowish brown (10YR 4/4), moist, very dense; 70% subangular to rounded fine gravel, 20% subangular to rounded fine to coarse sand, 10% clay.	
64								
	-	<100	B-13-65.5					
	-	<100	B-13-67.5				Saturated at 67 feet.	
68								
	52	<100	B-13-70.5				Change at 70 feet to 55% gravel, 35% sand, 10% clay.	
						ML	SILT (ML) - dark yellowish brown (10YR 4/6) to pale brown (10YR 6/2) with iron oxide staining, moist, hard, non-plastic; 75% silt, 20% clay, 5% subangular to rounded fine sand.	
72								
	7	<100	B-13-73.5				Attempt grab groundwater sample at 68 - 73 feet, no groundwater after 45 minute wait.	
	-	<100	B-13-75.5					
76								
						GW	GRAVEL (GW) - dark yellowish brown (10YR 4/4), moist, very dense; 75% subangular to rounded fine gravel, 20% subangular to rounded fine to coarse sand, 5% clay.	
80	-	<100	B-13-80.5					
	6	<100	B-13-82.5					
84								
	6	<100	B-13-85.5				Change at 85 feet to 55% gravel, 40% sand, 5% clay.	
	-	<100	B-13-87.5					
88								
	-	<100	B-13-90.5					
92								

Gettler-Ryan, Inc.

Log of Boring B-13

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
	-	<100	B-13-92.5			GW	See previous page for geologic description.	
						SW-SC	SAND with CLAY and GRAVEL (SW-SC) - yellowish brown (10YR 5/4), moist, very dense; 60% subangular to rounded fine to coarse sand, 30% subangular to rounded fine gravel, 10% clay.	
		<100	B-13-95.5					
96							Saturated gravel with sand at contact with silt.	
						ML	SILT (ML) - light yellowish brown (10YR 6/4) to dark yellowish brown (10YR 4/6), moist, hard, non-plastic; 70% silt, 25% clay, 5% subangular to rounded fine sand, iron oxide staining.	
	0	52	B-13-98.5				Attempt grab groundwater sample at 91 - 99 feet, no groundwater after 30 minute wait.	
100								
	0	42	B-13-101.5				▽ Attempt grab groundwater sample at 80 - 102 feet, no groundwater after overnight wait.	
	0	<100	B-13-103				Change at 102.75 feet to SILT with SAND (ML) - yellowish red (5YR 4/8) with black (10YR 2/1) staining, moist, hard, non-plastic; 75% silt, 15% subangular to rounded fine to medium sand, 10% clay.	
104								
	0	<100	B-13-106			GW-GC	GRAVEL with CLAY and SAND (GW-GC) - dark yellowish brown (10YR 4/4), saturated, very dense; 70% subangular to rounded fine gravel, 20% subangular to rounded fine to very coarse sand, 10% clay.	
	-	<100	B-13-107.5					
108								
						SW-SC	SAND with CLAY (SW-SC) - dark yellowish brown (10YR 4/4), saturated, very dense; 80% subangular to rounded medium to coarse sand, 10% clay, 10% fine gravel.	
	-	<100	B-13-110.5					
112	-	<100	B-13-112				Attempt grab groundwater sample at 105 - 112 feet, no groundwater after 45 minute wait.	
							Silt strata at 112.3 feet.	
						GW-GC	GRAVEL with CLAY and SAND (GW-GC) - dark yellowish brown (10YR 4/4), saturated, very dense; 70% subangular to rounded fine gravel, 20% subangular to rounded fine to coarse sand, 10% clay.	
	0	<100	B-13-115.5					
116								
	0	<100	B-13-118					
120								
		<100					No sample recovery.	
						ML	SILT (ML) - yellowish brown (10YR 4/4), moist, hard, non-plastic; 80% silt, 10% clay, 10% subangular to rounded fine gravel.	
124	0	<100	B-13-123.5					

Gettler-Ryan, Inc.

Log of Boring B-13

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
						ML	See previous page for geologic description.	
	0	<100	B-13-128			GC	CLAYEY GRAVEL with SAND (GC) - yellowish brown (10YR 5/8), saturated, very dense; 60% subangular to rounded fine gravel, 25% subangular to rounded fine to very coarse sand, 15% clay.	
128		<100					No sample recovery.	
							Grab groundwater sample - B-13-128.5 at 128.5 feet.	
132							Hydropunch sample - B-13-133'.	
		<100					No sample recovery.	
136							*Bottom of boring at 135.5 feet bgs.*	
							(* = Converted to equivalent standard penetration blows/foot.)	
140								
144								
148								
152								
156								

BORING LOG

Project No. KEI-P94-0903.P1	**Boring Diameter** 8.5"	**Logged By** T.S. T66 CEG:1633
	Casing Diameter N/A	
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation**	**Date Drilled** 2/6/95
Boring No. EB1	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS		Description
		0			Pavement, base gravel and fill.
					Fill with wood debris.
					Silt, trace very coarse-grained sand, firm, moist, dark brown.
14/15/19		5			Silt, trace clay, trace very coarse-grained sand and gravel to 1/4 inch in diameter, very stiff to hard, moist, dark yellowish brown.
11/18/21		10	ML		Silt as above, except yellowish brown, gravel to 1 inch in diameter.
7/16/19		15			Silt, estimated at 5-10% very coarse-grained sand, trace gravel to 1/2 inch in diameter, very stiff to hard, moist, yellowish brown.
10/11/11		20	SM		Silty sand, trace gravel to 1 inch in diameter, estimated at 15-20% silt, sand is medium to coarse-grained, medium dense, moist, yellowish brown.

BORING LOG

Project No. KEI-P94-0903.P1	**Boring Diameter** 8.5" **Casing Diameter** N/A	**Logged By** T.S. JGG CEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation**	**Date Drilled** 2/6/95
Boring No. EB1	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
15/32/44		25	GW	Well graded gravel with sand, trace silt, gravel to 1-1/2 inches in diameter, estimated at 35-45% medium to coarse-grained sand, dense to very dense, moist, dark yellowish brown.
17/31/39		30		Well graded gravel with sand, trace silt, gravel to 3/4 inch in diameter, estimated at 30-35% medium to coarse-grained sand, dense to very dense, moist, dark yellowish brown.
17/36/41		35	GM	Silty gravel, estimated at 15-20% silt and 10-15% medium coarse-grained sand, gravel to 2 inches indiameter, very dense, moist, yellowish brown.
21/32/36		40		Silty gravel, estimated at 15-20% silt and 10-15% medium to coarse-grained sand, gravel to 2 inches in diameter, very dense, moist, yellowish brown..
			ML	Silt, trace clay, very stiff to hard, moist, yellowish brown and very pale brown mottled, trace biotite.

BORING LOG

Project No. KEI-P94-0903.P1	**Boring Diameter** 8.5" **Casing Diameter** N/A	**Logged By** T.S. JGG CEG/633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation**	**Date Drilled** 2/6/95
Boring No. EB1	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
8/16/24		45	ML	Silt, trace clay, very stiff to hard, moist, yellowish brown and very pale brown mottled, trace biotite.
21/36/42		50	SW	Well graded sand with gravel and silt, estimated at 15-20% gravel to 3/4 inch in diameter, 5-15% silt, sand is medium to very coarse-grained, dense to very dense, moist, yellowish brown.
8/12/14		55	ML	Silt, trace clay, trace gravel to 1/2 inch in diameter, very stiff, moist, yellowish brown and olive, mottled, trace biotite.
13/50-6"		60	ML	Silt with gravel, estimated at 10-20% medium coarse-grained sand and 15-25% gravel to 1-1/2 inches in diameter, hard, moist, dark yellowish brown.
			CL	Gravelly clay, estimated at 10-15% silt, gravel to 1-1/2 inches in diameter, hard moist, pale olive.
6/12/12		65	ML	Silt with trace very coarse-grained sand and gravel to 1/4 inch in diameter, stiff, moist, yellowish brown and pale olive, mottled. Silt with gravel, estimated at 10-15% clay and 15-20% gravel to 1/2 inch in diameter, trace very coarse-grained sand, very stiff, moist, dark yellowish brown.

Total Depth: 66'

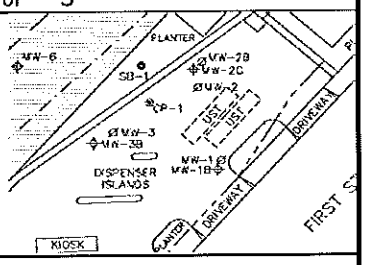
Delta
Consultants

Project No:	C107376220	Client:	ConocoPhillips
Logged By:	Jon Fillingame	Location:	Pleasanton
Driller:	Cascade	Date Drilled:	6/12/2009
Drilling Method:	Hollow Stem	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	45'
Casing Type:	2"PVC	Well Diameter:	N/A
Slot Size:	0.01	Well Depth:	N/A
Gravel Pack:	Lonestar #2/12	First Water Depth:	N/A
		Static Water Depth:	N/A
Elevation:		Northing:	Easting:

Boring/Well No: SB-1

Page 1 of 3

Location Map



Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION SOIL WITH SOIL ANALYTICAL RESULTS (ug/L) (BENZENE/GRO/TPH-FUEL OIL #6)
					1				
					2				Air Knife to 5 Feet
					3				
					4				
				SB-1 @5	5				Bad Sample, large chunk of scoria
					6				**SB-1 @ 5 - (ND/ND/ND)**
					7				
					8				
					9				
			45.1	SB-1 @10	10			ML	Med brown, sandy silt with 20% gravel, damp, very mild odor
					11				**SB-1 @ 10 - (ND/6.5/96)**
					12				
					13				
					14				
			104	SB-1 @15	15			GM	Med brown, silty gravely sand, damp, light odor
					16				**SB-1 @ 15 - (ND/ND/ND)**
					17				
					18				
					19				
			21.2	SB-1 @20	20			CL	Dk greenish gray clay, damp, strong odor
					21				**SB-1 @ 20 - (0.26/1400/200)**
					22				

Delta
Environmental Consultants, Inc.

Project No:	C107376220	Client:	ConocoPhillips
Logged By:	Jon Fillingame	Location:	Pleasanton
Driller:	Cascade	Date Drilled:	6/12/2009
Drilling Method:	Hollow Stem	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	45'
Casing Type:	2"PVC	Well Diameter:	N/A
Slot Size:	0.01	Well Depth:	N/A
Gravel Pack:	Lonestar #2/12	First Water Depth:	N/A
		Static Water Depth:	N/A

Boring/Well No: SB-1

Location
Map

Elevation: Northing: Easting:

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION SOIL WITH SOIL ANALYTICAL RESULTS (ug/L) (BENZENE/GRO/TPH-FUEL OIL #6)
					23				
					24				
			915	SB-1 @25	25			CL	Dk greenish gray clay, damp, very strong odor **SB-1 @ 25 - (1.6/230/880)**
					26				
					27				
					28				
					29				
			940	SB-1 @30	30			CL	Dk greenish gray sandy silty clay, damp, very strong odor **SB-1 @ 30 - (3.6/1100/9700)**
					31				
					32				
					33				
					34				
			820	SB-1 @35	35			CL	Dk greenish gray sandy silty clay w gravel, damp, very strong odor, patches of black sheeny substance **SB-1 @ 35 - (0.64/310/1400)**
					36				
					37				
					38				
					39				
			581	SB-1 @40	40			CL	Dk greenish gray silty clay, damp, strong odor, black sheeny patches **SB-1 @ 40 - (1.1/400/9800)**
					41				
					42				
					43				
					44				

Delta
Environmental Consultants, Inc.

Project No:	C107376220	Client:	ConocoPhillips
Logged By:	Jon Fillingame	Location:	Pleasanton
Driller:	Cascade	Date Drilled:	6/12/2009
Drilling Method:	Hollow Stem	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	45'
Casing Type:	2"PVC	Well Diameter:	N/A
Slot Size:	0.01	Well Depth:	N/A
Gravel Pack:	Lonestar #2/12	First Water Depth:	N/A
		Static Water Depth:	N/A
Elevation:		Northing:	Easting:

Boring/Well No: SB-1

Location Map

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION SOIL WITH SOIL ANALYTICAL RESULTS (ug/L) (BENZENE/GRO/TPH-FUEL OIL #6)
			830	SB-1 @45	45			CL	Dk greenish gray gravely silty clay, damp, strong odor
									SB-1 @ 45 - (3.2/570/2800)
									Max Depth: 45'
					46				
					47				
					48				
					49				
					50				
					51				
					52				
					53				
					54				
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					62				
					63				
					64				
					65				
					66				

BORING LOG

Project No. KEI-P94-0903.P1	**Boring Diameter** 8.5" **Casing Diameter** 2"	**Logged By** T.S. JGG CEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation**	**Date Drilled** 2/6/95
Boring No. MW2B	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
		0		Pavement and base gravel.
			ML	Silt, trace clay, trace medium-grained sand, soft, moist, very dark gray.
			SP-SM	Poorly graded sand with gravel and silt, gravel to 1 inch in diameter, sand is fine to medium-grained, loose, moist, very dark gray, fill.
				Gravelly silt, trace coarse to very coarse-grained sand, soft, moist, brownish yellow, fill.
9/14/16		5		Gravelly silt, as above, gravel diameter increasing with depth, very stiff, asphalt, fill.
				Native Soil
5/6/6		10		Gravelly silt, trace coarse to very coarse-grained sand, gravel to 1-1/4 inches in diameter, stiff, moist, very dark brown.
			ML	
17/50-6"		15		Silt, trace very coarse-grained sand, trace gravel to 1/4 inch in diameter, hard, moist, yellowish brown.
11/23/28		20		Silt, trace medium coarse-grained sand, hard, moist, olive brown.

BORING LOG

Project No. KEI-P94-0903.P1	**Boring Diameter** 8.5" **Casing Diameter** 2"	**Logged By** T.S. JGG CEG/1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation**	**Date Drilled** 2/6/95
Boring No. MW2B	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
			ML	Silt, as above.
			SP	Poorly graded sand with gravel, trace silt, estimated at 15-20% gravel to 3/4 inch in diameter, sand is medium to coarse-grained, medium dense, moist, dark greenish gray.
9/16/16		25	ML	Silt, trace fine to medium-grained sand, very stiff, moist, dark greenish gray.
				Silt, trace very fine to fine-grained sand, very stiff, moist, dark greenish gray.
8/13/14		30	SP-SM	Poorly graded sand with silt, estimated at 20% gravel to 1-1/2 inches in diameter, 10% silt, sand is predominantly medium-grained, medium dense, moist, dark greenish gray.
27/50-6"		35	GW	Well graded gravel with sand, trace silt, gravel to 2 inches in diameter, sand is fine to very coarse-grained, very dense, moist, dark greenish gray.
12/21/26		40	ML	Gravelly silt, estimated at 10-15% fine to medium-grained sand, gravel to 3/4 inch in diameter, hard, moist, dark yellowish brown and pale green, mottled.
			SP	Poorly graded sand with gravel, trace silt, estimated at 20-25% gravel to 1/2 inch in diameter, sand is predominantly fint to medium-grained, very dense, moist, grayish green and olive yellow, mottled.

BORING LOG

Project No. KEI-P94-0903.P1	**Boring Diameter** 8.5" **Casing Diameter** 2"	**Logged By** T.S. J66 CEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation**	**Date Drilled** 2/6/95
Boring No. MW2B	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
40/50-6"		45	SP	Poorly graded sand with gravel, trace silt, estimated at 20-25% gravel to 1/2 inch in diameter, sand is predominantly fint to medium-grained, very dense, moist, grayish green and olive yellow, mottled.
20/31/46		50	GM	Silty gravel with sand, estimated at 10-20% silt, 25-30% medium to very coarse-grained sand, gravel to 1 inch in diameter, very dense, moist, dark olive brown.
				Silty gravel with sand as above, except dense to very dense.
12/21/33		55	ML	Silt, trace medium to very coarse-grained sand, hard, moist, yellowish red.
28/39/43		60		Silt, trace very coarse-grained sand and gravel to 1/4 inch in diameter, trace clay, hard, moist, strong brown, with weathered biotite.
29/50-3"		65	GW-GC	Well graded gravel with clay and sand, trace silt, sand is medium to very coarse-grained, very dense, moist, dark yellowish brown.

BORING LOG

Project No. KEI-P94-0903.P1	**Boring Diameter** 8.5" / **Casing Diameter** 2"	**Logged By** T.S. JGG CEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation**	**Date Drilled** 2/6/95
Boring No. MW2B	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
			GW-GC	Well graded gravel with clay and sand, trace silt, sand is medium to very coarse-grained, very dense, moist, dark yellowish brown.
27/50-6"	▽	70	GC	Clayey gravel with sand, estimated at 15% clay, 5-10% silt, 10-15% medium to coarse-grained sand, gravel to 1-1/2 inches in diameter, very dense, moist, yellowish brown.
9/27/50-5"		75	ML	Silt, estimated at 5-10% clay, trace coarse to very coarse-grained sand and gravel to 1/2 inch in diameter, hard, moist, yellowish brown.
37/50-3"		80	SW	Well graded sand with gravel, sand is medium to very coarse-grained, gravel to 1/2 inch in diameter, very dense, moist, yellowish brown, with charcoal.
41/50-3"				Well graded sand with gravel as above.
39/50-6"		85	ML	Silt, trace gravel to 1 inch in diameter, trace clay, hard, moist, olive brown.
41/50-4"			GM	Silty gravel, estimated at 10-15% medium to very coarse-grained sand, gravel to 1 inch in diameter, very dense, moist, olive brown.

BORING LOG

Project No. KEI-P94-0903.P1	**Boring Diameter** 8.5"	**Logged By** T.S. JTG CE6/633
	Casing Diameter 2"	
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation**	**Date Drilled** 2/6/95
Boring No. MW2B	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
			ML	Silt, trace very coarse-grained sand, trace clay, hard, moist, olive brown.
50/50-4"		90	SW	Well graded sand with gravel, trace to 10% silt, estimated at 20-25% gravel to 3/4 inch in diameter, sand is fine to coarse-grained, hard, moist, olive brown.
				Total Depth: 91'
		95		
		100		
		105		

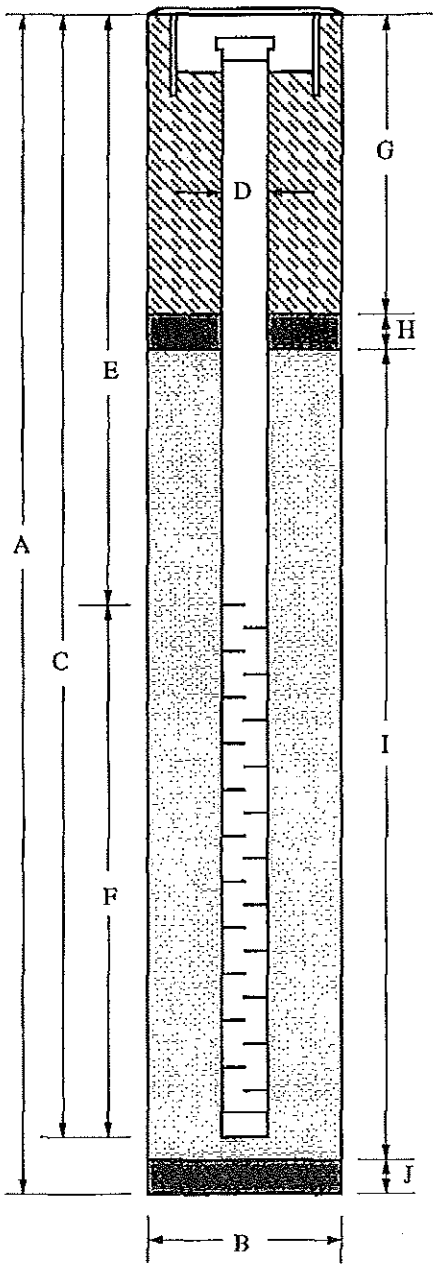
WELL CONSTRUCTION DIAGRAM

PROJECT NAME: Unocal S/S #7376, 4191 1st Street, Pleasanton, CA **WELL NO.:** MW2B

PROJECT NUMBER: KEI-P94-0903.P1

WELL PERMIT NO.: ACFC & WCD #95024

Flush-mounted Well Cover



A. Total Depth : 91'

B. Boring Diameter: 8.5"

Drilling Method: Hollow Stem Auger

C. Casing Length: 85'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 65'

F. Perforated Length: 20'

Perforation Type: Machine Slotted

Perforation Size: 0.010"

G. Surface Seal: 61'

Seal Material: Neat Cement

H. Seal: 2'

Seal Material: Bentonite

I. Filter Pack: 22'

Pack Material: RMC Lonestar Sand

Size: #2/12

J. Bottom Seal: 6'

Seal Material: Bentonite Chips

BORING LOG

Project No. KEI-P94-0903.P2R	**Boring Diameter** 8.5" **Casing Diameter** 2"	**Logged By** TGG CEG/633 T.S.
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation** N/A	**Date Drilled** 7/24/96
Boring No. MW4	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Pene-tration blows/6"	G.W level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
			0		Pavement over base gravel.
					Sandy silt with gravel to 1 inch in diameter, firm, moist, dark brown (fill).
10/11/30			5		Silt, estimated at 5-10% medium to coarse-grained sand, trace gravel to 1/2 inch in diameter, very stiff to hard, moist, brown.
20/23/25					Silt, estimated at 10-20% predominantly fine-grained sand, 15-25% clay and trace gravel to 1/2 inch in diameter, hard, moist, yellowish brown.
19/22/23			10	ML	Sandy silt, trace gravel to 3/4 inch in diameter, sand is fine to coarse-grained, hard, moist, dark yellowish brown.
14/19/21			15		Sandy silt, estimated at 30-35% fine to very coarse-grained sand and 10-20% clay, hard, moist, dark yellowish brown.
13/14/14			20	GW-GM	Sandy well graded gravel, estimated at 25-30% predominantly fine to medium-grained sand and 5-15% silt, gravel to 1 inch in diameter, medium dense, moist, dark yellowish brown.

BORING LOG

Project No. KEI-P94-0903.P2R	**Boring Diameter** 8.5" **Casing Diameter** 2"	**Logged By** JGG **T.S.** CEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation** N/A	**Date Drilled** 7/24/96
Boring No. MW4	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Pene-tration blows/6"	G.W. level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
				GW-GM	Sandy well graded gravel, estimated at 25-30% predominantly fine to medium-grained sand and 5-15% silt, gravel to 1 inch in diameter, medium dense, moist, dark yellowish brown.
28/38/32			25	SW-SM	Well graded sand with silt and gravel, estimated at 15-25% gravel to 1 inch in diameter and 5-15% silt, sand is fine to coarse-grained, very dense, moist, dark yellowish brown.
25/38/37				GW-GM	Sandy well graded gravel, estimated at 20-30% fine to coarse-grained sand and 5-15% silt, gravel to 1-1/2 inches in diameter, very dense, moist, dark yellowish brown.
36/26/30			30		Well graded sand with silt and gravel, estimated at 15-25% gravel to 3/4 inch in diameter and 5-15% silt, sand is fine to coarse-grained, very dense, moist, dark yellowish brown.
24/25/27			35	SW-SM	Gravelly sand, estimated at 20-25% gravel to 2 inches in diameter and 5-15% silt, sand is predominantly fine to medium-grained, very dense, moist, dark yellowish brown.
					Gravelly sand as above.
20/12/10			40	SM	Silty sand, estimated at 10-20% silt, sand is fine to coarse-grained, medium dense, moist, dark yellowish brown.
17/19/22				GM	Silty gravel with sand, estimated at 15-25% silt and 10-20% medium to coarse-grained sand, gravel to 1-1/4 inches in diameter, dense to very dense, moist, dark yellowish brown.
				SM	Silty sand with gravel, estimated at 20-25% gravel to 1/2 inch in diameter and 15-20% silt, sand is fine to coarse-grained, dense to very dense, moist, dark yellowish brown, moist at gravel margins.

BORING LOG

Project No. KEI-P94-0903.P2R	**Boring Diameter** 8.5" **Casing Diameter** 2"	**Logged By** JG 6 T.S. CEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation** N/A	**Date Drilled** 7/24/96
Boring No. MW4	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Pene-tration blows/6"	G.W. level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
17/19/22			45	SM	Silty sand with gravel, estimated at 20-25% gravel to 1/2 inch in diameter and 15-20% silt, sand is fine to coarse-grained, dense to very dense, moist, dark yellowish brown, moist at gravel margins.
8/10/11			50	ML	Clayey silt, trace sand, very stiff, moist, yellowish brown.
15/18/20				SP-SM	Sandy silt, estimated at 10-20% very fine to fine-grained sand, very stiff, moist, greenish gray. Poorly graded sand with silt and gravel, estimated at 5-10% silt, sand is predominantly medium to coarse-grained, gravel to 1-1/4 inches in diameter, dense, moist, dark yellowish brown.
21/25/27			55		Poorly graded sand with silt and gravel, as above except, dense to very dense.
15/8/9			60	ML	Gravelly silt, estimated at 20-30% gravel to 2 inches in diameter and 5-15% sand, very stiff, moist, olive.
19/26/38			65	GC	Clayey gravel with sand, estimated at 30-35% medium to coarse-grained sand and 10-20% clay, gravel to 1-1/4 inches in diameter, dense to very dense, moist, dark yellowish brown.

BORING LOG

Project No. KEI-P94-0903.P2R	**Boring Diameter** 8.5" / **Casing Diameter** 2"	**Logged By** T.S. JG6 CEG1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation** N/A	**Date Drilled** 7/24/96
Boring No. MW4	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Pene-tration blows/6"	G.W. level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
				GC	Clayey gravel with sand, estimated at 30-35% medium to coarse-grained sand and 10-20% clay, gravel to 1-1/4 inches in diameter, dense to very dense, moist, dark yellowish brown.
11/17/20			70	SC	Clayey sand, estimated at 15-25% clay and 15-25% gravel to 3/4 inch in diameter, sand is fine to coarse-grained, medium dense to dense, moist, dark yellowish brown.
14/30/39			75	GC	Clayey gravel, estimated at 20-30% fine to coarse-grained sand and 10-20% clay, gravel to 3/4 inch in diameter, dense to very dense, moist, yellowish brown.
19/36/38	▽		80	SC	Clayey sand with gravel, estimated at 20-25% gravel to 1 inch in diameter and 10-20% clay, sand is well graded and medium to very coarse-grained, very dense, moist to wet, dark yellowish brown.
20/29/30			85		Clayey sand with gravel, estimated at 15-20% gravel and 10-20% clay, sand is fine to very coarse-grained, predominantly very coarse-grained, dense to very dense, wet, yellowish brown.
25/30/32				CL	Clay, estimated at 10-15% gravel to 1 inch in diameter and 10-15% fine to medium-grained sand, hard, moist, olive, black staining.

BORING LOG

Project No. KEI-P94-0903.P2R	**Boring Diameter** 8.5" **Casing Diameter** 2"	**Logged By** JGC T.S. LEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton, CA	**Well Cover Elevation** N/A	**Date Drilled** 7/24/96
Boring No. MW4	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Pene-tration blows/6"	G.W. level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
				CL	Clay, estimated at 10-15% gravel to 1 inch in diameter and 10-15% fine to medium-grained sand, hard, moist, olive, black staining.
34/50-6"			90	GP-GM	Sandy gravel, estimated at 20-30% predominantly fine-grained sand and 5-15% silt, gravel to 1-1/2 inches in diameter, very dense, moist to wet, dark yellowish brown, moisture at clast boundaries.
33/50-6"					
			95		TOTAL DEPTH: 93'
			100		
			105		

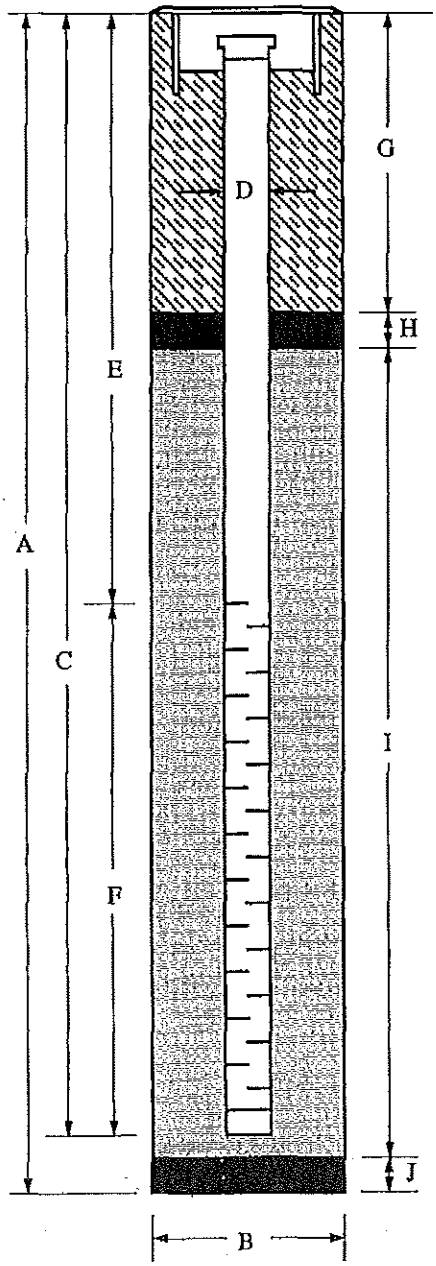
WELL CONSTRUCTION DIAGRAM

PROJECT NAME: Unocal S/S #7376, 4191 1st Street, Pleasanton, CA **WELL NO.:** MW4

PROJECT NUMBER: KEI-P94-0903.P2R

WELL PERMIT NO.:

Flush-mounted Well Cover



A. Total Depth : 93'

B. Boring Diameter: 8.5"

Drilling Method: Hollow Stem Auger

C. Casing Length: 93'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 73'

F. Perforated Length: 20'

Perforation Type: Machine Slotted

Perforation Size: 0.010"

G. Surface Seal: 69'

Seal Material: Neat Cement

H. Seal: 2'

Seal Material: Bentonite

I. Filter Pack: 22'

Pack Material: RMC Lonestar Sand

Size: #2/12

J. Bottom Seal: 1.5'

Seal Material: N/A

BORING LOG

Project No. KEI-P94-0903.P2R	**Boring Diameter** 8.5" **Casing Diameter** 2"	**Logged By** JGG T.S. CEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton	**Well Cover Elevation** N/A	**Date Drilled** 7/23/96
Boring No. MW5	**Drilling Method** Hollow-stem Auger	**Drilling Company** V&W Drilling

Penetration blows/6"	G.W level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
			0		Silty gravel with sand, loose, moist, dark brown (fill).
7/8/8			5		Sandy silt with clay, estimated at 15-20% sand, 5-15% clay and trace gravel to 3/4 inch in diameter, medium dense, moist, dark yellowish brown (fill).
					NATIVE SOIL
6/9/9			10	ML	Silt, estimated at 15-20% fine to medium-grained sand and 10-15% gravel to 1 inch in diameter, stiff to very stiff, moist, dark brown.
14/16/17			15	GW-GM	Sandy gravel, estimated at 10-15% silt, gravel to 1-1/4 inches in diameter, dense, moist, yellowish brown.
14/15/16			20	SW	Sand, fine to medium-grained, estimated at 5-10% silt and trace coarse-grained sand, dense, moist, greenish gray.

BORING LOG

Project No. KBI-P94-0903.P2R	**Boring Diameter** 8.5" **Casing Diameter** 2"	**Logged By** JGG **T.S.** CEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton	**Well Cover Elevation** N/A	**Date Drilled** 7/23/96
Boring No. MW5	**Drilling Method** Hollow-stem Auger	**Drilling Company** V&W Drilling

Pene-tration blows/6"	G.W. level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
				SW	Sand, fine to medium-grained, estimated at 5-10% silt, trace coarse-grained sand, dense, moist, greenish gray.
11/14/20			25	ML	Silt, estimated at 10-20% fine to medium-grained sand and 10-15% clay, very stiff to hard, moist, dark yellowish brown and dark greenish gray, mottled.
9/11/16			30	SP-SM	Sand, predominantly fine to medium-grained, estimated at 5-10% silt, medium dense, moist, greenish gray.
8/10/13			35	ML	Silt, estimated at 10-20% fine to medium-grained sand, very stiff, moist, greenish gray and dark olive, mottled.
7/9/10			40		Silt, estimated at 5-15% fine-grained sand, very stiff, moist, dark yellowish brown and greenish gray, mottled.

BORING LOG

Project No. KEI-P94-0903.P2R	**Boring Diameter** 8.5" / **Casing Diameter** 2"	**Logged By** JGC / **T.S.** LEG 1633
Project Name Unocal S/S #7376, 4191 1st Street, Pleasanton	**Well Cover Elevation** N/A	**Date Drilled** 7/23/96
Boring No. MW5	**Drilling Method** Hollow-stem Auger	**Drilling Company** V&W Drilling

Pene-tration blows/6"	G.W. level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
13/14/17			45	ML	Clayey silt, very stiff, moist, predominantly yellowish brown, greenish gray staining.
4/8/17			50		Clayey silt, trace pebbles, very stiff to hard, moist, dark yellowish brown and greenish gray, mottled, black staining.
12/17/20			55		Silt, estimated at 10-15% sand, trace gravel to 3/4 inch in diameter, variable clay content, very stiff to hard, moist, dark yellowish brown, greenish gray staining.
21/30/32			60	SW-SM	Well graded sand with silt and gravel, estimated at 5-15% silt and 5-15% gravel to 3/4 inch in diameter, sand is fine to coarse-grained, very dense, moist, greenish gray and dark yellowish brown, mottled.
40/50-6"	▽		65		Well graded sand with silt and gravel, as above except estimated at 10-20% gravel to 1-1/4 inches in diameter.

BORING LOG

Project No. KEI-P94-0903.P2R	**Boring Diameter** 8.5" **Casing Diameter** 2"	**Logged By** T.S. JG6 CEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton	**Well Cover Elevation** N/A	**Date Drilled** 7/23/96
Boring No. MW5	**Drilling Method** Hollow-stem Auger	**Drilling Company** V&W Drilling

Pene-tration blows/6"	G.W. level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
50-6"				SM	Silty sand with gravel, estimated at 15-25% gravel to 1 inch in diameter and 10-20% silt, very dense, saturated, olive brown.
10/13/19			70	CL	Sandy clay, estimated at 20-30% fine to coarse-grained sand, very stiff, wet, yellowish brown.
12/15/16				SC	Clayey sand, estimated at 25-35% clay, sand is fine to coarse-grained, medium dense to dense, wet, yellowish brown.
			75		TOTAL DEPTH: 73.5'
			80		
			85		

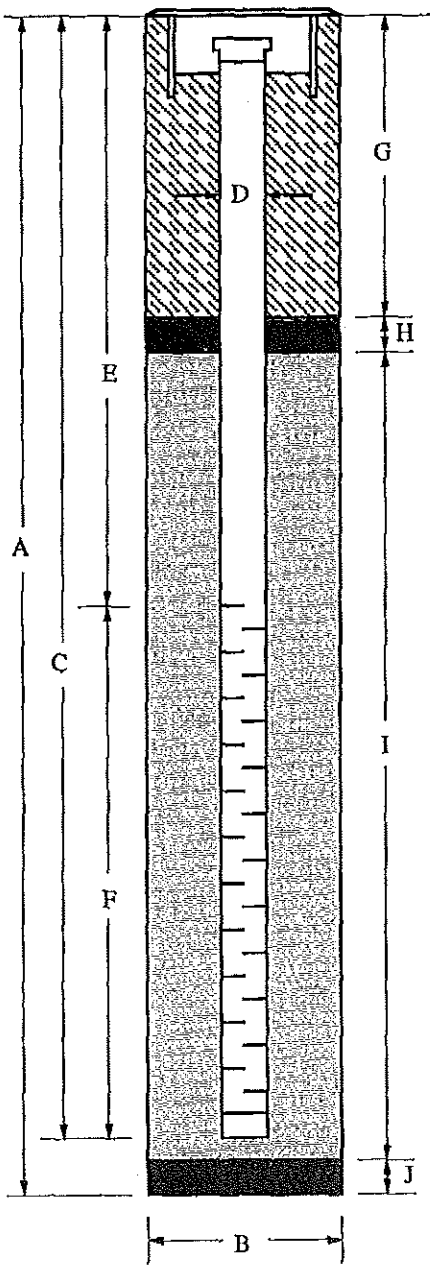
WELL CONSTRUCTION DIAGRAM

PROJECT NAME: Unocal S/S #7376, 4191 1st Street, Pleasanton, CA **WELL NO.:** MW5

PROJECT NUMBER: KEI-P94-0903.P2R

WELL PERMIT NO.:

Flush-mounted Well Cover



A. Total Depth : 73.5'

B. Boring Diameter: 8.5"

Drilling Method: Hollow Stem Auger

C. Casing Length: 72'

Material: Schedule 40 PVC

D. Casing Diameter: OD ≈ 2.375"

ID = 2.067"

E. Depth to Perforations: 52'

F. Perforated Length: 20'

Perforation Type: Machine Slotted

Perforation Size: 0.010"

G. Surface Seal: 48'

Seal Material: Neat Cement

H. Seal: 2'

Seal Material: Bentonite

I. Filter Pack: 22'

Pack Material: RMC Lonestar Sand

Size: #2/12

J. Bottom Seal: 1.5'

Seal Material: Bentonite

BORING LOG

Project No. KEI-P 94-0903.P2R	**Boring Diameter** 8.5" / **Casing Diameter** 2"	**Logged By** T.S. JG6 CEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton	**Well Cover Elevation** N/A	**Date Drilled** 7/23-24/96
Boring No. MW6	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Penetration blows/6"	G.W level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
			0		Gravelly silt, estimated at 15-20% gravel to 1 3/4 inches in diameter, and 15-20% sand, loose, moist, dark brown (fill).
2/5/9			5		Silt, estimated at 15-20% predominantly fine-grained sand, and 5-10% gravel to 3/4 inch in diameter, firm, moist, dark brown (fill).
6/7/8			10		Silty sand, estimated at 20-30% silt, and 5-10% gravel to 1/2 inch in diameter, sand is predominantly fine-grained, medium dense, moist, yellowish brown (fill).
10/11/13			15	SC	Clayey sand with gravel, estimated at 15-25% clay and 5-10% gravel to 1 inch in diameter, sand is fine to coarse-grained, medium dense, moist, dark yellowish brown.
19/21/29			20		Clayey sand, estimated at 20-30% clay, trace gravel to 3/4 inch in diameter, sand is predominantly medium-grained, dense, moist, dark yellowish brown.

BORING LOG

Project No. KEI-P 94-0903.P2R	**Boring Diameter** 8.5" **Casing Diameter** 2"	**Logged By** JGG T.S. LEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton	**Well Cover Elevation** N/A	**Date Drilled** 7/23-24/96
Boring No. MW6	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Pene-tration blows/6"	G.W. level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
				SC	Clayey sand, estimated at 20-30% clay, trace gravel to 3/4 inch in diameter, sand is predominantly medium-grained, dense, moist, dark yellowish brown.
36/50-6"			25	SW	Gravelly sand, estimated at 10-15% gravel to 3/4 inch in diameter, trace silt, sand is fine to coarse-grained, very dense, moist, dark olive.
39/50-6"		No recovery	30		2" gravel clast in shoe of sampler.
9/11/12			35	ML	Silt, estimated at 5-15% sand, very stiff, moist, olive and yellowish brown, mottled, black staining.
16/20/20			40	CL	Sandy clay, estimated at 20-30% predominantly fine-grained sand, hard, moist, dark yellowish brown and greenish gray, mottled, black staining.
				ML	Sandy silt, estimated at 20-30% predominantly fine-grained sand and 5-15% clay, very stiff, moist, greenish gray and dark yellowish brown, mottled.

BORING LOG

Project No. KEI-P 94-0903.P2R	**Boring Diameter** 8.5" / **Casing Diameter** 2"	**Logged By** T.S. JGG CEG 1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton	**Well Cover Elevation** N/A	**Date Drilled** 7/23-24/96
Boring No. MW6	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Pene-tration blows/6"	G.W. level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
11/12/18			45	ML	Sandy silt, estimated at 20-30% predominantly fine-grained sand, and 5-15% clay, very stiff, moist, greenish gray and dark yellowish brown, mottled.
29/50-6"			50	GW-GM	Sandy gravel, estimated at 20-30% fine to coarse-grained sand and 10-15% silt, gravel to 1 inch in diameter, very dense, moist, olive.
23/28/31			55	GM	Silty gravel, estimated at 20-30% fine to coarse-grained sand and 15-25% silt, gravel to 2 inches in diameter, very dense, moist, dark yellowish brown, moisture along clast boundaries.
14/23/34			60	GC	Clayey gravel, estimated at 20-30% fine to coarse-grained sand and 10-20% clay, gravel to 1-1/2 inches in diameter, dense to very dense, moist, yellowish brown.
20/28/29					Clayey gravel, as above.
29/39/50			65		Clayey gravel, estimated at 20-30% fine to coarse-grained sand and 10-20% clay, gravel to 1-1/2 inches in diameter, very dense, moist, yellowish brown, moisture at clast margins.

BORING LOG

Project No. KEI-P 94-0903.P2R	**Boring Diameter** 8.5" **Casing Diameter** 2"	**Logged By** T.S. JGG LEG1633
Project Name Unocal S/S #7376 4191 1st Street, Pleasanton	**Well Cover Elevation** N/A	**Date Drilled** 7/23-24/96
Boring No. MW6	**Drilling Method** Hollow-stem Auger	**Drilling Company** V & W Drilling

Pene-tration blows/6"	G.W. level	O.V.M. (P.P.M.)	Depth (feet) Samples	Stratigraphy USCS	Description
24/50-6"				GM	Silty gravel, estimated at 15-25% fine to coarse-grained sand and 10-20% silt, gravel to 2 inches in diameter, very dense, moist to wet, yellowish brown.
21/12/13			70	ML	Silt, hard to very stiff, moist, yellowish brown.
12/13/14					Silty sand, estimated at 20-30% silt, sand is predominantly very fine to fine-grained, medium dense, moist, yellowish brown.
50/50-6"			75	SW	Sand with gravel and silt, estimated at 20-25% gravel to 3/4 inch in diameter and 5-10% silt, sand is predominantly fine to medium-grained, very dense, moist, dark yellowish brown.
31/50-6"	▽			SM	Silty sand with gravel, estimated at 15-20% gravel to 1 inch in diameter, and 10-20% silt, sand is fine to coarse-grained, very dense, moist to wet, dark yellowish brown.
33/50-6"			80		Silty sand with gravel, as above.
				SP	Poorly graded sand, predominantly medium-grained, medium dense, saturated, olive brown.
8/10/11			85	GW	Well graded gravel with sand, gravel to 1/2 inch in diameter, medium to very coarse-grained sand, medium dense, saturated, olive brown.
33/50-3"				ML	Silty sand with gravel, estimated at 15-25% silt and 10-20% gravel to 1 inch in diameter, sand is predominantly fine to medium-grained, very dense, saturated, dark yellowish brown.

TOTAL DEPTH: 88'

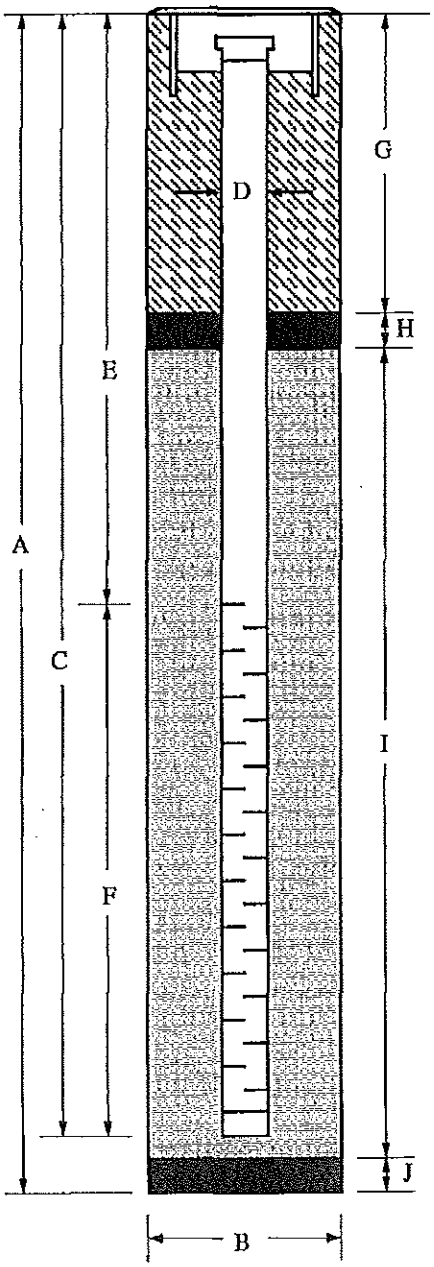
WELL CONSTRUCTION DIAGRAM

PROJECT NAME: Unocal S/S #7376, 4191 1st Street, Pleasanton **WELL NO.:** MW6

PROJECT NUMBER: KEI-P94-0903.P2R

WELL PERMIT NO.: 00000

Flush-mounted Well Cover



A. Total Depth : 88'

B. Boring Diameter: 8.5"

Drilling Method: Hollow Stem Auger

C. Casing Length: 88'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 68'

F. Perforated Length: 20'

Perforation Type: Machine Slotted

Perforation Size: 0.010"

G. Surface Seal: 64'

Seal Material: Neat Cement

H. Seal: 2'

Seal Material: Bentonite

I. Filter Pack: 22'

Pack Material: RMC Lonestar Sand

Size: #2/12

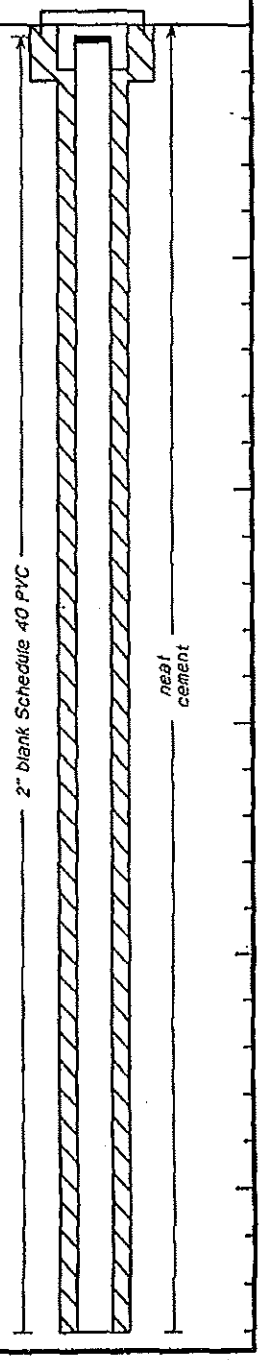
J. Bottom Seal: None

Seal Material: N/A

Gettler-Ryan Inc.	Log of Boring MW-7
PROJECT: *Tosco (Unocal) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
PROJECT NO.: *140107.02*	CASING ELEVATION: *355.97 feet MSL*
DATE STARTED: *08/14/98*	WL (ft. bgs): *61.8* DATE: *08/14/98* TIME: *2:00 pm*
DATE FINISHED: *08/14/98*	WL (ft. bgs): *64.30* DATE: *08/14/98* TIME: *2:00 pm*
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *75 Feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
5	2	11	MW-7-6			ML	SILT (ML) – dark brown (10YR 3/3), damp, stiff, slight plasticity, 80% silt, 15% clay, 5% fine sand, trace gravel.
10	1	42	MW-7-11			GM	SILTY GRAVEL (GM) – brown (7.5YR 4/4), damp, very dense, 65% subangular to rounded fine gravel, 20% silt, 15% fine to coarse sand.
						ML	
15	0	66	MW-7-16.5				SILT WITH SAND (ML) – dark yellowish brown (10YR 4/4), damp, hard, 70% silt, 20% fine to coarse sand, 10% clay.
20		61	MW-7-21.5				SILT (ML) – yellowish brown (10YR 5/4), damp, hard, 60% silt, 35% clay, 5% fine to medium sand.
25							Color change to olive gray (5Y 4/2) with greenish gray (5G 5/1) mottling.
	0	28	MW-7-26.5			SW	SAND (SW) – olive gray (5Y 4/2), moist, medium dense, 95% fine to medium sand, 5% clay.
						GM	
	3.2	34	MW-7-28				SILTY GRAVEL (GM) – olive gray (5Y 4/2), moist, very dense, 75% subangular to rounded gravel, 20% silt, 5% fine to coarse sand.

WELL DIAGRAM



JOB NUMBER: *140107.02*

Gettler-Ryan Inc.

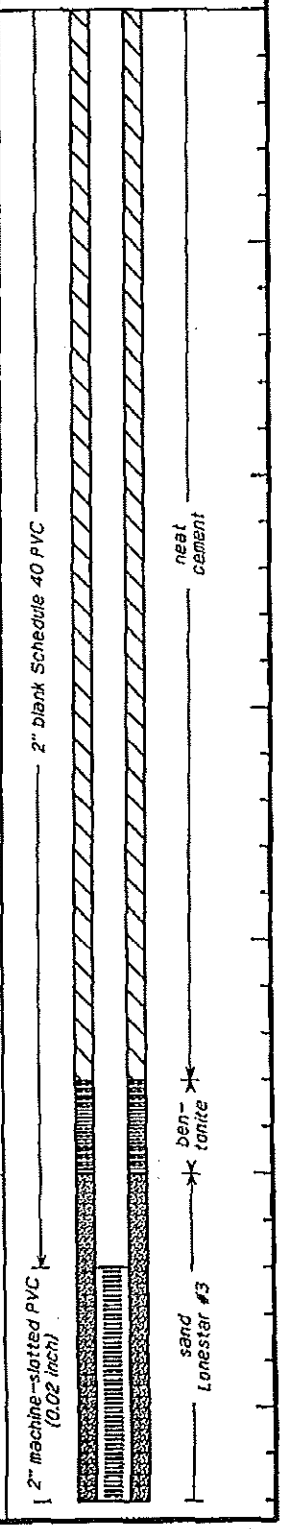
Log of Boring MW-7

PROJECT: *Tosco (Unocal) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
	2	73	MW-7-29	GM	Silt strata from 27.25 to 27.75 feet.
	–	44	MW-7-30.5	GW	GRAVEL WITH SAND (GW) – olive gray (10YR 4/2), saturated, very dense, 70% subangular to rounded fine gravel, 25% fine to coarse sand, 5% silt.
	1.4	77	MW-7-32.5		Becomes 55% fine gravel, 45% medium to coarse sand.
33		78	MW-7-34.5		
	0	18	MW-7-36.5	CL	CLAY (CL) – dark yellowish brown (10YR 4/6), saturated, very stiff, medium plasticity, 60% clay, 35% silt, 5% fine sand.
38					Sand strata from 40.25 to 40.5 feet.
	0	66	MW-7-42		Becomes dry, hard at 41 feet.
43					
	0	48	MW-7-46.5		
48				ML	SILT (ML) – yellowish brown (10YR 5/4), moist, very stiff, no plasticity, 80% silt, 15% clay, 5% fine sand.
	0	32	MW-7-51.5		
53				SM	SILTY SAND (SM) – dark yellowish brown (10YR 4/6), moist to damp, dense, 70% subangular to rounded fine sand, 25% silt, 5% clay.
	0	50	MW-7-56.5		
58				GW GC	

WELL DIAGRAM



JOB NUMBER: *140107.02*

Gettler-Ryan Inc.

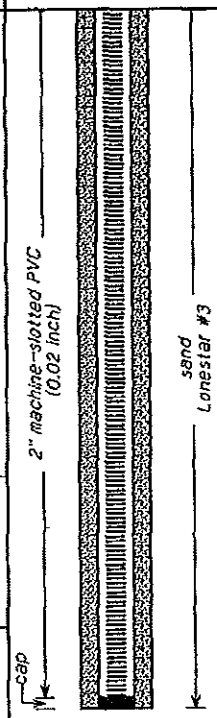
Log of Boring MW-7

PROJECT: *Tosco (Unocal) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
	0	70	MW-7-60.5			GW GC	GRAVEL WITH CLAY AND SAND (GW-GC) – dark yellowish brown (10YR 4/6), moist, very dense, 70% subangular to rounded fine gravel, 25% medium to coarse sand, 10% clay.
	0	79	MW-7-62.5				Color change to olive gray (5Y 5/2) at 62 feet, becomes saturated.
	4.4	66	MW-7-64.5				Sand layer from 64.25 to 64.5 feet.
65	–	57	MW-7-66.5				Abundant water at 66 feet.
	10	57	MW-7-68.5				
70	0	58	MW-7-70.5			SW SC	SAND WITH CLAY (SW-SC) – strong brown (7.5YR 4/6), saturated, very dense, 85% subangular to rounded fine to very coarse sand, 10% clay, 5% fine gravel.
	0	60	MW-7-73.5			CL	CLAY (CL) – dark yellowish brown (10YR 4/6), moist, hard, medium plasticity, 85% clay, 10% silt, 5% fine sand.
75							(* Converted to standard penetration blows/foot.)
80							
85							
90							

WELL DIAGRAM



JOB NUMBER: *140107.02*

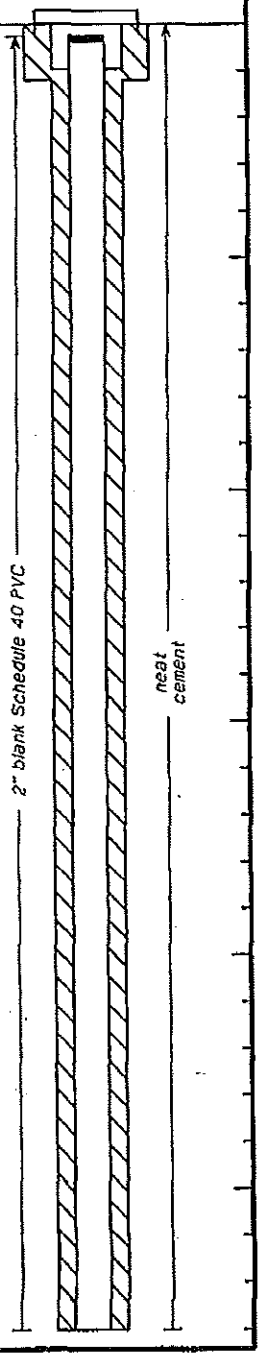
Gettler-Ryan Inc.

Log of Boring MW-8

PROJECT: *Tosco (Unocal) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
PROJECT NO.: *140107.02*	CASING ELEVATION: *362.37 feet MSL*
DATE STARTED: *06/12/98*	WL (ft. bgs): *40* DATE: TIME:
DATE FINISHED: *06/12/98*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *87.2 Feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
5	5	16	MW-8-6			GM	SILTY GRAVEL (GM) - dark brown (10YR 3/3), damp, medium dense, 70% subangular to rounded fine gravel, 20% silt, 10% fine to coarse sand.
10	3	21	MW-8-11			ML	
15	2	14	MW-8-16.5				SILT (ML) - very dark grayish brown (10YR 3/2), damp to moist, very stiff, non plastic, 75% silt, 20% clay, 5% fine sand.
20	4	22	MW-8-21.5				Color change to dark brown (10YR 4/4).
25	2	33	MW-8-26				Becomes damp, hard, non plastic, 70% silt, 20% clay, 10% fine to coarse sand.

WELL DIAGRAM



Gettler-Ryan Inc.

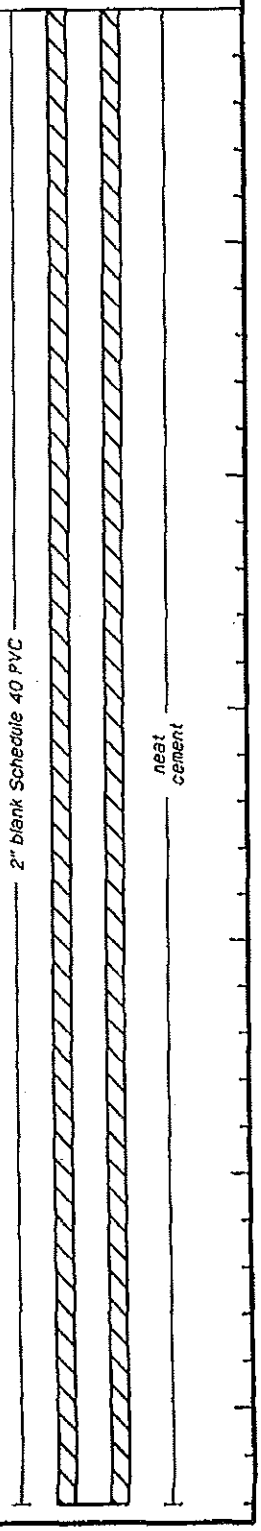
Log of Boring MW-8

PROJECT: *Tosco (Unocal) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
						ML	
	2	38	MW-8-32				
33							Color change to olive gray (5Y 4/2) with dark greenish gray (5BG 4/1) mottling, becomes moist, hard, slight plasticity, 60% silt, 35% clay, 5% fine sand.
	2	66	MW-8-37			SP	SAND (SP) - olive gray (5Y 4/2), moist, very dense, 95% subangular to rounded fine to medium sand, 5% clay.
38							▽
	7	41	MW-8-41			GW	GRAVEL WITH SAND (GW) - dark greenish gray (5GY 4/1), saturated, very dense, 70% subangular to rounded fine gravel, 25% fine to coarse sand, 5% clay.
43							
	321	11	MW-8-46.5			ML	SILT (ML) - dark yellowish brown (10YR 4/4), moist to damp, hard, non plastic, 80% silt, 20% clay, trace fine sand.
	23	21	MW-8-46.5				
48							Becomes moist, 75% silt, 20% clay, 5% fine to medium sand.
	20	29	MW-8-51.5				
53						CL	
	39	61	MW-8-57				CLAY (CL) - light brownish gray (10YR 6/2) to brown (10YR 4/3), damp to moist, hard, medium plasticity, 80% clay, 20% silt, trace fine to medium sand.
58							

WELL DIAGRAM



JOB NUMBER: *140107.02*

Gettler-Ryan Inc.

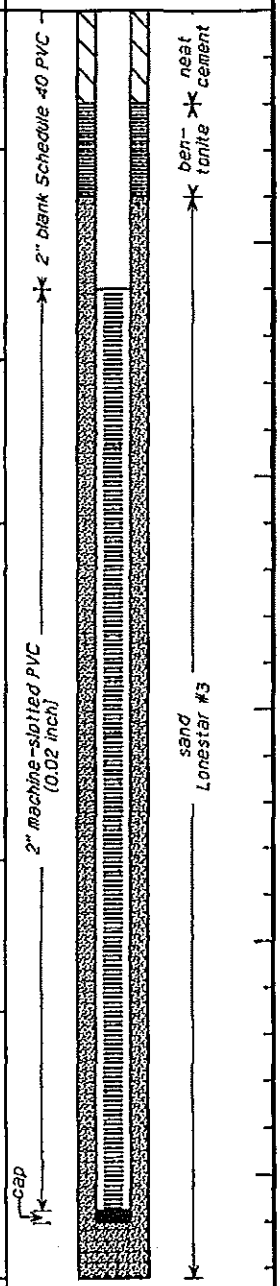
Log of Boring MW-8

PROJECT: *Tosco (Unocal) Service Station No. 7378*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
	6	32	MW-8-62	CL	
				ML	SILT (ML) – light brownish gray (10YR 6/2) to brown (10YR 4/3), damp to moist, hard, slight plasticity, 65% silt, 30% clay, 5% fine sand.
65	3	35	MW-8-67		
				GW	GRAVEL WITH SAND (GW) – strong brown (10YR 4/6), saturated to moist, very dense, 60% subangular to rounded fine grass, 35% fine to very coarse sand, 5% clay.
70	11	48	MW-8-71	GW GC	
	6	16	MW-8-72.5		GRAVEL WITH CLAY AND SAND (GW-GC) – strong brown (10YR 4/6), saturated, very dense, 60% subangular to rounded fine gravel, 30% fine to very coarse sand, 10% clay.
75	–	18	MW-8-75.5		
				ML	SILT WITH SAND (ML) – strong brown (10YR 4/6), damp to moist, hard, non plastic, 60% silt, 25% clay, 15% fine to very coarse sand, trace fine gravel.
80	12	71	MW-8-80		
	3	65	MW-8-81.5	SW SC	SAND WITH CLAY AND GRAVEL (SW-SC) – yellowish brown (10YR 5/4), damp to moist, very dense, 70% subangular to rounded fine to very coarse sand, 20% fine gravel, 10% clay.
	3	69	MW-8-83		
	6	18	MW-8-84.5		
85	5	25			No sample.
	5	44			
					(* Converted to standard penetration blows/foot.)
90					

WELL DIAGRAM



MAJOR DIVISIONS					TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN NO. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		WELL GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
			GP		POORLY GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
		GRAVELS WITH OVER 15% FINES	GM		SILTY GRAVELS, SILTY GRAVELS WITH SAND
			GC		CLAYEY GRAVELS, CLAYEY GRAVELS WITH SAND
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LITTLE OR NO FINES	SW		WELL GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
			SP		POORLY GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
		SANDS WITH OVER 15% FINES	SM		SILTY SANDS WITH OR WITHOUT GRAVEL
			SC		CLAYEY SANDS WITH OR WITHOUT GRAVEL
FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		ML		INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTS WITH SANDS AND GRAVELS
			CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY CLAYS WITH SANDS AND GRAVELS, LEAN CLAYS
			OL		ORGANIC SILTS OR CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		MH		INORGANIC SILTS, MICACEOUS OR DIATOMACIOUS, FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			CH		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH		ORGANIC SILTS OR CLAYS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS			PT		PEAT AND OTHER HIGHLY ORGANIC SOILS

LL - Liquid Limit (%)

PI - Plastic Index (%)

PID - Volatile Vapors in ppm

MA - Particle Size Analysis

2.5 YR 6/2 - Soil Color according to Munsell Soil Color Charts (1975 Edition)

5 GY 5/2 - GSA Rock Color Chart

- No Soil Sample Recovered
- "Undisturbed" Sample
- Bulk or Classification Sample
- First Encountered Ground Water Level
- Piezometric Ground Water Level

Penetration - Sample drive hammer weight - 140 pounds falling 30 inches. Blows required to drive sampler 1 foot are indicated on the logs

Unified Soil Classification - ASTM D 2488-85 and Key to Test Data

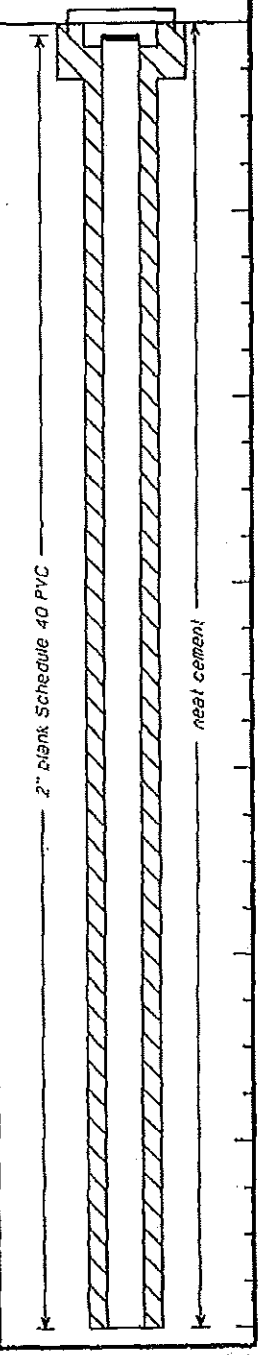
Gettler-Ryan, Inc.

Log of Boring MW-9

PROJECT: *Tosco (76) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
GR PROJECT NO.: *140107.04*	CASING ELEVATION: *354.85 feet MSL*
DATE STARTED: *10/07/99*	WL (ft. bgs): *73.85* DATE: *10/07/99* TIME: *1:30 pm*
DATE FINISHED: *10/07/99*	WL (ft. bgs): *71.73* DATE: *10/07/99* TIME: *3:10 pm*
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *76 feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
4		13	MW-9-8			ML	SILT with SAND (ML) - dark brown (10YR 4/3), moist, stiff, non-plastic; 80% silt, 15% fine to coarse sand, 5% gravel.
							Change at 2.5 feet to dark brown (10YR 3/3).
							Change at 4.25 feet to SILT (ML) - brown (10YR 4/3), moist, very stiff, non-plastic; 90-100% silt, 0-10% very fine sand.
8							
12	0	18	MW-9-11				Change at 10 feet to SILT with SAND (ML) - brown (10YR 4/3), moist, very stiff; 80% silt, 20% fine to coarse sand.
16	0	56	MW-9-16				Change at 15 feet to dark yellowish brown (10YR 4/4).
20	0	48	MW-9-21				Change at 20 feet to SILT (ML) - brown (7.5YR 5/4) with dark grayish brown (10YR 4/2) mottling, moist, hard; 65% silt, 25% clay, 10% fine to coarse sand.
24						CL	CLAY (CL) - dark yellowish brown (10YR 4/4), moist, hard, moderately plastic; 75% clay, 15% silt, 10% fine to coarse sand.
	0	38	MW-9-26			GW	GRAVEL (GW) - dark grayish brown (2.5Y 4/2), moist to saturated, very dense; 70% subangular to rounded fine gravel, 25% 90% subangular to rounded fine gravel, 5% fine to coarse sand, 5% clay.
28							

WELL DIAGRAM



JOB NUMBER: *140107.04*

Gettler-Ryan, Inc.

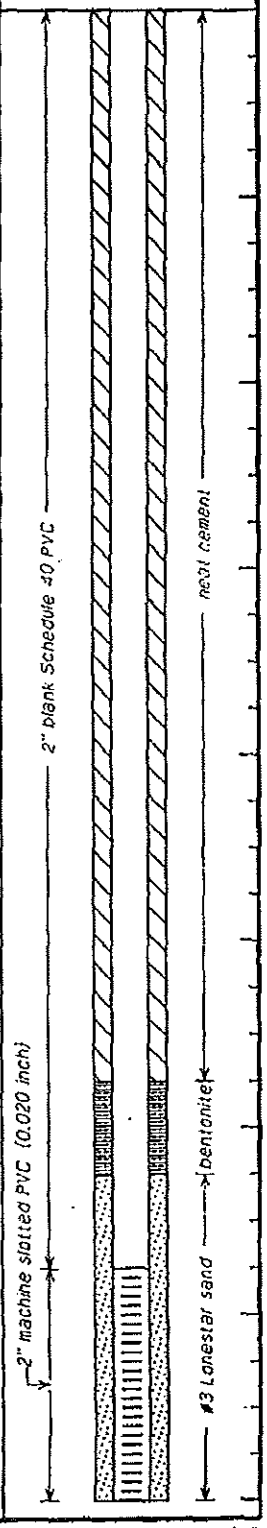
Log of Boring MW-9

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
32	0	<100	MW-9-30.5	GW	GRAVEL (GW) - dark grayish brown (2.5Y 4/2), moist to saturated, very dense; 70% subangular to rounded fine gravel, 25% 90% subangular to rounded fine gravel, 5% fine to coarse sand, 5% clay.
36	1	<100			No sample recovery
40	0	24	MW-9-41	CL	CLAY (CL) - light yellowish gray (2.5Y 6/2) to dark brown (10YR 4/3), moist to saturated, very stiff, very plastic; 80% clay, 15% silt, 5% fine sand.
					Change at 41 feet to SANDY CLAY with GRAVEL (CL) - saturated, slightly plastic; 65% clay, 20% very fine to coarse sand, 15% fine gravel.
44				SW	SAND (SW) - dark yellowish brown (10YR 4/6), saturated, very dense, 95% subangular to rounded fine to coarse sand, 5% clay.
48	0	56	MW-9-46.5	GW CL	GRAVEL (GW) - dark yellowish brown (10YR 4/6), saturated, very dense; 75% subangular to rounded fine gravel, 20% fine to coarse sand, 5% clay. CLAY (CL) - dark yellowish brown (10YR 4/6), saturated, hard, plastic; 90% clay, 5% silt, 5% fine sand.
52	0	31	MW-9-51		*Change at 50 feet to brown (10YR 5/3) to light yellowish brown (2.5Y 6/3) with black manganese oxide staining.*
56	0	<100	MW-9-56	SM	SILTY SAND (SM) - brown (10YR 4/3), saturated, very dense, 80% subangular to rounded very fine to fine sand, 20% silt.
60					

WELL DIAGRAM



Gettler-Ryan, Inc.

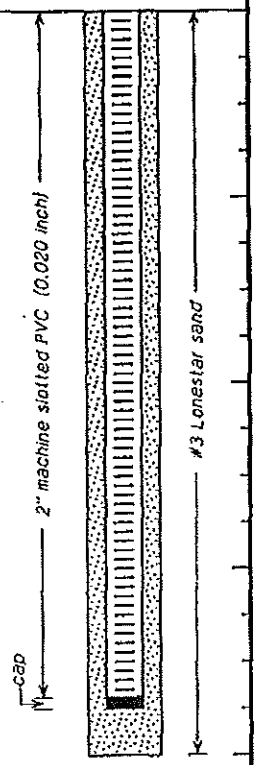
Log of Boring MW-9

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
	0	<100	MW-9-60.5			SM	See previous sheet for geologic description.
						SW-SC	SAND with CLAY (SW-SC) – dark yellowish brown (10YR 4/4), saturated, very dense; 80% subangular to rounded fine to very coarse sand, 10% fine gravel, 10% clay.
64						SW	SAND with GRAVEL (SW) – dark yellowish brown (10YR 3/4), saturated, very dense; 65–70% subangular to rounded fine to very coarse sand, 25% fine gravel, 5–10% clay.
	0	<100					
68							
	0	68	MW-9-71.5				
72						SW-SC	SAND with CLAY (SW-SC) – dark yellowish brown (10YR 4/4), saturated, very dense; 80% subangular to rounded fine to very coarse sand, 10% fine gravel, 10% clay.
	0	<100	MW-9-76				Bottom of boring at 76 feet bgs.
76							(* = Converted to equivalent standard penetration blows/foot.)
80							
84							
88							
92							

WELL DIAGRAM



JOB NUMBER: *140107.04*

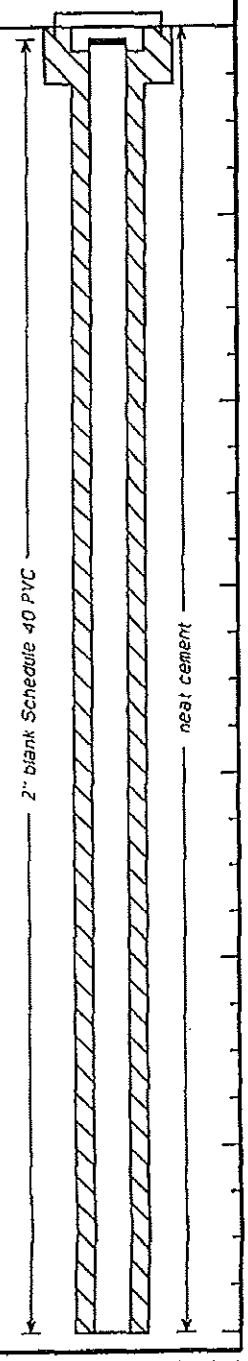
Gettler-Ryan, Inc.

Log of Boring MW-10

PROJECT: *Tosco (76) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
GR PROJECT NO.: *140107.04*	CASING ELEVATION: *362.62 feet MSL*
DATE STARTED: *11/21/99*	WL (ft. bgs): *88.5* DATE: TIME:
DATE FINISHED: *11/21/99*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *100 feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
				GW	Asphalt GRAVEL with SAND (GW) - Fill material.
				ML	SANDY SILT (ML) - very dark grayish brown (10YR 3/2), moist, hard, non-plastic; 50% silt, 30% subangular to rounded fine to coarse sand, 20% clay.
4	-		MW-10-3.5		Change at 2.5 feet to yellowish brown (10YR 5/6).
	-	29	MW-10-5.5		
8	0	21	MW-10-7.5		
					Change at 12.5 feet to SILT with GRAVEL (ML) - dark yellowish brown (10YR 3/4), moist, very stiff, non-plastic; 80% silt, 15% subangular to rounded fine gravel, 5% fine to coarse sand.
12	2	25	MW-10-11		
	0	22	MW-10-13		Change at 12.5 feet to SANDY SILT (ML) - dark gray (10YR 4/1); 40% silt, 40% subangular to rounded fine to medium sand, 20% clay.
					Change at 14.5 feet to GRAVELLY SILT (ML) - very grayish brown (10YR 5/2), hard, non-plastic; 60% silt, 30% subangular to rounded fine gravel, 15% subangular to rounded fine to coarse sand.
16	0	54	MW-10-16.5	SW-SM	
		<100	MW-10-18	ML	SAND with GRAVEL (SW-SM) - dark brown (10YR 4/3), moist to saturated, very dense; 60% subangular to rounded fine to very coarse sand, 30% fine gravel, 10% silt.
20					SILT with SAND (ML) - dark yellowish brown (10YR 4/6), moist, hard, non-plastic; 70% silt, 25% subangular to rounded fine to very coarse sand, 5% subangular to rounded fine gravel.
	0	54	MW-10-21	SW	SAND (SW) - olive gray (5Y 4/2), moist, very dense; 85% subangular to rounded fine to coarse sand, 10% subangular to rounded fine gravel, 5% silt. *No sample recovery.*
24		67		ML	SILT (ML) - yellowish brown (10YR 5/4), moist, hard, non-plastic; 90% silt, 10% subangular to rounded fine sand.
	0	46	MW-10-25.5		
28					Change at 27.25 feet to olive gray (5Y 4/2); 60% silt, 30% clay, 10% subangular to rounded fine sand.

WELL DIAGRAM



Gettler-Ryan, Inc.

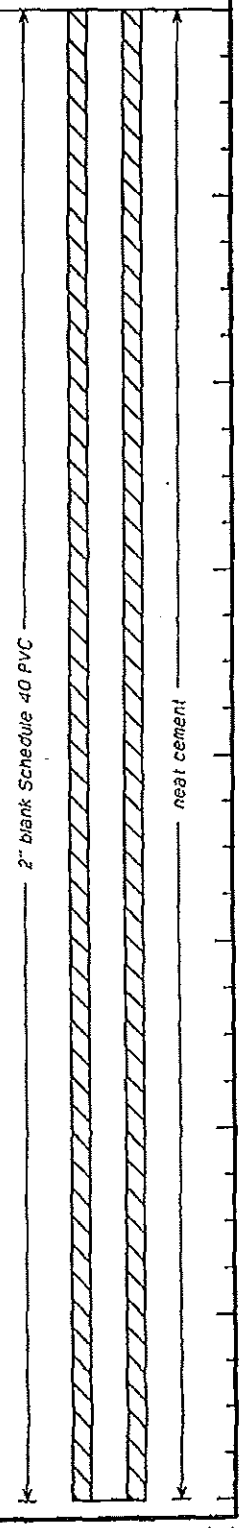
Log of Boring MW-10

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
0	0	48	MW-10-29	ML	SILT (ML) - olive gray (5Y 4/2); moist, hard, non-plastic; 60% silt, 30% clay, 10% subangular to rounded fine sand.
	-	<100	MW-10-31	GW-GC	GRAVEL with SILT and SAND (GW-GC) - olive gray (5Y 4/2), moist, very dense; 60% subangular to rounded fine gravel, 30% subangular to rounded fine to coarse sand, 10% silt.
32	-	<100	MW-10-32.5	SW	SAND (SW) - olive gray (5Y 4/2), moist, very dense; 90% subangular to rounded very fine to coarse sand, 10% silt, layers of silt and coarse sand.
36	3	<100	MW-10-36.5	GW	GRAVEL with SAND (GW) - olive gray (5Y 5/2), moist, very dense; 60% subangular to rounded fine gravel, 30-35% subangular to rounded very fine to coarse sand, 5-10% silt.
	31	<100	MW-10-38		
40	-	48	MW-10-40.5	ML	SILT (ML) - brown (10YR 4/3), moist, hard, non-plastic; 60-80% silt, 20-30% clay, 0-10% subangular to rounded fine to coarse sand.
44	2	68	MW-10-44		Coarse sand layer at 43.25 - 43.4 feet.
					At 45 feet becomes saturated.
	0	63	MW-10-47		Change at 46 feet to grayish brown (10YR 5/2), moist; 80% silt, 20% clay.
48					Gray (5Y 5/1) mottling at 47 to 48.5 feet.
		<100	MW-10-49		
	2	<100	MW-10-51		Change at 50 feet to dark yellowish brown (10YR 4/4) with black manganese oxide staining.
52					
	12	<100	MW-10-54		
56	443	72	MW-10-58		Change at 55 feet to light olive brown (2.5Y 5/3) and greenish gray (5G 6/1).
					Equipment broken downhole, overdrilled from 57 - 70 feet, no samples were taken.
60					

WELL DIAGRAM



Gettler-Ryan, Inc.

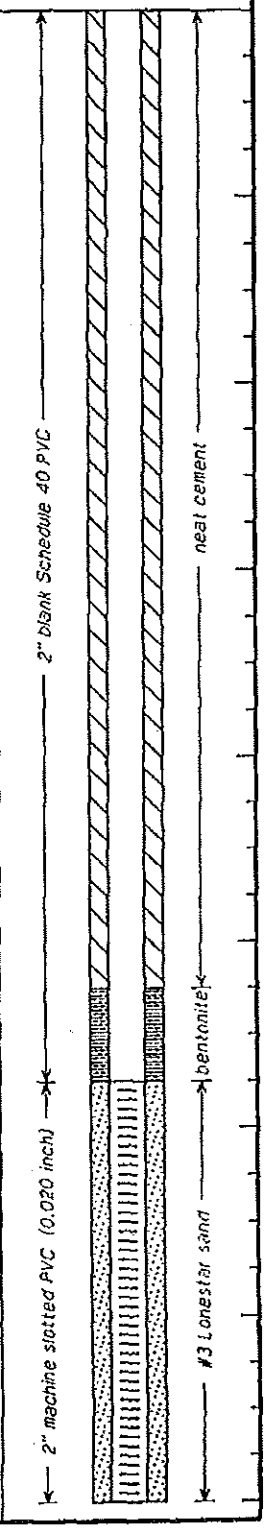
Log of Boring MW-10

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							Equipment broken downhole, overdrilled from 57 – 70 *feet, no samples were taken.*
64							
68							
	0	<100	MW-10-71			GW-GC	GRAVEL with SILT and SAND (GW-GC) – dark yellowish brown (10YR 4/6), saturated, very dense; 70% subangular to rounded fine gravel, 20% subangular to rounded fine to coarse sand, 10% silt.
72	–	<100	MW-10-72.5				
76	0	<100	MW-10-76				
	–	<100	MW-10-77.5				
80						ML	SILT (ML) – yellowish brown (10YR 5/6), moist, hard, non-plastic; 80% silt, 10% clay, 10% subangular to rounded fine sand, trace of fine gravel.
	0	50	MW-10-82				Fine gravel and coarse sand strata at 81.8 – 82.2 feet.
84	0	<100	MW-10-84			SW-SM	SAND with SILT and GRAVEL (SW-SM) – yellowish *brown (10YR 5/8), moist, very dense; 70% subangular* to rounded fine to coarse sand, 20% gravel, 10% silt.
	0	<100	MW-10-85.5				
88	0	<100	MW-10-87.5			GW	GRAVEL with SAND (GW) – yellowish brown (10YR 5/6), *moist, very dense; 70% subangular to rounded fine* gravel, 30% subangular to rounded fine to very coarse sand, trace of silt.
							▽ Saturated at 88.5 feet.
	–	<100	MW-10-90.5				*Grab groundwater sample MW-10-90 at 90 feet.*
92							

WELL DIAGRAM



Gettler-Ryan, Inc.

Log of Boring MW-10

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
96	0	<100	MW-10-92.5			GW	GRAVEL with SAND (GW) - yellowish brown (10YR 5/8), moist, very dense; 70% subangular to rounded fine gravel, 30% subangular to rounded fine to very coarse sand, trace of silt.	cap, 2" machine slotted PVC (0.020 inch), #3 Lonestar sand
		<100					Course sand (SW) at bottom of 92.5 foot sample.	
							Hydropunch rejection ater 6 inches at 93 feet.	
							Hydropunch sample - MW-10-95'.	
100	2	<100	MW-10-99				Hydropunch from 99 - 100 feet, no groundwater after 1 hour wait.	
							Bottom of boring at 100 feet bgs.	
104							(* = Converted to equivalent standard penetration blows/foot.)	
108								
112								
116								
120								
124								

JOB NUMBER: *140107.04*

Gettler-Ryan, Inc.

Log of Boring MW-11

PROJECT: *Tosco (76) Service Station No. 7376*	LOCATION: *4191 First Street, Pleasanton, California*
GR PROJECT NO.: *140107.05*	CASING ELEVATION:
DATE STARTED: *09/17/01*	WL (ft. bgs): *61.1* DATE: *09/17/01* TIME: *08:00*
DATE FINISHED: *09/17/01*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *91 feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
5							Well not logged to 40 feet.	2" blank schedule 40 PVC; 60' steel casing; neat cement
10								
15								
20								
25								
30								
35								

JOB NUMBER: *140107.05*

Gettler-Ryan, Inc.

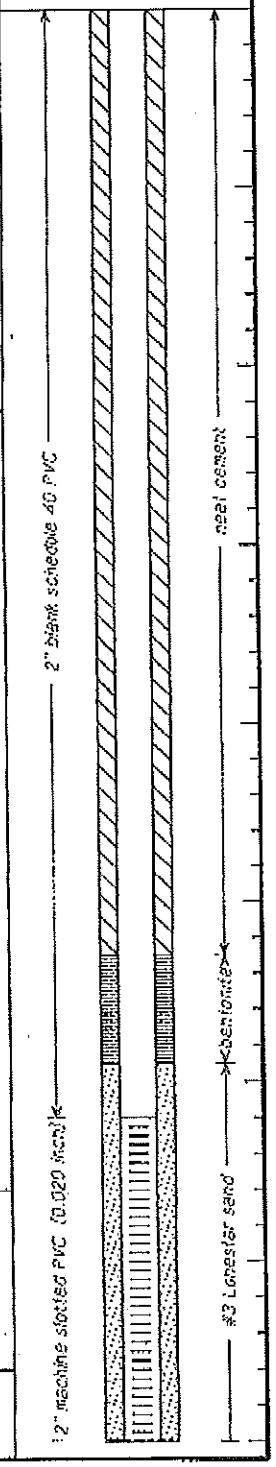
Log of Boring MW-11

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *4191 First Street, Pleasanton, California*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
40	0	>100	MW-11-41			SM	SILTY SAND WITH GRAVEL (SM) – yellowish brown (10YR 5/4), saturated, very dense; 50% subangular to rounded fine to very coarse sand, 35% subangular to rounded fine gravel, 15% silt.
	0	>100	MW-11-42.5			GC	CLAYEY GRAVEL WITH SILT (GC) – yellowish brown (10YR 5/4), saturated, very dense; 50% subangular to rounded fine gravel, 30% fine to very coarse sand, 20% clay.
45		>100					
						CL	CLAY (CL) – brown (7.5YR 4/4), moist, hard, plastic; 80% clay, 15% silt, 5% fine sand.
	0	48	MW-11-49				
50							Becomes very stiff; 80% clay, 15% silt, 5% fine sand.
	0	17	MW-11-52				
		>100					Becomes hard.
55							Becomes very stiff; 80% clay, 15% silt, 5% fine sand.
	0	31	MW-11-57				Becomes hard.
	0	35	MW-11-59				
60							Becomes very stiff.
	0	28	MW-11-61.5				Becomes hard.
	0	>100	MW-11-63.5				
65	0	>100	MW-11-66				
	0	>100	MW-11-68.5			SM	SILTY SAND (SM) – yellowish brown (10YR 5/4) and pale brown (10YR 6/3), moist, very dense; 65% subangular to rounded fine sand, 35% silt.
70	0	>100	MW-11-71.5				SILTY SAND WITH GRAVEL (SM) – yellowish brown (10YR 5/4) and pale brown (10YR 6/3), moist, very dense; 60% sand, 20% fine gravel, 20% silt.
	–	>100	MW-11-72.5				
						SW-SC	SAND WITH CLAY AND GRAVEL (SW-SC) – brown (10YR 4/3), saturated, very dense; 60% subangular to rounded fine to coarse sand, 30% fine gravel, 10% clay.
75							

WELL DIAGRAM



JOB NUMBER: *140107.05*

Gettler-Ryan, Inc.

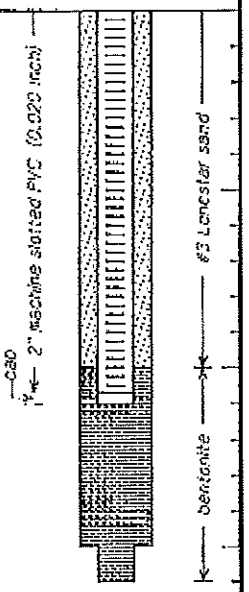
Log of Boring MW-11

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *4191 First Street, Pleasanton, California*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
80	–	>100	MW-11-80.5			SW-SC	
		>100				GW-GC	GRAVEL WITH CLAY AND SAND (GW-GC) – brown (10YR 4/3), saturated, very dense; 50% subangular to rounded fine gravel, 40% fine to coarse sand, 10% clay.
						GW-GM	GRAVEL WITH SILT AND SAND (GW-GM) – brown (10YR 4/3), saturated, very dense; 65% subangular to rounded fine gravel, 25% fine to coarse sand, 10% silt.
						CL	CLAY WITH SAND (CL) – dark yellowish brown (10YR 4/4), moist, hard, non-plastic; 40% clay, 30% silt, 20% fine to medium sand, 10% fine gravel.
85	0	>100	MW-11-84			SC	CLAYEY SAND (SC) – dark yellowish brown (10YR 4/4), moist, very dense; 70% subangular to rounded fine to coarse sand, 20% clay, 10% fine gravel.
	0	>100	MW-11-86				
	0	>100	MW-11-88				Clay lens from 87.25 to 87.75 feet.
90	0	>100	MW-11-91			CL	CLAY (CL) – dark yellowish brown (10YR 4/4), moist, hard, plastic; 60% clay, 40% silt.
							Bottom of boring at 91 feet bgs.
							(* = converted to equivalent standard penetration blows/foot.)
95							
100							
105							
110							
115							

WELL DIAGRAM



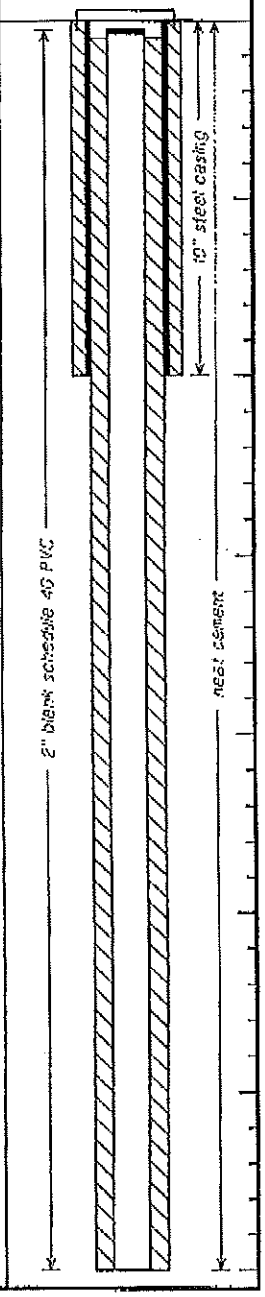
JOB NUMBER: *140107.05*

Gettler-Ryan, Inc.

Log of Boring MW-12

PROJECT: *Tosco (76) Service Station No. 7376*	LOCATION: *4191 First Street, Pleasanton, California*
GR PROJECT NO.: *140107.05*	CASING ELEVATION:
DATE STARTED: *09/18/01*	WL (ft. bgs): *81.0* DATE: *09/20/01* TIME: *07:40*
DATE FINISHED: *09/19/01*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *88 feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
							Well not logged to 40 feet.	



Gettler-Ryan, Inc.

Log of Boring MW-12

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *4191 First Street, Pleasanton, California*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
40				SM	CLAYEY SAND WITH GRAVEL (SM) – yellowish brown (10YR 4/4), saturated, very dense; 50% subangular to rounded fine to coarse sand, 30% clay, 20% fine gravel.
	0	50	MW-12-44		
45	1	>100	MW-12-44.5		
	0	18	MW-12-47	CL	CLAY (CL) – dark yellowish brown (10YR 4/6), saturated to moist, very stiff, plastic; 70% clay, 25% silt, 5% fine sand.
	0	16	MW-12-49		
50	0	23	MW-12-52		
	0	>100	MW-12-53.5		
55	0	>100	MW-12-56.5		Color changes to yellowish brown (10YR 5/4) mottled with dark brown (10YR 3/3).
	0	>100	MW-12-58		
60	0	35	MW-12-62		
	0	>100	MW-12-63.5	ML	SILTY WITH SAND (ML) – dark yellowish brown (10YR 4/4), moist, very dense; 60% silt, 30% clay, 20% fine sand.
65	0	53	MW-12-67	SM	SILTY SAND (SM) – dark yellowish brown (10YR 4/4), moist, very dense; 60% subangular to rounded fine very fine to medium sand, 25% silt, 15% clay.
	0	>100	MW-12-68.5	SW	SAND (SW) – dark yellowish brown (10YR 4/4), moist, very dense; 95% subangular to rounded very fine to medium sand, 5% silt.
70	0	>100			Becomes 95% fine to very coarse sand, 5% silt, trace of fine gravel.
	0	>100			SAND WITH GRAVEL (SW) – dark yellowish brown (10YR 4/4), moist, very dense; 75% fine to coarse sand, 20% fine gravel, 5% clay.
75					

WELL DIAGRAM: 2" blank schedule 40 PVC; 2" machine slotted PVC (0.020 inch); #3 Lonestar sand; bentonite; neat cement

JOB NUMBER: *140107.05*

Gettler-Ryan, Inc.

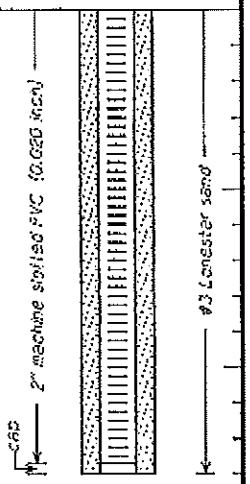
Log of Boring MW-12

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *4191 First Street, Pleasanton, California*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
	-	>100				SW	
						SW-SC	SAND WITH CLAY AND GRAVEL (SW-SC) – dark brown (10YR 3/3), saturated, very dense; 50% subangular to rounded fine to coarse sand, 40% fine gravel, 10% clay.
	0	>100	MW-12-77.5				
						GW-GC	GRAVEL WITH CLAY AND SAND (GW-GC) – dark brown (10YR 3/3), saturated, very dense; 50% rounded fine gravel, 40% subangular to rounded fine to coarse sand, 10% clay.
80		>100	MW-12-80.5				
	0	>100	MW-12-81.5				
	0	>100	MW-12-82.5			CL	CLAY (CL) – dark yellowish brown (10YR 4/6), moist, very stiff, plastic; 75% clay, 20% silt, 5% fine sand.
							CLAY WITH SAND (CL) – dark yellowish brown (10YR 4/6), moist, very stiff, plastic; 60% clay, 25% fine to coarse sand, 15% clay, trace of fine gravel.
85	0	>100	MW-12-85.5				
	-	>100	MW-12-86.5				Fine gravel lens from 86.1 to 86.3 feet.
90							Bottom of boring at 88 feet bgs.
							(* = converted to equivalent standard penetration blows/foot.)
95							
100							
105							
110							
115							

WELL DIAGRAM



JOB NUMBER: *140107.05*

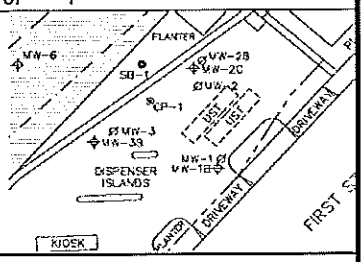
Delta
Consultants

Project No:	C107376220	Client:	ConocoPhillips
Logged By:	Alan Buehler	Location:	Pleasanton
Driller:	Cascade	Date Drilled:	6/22/2009
Drilling Method:	Hollow Stem	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	82.62'
Casing Type:	2"PVC	Well Diameter:	2"
Slot Size:	0.01	Well Depth:	82.12'
Gravel Pack:	Lonestar #2/12	First Water Depth:	80'
		Static Water Depth:	76.35'

Boring/Well No: MW-3B

Page 1 of 4

Location Map



Elevation: Northing: Easting:

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1–22				8" Steel Conductor Casing to 45'

Delta

Environmental Consultants, Inc.

Project No:	C107376220	Client:	ConocoPhillips	**Boring/Well No: MW-3B**	
Project No:	C107376220	Client:	ConocoPhillips	**Boring/Well No: MW-3B**	
Logged By:	Alan Buehler	Location:	Pleasanton	Page 2 of 4	
Driller:	Cascade	Date Drilled:	6/22/2009	Location Map	
Drilling Method:	Hollow Stem	Hole Diameter:	8"		
Sampling Method:	Split Spoon	Hole Depth:	82.62'		
Casing Type:	2"PVC	Well Diameter:	2"		
Slot Size:	0.01	▼ Well Depth:	82.12'		
Gravel Pack:	Lonestar #2/12	▼ First Water Depth:	80'		
		▽ Static Water Depth:	76.35'		

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				
					32				8" Steel Conductor Casing to 45'
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

Delta
Environmental Consultants, Inc.

Project No:	C107376220	Client:	ConocoPhillips	**Boring/Well No: MW-3B**	
Logged By:	Alan Buehler	Location:	Pleasanton	Page 3 of 4	
Driller:	Cascade	Date Drilled:	6/22/2009	Location Map	
Drilling Method:	Hollow Stem	Hole Diameter:	8"		
Sampling Method:	Split Spoon	Hole Depth:	82.62'		
Casing Type:	2"PVC	Well Diameter:	2"		
Slot Size:	0.01	Well Depth:	82.12'		
Gravel Pack:	Lonestar #2/12	First Water Depth:	80'		
		Static Water Depth:	76.35'		
Elevation:		Northing:		Easting:	

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					45				8" Steel Conductor Casing 0-45'
					46				
					47			CL	Lt brown clay, interbedded w greenish gravely material, mild odor
					48				
					49			CL	Greenish gray clay, damp, mild odor
					50				
					51			CL	Greenish gray clay w 20% gravel, damp, slight odor
					52				
					53			CL	Greenish gray clay, damp, mild odor
					54				
					55			CL	Greenish gray clay, interbedded gravel, damp, strong odor
					56				
					57			ML	Lt brown coarse sandy silt w interbedded decomposed granite, mild odor, dry, less odor within DG
					58				
					59			CH	Lt brn clay, very plastic, moist, strong odor
					60			CH	Lt brown gravely clay interbedded w greenish gray gravely clay
					61				
					62			CH	Lt brown gravely clay, moist, mild odor
					63				
					64			CH	Lt brown clay, very plastic, moist, mild odor
					65			CH	Lt brown silty clay, damp, slight odor
					66				

Delta

Environmental Consultants, Inc.

Project No:	C107376220	Client:	ConocoPhillips	**Boring/Well No: MW-3B**	
Logged By:	Alan Buehler	Location:	Pleasanton	Page 4 of 4	
Driller:	Cascade	Date Drilled:	6/22/2009	Location Map	
Drilling Method:	Hollow Stem	Hole Diameter:	8"		
Sampling Method:	Split Spoon	Hole Depth:	82.62'		
Casing Type:	2"PVC	Well Diameter:	2"		
Slot Size:	0.01	Well Depth:	82.12'		
Gravel Pack:	Lonestar #2/12	▼ First Water Depth:	80'		
		▽ Static Water Depth:	76.35'		
Elevation:		Northing:		Easting:	

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
			937		67		SM	Greenish gray silty sand, damp, strong odor
					68		CL	Lt brown silty clay, damp, slight odor
					69		SM	Lt brown silty fine sand, moist, slight odor
					70			
					71		CL	Gray silty clay w gravel, damp, strong odor
					72			
					73			
					74			
					75			
					76		▽	
					77			
					78			
					79			
					80		▼	
					81			
					82			
					83			TD = 82.5 fbg
					84			
					85			
					86			
					87			
					88			

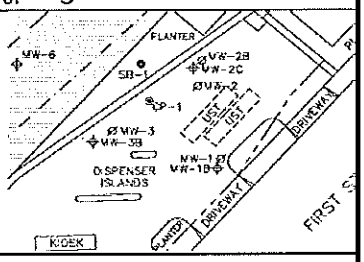
Delta
Consultants

Project No:	C107376220	Client:	ConocoPhillips
Logged By:	Jon Fillingame	Location:	Pleasanton
Driller:	Cascade	Date Drilled:	6/12/2009
Drilling Method:	Hollow Stem	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	45'
Casing Type:	2"PVC	Well Diameter:	N/A
Slot Size:	0.01	Well Depth:	N/A
Gravel Pack:	Lonestar #2/12	First Water Depth:	N/A
		Static Water Depth:	N/A
Elevation:		Northing:	Easting:

Boring/Well No: MW-2C

Page 1 of 3

Location Map



Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1–18				
					13				Not Sampled
					19			GW	Well Graded gravel, 20% silt, gray, 80% fine to course gravel
			508	MW2C @20	20			CL	Clay w 10% silt, greenish gray, hard, med plast, moist
					21–22				

Delta
Environmental Consultants, Inc.

Project No:	C107376220	Client:	ConocoPhillips	**Boring/Well No: MW-2C**	
Logged By:	Jon Fillingame	Location:	Pleasanton	Page 2 of 3	
Driller:	Cascade	Date Drilled:	6/12/2009	Location Map	
Drilling Method:	Hollow Stem	Hole Diameter:	8"		
Sampling Method:	Split Spoon	Hole Depth:	45'		
Casing Type:	2"PVC	Well Diameter:	N/A		
Slot Size:	0.01	Well Depth:	N/A		
Gravel Pack:	Lonestar #2/12	First Water Depth:	N/A		
		Static Water Depth:			
Elevation:		Northing:		Easting:	

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					23				
					24			sw-sc	Well graded sand w clay, grayish green
			1271	MW2C @25	25				
					26				
					27				
					28				
					29			CL	Clay, 20% silt, greenish gray, hard, high plast,
			148	MW2C @30	30				moist
					31				
					32				
					33				
					34			GC	Silty gravelw sand, dk greenish gray, 15% sand,
			751	MW2C @35	35				30% silt, 55% gravel, moist, free product: dk brn
					36				
					37				
					38				
					39			ML	Clayey silt, brn bottled gray with dk brn, 20% clay,
			77	MW2C @40	40				80% silt, low plast, dry, free product: dk brn
					41				
					42				
					43				
					44				

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Environmental Consultants, Inc.

Project No:	C107376220	Client:	ConocoPhillips	**Boring/Well No: MW-2C**	
Logged By:	Jon Fillingame	Location:	Pleasanton	Page 3 of 3	
Driller:	Cascade	Date Drilled:	6/12/2009	Location Map	
Drilling Method:	Hollow Stem	Hole Diameter:	8"		
Sampling Method:	Split Spoon	Hole Depth:	45'		
Casing Type:	2"PVC	Well Diameter:	N/A		
Slot Size:	0.01	Well Depth:	N/A		
Gravel Pack:	Lonestar #2/12	First Water Depth:	N/A		
		Static Water Depth:			
Elevation:		Northing:		Easting:	

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
			283	MW2C @45	45			CL	Lean clay w gravel, 20% gravel, 80% clay, green, med plast, hard, moist
									TD of sampling = 45 fbg
					46				
					47				
					48				
					49				
					50				
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
					59				
					60				
					61				
					62				
					63				
					64				
					65				
					66				

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Log of Boring SB-1

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 1 of 2
Job Number: E0704901F
Elevation:

Driller: Soilprobe, Inc.
Start Date: November 6, 2007
Drill Method: GeoProbe 66DT
Finish Date: November 6, 2007
Sample Method: Direct Push
Logged By: J.Rohlfing
Borehole Diameter: 2.5"
Water Level: Not encountered
Checked By: M.Hutson

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
							0	
0						**Aggregate Base**		
2								
4								
6								
8							-9	
10						**Sandy CLAY (CL)** Brown with fine gravel, dry, stiff, low plasticity		PID = 19.5 - FID = 0 No odor, no staining
12								
14								
16								
18							-19	
20						**SAND (SW)** Brown, medium grained with fine gravel, dry, dense		PID = 21.5 - FID = 0 No odor, no staining
22								
24								
26								
28							-29	
30						**Clayey GRAVEL (GC)** Brown, fine to coarse gravel, some medium sand, moist, dense		PID = 21.5 - FID = 0 No odor, no staining
32								
34								

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Log of Boring SB-1

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 2 of 2
Job Number: E0704901F
Elevation:

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
37								
							-39	
39						**Sandy CLAY (CL)** Olive brown, with fine gravel, moist, very stiff, low plasticity		PID = 20.0 - FID = 0 No odor, no staining
41								
43								
45								
47								
49						Grades to brown, with coarse sand, moderate plasticity		PID = 27.5 - FID = 0 No odor, no staining
51								
53								
55								
57								
							-59	
59						**Clayey GRAVEL (GC)** Brown, fine to coarse gravel with coarse sand, wet	-61	PID = 23.5 - FID = 0 No odor, no staining
61						Boring completed at 61 feet bgs Groundwater not encountered Boring backfilled w/bentonite chips		
63								
65								
67								
69								

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Log of Boring SB-2

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 1 of 2
Job Number: E0704901F
Elevation:

Driller: Soilprobe, Inc.
Start Date: November 6, 2007
Drill Method: GeoProbe 66DT
Finish Date: November 6, 2007
Sample Method: Direct Push
Logged By: J.Rohlfing
Borehole Diameter: 2.5"
Water Level: Not encountered
Checked By: M.Hutson

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
							0	
0						**Aggregate Base**		Densely compacted AB
2								
4								
6								
8							-9	
10						**Clayey SAND (SC)** Brown, medium to coarse grained with fine gravel, dry, dense		PID = 24.0 - FID = 0 No odor, no staining
12								
14								
16								
18							-19	
20						**Silty SAND (SM)** Brown, fine grained with fine to coarse gravel, dry to moist, dense		PID = 1.0 - FID = 0 No odor, no staining
22								
24								
26								
28							-29	
30						**Sandy GRAVEL (GW)** Brown, fine to coarse gravel with clay, moist, dense		PID = 19.5 - FID = 0 Odor, not discernable, no staining
32								
34								

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Log of Boring SB-2

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 2 of 2
Job Number: E0704901F
Elevation:

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
37						**Sandy GRAVEL (GW)** Brown, fine to coarse gravel with clay, moist, dense		
39						Grades without clay		PID = 19.0 - FID = 0 No odor, no staining
41								
43								
45								
47								
49							-49	
51						**Clayey SAND (SC)** Brown, medium to coarse grained with fine to coarse gravel, moist to wet, dense	-51	PID = 24.0 - FID = 16.0 No odor, no staining
53						Boring completed at 51 feet bgs Groundwater not encountered Boring backfilled w/bentonite chips		
55								
57								
59								
61								
63								
65								
67								
69								

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Log of Boring SB-3

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 1 of 2
Job Number: E0704901F
Elevation:

Driller: Soilprobe, Inc.
Start Date: September 6, 2007
Drill Method: GeoProbe 66DT
Finish Date: September 6, 2007
Sample Method: Direct Push
Logged By: J.Rohlfing
Borehole Diameter: 2.5"
Water Level: Not encountered
Checked By: M.Hutson

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
							0	
0						Aggregate Base		
2								
4								
6								
8							-9	
10						Clayey SAND (SC) Brown, medium to coarse grained with gravel, dry to moist, dense		PID = 7.0 - FID = 0 No odor, no staining
12								
14								
16								
18							-19	
20						Silty CLAY (CL) Brown, moist, stiff, moderately plastic		PID = 3.0 - FID = 18.0 No odor, no staining
22								
24								
26								
28							-29	
30						Sandy GRAVEL (GW) Gray, fine to coarse gravel with silt, moist, dense		PID = 7.0 - FID = 6.0 No odor, no staining
32								
34								

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Log of Boring SB-3

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 2 of 2
Job Number: E0704901F
Elevation:

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
37								
							-39	
39						**Sandy CLAY (CL)** Brown with fine gravel, moist, stiff, low plasticity		PID = 19.0 - FID = 1.0 No odor, no staining 1" lense of decomposed granite
41								
43								
45								
47								
							-49	
49						**Clayey GRAVEL (GC)** Brown, some medium to coarse grained sand, moist, dense	-51	PID = 20.0 - FID = 2.0 No odor, no staining
51						Boring completed at 51 feet bgs Groundwater not encountered Boring backfilled w/bentonite chips		
53								
55								
57								
59								
61								
63								
65								
67								
69								

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Log of Boring SB-4

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 1 of 2
Job Number: E0704901F
Elevation:

Driller: Soilprobe, Inc.
Start Date: September 6, 2007
Drill Method: GeoProbe 66DT
Finish Date: September 6, 2007
Sample Method: Direct Push
Logged By: J.Rohlfing
Borehole Diameter: 2.5"
Water Level: Not encountered
Checked By: M.Hutson

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
							0	
0						Aggregate Base		
2								
4								
6								
8							-9	
10						Silty CLAY (CL) Brown, dry to moist, stiff, low plasticity		PID = 7.0 - FID = 0 No odor, no staining
12								
14								
16								
18								
20						Grades to moist, very stiff, moderate plasticity		PID = 12.0 - FID = 2.0 No odor, no staining
22								
24								
26								
28							-28	
30						Clayey SAND (SC) Olive, medium to coarse grained with fine gravel, moist to wet, dense		PID = 16.0 - FID = 2.0 Strong petroleum odor,
32								
34								

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Log of Boring SB-4

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 2 of 2
Job Number: E0704901F
Elevation:

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
37							-39	
39						**Sandy CLAY (CL)** Gray with fine gravel, moist, stiff, moderate plasticity		PID = 17.0 - FID = 1.0 No odor, no staining
41								
43						Grades to very stiff		
45								
47								
49						Grades with fine grained sand		
51							-51	PID = 17.0 - FID = 1.0 No odor, no staining
53						Boring completed at 51 feet bgs Groundwater not encountered Boring backfilled w/bentonite chips		
55								
57								
59								
61								
63								
65								
67								
69								

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Log of Boring SB-5

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 1 of 2
Job Number: E0704901F
Elevation:

Driller: Soilprobe, Inc.
Start Date: September 6, 2007
Drill Method: GeoProbe 66DT
Finish Date: September 6, 2007
Sample Method: Direct Push
Logged By: J.Rohlfing
Borehole Diameter: 2.5"
Water Level: Not encountered
Checked By: M.Hutson

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
							0	
0						Aggregate Base		
2								
4								
6								
8							-9	
10						**Silty CLAY (CL)** Brown with fine to coarse gravel, dry to moist, stiff, low plasticity		PID = 2.0 - FID = 0 No odor, no staining
12								
14								
16								
18								
20						Grades to dark olive, moderate plasticity		PID = 67.0 - FID = 360 Strong petroleum odor, dark olive color
22								
24								
26								
28						Grades with fine grained sand, moist, medium stiff, low plasticity		PID = 500 - FID = 41,700 (4,17%) Strong petroleum, odor, dark olive color
30								
32								
34								

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Log of Boring SB-5

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 2 of 2
Job Number: E0704901F
Elevation:

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
37								
39								PID = 400 - FID = 5,200 Petroleum odor, olive, mottling
41								
43								
45								
47								
49						Grades to brown with fine grained sand and fine to coarse gravel, very stiff moderate plasticity		PID = 300 - FID = 3,500 Petroleum odor, no staining
51								
53								
55								
57								
59							-59	
						Clayey SAND (SC) Brown, medium to coarse grained with fine to coarse gravel, moist, some cementation	-61	PID = 95 - FID = 360 Slight petroleum odor, no staining
61						Boring completed at 61 feet bgs Groundwater not encountered Boring backfilled w/Bentonite chips		
63								
65								
67								
69								

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Log of Boring SB-6

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 1 of 2
Job Number: E0704901F
Elevation:

Driller: Soilprobe, Inc.
Start Date: September 7, 2007
Drill Method: GeoProbe 66DT
Finish Date: September 7, 2007
Sample Method: Direct Push
Logged By: J.Rohlfing
Borehole Diameter: 2.5"
Water Level: Not encountered
Checked By:

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
							0	
0						Aggregate Base		
2								
4								
6								
8							-9	
10						Sandy SILT (ML) Dark brown with fine gravel, moist, soft		PID = 200 - FID = 350 No odor, no staining
12								
14								
16								
18							-19	
20						Sandy CLAY (CL) Brown, moist, very stiff, low plasticity		PID = 35 - FID = 20 No odor, no staining
22								
24								
26								
28								

BSK
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Log of Boring SB-6

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 2 of 2
Job Number: E0704901F
Elevation:

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
							-29	
30						**Clayey SAND (SC)** Light brown to brown, fine to medium grained with fine gravel, moist, medium dense		PID = 1,500 FID = 22,000 (2.2%) Strong petroleum odor, no staining
32								
34								
36							-37.5	Boring refusal at 37.5' bgs
38						Boring terminated at 37.5 feet bgs Groundwater not encountered Boring backfilled w/Bentonite chips		
40								
42								
44								
46								
48								
50								
52								
54								
56								

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Log of Boring SB-7

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 1 of 2
Job Number: E0704901F
Elevation:

Driller: Soilprobe, Inc.
Start Date: September 7, 2007
Drill Method: GeoProbe 66DT
Finish Date: September 7, 2007
Sample Method: Direct Push
Logged By: J.Rohlfing
Borehole Diameter: 2.5"
Water Level: Not encountered
Checked By: M.Hutson

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
							0	
0						Aggregate Base		
2								
4								
6								
8							-9	
10						CLAY (CL) Dark brown, with trace of fine grained sand and gravel, moist, soft, moderate plasticity		PID = 22 - FID = 0 No odor, no staining
12								
14								
16								
18							-19	
20						Clayey SAND (SC) Brown, fine grained, dry to moist, very dense		PID = 23 - FID = 8 No odor, no staining
22								
24								
26								
28							-29	
30						Sandy CLAY (CL) Olive, moist, stiff, moderate plasticity		PID = 25 - FID = 60 Petroleum odor, olive color
32								
34								

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Log of Boring SB-7

Alameda Co. Transportation Corridor
Soil Sampling

Sheet 2 of 2
Job Number: E0704901F
Elevation:

Depth (feet)	Sample Type	Blow Count (blows/ft.)	Dry Density (pcf)	Moisture (%)	Graphic Log	Materials Description	Elevation (feet)	Remarks
37								
							-39	
39						Clayey GRAVEL (GC) Olive, fine to coarse gravel, moist to wet, medium dense		PID = 300 - FID 2,300 Petroleum odor, olive color
41								
43								
45								
47								
							-49	
49						CLAY (CL) Brown, moist, stiff, moderate plasticity		PID = 11 - FID = 20 No odor, no staining
							-51	
51						Boring completed at 51 feet bgs Groundwater not encountered Boring backfilled w/Bentonite chips		
53								
55								
57								
59								
61								
63								
65								
67								
69								

DATE OF BORING: October 6, 1997

SURFACE ELEVATION: Approx. 360.0 feet msl (109.7 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE DRY UNIT WEIGHT (PCF)	IN PLACE MOIST. CONTENT % DRY WEIGHT
0				Grayish brown, silty GRAVEL with sand (granite to 1", sub-angular to sub-rounded), damp.(Fill)(GM)	24*	< 1		
	1			DRAFT		< 1		
				No Recovery.	18			
5		1-1		Brown silty GRAVEL with sand (granite to 1"), gravel subrounded, damp. (Native)(GM)	35*	1.4		
	2			Dark yellowish brown, silty CLAY with sand, slightly moist. (CL)				
					45			
10	3			Dark yellowish brown, silty CLAY with coarse sand, slightly moist. (CL)	25*	< 1		
				Brown very silty CLAY with sand, damp. (CL)		< 1		
	4			Dark yellowish brown, silty CLAY with sand, slightly moist. (CL)	29	< 1		
				Dark brown clayey GRAVEL (to 2/3", subrounded). (GC)				
15		1-2		Dark yellowish brown clayey SAND, moist. (SC)	21*	< 1		
	5			Brown clayey SAND with gravel (to 2/3", subrounded). (SC)				
				Yellowish brown SAND with clay and gravel (to 2/3", subrounded).(SP-SC)				
				Yellowish brown CLAY with sand, moist. (CL)				
				Yellowish brown clayey SILT, very moist. (ML)	26	< 1		
				Yellowish brown silty SAND, moist. (SM)				
20	6			Dark yellowish brown silty CLAY with sand and gravel (1/2", subrounded). (CL)	15			
				Dark yellowish brown clayey SILT, very moist. (ML)		< 1		
				Dark yellowish brown silty fine SAND, very moist. (SM)				
	7			Brown clayey GRAVEL with sand, slightly moist (granite to 1 1/2", subrounded)(SM)(GC)	54	< 1		
				Dark yellowish brown clayey SAND (fine to medium), very moist. (SC)	57*	< 1		
25		1-3		Dark brown clayey GRAVEL, (to 1", subrounded), moist. (GC)				
	8					< 1		
					58	< 1		
				Dark yellowish brown silty SAND layer, moist. (SM)	40*	< 1		
	9							
30						< 1		

OVMMET 4391 11/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-1

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

DATE OF BORING: October 6, 1997

SURFACE ELEVATION: Approx. 360.0 feet msl (109.7 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE DRY UNIT WEIGHT (PCF)	IN PLACE MOIST. CONTENT % DRY WEIGHT
				No recovery.	79			
	10			Dark yellowish brown clayey GRAVEL (to 2 1/2", subrounded), wet. (GC)	76*	< 1		
				Dark yellowish brown clayey fine to coarse SAND, wet. (SC)		< 1		
35		1-4		Dark yellowish brown clayey GRAVEL (2+", subrounded), very moist. (GC)	44	< 1		
	11				32*	< 1		
						< 1		
40	12				51	2.4		
					13*	< 1		
	13			Dark yellowish brown clayey SAND (fine to coarse grain), very moist. (SC)		< 1		
				Dark brown clayey GRAVEL (to 2/3", subrounded), moist. (GC)				
45		1-5		Dark yellowish brown silty CLAY. (CL)	79	< 1		
	14			Bottom of boring at approximately 45 feet.				
50	15							
	16							
55	17							
	18							
60								

DRAFT

OVMMET 4391 11/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-1

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

DATE OF BORING: October 6, 1997

SURFACE ELEVATION: Approx. 360.0 feet msl (109.7 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE DRY UNIT WEIGHT (PCF)	IN PLACE MOIST. CONTENT % DRY WEIGHT
0				Gray silty GRAVEL (to 3/4", subangular), dry. (Fill)(GM)				
				Grayish brown silty SAND with gravel (to 1/2", subangular, subrounded), damp. (SM)	22*	< 1		
	1				28	< 1		
5		2-1		Dark yellowish brown sandy CLAY, slightly moist. (CL)				
	2				22*	< 1		
				Yellow brown clayey SAND with gravel (to 2/3", subroudned), damp. (SC)		< 1		
10	3			DRAFT				
						< 1		
	4				75	< 1		
15		2-2		Dark yellowish brown clayey GRAVEL (to 1 1/2", subrounded), slightly moist. (GC)				
	5			Dark brown clayey SAND with gravel (to 1/2", subrounded), slightly moist. (SC)	8*	< 1		
					70	< 1		
20	6			Dark yellowish brown clayey SAND, moist. (SC)				
				Dark yellowish brown silty fine SAND, very moist. (SM)	25*	< 1		
	7			Dark yellowish brown fine sandy SILT. (ML)	20	< 1		
25		2-3		Dark yellowish brown, silty fine SAND. (SM)				
	8			Dark yellowish brown silty CLAY with gravel (to 3/4", subrounded). (CL)	45*	< 1		
					106	< 1		
30	9			Dark brown clayey GRAVEL (to 1 1/2", subrounded), moist. (GC)				

OVMMET 4391 11/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-2

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

DATE OF BORING: October 6, 1997

SURFACE ELEVATION: Approx. 360.0 feet msl (109.7 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE DRY UNIT WEIGHT (PCF)	IN PLACE MOIST. CONTENT % DRY WEIGHT
				Mottled dark yellowish brown/gray clayey SILT, very moist, locally strong, iron staining. (ML-CL)	29*	<1		
	10			Mottled darkish yellow brown/gray silty CLAY, very moist, iron staining. (CL)	53	<1		
35		2-4		Mottled darkish yellow brown/gray clayey SILT, very moist, iron staining. (ML-CL)	25*			
	12	2-5		Dark yellowish brown silty fine SAND. (SM)	40			
40				Bottom of boring at approximately 40 feet.				
	13							
45								
	14							
	15							
50								
	16							
55								
	17							
	18							
60								

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OVMMET 4391 11/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-2

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

DATE OF BORING: October 8, 1997

SURFACE ELEVATION: Approx. 358.0 feet msl (109.1 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE DRY UNIT WEIGHT (PCF)	IN PLACE MOIST. CONTENT % DRY WEIGHT
0				Dark grayish brown silty SAND with gravel (to 2 1/4", subangular to subrounded), dry. (Fill) (SM)	19*	<1		
	1			Dark grayish brown silty SAND becoming clayey with gravel including asphaltics, damp. (Fill) (SM-SC)	21	<1		
5		3-1		Brown silty SAND with gravel (to 2/3", subrounded), damp. (SM)				
	2			DRAFT	15*	<1		
					19	<1		
10	3			Dark gray/brown clayey SAND with gravel, moist. (SC)				
					22*	1.0		
				Dark yellowish brown GRAVEL clay and sand (to 2/3", subrounded), moist. (CL)				
	4			Dark yellowish brown clayey GRAVEL with sand. (GC)	44	<1		
15		3-2		Dark brown clayey fine and medium SAND, very moist. (SC)				
	5			Mottled yellowish brown/dark grayish brown clayey medium to coarse SAND, moist. (SC)	31*			
				Dark gray/brown clayey SAND, moist, moderate iron staining common. (SC)	38			
20	6			Dark yellowish brown clayey SAND with gravel (to 2/3", subrounded), moist. (SC)				
				Dark yellowish brown clayey fine to medium SAND, very moist. (SC)	36*	<1		
	7			Dark yellowish brown CLAY with incremental fine to medium sand, very moist. (CL)	20	<1		
25		3-3		Dark yellowish brown sandy CLAY, very moist. (CL)				
	8			Mottled dark yellowish brown/gray silty clayey fine to medium SAND, wet. (SC)	14*	<1		
				Dark yellowish brown clayey GRAVEL (to 1", subrounded) with sand, very moist. (GC)	45	<1		
	9			Dark yellowish brown clayey fine SAND, wet. (SC)				
30								

OVMMET 4391 12/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-3

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY:

FIGURE NO.

DATE OF BORING: October 8, 1997

SURFACE ELEVATION: Approx. 358.0 feet msl (109.1 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE: DRY UNIT WEIGHT (PCF)	IN PLACE: MOIST. CONTENT % DRY WEIGHT
				Dark gray clayey GRAVEL (to 1 1/2", subangular to subrounded), very moist. (GC)	27*	<1		
35	10	3-4		Dark yellowish brown clayey SAND with gravel (to 2", subrounded). (SC)	50	<1		
	11			Dark yellowish brown very silty CLAY, very moist, moderate iron staining common. (CL)	18	<1		
40	12	3-5			33	<1		
				Bottom of boring at approximately 40 feet.				
45	13							
	14							
50	15							
	16							
55	17							
	18							
60								

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OVMMET 4391 11/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-3

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

DATE OF BORING: October 7, 1997

SURFACE ELEVATION: Approx. 355.0 feet msl (108.2 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE: DRY UNIT WEIGHT (PCF)	IN PLACE: MOIST. CONTENT % DRY WEIGHT
0				CONCRETE.				
				Gray AGGREGATE.				
				Dark yellowish brown silty clayey SAND (fine to coarse), with gravel (fine gravels are subrounded), slightly moist. (SC)	7*	< 1		
	1			Dark grayish brown fine sandy SILT, slightly moist. (ML)				
5		4-1		Very dark grayish brown fine sandy SILT, moist. (ML)				
	2			Very dark gray/brown silty fine SAND, moist. (SM)	5*	< 1		
					3			
				Dark brown clayey GRAVEL (to 1", subrounded), moist. (GC)				
10	3			Very dark grey/brown clayey SILT with fine sand, moist. (ML)				
					28*	< 1		
	4			Dark yellowish brown clayey SAND (fine to medium grain), moist. (SC)	46	< 1		
15		4-2		DRAFT				
	5				26*	< 1		
					40	< 1		
20	6			Dark yellowish brown clayey fine SAND with trace gravel (to 1/2", subrounded), very moist. (SC)	18*	< 1		
	7				21	1.0		
25		4-3		Dark yellowish brown silty fine to medium SAND, wet. (SM)	9*	< 1		
	8			Dark grayish brown clayey fine SAND, wet. (SC)	15	1.5		
30	9			Dark yellowish brown clayey fine SAND, very moist. (SC)				

OVMMET 4391 11/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-4

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

DATE OF BORING: October 7, 1997

SURFACE ELEVATION: Approx. 355.0 feet msl (108.2 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE DRY UNIT WEIGHT (PCF)	IN PLACE MOIST. CONTENT % DRY WEIGHT
			Dark grayish brown silty fine SAND, wet. (SM)	10*	<1		
	10		Dark grayish brown silty GRAVEL (to 1 1/4", subrounded) with sand, very moist. (GM)	55	2.0		
35							
	11	4-4	Dark grayish brown silty clayey fine SAND, wet. (SC)	23*	2.0		
			Mottled gray/dark yellowish brown clayey fine to medium SAND, wet, moderate iron staining common. (SC)	15	<1		
	12						
40			Dark grayish brown clayey GRAVEL (to 1 1/4", subrounded). (GC)	2*	2.5		
	13		Dark yellowish brown clayey fine to coarse SAND, wet. (SC)	58	<1		
			Dark gray clayey coarse to fine SAND with gravel (to 1 1/2", subrounded). (SC)		1.5		
45		4-5					
	14		Dark yellowish brown fine sandy CLAY, very moist. (CL)	11*	<1		
			Mottled grayish brown/dark yellowish brown clayey SILT, very moist, strong iron staining common. (ML)	21	<1		
	15						
50		4-6			<1		
			Show of water on sample and clay fractures.				
			Dark yellowish brown clayey GRAVEL, saturated. (GC)	16*	<1		
	16		Dark yellowish brown, silty CLAY, wet. (CL)	5	<1		
			DRAFT				
55							
	17		No recovery.	11*			
				8			
		4-7	Yellowish brown clayey fine SAND, wet. (SC)				
	18			44			
60							
				19*	<1		

OVMMET 4391 11/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-4

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

DATE OF BORING: October 7, 1997

SURFACE ELEVATION: Approx. 355.0 feet msl (108.2 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE DRY UNIT WEIGHT (PCF)	IN PLACE MOIST. CONTENT % DRY WEIGHT
	19			Yellowish brown clayey fine SAND with moderate iron staining common, very moist. (SC)	45	3.0		
65	20	4-8		Gray brown/dark yellowish brown fine sandy very silty CLAY, very moist, moderate iron staining abundant. (CL)	35*	<1		
		4-9		Brown silty medium to coarse SAND with gravel (to 1", subangular to subrounded), saturated. (SM)	75	<1		
70	21							
	22			Dark yellowish brown clayey fine SAND, wet. (SC)	8*	8.5		
75	23			▽ Approximate depth of ground water.				
	24							
80	25			Bottom of boring at approximately 80 feet. Ground-water sample W-4 recovered at 15:20.				
85	26							
	27							
90	28							

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OVMMET 4391 11/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-4

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

DATE OF BORING: October 7, 1997

SURFACE ELEVATION: Approx. 355.0 feet msl (108.2 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE DRY UNIT WEIGHT (PCF)	IN PLACE MOIST. CONTENT % DRY WEIGHT
0			Gray aggregate, dry. (Fill)				
			Dark grayish brown clayey SILT with sand and gravel (to 2"subrounded), moist. (Fill) (ML)	7*	< 1		
	1			6	< 1		
5							
	2			24*	1.0		5-1
				8	< 1		
10	3		Dark grayish brown very silty CLAY, tree roots, moist. (CL)	11*	< 1		
	4			8	< 1		
15		5-2					
	5		Dark yellow brown clayey fine to coarse SAND with gravel (to 2/3", subrounded), very moist. (SC)	11*	< 1		
				26	< 1		
20	6		Dark yellowish brown clayey GRAVEL (to 1 1/2", subrounded), moist. (GC)	24*	< 1		
			Dark yellowish brown, clayey fine to medium SAND, moist. (SC)				
	7			45	< 1		
25		5-3					
	8			11*	< 1		
			Dark yellowish brown clayey fine to coarse SAND. (SC)	20	< 1		
30	9		Dark brown silty CLAY with sand, very moist. (CL)				

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OVMMET 4391 11/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-5

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

DATE OF BORING: October 7, 1997

SURFACE ELEVATION: Approx. 355.0 feet msl (108.2 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE: DRY UNIT WEIGHT (PCF)	IN PLACE: MOIST. CONTENT % DRY WEIGHT
				Mottled dark brown/dark gray clayey SILT, very moist. (ML)	4*	<1		
	10			Mottled dark brown/dark gray clayey very silty fine SAND, very moist, moderate iron staining common. (SM)				
				Dark gray silty fine to medium SAND, very moist. (SM)	13	1.5		
35				▽ Approximate depth of ground water.				
		5-4		Dark gray silty CLAY with sand, very moist. (CL)				
	11			Dark gray well graded GRAVEL (to 1 1/2" m.s. subrounded) with clay and sand, saturated. (GW)	17*			
	12							
40		5.5		Dark gray brown clayey GRAVEL (to 1 1/4", subrounded), very moist. (GC)	88			
				Bottom of boring at approximately 40 feet. Ground-water sample recovered at 18:50.				
	13							
45								
	14							
	15							
50								
	16							
55								
	17							
	18							
60								

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OVMMET 4391 11/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-5

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

DATE OF BORING: October 8, 1997

SURFACE ELEVATION: Approx. 353.0 feet msl (107.6 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE DRY UNIT WEIGHT (PCF)	IN PLACE MOIST. CONTENT % DRY WEIGHT
0				Dark grayish brown silty GRAVEL with sand and cobbles (including concrete and asphalt). (Fill)(GM)				
				Dark gray brown clayey SILT with fine sand, tree roots, damp. (ML)	3*	< 1		
	1				3	< 1		
5		6-1			8*	< 1		
	2				5	< 1		
10	3				26*			
				Dark grayish brown silty CLAY with sand, moist. (CL)	11	< 1		
15	4	6-2			26*			
	5			Dark yellowish brown clayey GRAVEL (to 3/4", subrounded) with sand, moist. (GC)	26			
20	6			Dark yellowish brown/dark gray brown silty CLAY with gravel (to 1/2", subrounded). (CL)	40*	< 1		
				Dark yellowish brown clayey GRAVEL (to 1", subrounded), moist. (GC)	46	< 1		
25	7	6-3			18*	< 1		
	8			Dark brown clayey fine to coarse SAND, moist. (SC)	40			
30	9			Dark yellowish brown clayey SAND with trace gravel (to 3/4", subrounded), moist. (SC)				

DRAFT

OVMMET 4391 11/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-6

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

DATE OF BORING: October 8, 1997

SURFACE ELEVATION: Approx. 353.0 feet msl (107.6 meters msl)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	N S.P.T. BLOWS/FT *MODIFIED FOR 3" O.D. SAMPLER	OVM READING P.I.D. (10.0eV) (parts per million)	IN PLACE DRY UNIT WEIGHT (PCF)	IN PLACE MOIST. CONTENT % DRY WEIGHT
		6-4		Mottled dark brown/dark gray very fine sandy SILT, very moist. (ML)	19*	< 1		
				Dark gray brown silty fine SAND, wet. (SM)	15	< 1		
35	10			Mottled dark brown/dark gray very fine sandy SILT, very moist. (ML)				
		6-5		▽ Approximate depth of groundwater.				
	11			Dark gray brown silty GRAVEL (to 1", subrounded), saturated. (GM)	27*			
	12	6-6		Reddish brown sandy CLAY, very wet. (SC)	32			
40				Bottom of boring at approximately 40 feet. Ground-water sample W-6 recovered at 15:20				
	13							
45								
	14							
	15							
50								
	16							
55								
	17							
	18							
60								

DRAFT

OVMMET 4391 11/3/97

ENGEO INCORPORATED

RAY STREET PROPERTY

PLEASANTON, CALIFORNIA

BORING NO.: B-6

DATE: November 1997

PROJECT NO.: 4391-F3

CHECKED BY

FIGURE NO.

APPENDIX E

Summary of Site Assessment Activities

The following section summarizes findings of previous soil and groundwater investigations conducted at the site. Additional details are contained in Delta's *Site Conceptual Model* dated September 15, 2009.

June 30, 1987: Applied GeoSystems (AGS) oversaw the advancement of three soil borings (B-1, B-2 and B-3). The soil borings were advanced to 46.5 feet bgs and 55 feet bgs in the vicinity of the USTs and northern dispenser island. Total volatile hydrocarbons (TVH) were reported in all three borings, ranging from 7.72 milligrams per kilogram (mg/kg) in B-3 at a depth of 30 feet bgs, to 281.9 mg/kg in B-1 at a depth of 20 feet bgs. Total extractable hydrocarbons (TEH) were reported in B-1 at a depth of 35 feet bgs with a concentration of 1325 mg/kg. On August 21, 1987, an additional boring, B-4 was advanced to a depth of 66.5 feet bgs, directly north of B-1. TVH and TEH were reported at 100.5 mg/kg and 1,835 mg/kg, respectively at a depth of 35 feet bgs. Benzene was reported in all borings, with a maximum concentration of 17.1 mg/kg in B-1, located directly west of the fuel USTs, at a depth of 20 feet bgs, (AGS 1987).

December 2 through 7, 1987: Three soil borings (B-4, B-5 and B-6) were advanced at the site and completed in to monitoring wells MW-1, MW-2 and MW-3. The wells were installed to the southeast, north, and southwest of the site's fuel USTs as shown in **Figure 2**. TVH was detected in borings for wells MW-2 and MW-3 with a maximum concentration of 390 mg/kg at a depth of 55 feet bgs in MW-3. Benzene was detected in MW-2 and MW-3 with a maximum concentration of 14 mg/kg in MW-3 at a depth of 55 feet bgs. TEH was reported in MW-2 and MW-3 with a maximum concentration of 6,300 mg/kg in MW-2 at a depth of 35 feet bgs (AGS 1994).

September 9 through 24, 1994: Kaprellian Engineering Inc. (KEI) collected soil samples P1 through P13 from a depth of 3 feet and samples P2(9) and P5(9) from a depth of nine feet during product piping replacement activities. Total petroleum hydrocarbons as gasoline (TPH-G) and benzene were reported at a maximum concentrations of 8,900 mg/kg and 65 mg/kg, respectively, in sample P5 located at the southern end of the No. 2 fuel dispenser (KEI 1994).

February 6 and 7 1995: KEI oversaw the installation of monitoring well MW-2B and soil boring EB-1 in the vicinity of the fuel USTs and southern fuel dispenser, respectively (**Figure 2**). Well MW-2 was destroyed at this time due to introduction of asphalt to the well during repaving activities. TPH-G, total petroleum hydrocarbons as diesel (TPH-D) and benzene were reported in both borings with maximum concentrations of 15,000 mg/kg, 3,600 mg/kg and 340 mg/kg, respectively, in EB-1 at a depth of five feet. Detections of TPH-G, TPH-D and benzene were reported to depths of approximately 60 feet bgs in each boring (KEI 1995).

July 23 and 24, 1996: KEI oversaw the advancement of three additional soil monitoring wells (MW-4 through MW-6), to total depths of 73.5 to 93 feet bgs. Well MW-4 was installed onsite and wells MW-5 and MW-6 were installed offsite on the former Southern Pacific Railroad right-of-way as shown in **Figure 2**. Soil samples collected from the well borings were analyzed for TPH-G, benzene, toluene, ethylbenzene and xylenes (BTEX compounds), and fuel fingerprinting. Soil samples from boring MW-4 contained low concentrations of petroleum hydrocarbons ranging up to 47 parts per million (ppm) of TPH-G, up to 0.27 ppm of benzene, and up to 15 ppm of TPH-D. Soil samples collected in the upper 50 feet of well boring MW-5 contained benzene up to 0.038 ppm. Samples collected between 55 and 65 feet bgs in MW-5 contained up to 560 ppm of TPH-G, up to 3.9 ppm of benzene, and up to 450 ppm of TPH-D. Samples collected from MW-6 contained up to 5.0 ppm of TPH-G, up to 1.2 ppm of benzene and 200 ppm TPH-D detected at 55 feet bgs. Petroleum hydrocarbon concentrations in the range of kerosene, motor oil, and unidentified extractable hydrocarbons were also identified in the samples collected from the well borings (KEI, 1996).

June 27, 1997: Free product was encountered in well MW-5 during quarterly monitoring activities. In December 1997, Entrix, Inc. (Entrix) performed a forensic geochemical analysis of the free product extracted from well MW-5. The Entrix study determined that the free product was likely composed of a mixture of over 50% refined gasoline and 50% heavier hydrocarbons. The gasoline constituents appeared to be relatively fresh according to Entrix. The heavier hydrocarbon mixture had a carbon distribution ranging from C-13 to C-33. The distribution was similar in nature to a very weathered crude oil or Bunker C fuel, and petroleum products such as diesel #2, motor oil, lube oil, etc., or mixtures of any of the above heavier hydrocarbons (Entrix, 1997).

November 1997: Engeo advanced six soil borings (B-1 through B-5) on the northwest extent of the vacant right-of-way to the northwest of the site. The borings were advanced to determine whether soils in the right-of-way had been impacted as a result of fuel releases at the site. Borings B-1 through B-5 were advanced to depths of 40 to 80 feet bgs. No analytes were reported above reporting limits in any soil samples. TPH-G, benzene and MTBE were reported in groundwater samples at concentrations of 0.630 ppm, 0.023 ppm, and 0.498 ppm, respectively in groundwater sample W-4.

June and August 1998 : Five additional onsite soil borings (B-8 through B-12) were advanced and two offsite down gradient groundwater monitoring wells (MW-7, MW-8) were installed by Gettler-Ryan (GR). TPH-G, benzene, TPH-D and MTBE reached maximum concentrations in boring B-12 at depths between 28.5 bgs and 37.5 bgs of 1,700 ppm, 21 ppm , 14,000 ppm and 2.6 ppm, respectively. Total petroleum hydrocarbons as hydraulic oil (TPH-ho) was detected in B-11 at 10.5 feet bgs at a maximum concentration of 5,200 ppm. No analytes were reported in samples collected from B-8 and MW-7. Two soil samples containing visible free product were collected from boring B-11 (near the former UST excavation) at 10.5

and 61 feet bgs and submitted to Global Geochemistry Corp. for hydrocarbon fingerprinting chemical analysis. The results of these analyses determined that the free product from both samples was composed of approximately 90% highly to severely weathered crude oil and 10% of slightly weathered gasoline (GR, 1999).

October and November 2000: GR advanced one soil boring located northwest of the fuel USTs (B-13) and installed two offsite groundwater monitoring wells to the north of the site (MW-9 and MW-10) as shown in **Figure 2**. TPH-G and benzene were reported at maximum concentrations of 14,000 mg/kg and 100 mg/kg, respectively in B-13 at a depth of 28 feet bgs. Benzene and TPH-G were detected in B-13 to a depth of approximately 73 feet bgs. MTBE was reported at a maximum concentration of 2 mg/kg in B-13 at a depth of 46 feet bgs. No analytes were reported in MW-9. TPH-G, benzene and MTBE were reported in MW-10 at maximum concentrations of 240 mg/kg, 0.71 mg/kg, and 1.2 mg/kg, respectively, at a depth of 56 feet bgs (GR, 2000).

September 17 through 19, 2001 :Two offsite soil borings were installed by GR and completed as groundwater monitoring wells MW-11 and MW-12 (**Figure 2**). The wells were installed to total depths of approximately 86 and 88 feet bgs, respectively. No analytes were detected above laboratory reporting limits for all soil samples. No analytes were reported above the reporting limits in groundwater sample MW-12-Grab, collected from a perched groundwater zone at 40 feet bgs in well boring MW-12 (GR 2002).

November 5, 2007: BSK conducted an investigation in the right-of-way northwest of the site and surrounding parcels. The investigation was conducted for the City of Pleasanton to determine the extent of herbicides and heavy metals in the corridor as a result of the property's prior use as a railway. In addition, the investigation took place to determine the impact on soils from fuel releases at the site, and from the Shell service station across First Street.

Surface soil samples were collected at locations shown in Appendix B, and seven soil borings (SB-1 through SB-7) were advanced between the Kinder Morgan Pipeline location and the site. Borings were advanced to depths of 37.5 feet bgs to 61 feet bgs. Arsenic was reported at a maximum concentration of 68 mg/kg in sample RR-3, which is above the California Human Health Screening Levels (CHHSL) for residential and commercial soils of 0.07 mg/kg and 0.24 mg/kg, respectively. Lead was reported above the residential CHHSL of 150 mg/kg in two surface samples with a maximum concentration of 190 mg/kg in sample BG-1 (BSK 2008).

Samples from soil borings were analyzed for TPH-G, TPH-D, BTEX compounds, TPH-jet fuel, TPH-aviation fuel, oil and grease, MTBE and TBA. No analytes were reported above laboratory reporting limits in SB-1 and SB-3. TPH-G and TPH-D, TPH-aviation fuel, TPH-jet fuel, benzene, oil and grease and MTBE were reported in maximum concentrations of 8,100 mg/kg, 860 mg/kg, 9,600 mg/kg, 37 mg/kg, 11,000 mg/kg and 260 mg/kg, respectively, in SB-5 at a depth of 30 feet bgs. TPH-G was reported at a

maximum concentration of 380 mg/kg in SB-6 at a depth of 30 feet bgs. All soil sample locations and data are presented in Appendix B. The original lab report was amended as the indication of the petroleum hydrocarbons as jet fuel appeared to be questionable. A note on the soil analytical summary table stated "TPHg – total petroleum hydrocarbons – Jet Fuel** (Hydrocarbons reported within diesel range)" (BSK 2008).

February 18 through 26, 2008: Delta oversaw the advancement of seven cone penetrometer test (CPT) borings (CP-1 through CP-7). CP-1 and CP-2 were located onsite near the fuel USTs, and at the southeast portion of the site, respectively and CP-3 through CP-7 were located in the right of way directly to the west of the site as shown in **Figure 2**. TPH-G and benzene were reported only in CP-1 with maximum concentrations of 640 mg/kg and 25 feet bgs and 14 mg/kg at 30 feet bgs, respectively. TPH-G was reported in soil in CP-1 to the maximum depth explored of 701 feet bgs. MTBE was reported in borings CP-1, CP-5, CP-6 and CP-7, with a maximum concentration of 1.3 mg/kg in CP-1 at a depth of 30 feet bgs. TPH-G was reported in groundwater from borings CP-1, CP-4, CP-6 and CP-7 ranging from 99 micrograms per liter (µg/l) in CP-4 to a maximum of 1,500 µg/l in CP-1. Benzene was reported in CP-1, CP-2 and CP-6 ranging from 0.67µg/L in CP-2 to a maximum of 250 µg/l in CP-1. MTBE was reported in CP-1, CP-2, CP-4, CP-6 and CP-7 ranging from 1.4 µg/l in CP-2 to a maximum of 530 µg/l in CP-1. No groundwater samples were collected from CP-5 (Delta 2008).

June 8 through 25, 2009: Delta oversaw the destruction of wells MW-1, MW-2B and MW-3, and the installation of replacement wells MW-1B, MW-2C and MW-3B. In addition, one soil boring (SB-1) was advanced in the northwestern portion of the site in the footprint of an old bunker oil tank. Soil samples were collected from SB-1 and MW-2C. Gasoline range organics (GRO) was reported in soil boring SB-1 above the Environmental Screening Level (ESL) of 81 mg/kg from depths of 20 feet to 45 feet bgs. Fuel oil #6 was reported above the ESL of 2,500 mg/kg at depths of 30 feet bgs, 40 feet bgs and 45 feet bgs with a maximum concentration of 1,400 mg/kg at a depth of 20 feet bgs. Benzene was reported below 20 feet bgs in SB-1 to the maximum depth of 45 feet bgs, with a maximum concentration of 3.6 mg/kg at a depth of 30 feet bgs. MTBE was detected only at 10 feet bgs with a concentration of 0.05 mg/kg (Delta 2009).

Soil samples collected from MW-2C were subject to analysis for volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260, semi-volatile organic compounds by EPA Method 8270C, and purgeable aromatic and total petroleum hydrocarbons (TPH) by EPA 8015 (leaking underground fuel tank/ fuel finger printing) (LUFT/FFP). With the exception of sample depth 25 bgs Benzene was detected at all sampled depths at concentrations ranging from 28 (ppm) at 30 bgs, to 0.05 mg/kg at 45 bgs generally decreasing in concentration with depth. With the exception of sample depth 25 bgs MTBE was detected at all sampled depths in concentrations ranging from 8.7 mg/kg at 30 bgs to

0.075 mg/kg at 45 bgs generally decreasing in concentration with depth. TPH-G was not detected at or above laboratory reporting limits from sampled depths. TPH as Kerosene was detected at two sampled depths at concentrations ranging from 93 mg/kg at 20 bgs to 1,800 mg/kg at 25 bgs. TPH-D was detected at all sampled depths at concentrations ranging from 26 mg/kg at 20 bgs 15,000 mg/kg at 35 bgs.

APPENDIX F

Historic Groundwater Concentration Maps

LEGEND

MW-12 ⊕ Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration (µg/l)

MW-3 ∅ Abandoned well

—10,000— Dissolved-Phase TPH-G (GC/MS) Contour (µg/l)

N

TESSA PLACE

PLANTER

JAY CT.

DRIVEWAY

RESIDENTIAL

BENJAMIN COURT

CALI COURT

COLBY COURT

CRAIG COURT

MW-11 (ND<50) 6/22/2009

MW-12 (ND<50) 6/22/2009

MW-7 (230) 6/22/2009

MW-9 (ND<50) 3/26/2009

FORMER RAILROAD RIGHT-OF-WAY

MW-6 (150) 6/22/2009

MW-5 49000

MW-8 (520) 6/22/2009

APPROXIMATE LOCATION OF UNDERGROUND PETROLEUM PIPELINE (SANTA FE PACIFIC)

REDWOOD RETAINING WALL

10,000

1,000

100

?

MW-4 (ND<50) 6/22/2009

RAY STREET

BUILDING

MW-3B Dry

MW-3

MW-2

MW-2B

MW-2C Dry

KIOSK

UST

DISPENSER ISLANDS

MW-1

MW-1B 230

MW-10 (ND<50) 6/22/2009

FIRST STREET

SCALE (FEET)

0 60

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
( ) = representative historical value. UST = underground storage tank.

PROJECT:	165521
FACILITY:	76 STATION 7376 4191 FIRST STREET PLEASANTON, CALIFORNIA

DISSOLVED-PHASE TPH-G (GC/MS) CONCENTRATION MAP
September 1, 2009

TRC

FIGURE 3

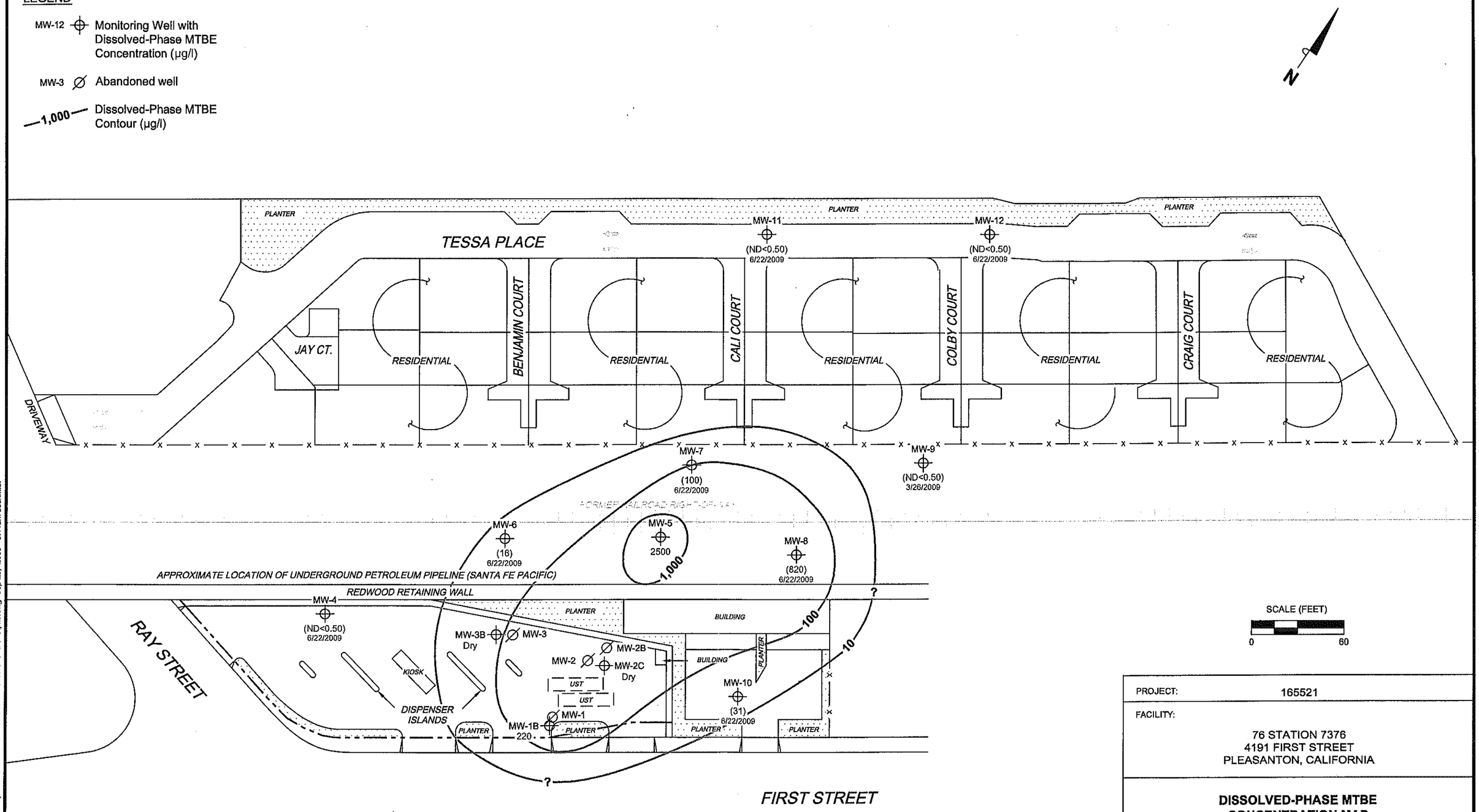
MS=1:60 7376-003 L:\Graphics\GMS NORTH-SOUTH\x-7000\7376+\7376gms.dwg Sep 25, 2009 - 3:48pm bschmidt

LEGEND

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

MW-3 ⊘ Abandoned well

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



SCALE (FEET)

0 60

PROJECT:	165521
FACILITY:	76 STATION 7376 4191 FIRST STREET PLEASANTON, CALIFORNIA

DISSOLVED-PHASE MTBE CONCENTRATION MAP
September 1, 2009

TRC

FIGURE 5

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. ( ) = representative historical value. UST = underground storage tank. Results obtained using EPA Method 8260B.

MS=1:60 7376-003 L:\Graphics\QMS NORTH-SOUTH\x-7000\7376+\7376qms.dwg Sep 28, 2009 - 9:41am bschmidt

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1			**(Screen Interval in feet: 65.0-95.0)**											
12/08/87	--	--	--	--	--	50	--	58	8.0	ND	10	--	--	
12/07/94	366.99	81.04	0.00	285.95	--	ND	--	ND	ND	ND	ND	--	--	
03/01/95	366.99	80.09	0.00	286.90	0.95	ND	--	ND	1.1	ND	1.3	--	--	
06/01/95	366.99	77.53	0.00	289.46	2.56	130	--	1.0	2.9	0.79	4.5	--	--	
09/06/95	366.99	79.00	0.00	287.99	-1.47	ND	--	ND	ND	ND	ND	--	--	
12/12/95	366.99	77.55	0.00	289.44	1.45	ND	--	ND	ND	ND	ND	--	--	
03/01/96	366.99	75.09	0.00	291.90	2.46	ND	--	ND	ND	ND	ND	370	--	
06/15/96	366.99	75.07	0.00	291.92	0.02	ND	--	ND	ND	ND	ND	270	--	
09/18/96	366.99	79.90	0.00	287.09	-4.83	ND	--	ND	ND	ND	ND	590	--	
12/21/96	366.99	78.96	0.00	288.03	0.94	ND	--	ND	ND	ND	ND	150	--	
03/07/97	366.99	71.49	0.00	295.50	7.47	ND	--	ND	ND	ND	ND	220	--	
06/27/97	366.99	80.05	0.00	286.94	-8.56	ND	--	ND	ND	ND	ND	17	--	
09/29/97	366.99	80.04	0.00	286.95	0.01	ND	--	ND	ND	ND	ND	24	--	
12/15/97	366.99	80.07	0.00	286.92	-0.03	ND	--	ND	ND	ND	ND	25	--	
03/16/98	366.99	71.00	0.00	295.99	9.07	ND	--	ND	0.52	ND	0.71	190	--	
06/26/98	366.98	79.29	0.00	287.69	-8.30	59	--	0.90	ND	ND	ND	570	--	
08/18/98	366.98	79.93	0.00	287.05	-0.64	--	--	--	--	--	--	--	--	
09/22/98	366.98	79.99	0.00	286.99	-0.06	ND	--	ND	ND	ND	ND	170	--	
12/15/98	366.98	80.02	0.00	286.96	-0.03	ND	--	ND	ND	ND	ND	63	--	
12/23/98	366.98	80.02	0.00	286.96	0.00	--	--	--	--	--	--	--	--	
03/15/99	366.98	78.95	0.00	288.03	1.07	ND	--	ND	ND	ND	ND	520	--	
03/23/99	366.98	78.69	0.00	288.29	0.26	--	--	--	--	--	--	--	--	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 continued														
06/07/99	366.98	79.82	0.00	287.16	-1.13	ND	--	ND	ND	ND	ND	310	--	
09/03/99	366.98	79.74	0.00	287.24	0.08	ND	--	ND	ND	ND	ND	67	55.2	
12/06/99	366.98	79.74	0.00	287.24	0.00	ND	--	ND	ND	ND	ND	120	--	
03/10/00	366.98	79.66	0.00	287.32	0.08	ND	--	ND	ND	ND	ND	100	--	
06/08/00	366.98	79.57	0.00	287.41	0.09	ND	--	ND	ND	ND	ND	98.9	--	
09/25/00	366.98	79.48	0.00	287.50	0.09	ND	--	ND	ND	ND	ND	145	--	
12/19/00	366.98	79.64	0.00	287.34	-0.16	ND	--	ND	ND	ND	ND	330	--	
03/05/01	366.98	80.03	0.00	286.95	-0.39	ND	--	ND	ND	ND	ND	711	--	
06/14/01	366.98	79.52	0.00	287.46	0.51	ND	--	ND	ND	ND	ND	680	--	
09/17/01	366.98	79.76	0.00	287.22	-0.24	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	--	
09/25/01	366.98	79.71	0.00	287.27	0.05	--	--	--	--	--	--	--	--	
12/17/01	366.98	80.73	0.00	286.25	-1.02	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	210	240	
03/15/02	366.98	79.51	0.00	287.47	1.22	ND<500	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1200	--	
06/20/02	366.98	79.60	0.00	287.38	-0.09	--	580	ND<5.0	ND<5.0	ND<5.0	ND<10	--	810	
09/27/02	366.98	80.76	0.00	286.22	-1.16	--	67	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	71	
12/30/02	366.98	81.28	0.00	285.70	-0.52	--	ND<200	ND<2.0	ND<2.0	ND<2.0	ND<4.0	--	360	
03/26/03	366.98	79.48	0.00	287.50	1.80	--	1300	ND<10	ND<10	ND<10	ND<20	--	2000	
06/10/03	366.98	80.29	0.00	286.69	-0.81	--	ND<2000	ND<20	ND<20	ND<20	ND<40	--	2800	
09/09/03	366.98	84.54	0.00	282.44	-4.25	--	1000	ND<10	ND<10	ND<10	ND<20	--	1900	
12/10/03	366.98	80.01	0.00	286.97	4.53	--	ND<2000	ND<20	ND<20	ND<20	ND<40	--	2700	
03/09/04	366.98	79.48	0.00	287.50	0.53	--	540	ND<5.0	ND<5.0	ND<5.0	ND<10	--	840	
06/21/04	366.98	79.49	0.00	287.49	-0.01	--	650	ND<5.0	ND<5.0	ND<5.0	ND<10	--	620	
09/08/04	366.98	79.43	0.00	287.55	0.06	--	93	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	

TRC

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2009
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 continued														
12/14/04	366.98	79.45	0.00	287.53	-0.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	150	
03/17/05	366.98	79.36	0.00	287.62	0.09	--	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<10	--	830	
06/15/05	366.98	78.21	0.00	288.77	1.15	--	ND<1300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2800	
09/20/05	366.98	79.18	0.00	287.80	-0.97	--	540	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1400	
12/29/05	366.98	70.69	0.00	296.29	8.49	--	460	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1400	
03/15/06	366.98	65.59	0.00	301.39	5.10	--	540	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2500	
06/28/06	366.98	66.15	0.00	300.83	-0.56	--	630	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3900	
09/28/06	366.98	70.13	0.00	296.85	-3.98	--	730	3.1	ND<2.5	ND<2.5	ND<2.5	--	2100	
12/11/06	366.98	63.29	0.00	303.69	6.84	--	180	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1400	
03/19/07	366.98	57.52	0.00	309.46	5.77	--	740	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	990	
06/15/07	366.98	66.79	0.00	300.19	-9.27	--	1400	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	1900	
09/24/07	366.98	69.64	0.00	297.34	-2.85	--	1100	ND<10	ND<10	ND<10	ND<10	--	900	
12/27/07	366.98	60.34	0.00	306.64	9.30	--	240	ND<0.50	0.63	ND<0.50	ND<1.0	--	560	
03/25/08	366.98	60.85	0.00	306.13	-0.51	--	620	ND<5.0	ND<5.0	ND<5.0	ND<10	--	910	
06/06/08	366.98	61.10	0.00	305.88	-0.25	--	830	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1000	
09/05/08	366.98	73.10	0.00	293.88	-12.00	--	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	590	
12/08/08	366.98	71.60	0.00	295.38	1.50	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	300	
03/26/09	366.98	64.10	0.00	302.88	7.50	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	330	
MW-2			**(Screen Interval in feet: --)**											
12/08/87	--	--	--	--	--	1800	--	910	800	260	1200	--	--	Damaged
12/07/94	--	--	--	--	--	--	--	--	--	--	--	--	--	
03/01/95	--	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed
MW-2B			**(Screen Interval in feet: 65.0-85.0)**											

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2009
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2B	**continued**													
03/01/95	365.05	80.80	0.00	284.25	--	ND	--	ND	ND	ND	ND	--	--	
06/01/95	365.05	75.69	0.00	289.36	5.11	350	--	19	5.8	ND	7.7	--	--	
09/06/95	365.05	77.54	0.00	287.51	-1.85	ND	--	90	ND	ND	ND	--	--	
12/12/95	365.05	75.96	0.00	289.09	1.58	1200	--	630	ND	15	57	--	--	
03/01/96	365.05	73.27	0.00	291.78	2.69	1000	--	620	ND	ND	5.3	4300	--	
06/15/96	365.05	73.21	0.00	291.84	0.06	910	--	350	ND	ND	ND	3700	--	
09/18/96	365.05	81.08	0.00	283.97	-7.87	1200	--	95	ND	ND	ND	5200	--	
12/21/96	365.05	77.35	0.00	287.70	3.73	330	--	57	ND	ND	ND	2900	--	
03/07/97	365.05	69.67	0.00	295.38	7.68	190	--	28	0.64	ND	1.5	4300	--	
06/27/97	365.05	82.40	0.00	282.65	-12.73	98	--	3.4	1.0	0.53	ND	3100	--	
09/29/97	365.05	82.72	0.00	282.33	-0.32	ND	--	ND	ND	ND	ND	3000	--	
12/15/97	365.05	82.57	0.00	282.48	0.15	54	--	ND	ND	ND	ND	4100	--	
03/16/98	365.05	69.13	0.00	295.92	13.44	ND	--	17	ND	ND	ND	4400	--	
06/26/98	365.05	77.78	0.00	287.27	-8.65	ND	--	ND	ND	ND	ND	4000	--	
08/18/98	365.05	83.99	0.00	281.06	-6.21	--	--	--	--	--	--	--	--	
09/22/98	365.05	83.89	0.00	281.16	0.10	ND	--	ND	ND	ND	21	4600	--	
12/15/98	365.05	82.84	0.00	282.21	1.05	ND	--	ND	ND	ND	ND	5100	--	
12/23/98	365.05	82.55	0.00	282.50	0.29	--	--	--	--	--	--	--	--	
03/15/99	365.05	77.31	0.00	287.74	5.24	ND	--	ND	ND	ND	ND	4300	4800	
03/23/99	365.05	77.06	0.00	287.99	0.25	--	--	--	--	--	--	--	--	
06/07/99	365.05	82.96	0.00	282.09	-5.90	ND	--	ND	ND	ND	ND	5100	--	
09/03/99	365.05	84.16	0.00	280.89	-1.20	ND	--	ND	ND	ND	ND	6300	4400	
12/06/99	365.05	84.41	0.00	280.64	-0.25	ND	--	ND	ND	ND	ND	4400	--	

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Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2B	**continued**													
03/10/00	365.05	82.42	0.00	282.63	1.99	ND	--	ND	ND	ND	ND	6900	--	
06/08/00	365.05	82.73	0.00	282.32	-0.31	ND	--	ND	ND	ND	ND	7780	--	
09/25/00	365.05	84.24	0.00	280.81	-1.51	52.9	--	8.83	6.58	0.932	5.60	12200	--	
12/19/00	365.05	84.39	0.00	280.66	-0.15	ND	--	ND	ND	ND	ND	6000	--	
03/05/01	365.05	84.61	0.00	280.44	-0.22	ND	--	ND	ND	ND	ND	5890	--	
06/14/01	365.05	83.53	0.00	281.52	1.08	ND	--	ND	ND	ND	ND	6600	--	
09/17/01	365.05	84.55	0.00	280.50	-1.02	ND<200	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	5100	--	
09/25/01	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
12/17/01	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/15/02	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
06/20/02	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
09/27/02	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/30/02	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/26/03	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
06/10/03	365.05	83.17	0.00	281.88	--	--	ND<5000	ND<50	ND<50	ND<50	ND<100	6400	--	
09/09/03	365.05	84.56	0.00	280.49	-1.39	--	--	--	--	--	--	--	--	car parked on well
12/10/03	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/09/04	365.05	84.13	0.00	280.92	--	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	5200	
06/21/04	365.05	83.71	0.00	281.34	0.42	--	3400	ND<25	ND<25	ND<25	ND<50	--	4600	
09/08/04	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/14/04	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/17/05	365.05	79.55	0.00	285.50	--	--	ND<5000	ND<0.50	ND<0.50	0.83	ND<1.0	--	7800	
06/15/05	365.05	76.89	0.00	288.16	2.66	--	ND<5000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6400	

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Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2B continued														
09/20/05	--	83.24	0.00	--	--	--	3200	ND<12	ND<12	ND<12	ND<25	--	6000	Casing elevation modified on 6/22/05
12/29/05	--	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
03/15/06	--	64.03	0.00	--	--	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	5700	
06/28/06	--	61.22	0.00	--	--	--	3000	ND<5.0	ND<5.0	ND<5.0	ND<10	--	11000	
09/28/06	--	66.35	0.00	--	--	--	3100	ND<10	ND<10	ND<10	ND<10	--	9800	
12/11/06	--	61.20	0.00	--	--	--	330	1.3	ND<0.50	1.9	1.6	--	10000	
03/19/07	--	55.75	0.00	--	--	--	8600	ND<25	ND<25	ND<25	ND<25	--	11000	
06/15/07	--	65.21	0.00	--	--	--	4700	ND<10	ND<10	ND<10	ND<10	--	9300	
09/24/07	--	63.41	0.00	--	--	--	--	--	--	--	--	--	--	LPH in casing well
12/27/07	--	58.75	0.00	--	--	--	1500	0.66	1.2	0.64	1.5	--	7900	
03/25/08	--	59.27	0.00	--	--	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	5700	
06/06/08	--	59.50	0.00	--	--	--	6400	ND<50	ND<50	ND<50	ND<100	--	7400	
09/05/08	--	73.50	0.00	--	--	--	2200	ND<10	ND<10	ND<10	ND<20	--	4000	
12/08/08	--	69.99	0.01	--	--	--	3100	ND<25	ND<25	ND<25	ND<50	--	4200	LPH in well
03/26/09	--	62.48	0.00	--	--	--	630	18	ND<6.2	6.5	19	--	5200	
MW-3			**(Screen Interval in feet: 76.5-96.5)**											
12/08/87	--	--	--	--	--	24000	--	2600	1300	160	660	--	--	
12/07/94	367.01	85.54	0.00	281.47	--	ND	--	ND	ND	ND	ND	--	--	
03/01/95	367.01	83.20	0.00	283.81	2.34	ND	--	ND	1.1	ND	1.1	--	--	
06/01/95	367.01	77.60	0.00	289.41	5.60	62	--	7.8	0.90	ND	1.6	--	--	
09/06/95	367.01	79.28	0.00	287.73	-1.68	4100	--	380	490	130	710	--	--	
12/12/95	367.01	77.73	0.00	289.28	1.55	19000	--	600	380	2100	5300	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
03/01/96	367.01	75.18	0.00	291.83	2.55	3400	--	950	3.2	1900	290	59	--	
06/15/96	367.01	75.13	0.00	291.88	0.05	780	--	190	8.8	3.8	4.0	630	--	
09/18/96	367.01	82.84	0.00	284.17	-7.71	2800	--	340	12	11	110	2500	--	
12/21/96	367.01	79.29	0.00	287.72	3.55	51	--	1.3	ND	ND	0.53	20	--	
03/07/97	367.01	71.58	0.00	295.43	7.71	1400	--	53	14	29	68	220	--	
06/27/97	367.01	83.27	0.00	283.74	-11.69	ND	--	ND	ND	ND	ND	27	--	
09/29/97	367.01	83.33	0.00	283.68	-0.06	ND	--	ND	ND	ND	ND	11	--	
12/15/97	367.01	83.35	0.00	283.66	-0.02	ND	--	ND	ND	ND	ND	19	--	
03/16/98	367.01	71.07	0.00	295.94	12.28	130	--	6.5	1.9	1.5	1.6	210	--	
06/26/98	367.03	79.65	0.00	287.38	-8.56	400	--	15	ND	ND	1.9	490	--	
08/18/98	367.03	83.29	0.00	283.74	-3.64	--	--	--	--	--	--	--	--	
09/22/98	367.03	83.33	0.00	283.70	-0.04	ND	--	ND	ND	ND	ND	24	--	
12/15/98	367.03	83.29	0.00	283.74	0.04	ND	--	ND	ND	ND	ND	18	--	
12/23/98	367.03	83.28	0.00	283.75	0.01	--	--	--	--	--	--	--	--	
03/15/99	367.03	79.19	0.00	287.84	4.09	26000	--	3100	270	2200	3100	1300	--	
03/23/99	367.03	78.92	0.00	288.11	0.27	--	--	--	--	--	--	--	--	
06/07/99	367.03	83.22	0.00	283.81	-4.30	ND	--	ND	ND	0.63	ND	29	--	
09/03/99	367.03	83.31	0.00	283.72	-0.09	23000	--	770	ND	980	6400	280	82.4	
12/06/99	367.03	83.41	0.00	283.62	-0.10	41000	--	3200	3500	1300	8300	ND	--	
03/10/00	367.03	83.23	0.00	283.80	0.18	5100	--	340	ND	97	450	200	--	
06/08/00	367.03	83.22	0.00	283.81	0.01	1200	--	52.0	ND	41.7	356	55.8	--	
09/25/00	367.03	83.37	0.00	283.66	-0.15	3400	--	305	ND	25.4	512	137	--	
12/19/00	367.03	83.27	0.00	283.76	0.10	6800	--	260	ND	120	950	130	--	

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Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
03/05/01	367.03	83.34	0.00	283.69	-0.07	16800	--	1100	48.6	637	4260	224	--	
06/14/01	367.03	83.39	0.00	283.64	-0.05	1800	--	260	ND	5.5	25	83	--	
09/17/01	367.03	84.10	0.00	282.93	-0.71	ND<50	--	0.50	ND<0.50	ND<0.50	ND<0.50	71	--	
09/25/01	367.03	84.23	0.00	282.80	-0.13	--	--	--	--	--	--	--	--	
12/17/01	367.03	83.32	0.00	283.71	0.91	1800	--	120	ND<5.0	45	270	80	91	
03/15/02	367.03	83.27	0.00	283.76	0.05	15000	--	160	ND<50	140	4400	ND<250	--	
06/20/02	367.03	83.74	0.00	283.29	-0.47	--	3700	98	0.69	4.0	2.3	--	92	
09/27/02	367.03	84.20	0.00	282.83	-0.46	--	210	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	67	
12/30/02	367.03	83.24	0.00	283.79	0.96	--	5900	320	ND<5.0	80	1500	--	160	
03/26/03	367.03	83.27	0.00	283.76	-0.03	--	7200	95	6.3	140	1500	--	130	
06/10/03	367.03	83.59	0.00	283.44	-0.32	--	360	2.1	ND<0.50	1.1	1.0	--	54	
09/09/03	367.01	83.75	0.00	283.26	-0.18	--	220	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	63	
12/10/03	367.01	83.21	0.00	283.80	0.54	--	980	32	ND<1.0	7.0	160	--	90	
03/09/04	367.01	83.23	0.00	283.78	-0.02	--	1300	4.2	0.67	6.4	91	--	83	
06/21/04	367.01	83.31	0.00	283.70	-0.08	--	96	ND<0.50	0.62	ND<0.50	ND<1.0	--	59	
09/08/04	367.01	83.81	0.00	283.20	-0.50	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	82	
12/14/04	367.01	83.20	0.00	283.81	0.61	--	1800	44	0.83	22	310	--	120	
03/17/05	367.01	81.33	0.00	285.68	1.87	--	11000	110	1.3	38	1100	--	57	
06/15/05	367.01	78.31	0.00	288.70	3.02	--	910	0.92	ND<0.50	1.0	ND<1.0	--	59	
09/20/05	367.01	83.28	0.00	283.73	-4.97	--	94	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	150	
12/29/05	367.01	70.73	0.00	296.28	12.55	--	2100	27	ND<0.50	91	260	--	64	
03/15/06	367.01	65.91	0.00	301.10	4.82	--	860	7.5	ND<0.50	3.3	ND<1.0	--	98	
06/28/06	367.01	66.16	0.00	300.85	-0.25	--	2200	430	14	25	17	--	380	

Table 2
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December 1987 Through March 2009
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
09/28/06	367.01	70.15	0.00	296.86	-3.99	--	410	110	ND<0.50	0.52	ND<0.50	--	79	
12/11/06	367.01	63.33	0.00	303.68	6.82	--	370	14	ND<0.50	ND<0.50	ND<0.50	--	70	
03/19/07	367.01	57.35	0.00	309.66	5.98	--	820	4.2	ND<0.50	ND<0.50	0.88	--	69	
06/15/07	367.01	66.79	0.00	300.22	-9.44	--	1500	130	1.3	7.8	8.8	--	400	
09/24/07	367.01	69.70	0.00	297.31	-2.91	--	330	1.1	ND<0.50	ND<0.50	ND<0.50	--	51	
12/27/07	367.01	60.35	0.00	306.66	9.35	--	210	0.54	0.98	ND<0.50	1.4	--	52	
03/25/08	367.01	60.87	0.00	306.14	-0.52	--	1500	69	ND<0.50	41	55	--	840	
06/06/08	367.01	61.14	0.00	305.87	-0.27	--	1300	58	ND<5.0	ND<5.0	ND<10	--	840	
09/05/08	367.01	73.10	0.00	293.91	-11.96	--	380	74	1.2	1.3	3.8	--	170	
12/08/08	367.01	71.65	0.00	295.36	1.45	--	120	1.8	ND<0.50	ND<0.50	ND<1.0	--	31	
03/26/09	367.01	64.12	0.00	302.89	7.53	--	490	0.84	0.53	ND<0.50	ND<1.0	--	33	
MW-4			**(Screen Interval in feet: 73.0-93.0)**											
09/18/96	369.03	73.67	0.00	295.36	--	160	--	14	ND	ND	1.6	ND	--	
12/21/96	369.03	77.69	0.00	291.34	-4.02	ND	--	ND	ND	ND	ND	ND	--	
03/07/97	369.03	68.04	0.00	300.99	9.65	ND	--	1.9	0.99	ND	1.5	ND	--	
06/27/97	369.03	79.06	0.00	289.97	-11.02	ND	--	ND	ND	ND	ND	ND	--	
09/29/97	369.03	85.83	0.00	283.20	-6.77	ND	--	ND	ND	ND	ND	ND	--	
12/15/97	369.03	87.26	0.00	281.77	-1.43	ND	--	ND	ND	ND	ND	ND	--	
03/16/98	369.03	75.09	0.00	293.94	12.17	ND	--	ND	0.69	ND	0.82	ND	--	
06/26/98	368.81	73.81	0.00	295.00	1.06	100	--	62	ND	ND	ND	ND	--	
08/18/98	368.81	78.75	0.00	290.06	-4.94	--	--	--	--	--	--	--	--	
09/22/98	368.81	83.95	0.00	284.86	-5.20	ND	--	ND	ND	ND	ND	2.8	--	
12/15/98	368.81	85.41	0.00	283.40	-1.46	ND	--	ND	ND	ND	ND	ND	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued														
12/23/98	368.81	84.95	0.00	283.86	0.46	--	--	--	--	--	--	--	--	
03/15/99	368.81	78.47	0.00	290.34	6.48	ND	--	ND	ND	ND	ND	ND	--	
03/23/99	368.81	77.37	0.00	291.44	1.10	--	--	--	--	--	--	--	--	
06/07/99	368.81	76.60	0.00	292.21	0.77	ND	--	ND	ND	ND	ND	ND	--	
09/03/99	368.81	87.23	0.00	281.58	-10.63	ND	--	ND	ND	ND	ND	ND	ND	
12/06/99	368.81	92.23	0.00	276.58	-5.00	ND	--	ND	ND	ND	ND	ND	--	
03/10/00	368.81	88.54	0.00	280.27	3.69	ND	--	ND	ND	ND	ND	ND	--	
06/08/00	368.81	86.98	0.00	281.83	1.56	ND	--	ND	ND	ND	ND	ND	--	
09/25/00	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/19/00	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/05/01	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
06/14/01	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
09/17/01	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
09/25/01	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/17/01	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/15/02	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
06/20/02	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
09/27/02	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/30/02	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/26/03	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
06/10/03	368.81	89.76	0.00	279.05	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/09/03	368.81	89.47	0.00	279.34	0.29	--	ND<50	ND<0.50	0.80	ND<0.50	ND<1.0	--	ND<2.0	
12/10/03	368.81	90.44	0.00	278.37	-0.97	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	

TRC

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2009
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued														
03/09/04	368.81	84.89	0.00	283.92	5.55	--	ND<50	4.2	0.59	2.0	1.3	--	ND<2.0	
06/21/04	368.81	81.90	0.00	286.91	2.99	--	ND<50	ND<0.50	0.68	ND<0.50	ND<1.0	--	ND<0.50	
09/08/04	368.81	86.45	0.00	282.36	-4.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/14/04	368.81	89.95	0.00	278.86	-3.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/17/05	368.81	78.86	0.00	289.95	11.09	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/15/05	368.81	73.07	0.00	295.74	5.79	--	ND<50	0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/20/05	368.81	79.83	0.00	288.98	-6.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/29/05	368.81	74.08	0.00	294.73	5.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/15/06	368.81	62.45	0.00	306.36	11.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/28/06	368.81	61.87	0.00	306.94	0.58	--	ND<50	2.9	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/28/06	368.81	70.81	0.00	298.00	-8.94	--	ND<50	0.53	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/11/06	368.81	64.10	0.00	304.71	6.71	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
03/19/07	368.81	60.37	0.00	308.44	3.73	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/15/07	368.81	62.13	0.00	306.68	-1.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
09/24/07	368.81	71.59	0.00	297.22	-9.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/27/07	368.81	62.18	0.00	306.63	9.41	--	ND<50	ND<0.50	1.1	ND<0.50	1.5	--	ND<0.50	
03/25/08	368.81	55.19	0.00	313.62	6.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/06/08	368.81	58.98	0.00	309.83	-3.79	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/05/08	368.81	69.95	0.00	298.86	-10.97	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/08/08	368.81	73.10	0.00	295.71	-3.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/26/09	368.81	62.10	0.00	306.71	11.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-5			**(Screen Interval in feet: 52.0-72.0)**											
09/18/96	363.23	64.20	0.00	299.03	--	36000	--	6700	410	730	6500	4100	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-5 continued														
12/21/96	363.23	61.77	--	301.46	2.43	25000	--	3200	300	780	3600	2600	--	
03/07/97	363.23	56.30	--	306.93	5.47	14000	--	1300	120	410	1200	1700	--	
06/27/97	363.23	68.88	0.90	295.02	-11.91	--	--	--	--	--	--	--	--	Not sampled-LPH in well
09/29/97	363.23	69.47	0.35	294.02	-1.00	--	--	--	--	--	--	--	--	Not sampled-LPH in well
12/15/97	363.23	64.92	0.30	298.54	4.51	--	--	--	--	--	--	--	--	Not sampled-LPH in well
03/16/98	363.23	49.63	0.09	313.67	15.13	--	--	--	--	--	--	--	--	Not sampled-LPH in well
06/26/98	363.21	64.13	--	299.08	-14.59	490	--	6.3	2.8	4.2	5.1	10	--	
08/18/98	363.21	70.40	0.01	292.81	-6.27	--	--	--	--	--	--	--	--	
09/22/98	363.21	69.10	0.06	294.15	1.34	--	--	--	--	--	--	--	--	Not sampled-LPH in well
12/15/98	363.21	68.84	0.17	294.50	0.34	--	--	--	--	--	--	--	--	Not sampled-LPH in well
12/23/98	363.21	68.42	0.50	295.16	0.67	--	--	--	--	--	--	--	--	
03/15/99	363.21	63.81	0.25	299.59	4.42	--	--	--	--	--	--	--	--	
03/23/99	363.21	63.59	0.13	299.72	0.13	--	--	--	--	--	--	--	--	
06/07/99	363.21	68.25	0.82	295.57	-4.14	210000	--	6700	3700	5000	20000	11000	4000	
09/03/99	363.21	69.38	0.70	294.35	-1.22	--	--	--	--	--	--	--	--	Not sampled-LPH in well
12/06/99	363.21	70.02	0.82	293.80	-0.55	--	--	--	--	--	--	--	--	Not sampled-LPH in well
03/10/00	363.21	64.56	0.64	299.13	5.33	--	--	--	--	--	--	--	--	Not sampled-LPH in well
06/08/00	363.21	66.47	0.51	297.12	-2.01	--	--	--	--	--	--	--	--	Not sampled-LPH in well
09/25/00	363.21	69.02	0.60	294.64	-2.48	--	--	--	--	--	--	--	--	Not sampled-LPH in well
12/19/00	363.21	68.31	0.14	295.01	0.36	--	--	--	--	--	--	--	--	Not sampled-LPH in well
03/05/01	363.21	64.19	0.08	299.08	4.07	--	--	--	--	--	--	--	--	Not sampled-LPH in well
06/14/01	363.21	64.02	0.11	299.27	0.19	--	--	--	--	--	--	--	--	Not sampled-LPH in well
09/17/01	363.21	72.07	0.04	291.17	-8.10	--	--	--	--	--	--	--	--	Not sampled-LPH in well

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-5 continued														
09/25/01	363.21	72.17	0.03	291.06	-0.11	--	--	--	--	--	--	--	--	Not sampled-LPH in well
12/17/01	363.21	72.11	0.03	291.12	0.06	--	--	--	--	--	--	--	--	Not sampled-LPH in well
03/15/02	363.21	66.93	0.22	296.45	5.32	--	--	--	--	--	--	--	--	Not sampled-LPH in well
06/20/02	363.21	69.71	0.42	293.82	-2.63	--	--	--	--	--	--	--	--	Not sampled-LPH in well
09/27/02	363.21	72.07	0.00	291.14	-2.68	--	--	--	--	--	--	--	--	Not enough water to sample
12/30/02	363.21	71.91	0.00	291.30	0.16	--	--	--	--	--	--	--	--	Not enough water to sample
03/26/03	363.21	67.55	0.15	295.77	4.47	--	--	--	--	--	--	--	--	Not sampled-LPH in well
06/10/03	363.21	69.34	0.12	293.96	-1.81	--	--	--	--	--	--	--	--	Not sampled-LPH in well
09/09/03	363.21	68.97	0.00	294.24	0.28	--	--	--	--	--	--	--	--	LPH in well
12/10/03	363.21	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/09/04	363.21	66.03	0.00	297.18	--	--	19000	7300	370	910	890	--	1400	
06/21/04	363.21	67.50	0.00	295.71	-1.47	--	13000	3700	220	710	660	--	1900	
09/08/04	363.21	70.62	0.02	292.61	-3.10	--	--	--	--	--	--	--	--	LPH in well
12/14/04	363.21	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/17/05	363.21	65.88	0.02	297.35	--	--	--	--	--	--	--	--	--	LPH in well
06/15/05	363.21	63.20	0.02	300.02	2.68	--	--	--	--	--	--	--	--	LPH in well
09/20/05	363.21	66.74	0.01	296.48	-3.55	--	--	--	--	--	--	--	--	LPH in well
12/29/05	363.21	64.04	0.01	299.18	2.70	--	--	--	--	--	--	--	--	LPH in well
03/15/06	363.21	57.95	0.01	305.27	6.09	--	--	--	--	--	--	--	--	LPH in well
06/28/06	363.21	57.33	0.02	305.90	0.63	--	--	--	--	--	--	--	--	LPH in well
09/28/06	363.21	60.65	0.01	302.57	-3.33	--	--	--	--	--	--	--	--	LPH in well
12/11/06	363.21	56.92	0.02	306.30	3.74	--	--	--	--	--	--	--	--	LPH in well
03/19/07	363.21	52.37	0.00	310.84	4.54	--	16000	620	31	330	320	--	1600	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-5 continued														
06/15/07	363.21	55.70	0.00	307.51	-3.33	--	13000	1400	37	430	180	--	4400	
09/24/07	363.21	61.14	0.00	302.07	-5.44	--	17000	1500	34	490	130	--	4000	
12/27/07	363.21	54.95	0.00	308.26	6.19	--	6500	1100	31	300	110	--	1400	
03/25/08	363.21	52.33	0.00	310.88	2.62	--	14000	950	20	310	76	--	2600	
06/06/08	363.21	54.12	0.00	309.09	-1.79	--	14000	1800	27	380	92	--	4900	
09/05/08	363.21	62.72	0.00	300.49	-8.60	--	13000	1800	40	470	130	--	3700	
12/08/08	363.21	64.14	0.00	299.07	-1.42	--	14000	3000	70	560	160	--	3800	
03/26/09	363.21	58.55	0.00	304.66	5.59	--	19000	2700	57	630	170	--	2700	
MW-6			**(Screen Interval in feet: 68.0-88.0)**											
09/18/96	363.12	79.07	0.00	284.05	--	160	--	5.4	ND	ND	ND	ND	--	
12/21/96	363.12	75.40	0.00	287.72	3.67	300	--	96	1.3	ND	1.7	21	--	
03/07/97	363.12	67.61	0.00	295.51	7.79	1800	--	920	18	ND	31	290	--	
06/27/97	363.12	80.45	0.00	282.67	-12.84	ND	--	0.73	ND	ND	38	38	--	
09/29/97	363.12	86.02	0.00	277.10	-5.57	62	--	ND	ND	ND	ND	43	--	
12/15/97	363.12	84.03	0.00	279.09	1.99	78	--	ND	ND	ND	ND	39	--	
03/16/98	363.12	67.15	0.00	295.97	16.88	210	--	36	2.5	ND	3.0	64	--	
06/26/98	363.13	75.71	0.00	287.42	-8.55	530	--	300	8.3	2.8	8.7	81	--	
08/18/98	363.13	74.86	0.00	288.27	0.85	--	--	--	--	--	--	--	--	
09/22/98	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
12/15/98	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
12/23/98	363.13	80.80	0.00	282.33	--	120	--	1.1	ND	ND	0.78	25	--	
01/23/99	363.13	80.68	0.00	282.45	0.12	ND	--	--	--	--	--	--	--	
03/15/99	363.13	75.29	0.00	287.84	5.39	62	--	1.4	ND	ND	ND	23	--	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
03/23/99	363.13	75.03	0.00	288.10	0.26	--	--	--	--	--	--	--	--	
06/07/99	363.13	82.27	0.00	280.86	-7.24	ND	--	ND	ND	ND	ND	18	--	
09/03/99	363.13	87.49	0.00	275.64	-5.22	--	--	--	--	--	--	--	--	Dry well
12/06/99	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/10/00	363.13	85.61	0.00	277.52	--	ND	--	ND	ND	ND	ND	64	--	
06/08/00	363.13	87.36	0.00	275.77	-1.75	--	--	--	--	--	--	--	--	Dry well
09/25/00	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/19/00	363.13	87.73	--	275.40	--	--	--	--	--	--	--	--	--	Dry well
03/05/01	363.13	87.82	--	275.31	-0.09	--	--	--	--	--	--	--	--	Dry well
06/14/01	363.13	87.69	0.00	275.44	0.13	--	--	--	--	--	--	--	--	Dry well
09/17/01	363.13	87.70	0.00	275.43	-0.01	--	--	--	--	--	--	--	--	Dry well
09/25/01	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/17/01	363.13	87.74	0.00	275.39	--	--	--	--	--	--	--	--	--	Dry well
03/15/02	363.13	87.72	0.00	275.41	0.02	--	--	--	--	--	--	--	--	Dry well
06/20/02	363.13	87.79	0.00	275.34	-0.07	--	--	--	--	--	--	--	--	Dry well
09/27/02	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/30/02	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/26/03	363.13	87.67	0.00	275.46	--	--	--	--	--	--	--	--	--	Dry well
06/10/03	363.13	87.13	0.00	276.00	0.54	--	--	--	--	--	--	--	--	Dry well
09/09/03	363.13	87.29	0.00	275.84	-0.16	--	--	--	--	--	--	--	--	Not enough water to sample
12/10/03	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/09/04	363.13	83.53	0.00	279.60	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	37	
06/21/04	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
09/08/04	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/14/04	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/17/05	363.13	77.58	0.00	285.55	--	--	79	0.67	ND<0.50	ND<0.50	ND<1.0	--	23	
06/15/05	363.13	74.44	0.00	288.69	3.14	--	ND<50	0.51	ND<0.50	ND<0.50	ND<1.0	--	18	
09/20/05	--	81.92	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	13	Casing elevation modified on 6/22/05
12/29/05	--	67.19	0.00	--	--	--	53	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	29	
03/15/06	--	61.88	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	
06/28/06	--	62.52	0.00	--	--	--	ND<50	2.0	0.74	0.73	1.4	--	12	
09/28/06	--	66.54	0.00	--	--	--	82	0.58	ND<0.50	ND<0.50	ND<0.50	--	9.7	
12/11/06	--	59.64	0.00	--	--	--	59	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	11	
03/19/07	--	53.75	0.00	--	--	--	ND<50	1.1	ND<0.50	ND<0.50	ND<0.50	--	22	
06/15/07	--	63.00	0.00	--	--	--	82	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	13	
09/24/07	--	66.10	0.00	--	--	--	110	ND<0.50	1.2	ND<0.50	0.85	--	8.8	
12/27/07	--	56.75	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	8.4	
03/25/08	--	57.16	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.6	
06/06/08	--	57.50	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.3	
09/05/08	--	69.45	0.00	--	--	--	230	0.92	ND<0.50	ND<0.50	1.2	--	13	
12/08/08	--	67.95	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	9.2	
03/26/09	--	60.20	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.2	
MW-7			**(Screen Interval in feet: 55.0-75.0)**											
06/26/98	355.97	--	--	--	--	--	--	--	--	--	--	--	--	
08/18/98	355.97	68.75	0.00	287.22	--	4000	--	1900	48	160	ND	1700	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2009
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-7 continued														
09/22/98	355.97	66.35	0.00	289.62	2.40	3200	--	1100	ND	22	ND	1500	--	
12/15/98	355.97	65.03	0.00	290.94	1.32	1900	--	180	2.7	2.9	3.8	1400	--	
12/23/98	355.97	64.82	0.00	291.15	0.21	--	--	--	--	--	--	--	--	
03/15/99	355.97	60.44	0.00	295.53	4.38	2700	--	1100	ND	30	16	1400	970	
03/23/99	355.97	60.43	0.00	295.54	0.01	--	--	--	--	--	--	--	--	
06/07/99	355.97	64.48	0.00	291.49	-4.05	2600	--	180	21	ND	13	1200	--	
09/03/99	355.97	69.98	0.00	285.99	-5.50	870	--	69	ND	ND	ND	1100	872	
12/06/99	355.97	70.18	0.00	285.79	-0.20	1900	--	350	ND	ND	ND	1100	--	
03/10/00	355.97	67.36	0.00	288.61	2.82	2900	--	1600	ND	40	54	1100	--	
06/08/00	355.97	69.81	0.00	286.16	-2.45	625	--	30.8	ND	0.761	0.940	1290	--	
09/25/00	355.97	70.15	0.00	285.82	-0.34	2180	--	423	ND	ND	ND	1510	--	
12/19/00	355.97	70.11	0.00	285.86	0.04	5900	--	1000	ND	ND	ND	1300	--	
03/05/01	355.97	68.72	0.00	287.25	1.39	13200	--	5070	195	306	385	1530	--	
06/14/01	355.97	70.00	0.00	285.97	-1.28	6400	--	3300	85	96	170	1000	--	
09/17/01	355.97	70.28	0.00	285.69	-0.28	11000	--	3000	ND<50	ND<50	ND<50	750	--	
09/25/01	355.97	70.49	0.00	285.48	-0.21	--	--	--	--	--	--	--	--	
12/17/01	355.97	71.35	0.00	284.62	-0.86	5800	--	1100	ND<10	ND<10	ND<10	760	670	
03/15/02	355.97	68.56	0.00	287.41	2.79	2800	--	850	22	74	39	360	540	
06/20/02	355.97	70.01	0.00	285.96	-1.45	--	9900	3200	23	41	ND<40	--	390	
09/27/02	355.97	71.50	0.00	284.47	-1.49	--	4200	710	ND<10	ND<10	ND<20	--	610	
12/30/02	355.97	71.25	0.00	284.72	0.25	--	2400	620	ND<2.5	20	53	--	500	
03/26/03	355.97	68.79	0.00	287.18	2.46	--	5300	1800	ND<10	13	ND<20	--	270	
06/10/03	355.97	69.10	0.00	286.87	-0.31	--	1300	380	ND<5.0	ND<5.0	ND<10	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-7 continued														
09/09/03	355.97	70.04	0.00	285.93	-0.94	--	1900	240	ND<2.5	ND<2.5	ND<5.0	--	380	
12/10/03	355.97	69.98	0.00	285.99	0.06	--	4500	500	ND<5.0	ND<5.0	ND<10	--	340	
03/09/04	355.97	66.66	0.00	289.31	3.32	--	5600	1700	11	34	ND<20	--	280	
06/21/04	355.97	67.82	0.00	288.15	-1.16	--	2300	260	ND<2.5	3.0	ND<5.0	--	300	
09/08/04	355.97	70.05	0.00	285.92	-2.23	--	1400	72	ND<2.5	ND<2.5	ND<5.0	--	440	
12/14/04	355.97	70.87	--	285.10	-0.82	--	2200	180	ND<1.0	1.8	ND<2.0	--	320	
03/17/05	355.97	63.69	0.00	292.28	7.18	--	5700	1800	7.8	24	16	--	190	
06/15/05	355.97	59.29	0.00	296.68	4.40	--	3900	230	ND<2.5	3.7	8.0	--	280	
09/20/05	355.97	64.38	0.00	291.59	-5.09	--	1200	5.8	ND<5.0	ND<5.0	ND<10	--	260	
12/29/05	355.97	57.43	0.00	298.54	6.95	--	450	1.6	ND<0.50	ND<0.50	ND<1.0	--	140	
03/15/06	355.97	51.92	0.00	304.05	5.51	--	300	1.4	0.86	ND<0.50	ND<1.0	--	94	
06/28/06	355.97	49.47	0.00	306.50	2.45	--	770	47	2.4	2.2	1.3	--	510	
09/28/06	355.97	53.93	0.00	302.04	-4.46	--	610	13	1.1	0.82	0.66	--	370	
12/11/06	355.97	49.87	0.00	306.10	4.06	--	180	1.2	ND<0.50	ND<0.50	ND<0.50	--	180	
03/19/07	355.97	45.28	0.00	310.69	4.59	--	200	0.92	ND<0.50	ND<0.50	ND<0.50	--	98	
06/15/07	355.97	49.48	0.00	306.49	-4.20	--	170	1.0	ND<0.50	ND<0.50	0.60	--	72	
09/24/07	355.97	54.05	0.00	301.92	-4.57	--	590	1.4	ND<0.50	ND<0.50	ND<0.50	--	330	
12/27/07	355.97	47.98	0.00	307.99	6.07	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	84	
03/25/08	355.97	46.00	0.00	309.97	1.98	--	92	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	74	
06/06/08	355.97	47.38	0.00	308.59	-1.38	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	68	
09/05/08	355.97	57.79	0.00	298.18	-10.41	--	320	3.4	ND<0.50	ND<0.50	ND<1.0	--	240	
12/08/08	355.97	56.98	0.00	298.99	0.81	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	100	
03/26/09	355.97	51.35	0.00	304.62	5.63	--	150	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	94	

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Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-8			**(Screen Interval in feet: 66.0-86.0)**											
06/26/98	362.37	63.00	0.00	299.37	--	ND	--	6.0	ND	ND	ND	150	--	
08/18/98	362.37	73.38	0.00	288.99	-10.38	--	--	--	--	--	--	--	--	
09/22/98	362.37	70.89	0.00	291.48	2.49	ND	--	ND	ND	ND	ND	9.5	--	
12/15/98	362.37	70.29	0.00	292.08	0.60	ND	--	ND	ND	ND	ND	3.0	--	
12/23/98	362.37	70.03	0.00	292.34	0.26	--	--	--	--	--	--	--	--	
03/15/99	362.37	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
03/23/99	361.83	64.86	0.00	296.97	--	ND	--	ND	0.77	ND	0.96	190	--	
06/07/99	361.83	68.30	0.00	293.53	-3.44	ND	--	ND	ND	ND	ND	ND	--	
09/03/99	361.83	73.92	0.00	287.91	-5.62	ND	--	ND	0.57	ND	ND	170	146	
12/06/99	361.83	74.98	0.00	286.85	-1.06	ND	--	ND	ND	ND	ND	150	--	
03/10/00	361.83	71.54	0.00	290.29	3.44	ND	--	ND	ND	ND	ND	150	--	
06/08/00	361.83	72.60	0.00	289.23	-1.06	ND	--	ND	ND	ND	ND	42.8	--	
09/25/00	361.83	75.31	0.00	286.52	-2.71	ND	--	ND	ND	ND	ND	227	--	
12/19/00	361.83	75.54	0.00	286.29	-0.23	ND	--	ND	ND	ND	ND	160	--	
03/05/01	361.83	75.91	0.00	285.92	-0.37	ND	--	ND	ND	ND	ND	125	--	
06/14/01	361.83	75.51	0.00	286.32	0.40	ND	--	ND	ND	ND	ND	140	--	
09/17/01	361.83	77.19	0.00	284.64	-1.68	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	110	--	
09/25/01	361.83	77.17	0.00	284.66	0.02	--	--	--	--	--	--	--	--	
12/17/01	361.83	79.94	0.00	281.89	-2.77	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	170	
03/15/02	361.83	76.82	0.00	285.01	3.12	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	72	--	
06/20/02	361.83	77.73	0.00	284.10	-0.91	--	83	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	80	
09/27/02	361.83	78.94	0.00	282.89	-1.21	--	160	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	94	
12/30/02	361.83	78.21	0.00	283.62	0.73	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	

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Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-8 continued														
03/26/03	361.83	74.34	0.00	287.49	3.87	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	110	
06/10/03	361.83	75.17	0.00	286.66	-0.83	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	31	
09/09/03	361.83	74.11	0.00	287.72	1.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	150	
12/10/03	361.83	73.59	0.00	288.24	0.52	--	150	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	180	
03/09/04	361.83	70.32	0.00	291.51	3.27	--	130	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	180	
06/21/04	361.83	70.30	0.00	291.53	0.02	--	150	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	200	
09/08/04	361.83	73.83	0.00	288.00	-3.53	--	300	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	350	
12/14/04	361.83	75.45	0.00	286.38	-1.62	--	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	210	
03/17/05	361.83	67.85	0.00	293.98	7.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	290	
06/15/05	361.83	62.74	0.00	299.09	5.11	--	ND<200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	290	
09/20/05	--	68.11	0.00	--	--	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	310	Casing elevation modified on 6/22/05
12/29/05	--	62.32	0.00	--	--	--	210	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	390	
03/15/06	--	56.89	0.00	--	--	--	140	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	310	
06/28/06	--	54.53	0.00	--	--	--	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	550	
09/28/06	--	59.02	0.00	--	--	--	210	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	460	
12/11/06	--	55.02	0.00	--	--	--	260	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	580	
03/19/07	--	51.00	0.00	--	--	--	340	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	480	
06/15/07	--	54.60	0.00	--	--	--	350	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	540	
09/24/07	--	58.59	0.00	--	--	--	420	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	590	
12/27/07	--	53.40	0.00	--	--	--	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	510	
03/25/08	--	50.96	0.00	--	--	--	65	ND<0.50	0.58	ND<0.50	1.1	--	82	
06/06/08	--	52.66	0.00	--	--	--	400	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	550	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-8 continued														
09/05/08	--	60.90	0.00	--	--	--	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	590	
12/08/08	--	62.46	0.00	--	--	--	330	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	640	
03/26/09	--	56.72	0.00	--	--	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	510	
MW-9			**(Screen Interval in feet: --)**											
11/29/99	354.85	74.50	0.00	280.35	--	--	--	--	--	--	--	--	--	
12/06/99	354.85	74.35	0.00	280.50	0.15	ND	--	ND	ND	ND	ND	3.0	2.7	
03/10/00	354.85	65.94	0.00	288.91	8.41	ND	--	ND	ND	ND	ND	2.5	--	
06/08/00	354.85	70.77	0.00	284.08	-4.83	ND	--	ND	ND	ND	ND	ND	--	
09/25/00	354.85	74.75	0.00	280.10	-3.98	ND	--	ND	0.516	ND	ND	10.5	--	
12/19/00	354.85	74.43	0.00	280.42	0.32	ND	--	ND	ND	ND	ND	ND	--	
03/05/01	354.85	74.63	0.00	280.22	-0.20	ND	--	ND	ND	ND	ND	ND	--	
06/14/01	354.85	74.75	0.00	280.10	-0.12	ND	--	ND	ND	ND	ND	ND	--	
09/17/01	354.85	74.78	0.00	280.07	-0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
09/25/01	354.85	74.83	0.00	280.02	-0.05	--	--	--	--	--	--	--	--	
12/17/01	354.85	74.80	0.00	280.05	0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	
03/15/02	354.85	74.83	0.00	280.02	-0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
06/20/02	354.85	74.88	0.00	279.97	-0.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.75	
09/27/02	354.85	75.38	0.00	279.47	-0.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.6	
12/30/02	354.85	73.33	0.00	281.52	2.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.2	
03/26/03	354.85	71.21	0.00	283.64	2.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.1	
06/10/03	354.85	71.83	0.00	283.02	-0.62	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/09/03	362.62	71.85	0.00	290.77	7.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/10/03	362.62	69.50	0.00	293.12	2.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-9 continued														
03/09/04	362.62	65.24	0.00	297.38	4.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
06/21/04	362.62	66.52	0.00	296.10	-1.28	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/08/04	362.62	71.36	0.00	291.26	-4.84	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/14/04	362.62	71.73	0.00	290.89	-0.37	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/17/05	362.62	60.42	0.00	302.20	11.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/15/05	362.62	57.63	0.00	304.99	2.79	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/20/05	362.62	62.99	0.00	299.63	-5.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.55	
12/29/05	362.62	55.38	0.00	307.24	7.61	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/15/06	362.62	50.12	0.00	312.50	5.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.68	
06/28/06	362.62	47.93	0.00	314.69	2.19	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/28/06	362.62	52.33	0.00	310.29	-4.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.1	
12/11/06	362.62	48.26	0.00	314.36	4.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.61	
03/19/07	362.62	43.68	0.00	318.94	4.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/15/07	362.62	48.35	0.00	314.27	-4.67	--	ND<50	ND<0.50	0.50	ND<0.50	0.74	--	0.59	
09/24/07	362.62	52.52	0.00	310.10	-4.17	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/27/07	362.62	46.26	0.00	316.36	6.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.56	
03/25/08	362.62	44.83	0.00	317.79	1.43	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.99	
06/06/08	362.62	45.88	0.00	316.74	-1.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/05/08	362.62	54.63	0.00	307.99	-8.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/08/08	362.62	55.44	0.00	307.18	-0.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/26/09	362.62	49.68	0.00	312.94	5.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-10			**(Screen Interval in feet: --)**											
11/29/99	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-10	**continued**													
12/06/99	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/10/00	362.62	85.04	0.00	277.58	--	ND	--	ND	ND	ND	ND	130	150	
06/08/00	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
09/25/00	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/19/00	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/05/01	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
06/14/01	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
09/17/01	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
09/25/01	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/17/01	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/15/02	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
06/20/02	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
09/27/02	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/30/02	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/26/03	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
06/10/03	362.62	89.70	0.00	272.92	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	24	
09/09/03	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/10/03	362.62	92.09	0.00	270.53	--	--	--	--	--	--	--	--	--	Insufficient recharge
03/09/04	362.62	83.15	0.00	279.47	8.94	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	130	
06/21/04	362.62	86.86	0.00	275.76	-3.71	--	420	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	490	
09/08/04	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/14/04	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/17/05	362.62	77.07	0.00	285.55	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	65	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2009
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-10 continued														
06/15/05	362.62	74.04	0.00	288.58	3.03	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	77	
09/20/05	362.62	81.08	0.00	281.54	-7.04	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	210	
12/29/05	362.62	66.31	0.00	296.31	14.77	--	51	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	84	
03/15/06	362.62	61.26	0.00	301.36	5.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	91	
06/28/06	362.62	61.88	0.00	300.74	-0.62	--	60	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	140	
09/28/06	362.62	65.76	0.00	296.86	-3.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.77	--	53	
12/11/06	362.62	58.96	0.00	303.66	6.80	--	85	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	83	
03/19/07	362.62	53.02	0.00	309.60	5.94	--	78	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	100	
06/15/07	362.62	62.50	0.00	300.12	-9.48	--	68	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	96	
09/24/07	362.62	65.30	0.00	297.32	-2.80	--	86	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	76	
12/27/07	362.62	55.95	0.00	306.67	9.35	--	63	ND<0.50	1.3	ND<0.50	1.6	--	81	
03/25/08	362.62	56.59	0.00	306.03	-0.64	--	61	0.75	ND<0.50	ND<0.50	ND<1.0	--	78	
06/06/08	362.62	56.76	0.00	305.86	-0.17	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	24	
09/05/08	362.62	68.75	0.00	293.87	-11.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	43	
12/08/08	362.62	67.25	0.00	295.37	1.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	20	
03/26/09	362.62	59.73	0.00	302.89	7.52	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	
MW-11			**(Screen Interval in feet: --)**											
09/25/01	354.66	81.24	0.00	273.42	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.0	--	
12/17/01	354.66	80.47	0.00	274.19	0.77	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	14	
03/15/02	354.66	79.42	0.00	275.24	1.05	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.6	--	
06/20/02	354.66	80.69	0.00	273.97	-1.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.7	
09/27/02	354.66	81.58	0.00	273.08	-0.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.6	
12/30/02	354.66	79.12	0.00	275.54	2.46	--	ND<50	ND<0.50	ND<0.50	2.0	6.1	--	6.9	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2009
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-11	**continued**													
03/26/03	354.66	73.70	0.00	280.96	5.42	--	ND<50	0.62	1.7	0.5	2.6	--	9.8	
06/10/03	354.66	73.06	0.00	281.60	0.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.8	
09/09/03	354.66	74.19	0.00	280.47	-1.13	--	ND<50	ND<0.50	0.66	ND<0.50	ND<1.0	--	4.4	
12/10/03	354.66	70.99	0.00	283.67	3.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.4	
03/09/04	354.66	66.61	0.00	288.05	4.38	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
06/21/04	354.66	67.63	0.00	287.03	-1.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.89	
09/08/04	354.66	72.69	0.00	281.97	-5.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	8.0	
12/14/04	354.66	72.69	0.00	281.97	0.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	15	
03/17/05	354.66	61.62	0.00	293.04	11.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.1	
06/15/05	354.66	58.68	0.00	295.98	2.94	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/20/05	354.66	63.81	0.00	290.85	-5.13	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/29/05	354.66	55.96	0.00	298.70	7.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.64	
03/15/06	354.66	50.73	0.00	303.93	5.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/28/06	354.66	48.54	0.00	306.12	2.19	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/28/06	354.66	52.78	0.00	301.88	-4.24	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.55	--	ND<0.50	
12/11/06	354.66	48.64	0.00	306.02	4.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
03/19/07	354.66	44.06	0.00	310.60	4.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/15/07	354.66	48.70	0.00	305.96	-4.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.63	--	ND<0.50	
09/24/07	354.66	52.77	0.00	301.89	-4.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/27/07	354.66	46.51	0.00	308.15	6.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/25/08	354.66	45.09	0.00	309.57	1.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/06/08	354.66	46.21	0.00	308.45	-1.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/05/08	354.66	54.97	0.00	299.69	-8.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-11 continued														
12/08/08	354.66	55.63	0.00	299.03	-0.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/26/09	354.66	49.90	0.00	304.76	5.73	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-12			**(Screen Interval in feet: --)**											
09/25/01	354.08	80.78	0.00	273.30	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/17/01	354.08	80.02	0.00	274.06	0.76	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	
03/15/02	354.08	78.88	0.00	275.20	1.14	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
06/20/02	354.08	80.34	0.00	273.74	-1.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.83	
09/27/02	354.08	81.50	0.00	272.58	-1.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/30/02	354.08	78.20	0.00	275.88	3.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
03/26/03	354.08	72.80	0.00	281.28	5.40	--	ND<50	0.57	1.6	ND<0.50	2.2	--	ND<2.0	
06/10/03	354.08	72.31	0.00	281.77	0.49	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/09/03	354.08	73.38	0.00	280.70	-1.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/10/03	354.08	70.28	0.00	283.80	3.10	--	ND<50	ND<0.50	0.51	ND<0.50	1.1	--	ND<2.0	
03/09/04	354.08	65.69	0.00	288.39	4.59	--	ND<50	ND<0.50	0.54	ND<0.50	1.4	--	ND<2.0	
06/21/04	354.08	66.90	0.00	287.18	-1.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/08/04	354.08	71.96	0.00	282.12	-5.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/14/04	354.08	71.92	0.00	282.16	0.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/17/05	354.08	60.49	0.00	293.59	11.43	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/15/05	354.08	57.82	0.00	296.26	2.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.1	--	ND<0.50	
09/20/05	354.08	63.02	0.00	291.06	-5.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/29/05	354.08	55.01	0.00	299.07	8.01	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/15/06	354.08	49.92	0.00	304.16	5.09	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/28/06	354.08	47.91	0.00	306.17	2.01	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.56	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2009

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (Luft) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-12	**continued**													
09/28/06	354.08	52.05	0.00	302.03	-4.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/11/06	354.08	47.83	0.00	306.25	4.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
03/19/07	354.08	43.32	0.00	310.76	4.51	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/15/07	354.08	48.26	0.00	305.82	-4.94	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.60	--	ND<0.50	
09/24/07	354.08	52.60	0.00	301.48	-4.34	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/27/07	354.08	45.83	0.00	308.25	6.77	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/25/08	354.08	44.63	0.00	309.45	1.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/06/08	354.08	45.51	0.00	308.57	-0.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/05/08	354.08	54.27	0.00	299.81	-8.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/08/08	354.08	54.92	0.00	299.16	-0.65	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/26/09	354.08	49.25	0.00	304.83	5.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-1								
12/08/87	2100	--	--	--	--	--	--	--
03/01/95	120	--	--	--	--	--	--	--
06/01/95	54	--	--	--	--	--	--	--
09/06/95	690	--	--	--	--	--	--	--
12/12/95	190	--	--	--	--	--	--	--
03/01/96	56	--	--	--	--	--	--	--
06/15/96	ND	--	--	--	--	--	--	--
09/18/96	130	--	--	--	--	--	--	--
12/21/96	ND	--	--	--	--	--	--	--
03/07/97	ND	--	--	--	--	--	--	--
06/27/97	ND	--	--	--	--	--	--	--
09/29/97	ND	--	--	--	--	--	--	--
12/15/97	ND	--	--	--	--	--	--	--
03/16/98	ND	--	--	--	--	--	--	--
06/26/98	ND	--	--	--	--	--	--	--
09/22/98	240	--	--	--	--	--	--	--
12/15/98	ND	--	--	--	--	--	--	--
03/15/99	67	--	--	--	--	--	--	--
06/07/99	ND	--	--	--	--	--	--	--
09/03/99	76	ND	ND	ND<2.0	--	ND	ND	ND
12/06/99	ND	--	--	--	--	--	--	--
03/10/00	51	--	--	--	--	--	--	--
06/08/00	68.2	--	--	--	--	--	--	--
09/25/00	ND	--	--	--	--	--	--	--
12/19/00	ND	--	--	--	--	--	--	--

TRC

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-1 continued								
03/05/01	505	--	--	--	--	--	--	--
06/14/01	71	--	--	--	--	--	--	--
09/17/01	ND<50	--	--	--	--	--	--	--
12/17/01	ND<53	ND<40	ND<1000	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0
03/15/02	ND<52	--	--	--	--	--	--	--
06/20/02	ND<50	--	--	--	--	--	--	--
09/27/02	ND<100	--	--	--	--	--	--	--
12/30/02	52	ND<400	ND<2000	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<8.0
03/26/03	120	ND<2000	ND<10000	ND<40	ND<40	ND<40	ND<40	ND<40
06/10/03	ND<50	ND<4000	ND<20000	ND<80	ND<80	ND<80	ND<80	ND<80
09/09/03	ND<50	--	--	--	--	--	--	--
12/10/03	ND<50	--	--	--	--	--	--	--
03/09/04	ND<50	--	--	--	--	--	--	--
06/21/04	ND<50	--	--	--	--	--	--	--
09/08/04	ND<50	--	--	--	--	--	--	--
12/14/04	ND<50	--	--	--	--	--	--	--
03/17/05	ND<50	--	--	--	--	--	--	--
06/15/05	ND<50	--	--	--	--	--	--	--
09/20/05	ND<200	--	--	--	--	--	--	--
12/29/05	ND<200	--	--	--	--	--	--	--
03/15/06	ND<200	--	--	--	--	--	--	--
06/28/06	ND<200	--	--	--	--	--	--	--
09/28/06	ND<50	--	--	--	--	--	--	--
12/11/06	ND<50	--	--	--	--	--	--	--
03/19/07	170	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-1 continued								
06/15/07	53	--	--	--	--	--	--	--
09/24/07	76	--	--	--	--	--	--	--
12/27/07	53	--	--	--	--	--	--	--
03/25/08	59	--	--	--	--	--	--	--
06/06/08	ND<50	--	--	--	--	--	--	--
09/05/08	ND<56	--	--	--	--	--	--	--
12/08/08	ND<50	--	--	--	--	--	--	--
03/26/09	ND<50	--	--	--	--	--	--	--
MW-2								
12/08/87	620	--	--	--	--	--	--	--
MW-2B								
03/01/95	320	--	--	--	--	--	--	--
06/01/95	280	--	--	--	--	--	--	--
09/06/95	ND	--	--	--	--	--	--	--
12/12/95	850	--	--	--	--	--	--	--
03/01/96	870	--	--	--	--	--	--	--
06/15/96	420	--	--	--	--	--	--	--
09/18/96	600	--	--	--	--	--	--	--
12/21/96	470	--	--	--	--	--	--	--
03/07/97	870	--	--	--	--	--	--	--
06/27/97	680	--	--	--	--	--	--	--
09/29/97	430	--	--	--	--	--	--	--
12/15/97	490	--	--	--	--	--	--	--
03/16/98	4000	--	--	--	--	--	--	--
06/26/98	790	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-2B continued								
09/22/98	930	--	--	--	--	--	--	--
12/15/98	600	--	--	--	--	--	--	--
03/15/99	390	3800	ND	--	--	13	ND	ND
06/07/99	770	--	--	--	--	--	--	--
09/03/99	870	3480	ND	--	--	ND	ND	ND
12/06/99	850	--	--	--	--	--	--	--
03/10/00	1500	--	--	--	--	--	--	--
09/25/00	2900	--	--	--	--	--	--	--
12/19/00	700	--	--	--	--	--	--	--
06/14/01	570	--	--	--	--	--	--	--
06/10/03	280	ND<10000	ND<50000	ND<200	ND<200	ND<200	ND<200	ND<200
06/21/04	260	--	--	--	--	--	--	--
03/17/05	280	--	--	--	--	--	--	--
06/15/05	560	--	--	--	--	--	--	--
09/20/05	340	--	--	--	--	--	--	--
03/15/06	7200	--	--	--	--	--	--	--
06/28/06	32000	--	--	--	--	--	--	--
09/28/06	2300	--	--	--	--	--	--	--
12/11/06	61000	--	--	--	--	--	--	--
03/19/07	30000	--	--	--	--	--	--	--
06/15/07	21000	--	--	--	--	--	--	--
12/27/07	18000	--	--	--	--	--	--	--
03/25/08	1200	--	--	--	--	--	--	--
06/06/08	15000	--	--	--	--	--	--	--
09/05/08	710	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-2B continued								
12/08/08	7000	--	--	--	--	--	--	--
03/26/09	11000	--	--	--	--	--	--	--
MW-3								
12/08/87	2300	--	--	--	--	--	--	--
03/01/95	140	--	--	--	--	--	--	--
06/01/95	140	--	--	--	--	--	--	--
09/06/95	880	--	--	--	--	--	--	--
12/12/95	3100	--	--	--	--	--	--	--
03/01/96	1500	--	--	--	--	--	--	--
06/15/96	400	--	--	--	--	--	--	--
09/18/96	170	--	--	--	--	--	--	--
12/21/96	64	--	--	--	--	--	--	--
03/07/97	570	--	--	--	--	--	--	--
06/27/97	ND	--	--	--	--	--	--	--
09/29/97	ND	--	--	--	--	--	--	--
12/15/97	ND	--	--	--	--	--	--	--
03/16/98	670	--	--	--	--	--	--	--
06/26/98	63	--	--	--	--	--	--	--
09/22/98	95	--	--	--	--	--	--	--
12/15/98	ND	--	--	--	--	--	--	--
03/15/99	3500	--	--	--	--	--	--	--
06/07/99	ND	--	--	--	--	--	--	--
09/03/99	2900	ND	ND	--	--	ND	ND	ND
12/06/99	4200	--	--	--	--	--	--	--
03/10/00	2500	--	--	--	--	--	--	--

TRC

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-3 continued								
06/08/00	489	--	--	--	--	--	--	--
09/25/00	4380	--	--	--	--	--	--	--
12/19/00	5600	--	--	--	--	--	--	--
03/05/01	3790	--	--	--	--	--	--	--
06/14/01	1300	--	--	--	--	--	--	--
09/17/01	290	--	--	--	--	--	--	--
12/17/01	700	26	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
03/15/02	3600	--	--	--	--	--	--	--
06/20/02	1300	--	--	--	--	--	--	--
09/27/02	ND<100	--	--	--	--	--	--	--
12/30/02	1800	ND<1000	ND<5000	ND<20	ND<20	ND<20	ND<20	ND<20
03/26/03	2600	ND<1000	ND<5000	ND<20	ND<20	ND<20	ND<20	ND<20
06/10/03	350	ND<100	ND<500	ND<2.0	5.3	ND<2.0	ND<2.0	ND<2.0
09/09/03	270	--	--	--	--	--	--	--
12/10/03	800	--	--	--	--	--	--	--
03/09/04	1100	--	--	--	--	--	--	--
06/21/04	210	--	--	--	--	--	--	--
09/08/04	130	--	--	--	--	--	--	--
12/14/04	800	--	--	--	--	--	--	--
03/17/05	2400	--	--	--	--	--	--	--
06/15/05	410	--	--	--	--	--	--	--
09/20/05	ND<200	--	--	--	--	--	--	--
12/29/05	1400	--	--	--	--	--	--	--
03/15/06	520	--	--	--	--	--	--	--
06/28/06	920	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-3 continued								
09/28/06	190	--	--	--	--	--	--	--
12/11/06	520	--	--	--	--	--	--	--
03/19/07	660	--	--	--	--	--	--	--
06/15/07	1100	--	--	--	--	--	--	--
09/24/07	770	--	--	--	--	--	--	--
12/27/07	340	--	--	--	--	--	--	--
03/25/08	940	--	--	--	--	--	--	--
06/06/08	380	--	--	--	--	--	--	--
09/05/08	240	--	--	--	--	--	--	--
12/08/08	250	--	--	--	--	--	--	--
03/26/09	210	--	--	--	--	--	--	--
MW-4								
09/18/96	200	--	--	--	--	--	--	--
12/21/96	ND	--	--	--	--	--	--	--
03/07/97	ND	--	--	--	--	--	--	--
06/27/97	ND	--	--	--	--	--	--	--
09/29/97	ND	--	--	--	--	--	--	--
12/15/97	ND	--	--	--	--	--	--	--
03/16/98	ND	--	--	--	--	--	--	--
06/26/98	630	--	--	--	--	--	--	--
09/22/98	74	--	--	--	--	--	--	--
12/15/98	ND	--	--	--	--	--	--	--
03/15/99	ND	--	--	--	--	--	--	--
06/07/99	ND	--	--	--	--	--	--	--
09/03/99	66	ND	ND	--	--	ND	ND	ND

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-4 continued								
12/06/99	95	--	--	--	--	--	--	--
03/10/00	ND	--	--	--	--	--	--	--
06/08/00	72.8	--	--	--	--	--	--	--
06/10/03	ND<50	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
09/09/03	ND<50	--	--	--	--	--	--	--
12/10/03	ND<50	--	--	--	--	--	--	--
03/09/04	56	--	--	--	--	--	--	--
06/21/04	59	--	--	--	--	--	--	--
09/08/04	ND<50	--	--	--	--	--	--	--
12/14/04	ND<50	--	--	--	--	--	--	--
03/17/05	ND<50	--	--	--	--	--	--	--
06/15/05	ND<50	--	--	--	--	--	--	--
09/20/05	ND<200	--	--	--	--	--	--	--
12/29/05	ND<200	--	--	--	--	--	--	--
03/15/06	ND<200	--	--	--	--	--	--	--
06/28/06	ND<200	--	--	--	--	--	--	--
09/28/06	ND<50	--	--	--	--	--	--	--
12/11/06	ND<50	--	--	--	--	--	--	--
03/19/07	66	--	--	--	--	--	--	--
06/15/07	ND<50	--	--	--	--	--	--	--
09/24/07	ND<50	--	--	--	--	--	--	--
12/27/07	ND<50	--	--	--	--	--	--	--
03/25/08	ND<50	--	--	--	--	--	--	--
06/06/08	ND<50	--	--	--	--	--	--	--
09/05/08	ND<50	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-4 continued								
12/08/08	ND<56	--	--	--	--	--	--	--
03/26/09	ND<50	--	--	--	--	--	--	--
MW-5								
09/18/96	4700	--	--	--	--	--	--	--
12/21/96	4700	--	--	--	--	--	--	--
03/07/97	2100	--	--	--	--	--	--	--
06/26/98	230000	--	--	--	--	--	--	--
06/07/99	4700000	ND	ND	--	--	ND	ND	ND
03/09/04	110000	--	--	--	--	--	--	--
06/21/04	190000	--	--	--	--	--	--	--
03/19/07	84000	--	--	--	--	--	--	--
06/15/07	29000	--	--	--	--	--	--	--
09/24/07	33000	--	--	--	--	--	--	--
12/27/07	23000	--	--	--	--	--	--	--
03/25/08	44000	--	--	--	--	--	--	--
06/06/08	5100	--	--	--	--	--	--	--
09/05/08	9000	--	--	--	--	--	--	--
12/08/08	7500	--	--	--	--	--	--	--
03/26/09	5400	--	--	--	--	--	--	--
MW-6								
09/18/96	ND	--	--	--	--	--	--	--
12/21/96	ND	--	--	--	--	--	--	--
03/07/97	190	--	--	--	--	--	--	--
06/27/97	73	--	--	--	--	--	--	--
09/29/97	ND	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-6 continued								
12/15/97	ND	--	--	--	--	--	--	--
03/16/98	100	--	--	--	--	--	--	--
06/26/98	180	--	--	--	--	--	--	--
01/23/99	ND	--	--	--	--	--	--	--
03/15/99	71	--	--	--	--	--	--	--
06/07/99	160	--	--	--	--	--	--	--
03/10/00	ND	--	--	--	--	--	--	--
03/09/04	110	--	--	--	--	--	--	--
03/17/05	150	--	--	--	--	--	--	--
06/15/05	120	--	--	--	--	--	--	--
09/20/05	ND<200	--	--	--	--	--	--	--
12/29/05	ND<200	--	--	--	--	--	--	--
03/15/06	ND<200	--	--	--	--	--	--	--
06/28/06	ND<200	--	--	--	--	--	--	--
09/28/06	85	--	--	--	--	--	--	--
12/11/06	81	--	--	--	--	--	--	--
03/19/07	90	--	--	--	--	--	--	--
06/15/07	310	--	--	--	--	--	--	--
09/24/07	130	--	--	--	--	--	--	--
12/27/07	73	--	--	--	--	--	--	--
03/25/08	77	--	--	--	--	--	--	--
06/06/08	ND<50	--	--	--	--	--	--	--
09/05/08	73	--	--	--	--	--	--	--
12/08/08	130	--	--	--	--	--	--	--
03/26/09	55	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-7								
08/18/98	1400	--	--	--	--	--	--	--
09/22/98	780	--	--	--	--	--	--	--
12/15/98	350	--	--	--	--	--	--	--
03/15/99	460	610	ND	--	--	4.3	ND	ND
06/07/99	550	--	--	--	--	--	--	--
09/03/99	550	460	ND	--	--	4.36	ND	ND
12/06/99	220	--	--	--	--	--	--	--
03/10/00	930	--	--	--	--	--	--	--
06/08/00	463	--	--	--	--	--	--	--
09/25/00	1810	--	--	--	--	--	--	--
12/19/00	930	--	--	--	--	--	--	--
03/05/01	801	--	--	--	--	--	--	--
06/14/01	710	--	--	--	--	--	--	--
09/17/01	860	--	--	--	--	--	--	--
12/17/01	470	ND<200	ND<5000	ND<10	ND<10	ND<10	ND<10	ND<10
03/15/02	830	--	--	--	--	--	--	--
06/20/02	710	--	--	--	--	--	--	--
09/27/02	300	--	--	--	--	--	--	--
12/30/02	220	ND<500	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10
03/26/03	560	ND<2000	ND<10000	ND<40	ND<40	ND<40	ND<40	ND<40
06/10/03	610	ND<1000	ND<5000	ND<20	ND<20	ND<20	ND<20	ND<20
09/09/03	430	--	--	--	--	--	--	--
12/10/03	450	--	--	--	--	--	--	--
03/09/04	640	--	--	--	--	--	--	--
06/21/04	630	--	--	--	--	--	--	--

TRC

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-7 continued								
09/08/04	270	--	--	--	--	--	--	--
12/14/04	160	--	--	--	--	--	--	--
03/17/05	380	--	--	--	--	--	--	--
06/15/05	630	--	--	--	--	--	--	--
09/20/05	280	--	--	--	--	--	--	--
12/29/05	ND<200	--	--	--	--	--	--	--
03/15/06	ND<200	--	--	--	--	--	--	--
06/28/06	260	--	--	--	--	--	--	--
09/28/06	140	--	--	--	--	--	--	--
12/11/06	99	--	--	--	--	--	--	--
03/19/07	140	--	--	--	--	--	--	--
06/15/07	78	--	--	--	--	--	--	--
09/24/07	140	--	--	--	--	--	--	--
12/27/07	71	--	--	--	--	--	--	--
03/25/08	630	--	--	--	--	--	--	--
06/06/08	ND<56	--	--	--	--	--	--	--
09/05/08	120	--	--	--	--	--	--	--
12/08/08	110	--	--	--	--	--	--	--
03/26/09	69	--	--	--	--	--	--	--
MW-8								
06/26/98	80	--	--	--	--	--	--	--
09/22/98	120	--	--	--	--	--	--	--
12/15/98	ND	--	--	--	--	--	--	--
03/23/99	60	--	--	--	--	--	--	--
06/07/99	ND	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-8 continued								
09/03/99	130	ND	ND	--	--	12.4	ND	ND
12/06/99	160	--	--	--	--	--	--	--
03/10/00	61	--	--	--	--	--	--	--
06/08/00	135	--	--	--	--	--	--	--
09/25/00	518	--	--	--	--	--	--	--
12/19/00	100	--	--	--	--	--	--	--
03/05/01	161	--	--	--	--	--	--	--
06/14/01	94	--	--	--	--	--	--	--
09/17/01	60	--	--	--	--	--	--	--
12/17/01	ND<52	77	ND<500	ND<1.0	ND<1.0	9.8	ND<1.0	ND<1.0
03/15/02	69	--	--	--	--	--	--	--
06/20/02	ND<50	--	--	--	--	--	--	--
09/27/02	130	--	--	--	--	--	--	--
12/30/02	76	ND<100	ND<500	ND<2.0	ND<2.0	7.1	ND<2.0	ND<2.0
03/26/03	120	ND<100	ND<500	ND<2.0	ND<2.0	7.1	ND<2.0	ND<2.0
06/10/03	ND<50	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
09/09/03	58	--	--	--	--	--	--	--
12/10/03	86	--	--	--	--	--	--	--
03/09/04	92	--	--	--	--	--	--	--
06/21/04	87	--	--	--	--	--	--	--
09/08/04	ND<50	--	--	--	--	--	--	--
12/14/04	ND<50	--	--	--	--	--	--	--
03/17/05	56	--	--	--	--	--	--	--
06/15/05	53	--	--	--	--	--	--	--
09/20/05	ND<200	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-8 continued								
12/29/05	ND<200	--	--	--	--	--	--	--
03/15/06	ND<200	--	--	--	--	--	--	--
06/28/06	ND<200	--	--	--	--	--	--	--
09/28/06	ND<50	--	--	--	--	--	--	--
12/11/06	ND<50	--	--	--	--	--	--	--
03/19/07	60	--	--	--	--	--	--	--
06/15/07	58	--	--	--	--	--	--	--
09/24/07	53	--	--	--	--	--	--	--
12/27/07	72	--	--	--	--	--	--	--
03/25/08	50	--	--	--	--	--	--	--
06/06/08	ND<50	--	--	--	--	--	--	--
09/05/08	ND<50	--	--	--	--	--	--	--
12/08/08	62	--	--	--	--	--	--	--
03/26/09	ND<50	--	--	--	--	--	--	--
MW-9								
12/06/99	ND	ND	--	ND	ND	ND	ND	ND
03/10/00	150	--	--	--	--	--	--	--
06/08/00	67.8	--	--	--	--	--	--	--
09/25/00	903	--	--	--	--	--	--	--
12/19/00	ND	--	--	--	--	--	--	--
03/05/01	96.5	--	--	--	--	--	--	--
06/14/01	ND	--	--	--	--	--	--	--
09/17/01	ND<50	--	--	--	--	--	--	--
12/17/01	ND<52	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
03/15/02	ND<51	--	--	--	--	--	--	--

TRC

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-9 continued								
06/20/02	ND<50	--	--	--	--	--	--	--
09/27/02	ND<110	--	--	--	--	--	--	--
12/30/02	59	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
03/26/03	ND<50	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
06/10/03	ND<50	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
09/09/03	ND<50	--	--	--	--	--	--	--
12/10/03	ND<50	--	--	--	--	--	--	--
03/09/04	ND<50	--	--	--	--	--	--	--
06/21/04	ND<50	--	--	--	--	--	--	--
09/08/04	ND<50	--	--	--	--	--	--	--
12/14/04	ND<50	--	--	--	--	--	--	--
03/17/05	ND<50	--	--	--	--	--	--	--
06/15/05	ND<50	--	--	--	--	--	--	--
09/20/05	ND<200	--	--	--	--	--	--	--
12/29/05	ND<200	--	--	--	--	--	--	--
03/15/06	ND<200	--	--	--	--	--	--	--
06/28/06	ND<200	--	--	--	--	--	--	--
09/28/06	ND<50	--	--	--	--	--	--	--
12/11/06	ND<50	--	--	--	--	--	--	--
03/19/07	ND<50	--	--	--	--	--	--	--
06/15/07	52	--	--	--	--	--	--	--
09/24/07	ND<50	--	--	--	--	--	--	--
12/27/07	ND<50	--	--	--	--	--	--	--
03/25/08	110	--	--	--	--	--	--	--
06/06/08	ND<50	--	--	--	--	--	--	--

TRC

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-9 continued								
09/05/08	ND<50	--	--	--	--	--	--	--
12/08/08	ND<50	--	--	--	--	--	--	--
03/26/09	ND<50	--	--	--	--	--	--	--
MW-10								
03/10/00	78	ND	--	ND	22	ND	ND	ND
06/10/03	65	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
03/09/04	140	--	--	--	--	--	--	--
06/21/04	ND<50	--	--	--	--	--	--	--
03/17/05	ND<50	--	--	--	--	--	--	--
06/15/05	71	--	--	--	--	--	--	--
09/20/05	ND<200	--	--	--	--	--	--	--
12/29/05	ND<200	--	--	--	--	--	--	--
03/15/06	ND<200	--	--	--	--	--	--	--
06/28/06	ND<200	--	--	--	--	--	--	--
09/28/06	ND<50	--	--	--	--	--	--	--
12/11/06	92	--	--	--	--	--	--	--
03/19/07	190	--	--	--	--	--	--	--
06/15/07	120	--	--	--	--	--	--	--
09/24/07	130	--	--	--	--	--	--	--
12/27/07	59	--	--	--	--	--	--	--
03/25/08	74	--	--	--	--	--	--	--
06/06/08	190	--	--	--	--	--	--	--
09/05/08	ND<50	--	--	--	--	--	--	--
12/08/08	53	--	--	--	--	--	--	--
03/26/09	ND<50	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-11								
09/25/01	ND<50	--	--	--	--	--	--	--
12/17/01	110	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
03/15/02	140	--	--	--	--	--	--	--
06/20/02	ND<60	--	--	--	--	--	--	--
09/27/02	ND<110	--	--	--	--	--	--	--
12/30/02	ND<50	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
03/26/03	54	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
06/10/03	ND<50	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
09/09/03	ND<50	--	--	--	--	--	--	--
12/10/03	ND<50	--	--	--	--	--	--	--
03/09/04	ND<50	--	--	--	--	--	--	--
06/21/04	ND<50	--	--	--	--	--	--	--
09/08/04	ND<50	--	--	--	--	--	--	--
12/14/04	ND<50	--	--	--	--	--	--	--
03/17/05	85	--	--	--	--	--	--	--
06/15/05	170	--	--	--	--	--	--	--
09/20/05	210	--	--	--	--	--	--	--
12/29/05	ND<200	--	--	--	--	--	--	--
03/15/06	ND<200	--	--	--	--	--	--	--
06/28/06	ND<200	--	--	--	--	--	--	--
09/28/06	51	--	--	--	--	--	--	--
12/11/06	74	--	--	--	--	--	--	--
03/19/07	63	--	--	--	--	--	--	--
06/15/07	70	--	--	--	--	--	--	--
09/24/07	78	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-11	**continued**							
12/27/07	ND<50	--	--	--	--	--	--	--
03/25/08	51	--	--	--	--	--	--	--
06/06/08	ND<50	--	--	--	--	--	--	--
09/05/08	ND<50	--	--	--	--	--	--	--
12/08/08	87	--	--	--	--	--	--	--
03/26/09	90	--	--	--	--	--	--	--
MW-12								
09/25/01	ND<50	--	--	--	--	--	--	--
12/17/01	77	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
03/15/02	ND<51	--	--	--	--	--	--	--
06/20/02	ND<58	--	--	--	--	--	--	--
09/27/02	ND<100	--	--	--	--	--	--	--
12/30/02	ND<50	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
03/26/03	ND<50	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
06/10/03	ND<50	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
09/09/03	ND<50	--	--	--	--	--	--	--
12/10/03	ND<50	--	--	--	--	--	--	--
03/09/04	220	--	--	--	--	--	--	--
06/21/04	180	--	--	--	--	--	--	--
09/08/04	ND<50	--	--	--	--	--	--	--
12/14/04	ND<50	--	--	--	--	--	--	--
03/17/05	350	--	--	--	--	--	--	--
06/15/05	330	--	--	--	--	--	--	--
09/20/05	250	--	--	--	--	--	--	--
12/29/05	320	--	--	--	--	--	--	--

TRC

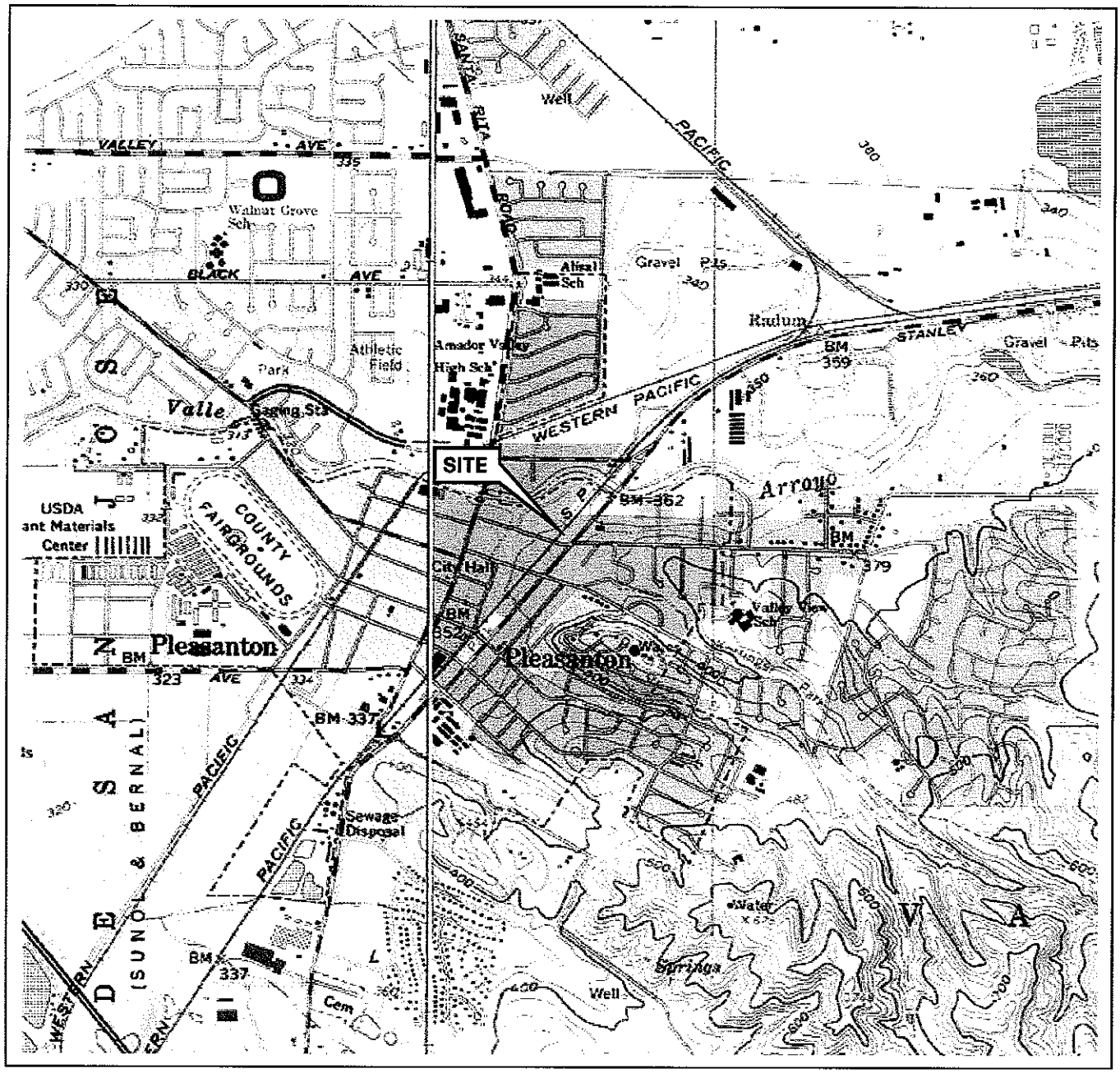
Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-12	**continued**							
03/15/06	240	--	--	--	--	--	--	--
06/28/06	210	--	--	--	--	--	--	--
09/28/06	ND<50	--	--	--	--	--	--	--
12/11/06	120	--	--	--	--	--	--	--
03/19/07	99	--	--	--	--	--	--	--
06/15/07	66	--	--	--	--	--	--	--
09/24/07	71	--	--	--	--	--	--	--
12/27/07	ND<50	--	--	--	--	--	--	--
03/25/08	58	--	--	--	--	--	--	--
06/06/08	ND<50	--	--	--	--	--	--	--
09/05/08	ND<50	--	--	--	--	--	--	--
12/08/08	50	--	--	--	--	--	--	--
03/26/09	ND<50	--	--	--	--	--	--	--

TABLE 3
LIQUID PHASE HYDROCARBON RECOVERY DATA
76 STATION 7376

	DATE	LPH Recovered(Gallons)
MW-5	6/28/06	0 02
MW-5	7/12/06	0 00
MW-5	8/7/06	0 00
MW-5	9/15/06	0 00
MW-5	9/28/06	0 01
MW-5	10/10/06	0 00
MW-5	10/30/06	0 00
MW-5	11/10/06	0.00
MW-5	11/22/06	0.00
MW-5	12/11/06	0.02
MW-5	12/21/06	0.00
MW-5	1/5/07	0.01
MW-5	1/15/07	0 00
MW-5	2/5/07	0 00
MW-5	2/20/07	0 00
MW-5	3/8/07	0 00
MW-5	4/12/07	0 00
MW-5	4/30/07	0 03
MW-5	5/7/07	0 00
MW-5	5/23/07	0 00
MW-5	6/28/07	0 00
MW-5	7/19/07	0 00
MW-5	8/1/07	0 00
MW-5	8/13/07	0.00
MW-5	8/27/07	0.00
MW-5	9/14/07	0.00
MW-5	10/16/07	0 00
MW-5	10/29/07	0 00
MW-5	11/16/07	0 00
MW-5	12/7/07	0 00
MW-5	1/7/08	0 00
MW-5	1/28/08	0 00
MW-5	2/15/08	0 00
MW-5	2/29/08	0 00
MW-5	3/25/08	0 00
MW-5	4/11/08	0 00
MW-5	4/22/08	0 00
MW-5	5/5/08	0.00
MW-5	5/20/08	0.00
MW-5	6/6/08	0.00
MW-5	6/23/08	0.00
MW-5	7/1/08	0.00
MW-5	7/18/08	0 00
MW-5	8/7/08	0 00
MW-5	8/26/08	0 04
MW-5	9/16/08	0 00
MW-5	10/3/08	0 00
MW-5	10/17/08	0 00
MW-5	11/5/08	0 00
MW-5	11/26/08	0 00
MW-5	12/8/08	0 01
MW-5	12/24/08	0 00
MW-5	1/15/09	0.00
MW-5	1/30/09	0.00
MW-5	2/6/09	0.00
MW-5	3/6/09	0.00
MW-5	3/26/09	0 00
	Total LPH Recovered (gallons):	**0.14**

FIGURES



SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Livermore Quadrangle

TRC	FACILITY: 76 STATION 7376 4191 FIRST STREET PLEASANTON, CALIFORNIA	VICINITY MAP FIGURE 1

PS=1:1 L:\QMS VICINITY MAPS\7376VM.DWG Jan 21, 2009 - 8:45am oakers

LEGEND

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

MW-2 ∅ Abandoned well

312.00 —— Groundwater Elevation Contour

General Direction of Groundwater Flow

N

PLANTER

TESSA PLACE

MW-11 304.76

MW-12 304.83

BENJAMIN COURT

CALI COURT

COLBY COURT

CRAIG COURT

JAY CT.

RESIDENTIAL

DRIVEWAY

MW-7 304.62

MW-9 312.94

FORMER RAILROAD RIGHT-OF-WAY

MW-6 NS

MW-5 304.66

MW-8 NS

APPROXIMATE LOCATION OF UNDERGROUND PETROLEUM PIPELINE (SANTA FE PACIFIC)

REDWOOD RETAINING WALL

MW-4 306.71

MW-3 302.89

MW-2 ∅

MW-2B NS

MW-1 302.88

MW-10 302.89

BUILDING

KIOSK

UST

DISPENSER ISLANDS

RAY STREET

312.00

308.00

304.00

FIRST STREET

SCALE (FEET)

0 60

NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NS = not surveyed. UST = underground storage tank

PROJECT:	165521
FACILITY:	76 STATION 7376 4191 FIRST STREET PLEASANTON, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
March 26, 2009

TRC

FIGURE 2

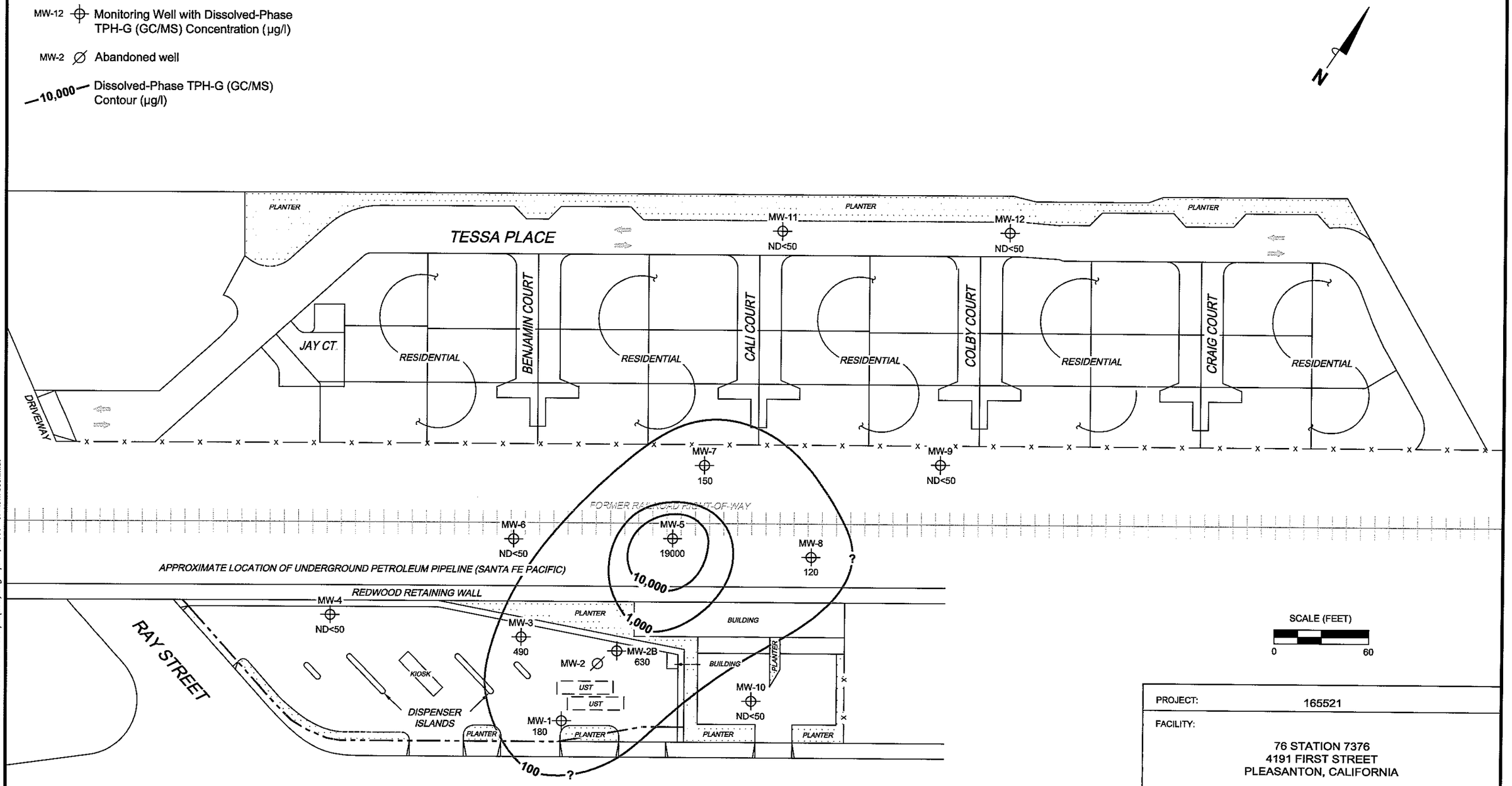
MS=1:60 7376-003 L:\Graphics\GMS NORTH-SOUTH\x-7000\7376+\7376gms(new).dwg Apr 14, 2009 - 9:53am bschmidt

LEGEND

MW-12 ⊕ Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration (µg/l)

MW-2 ∅ Abandoned well

—10,000— Dissolved-Phase TPH-G (GC/MS) Contour (µg/l)



SCALE (FEET)

0 60

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report
UST = underground storage tank.

PROJECT:	165521
FACILITY:	76 STATION 7376 4191 FIRST STREET PLEASANTON, CALIFORNIA

DISSOLVED-PHASE TPH-G (GC/MS) CONCENTRATION MAP
March 26, 2009

TRC

FIGURE 3

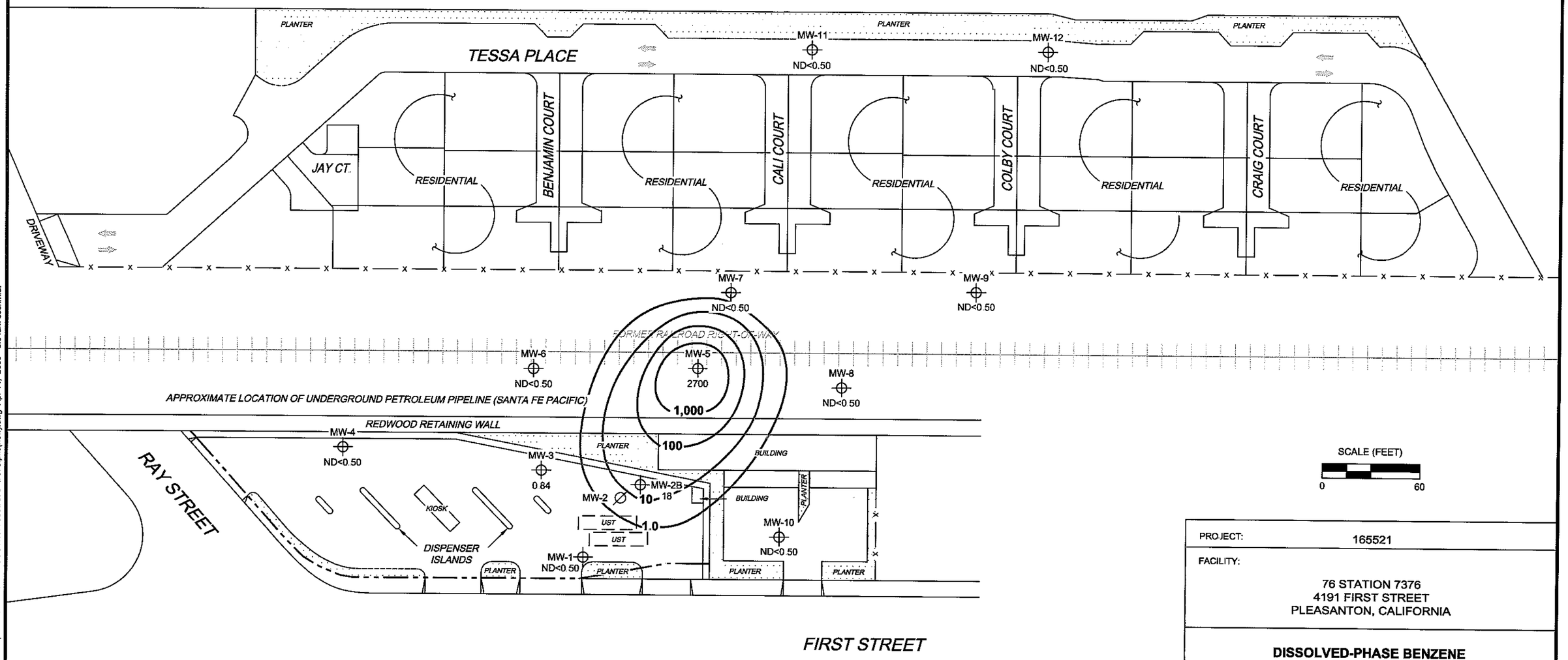
MS=1:60 7376-003 L:\Graphics\GMS NORTH-SOUTH\x-7000\7376+\7376gms(new).dwg Apr 14, 2009 - 8:42am bschmidt

LEGEND

MW-12 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

MW-2 ∅ Abandoned well

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



SCALE (FEET)

0 60

PROJECT:	165521
FACILITY:	76 STATION 7376 4191 FIRST STREET PLEASANTON, CALIFORNIA
DISSOLVED-PHASE BENZENE CONCENTRATION MAP March 26, 2009	
TRC	**FIGURE 4**

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
UST = underground storage tank.

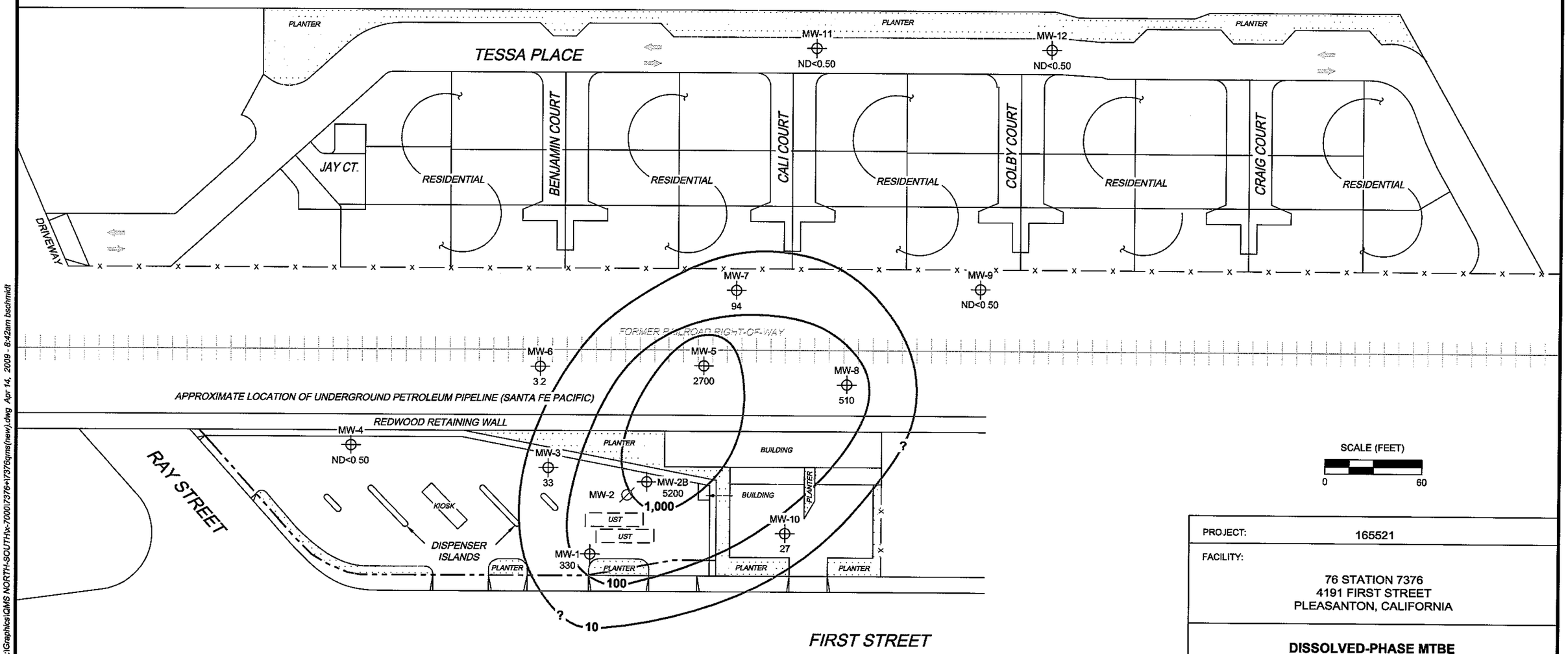
MS=1:60 7376-003 L:\Graphics\QMS NORTH-SOUTH\x-7000\7376+\7376qms(new).dwg Apr 14, 2009 - 9:54am bschmidt

LEGEND

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

MW-2 ∅ Abandoned well

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



NOTES:

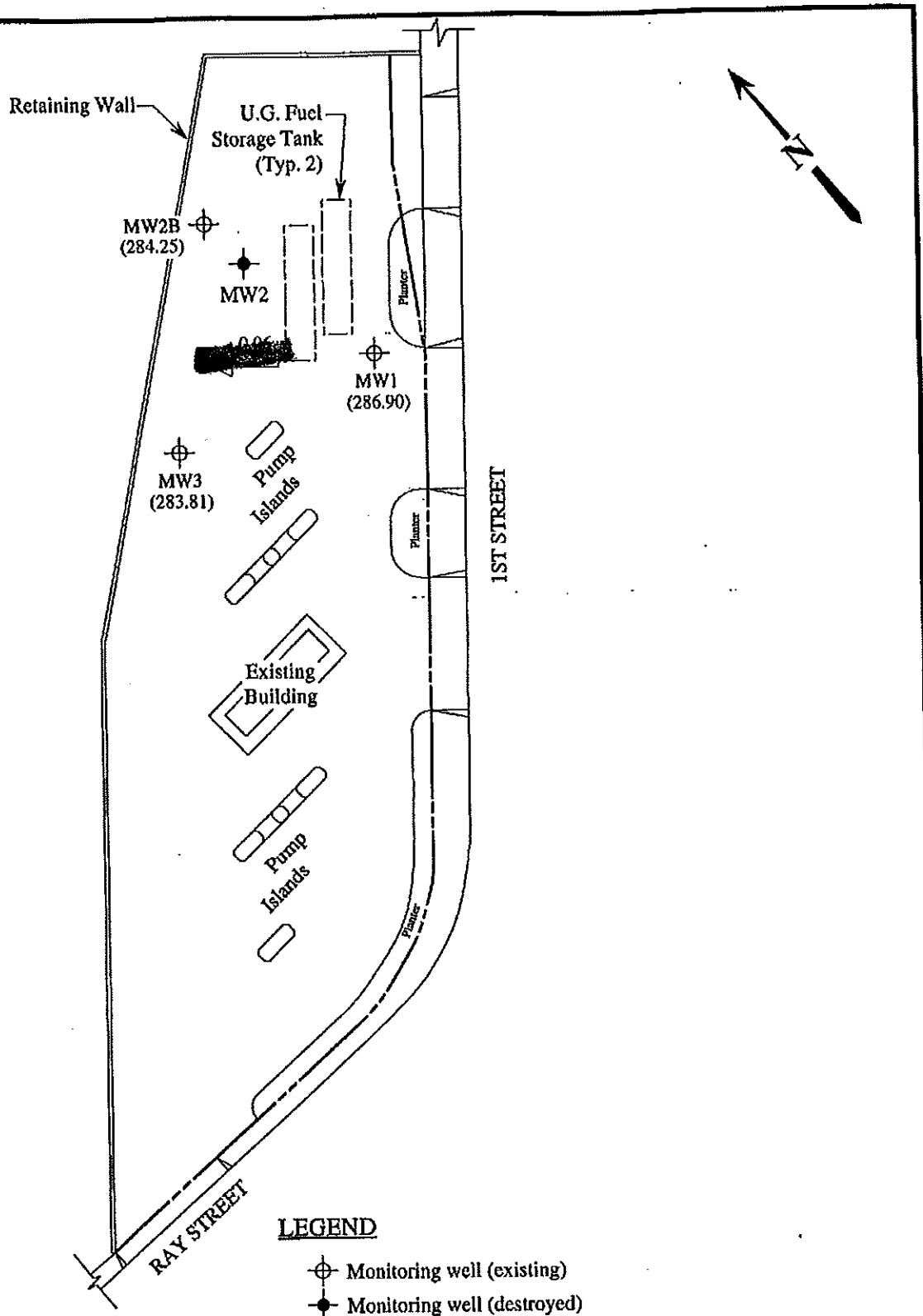
Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Results obtained using EPA Method 8260B.

PROJECT:	165521
FACILITY:	76 STATION 7376 4191 FIRST STREET PLEASANTON, CALIFORNIA
DISSOLVED-PHASE MTBE CONCENTRATION MAP March 26, 2009	
TRC	**FIGURE 5**

MS=1:60 7376-003 L:\Graphics\QMS NORTH-SOUTH\x-7000\7376+\7376qms(new).dwg Apr 14, 2009 - 8:42am bschmidt

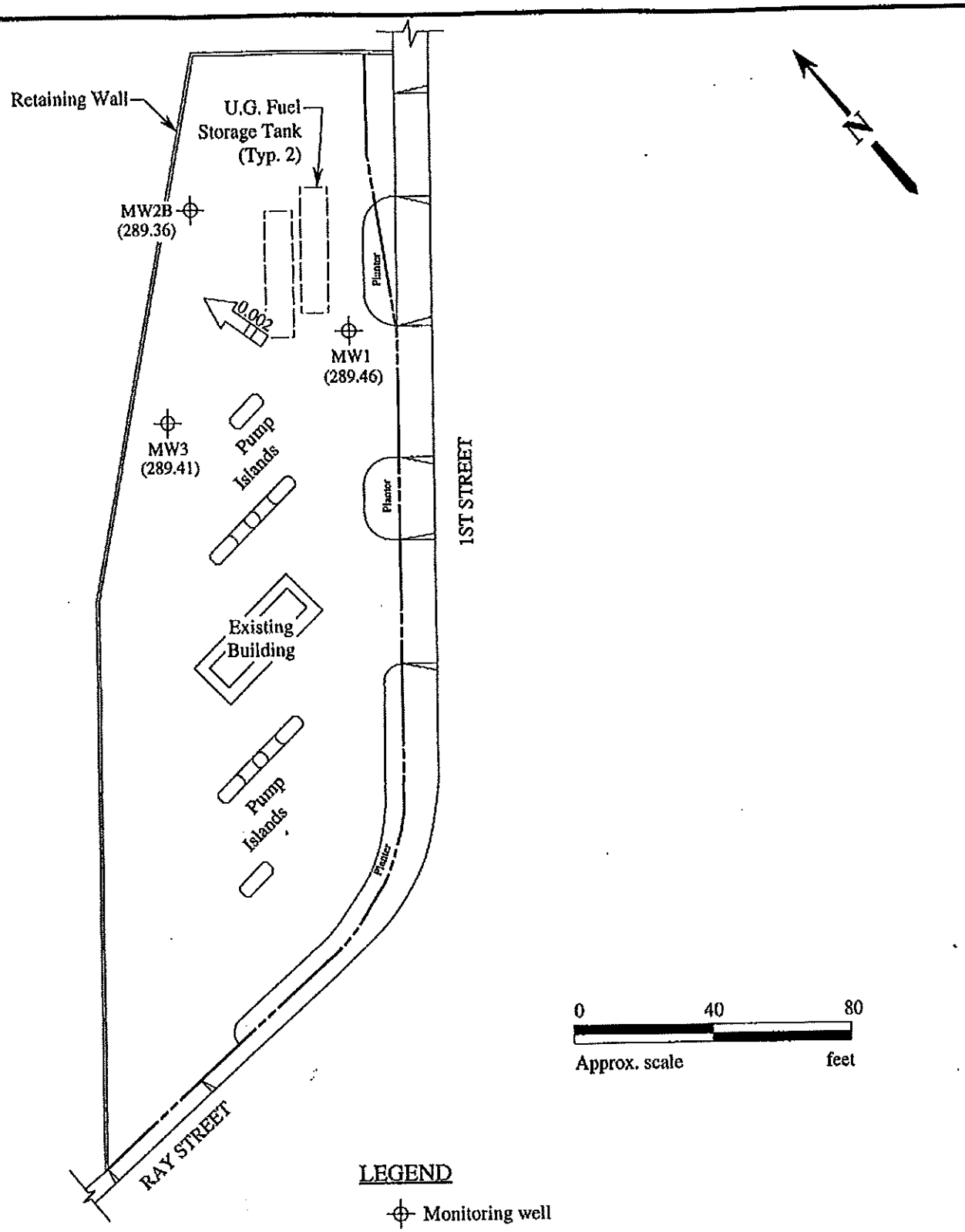
APPENDIX G

Historic Groundwater Elevation Maps



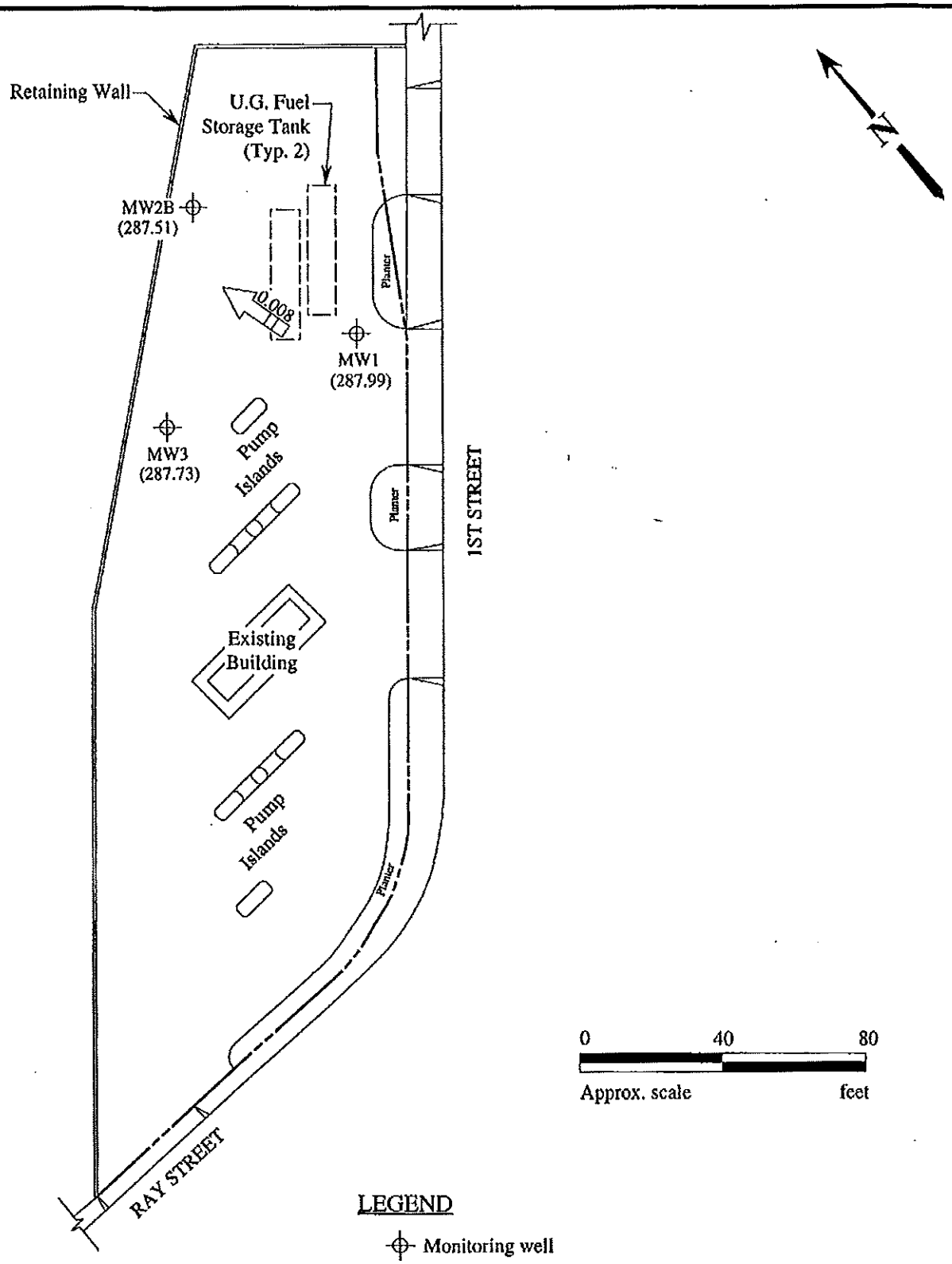
GROUND WATER FLOW DIRECTION MAP FOR THE MARCH 1, 1995 MONITORING EVENT

mpds SERVICES, INCORPORATED	**UNOCAL SERVICE STATION #7376** **4191 1ST STREET** **PLEASANTON, CALIFORNIA**	FIGURE **1**



GROUND WATER FLOW DIRECTION MAP FOR THE JUNE 1, 1995 MONITORING EVENT

mpds SERVICES, INCORPORATED	**UNOCAL SERVICE STATION #7376** **4191 1ST STREET** **PLEASANTON, CALIFORNIA**	FIGURE **1**

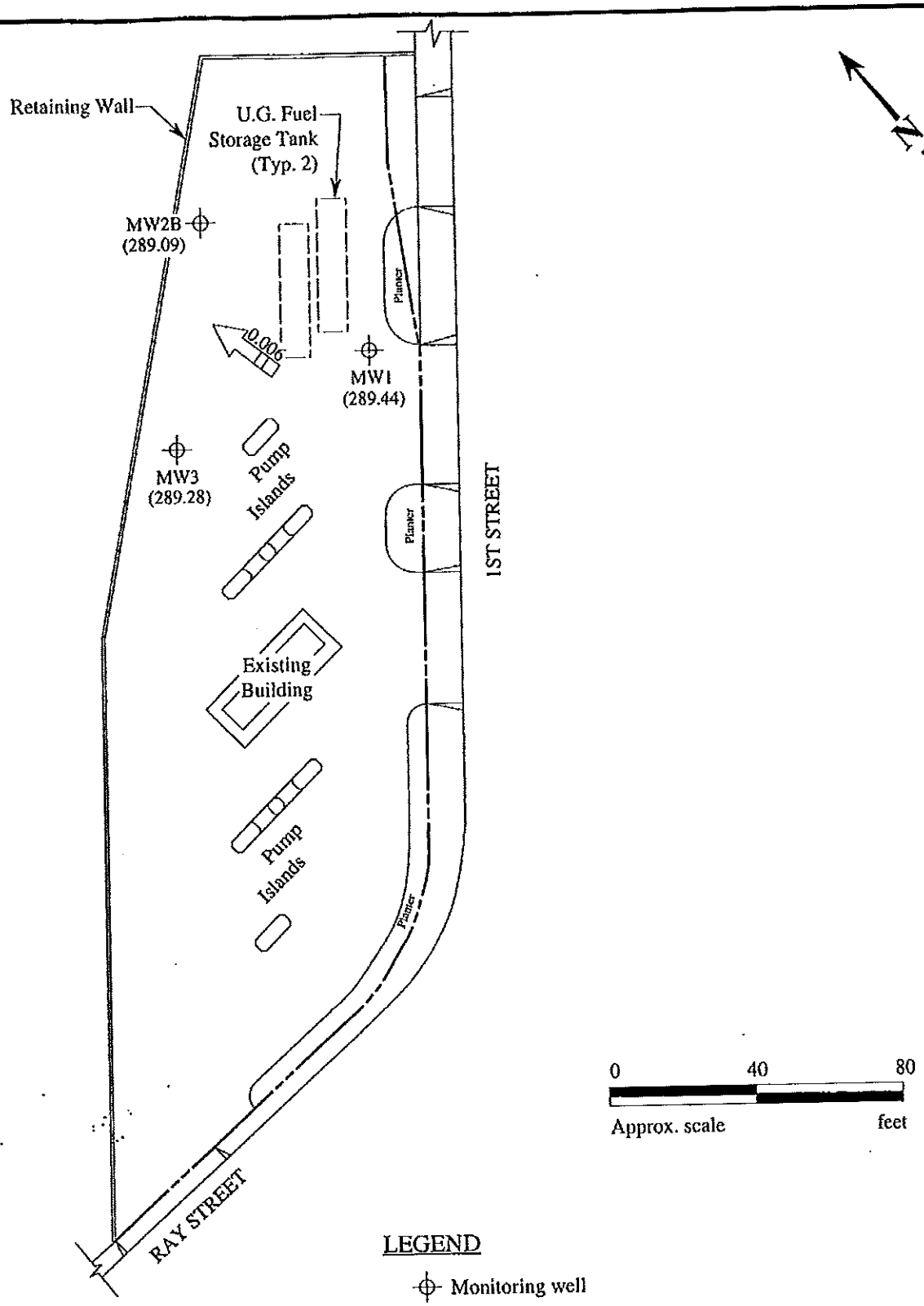


LEGEND

- Monitoring well
- ( ) Ground water elevation in feet above Mean Sea Level
- #.## Direction of ground water flow with approximate hydraulic gradient

GROUND WATER FLOW DIRECTION MAP FOR THE SEPTEMBER 9, 1995 MONITORING EVENT

mpds SERVICES, INCORPORATED	**UNOCAL SERVICE STATION #7376** **4191 1ST STREET** **PLEASANTON, CALIFORNIA**	FIGURE **1**

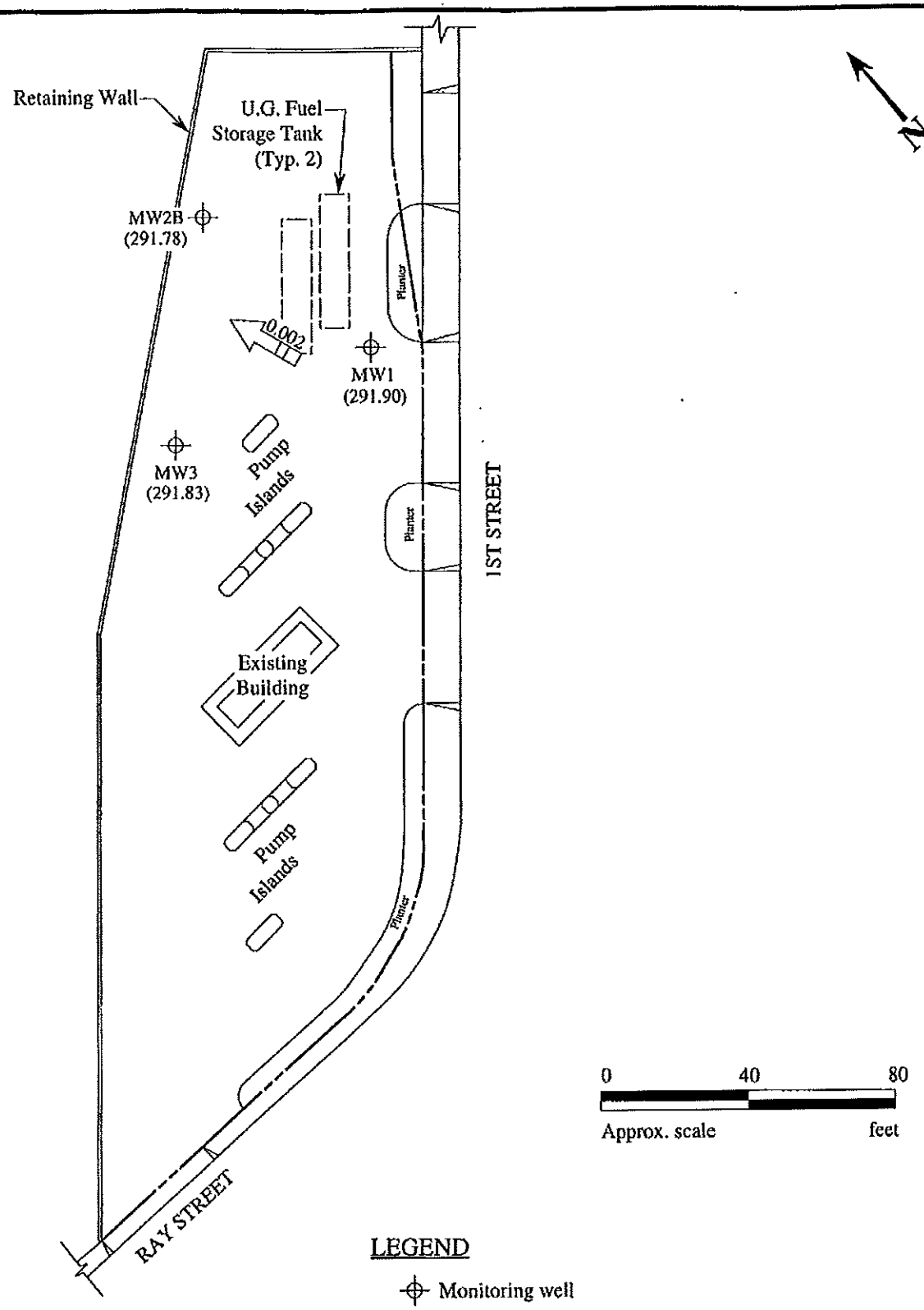


LEGEND

- Monitoring well
- ( ) Ground water elevation in feet above Mean Sea Level
- #.## Direction of ground water flow with approximate hydraulic gradient

GROUND WATER FLOW DIRECTION MAP FOR THE DECEMBER 12, 1995 MONITORING EVENT

mpds SERVICES, INCORPORATED	**UNOCAL SERVICE STATION #7376** **4191 1ST STREET** **PLEASANTON, CALIFORNIA**	FIGURE **1**

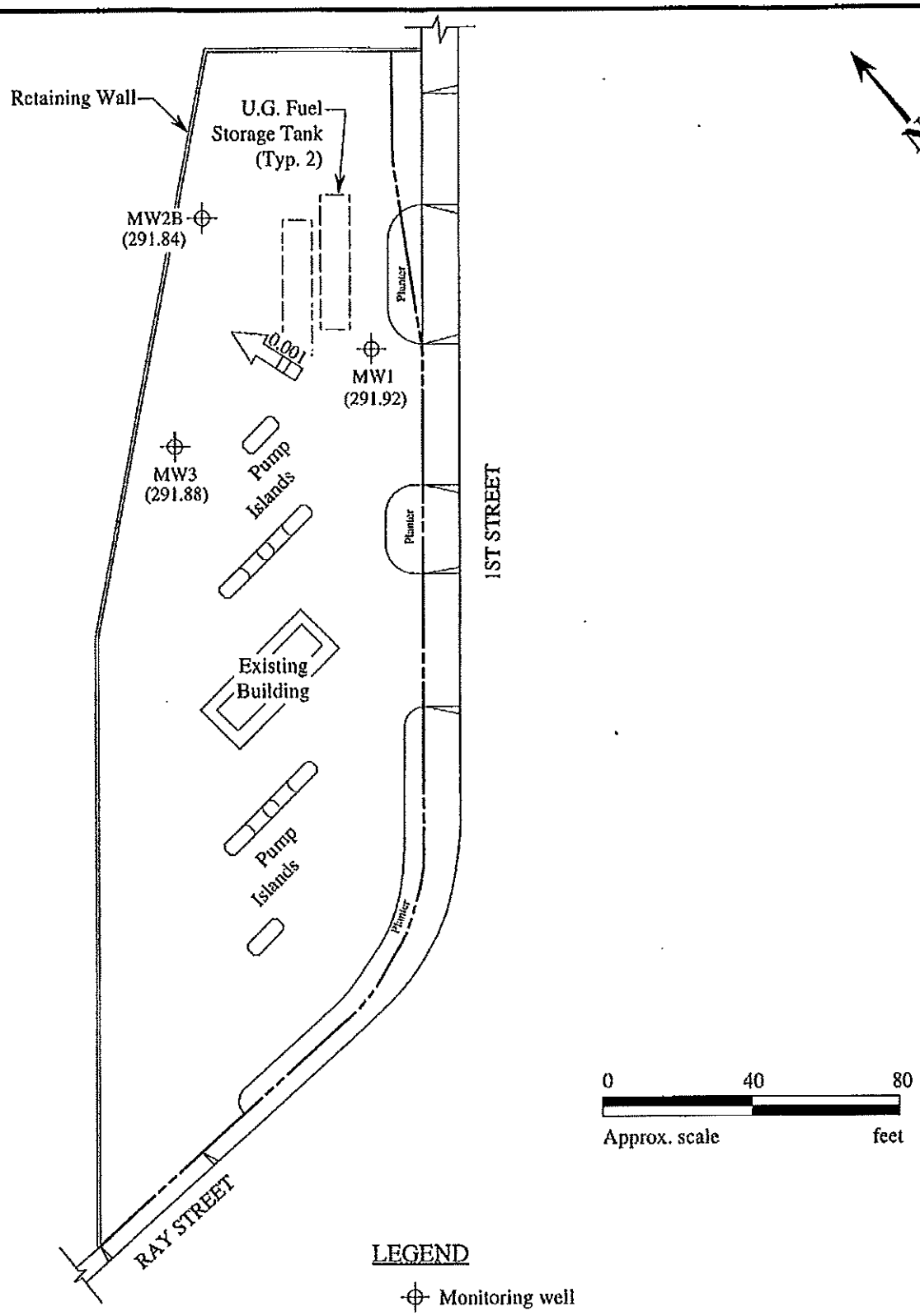


LEGEND

- Monitoring well
- ( ) Ground water elevation in feet above Mean Sea Level
- #.## Direction of ground water flow with approximate hydraulic gradient

GROUND WATER FLOW DIRECTION MAP FOR THE MARCH 1, 1996 MONITORING EVENT

mpds SERVICES, INCORPORATED	**UNOCAL SERVICE STATION #7376** **4191 1ST STREET** **PLEASANTON, CALIFORNIA**	FIGURE **1**

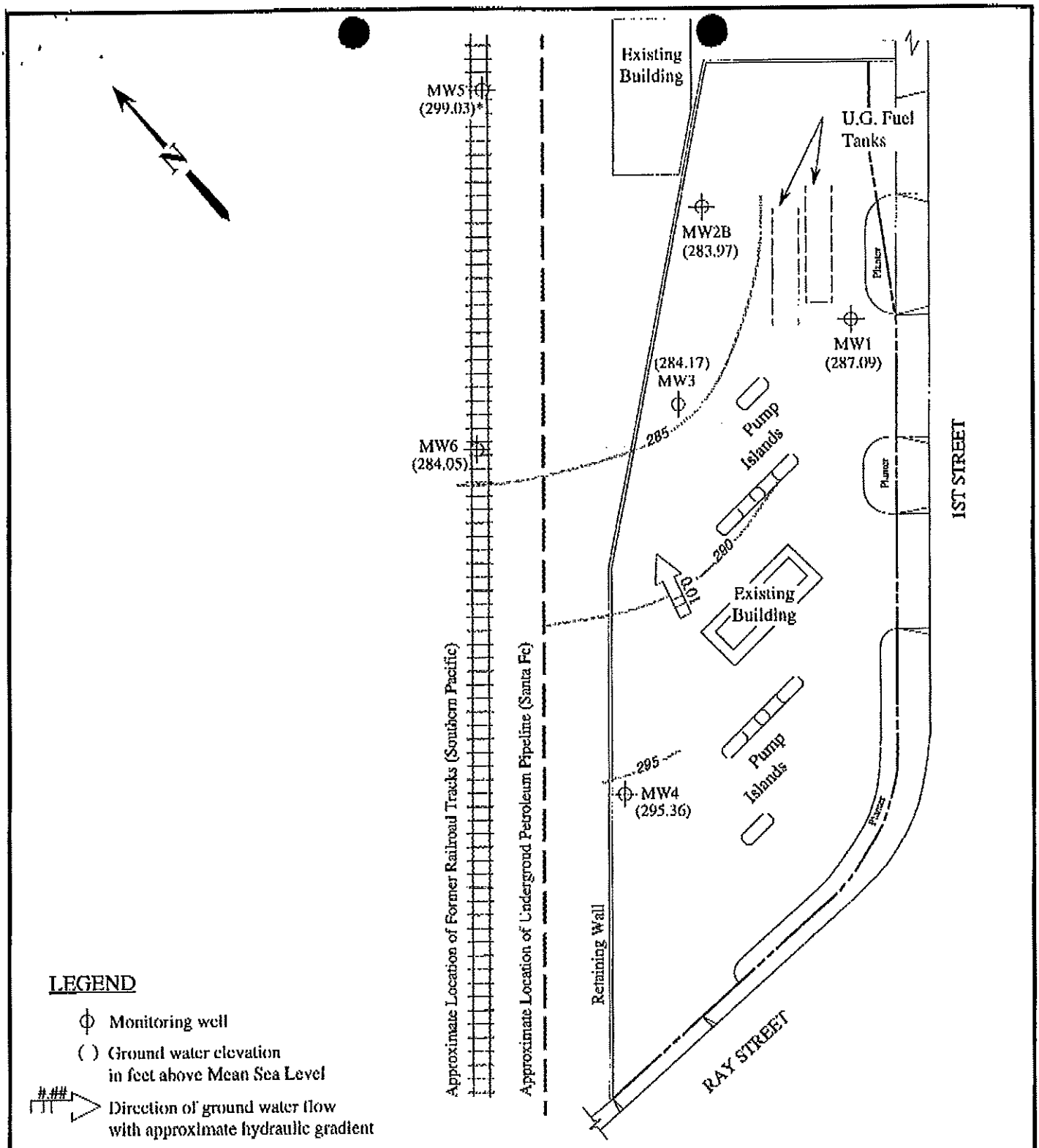


LEGEND

- Monitoring well
- ( ) Ground water elevation in feet above Mean Sea Level
- #.## Direction of ground water flow with approximate hydraulic gradient

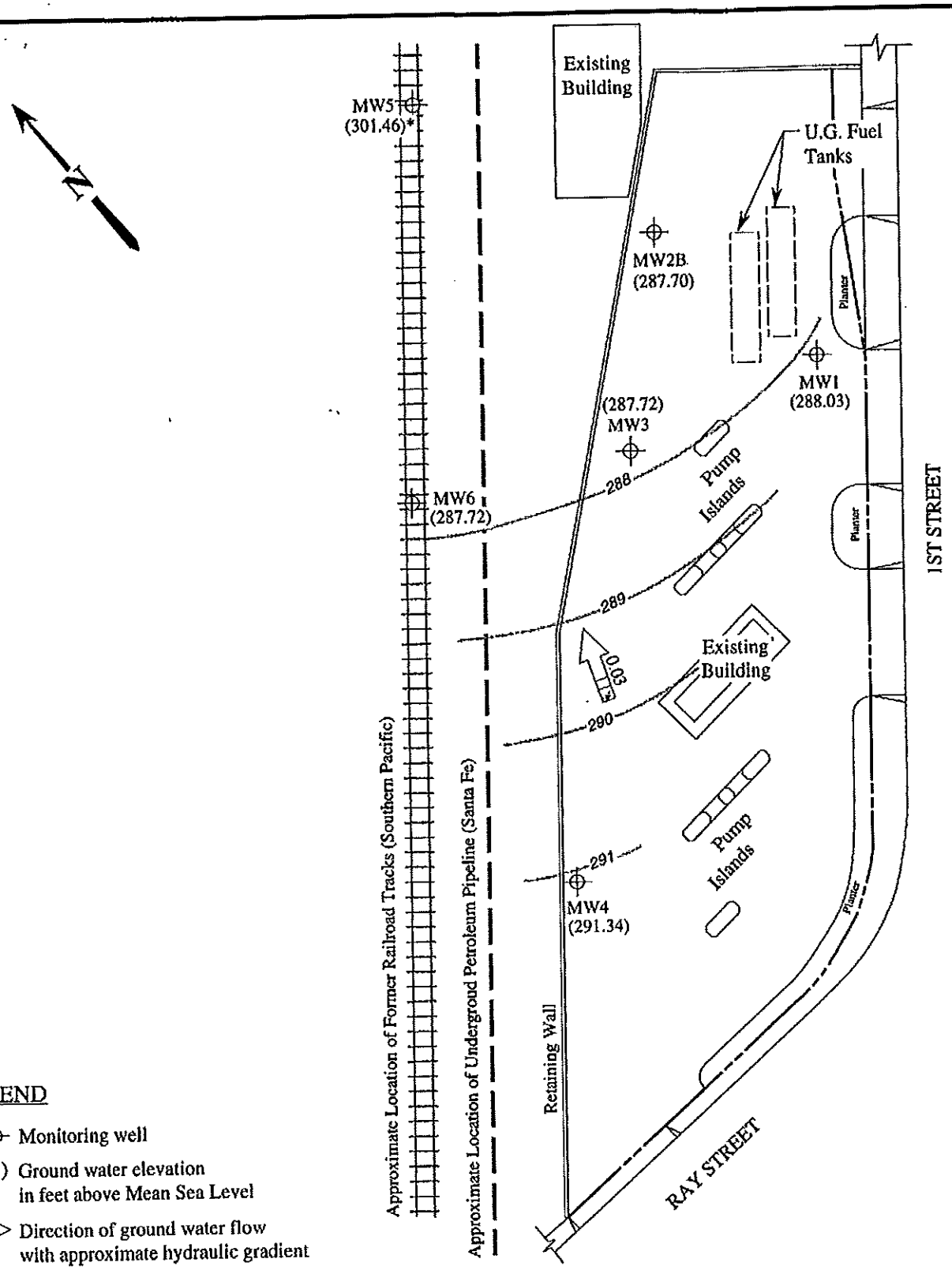
GROUND WATER FLOW DIRECTION MAP FOR THE JUNE 15, 1996 MONITORING EVENT

MPDS SERVICES, INCORPORATED	**UNOCAL SERVICE STATION #7376** **4191 1ST STREET** **PLEASANTON, CALIFORNIA**	FIGURE **1**



POTENTIOMETRIC SURFACE MAP FOR THE SEPTEMBER 18, 1996 MONITORING EVENT

MPDS SERVICES, INC.	**UNOCAL SERVICE STATION #7376** **4191 1ST STREET** **PLEASANTON, CALIFORNIA**	0 40 80 Approx. scale feet	FIGURE **1**



LEGEND

- Monitoring well
- ( ) Ground water elevation in feet above Mean Sea Level
- #.## Direction of ground water flow with approximate hydraulic gradient
- Contours of ground water elevation
- * Elevation was not used to calculate contours

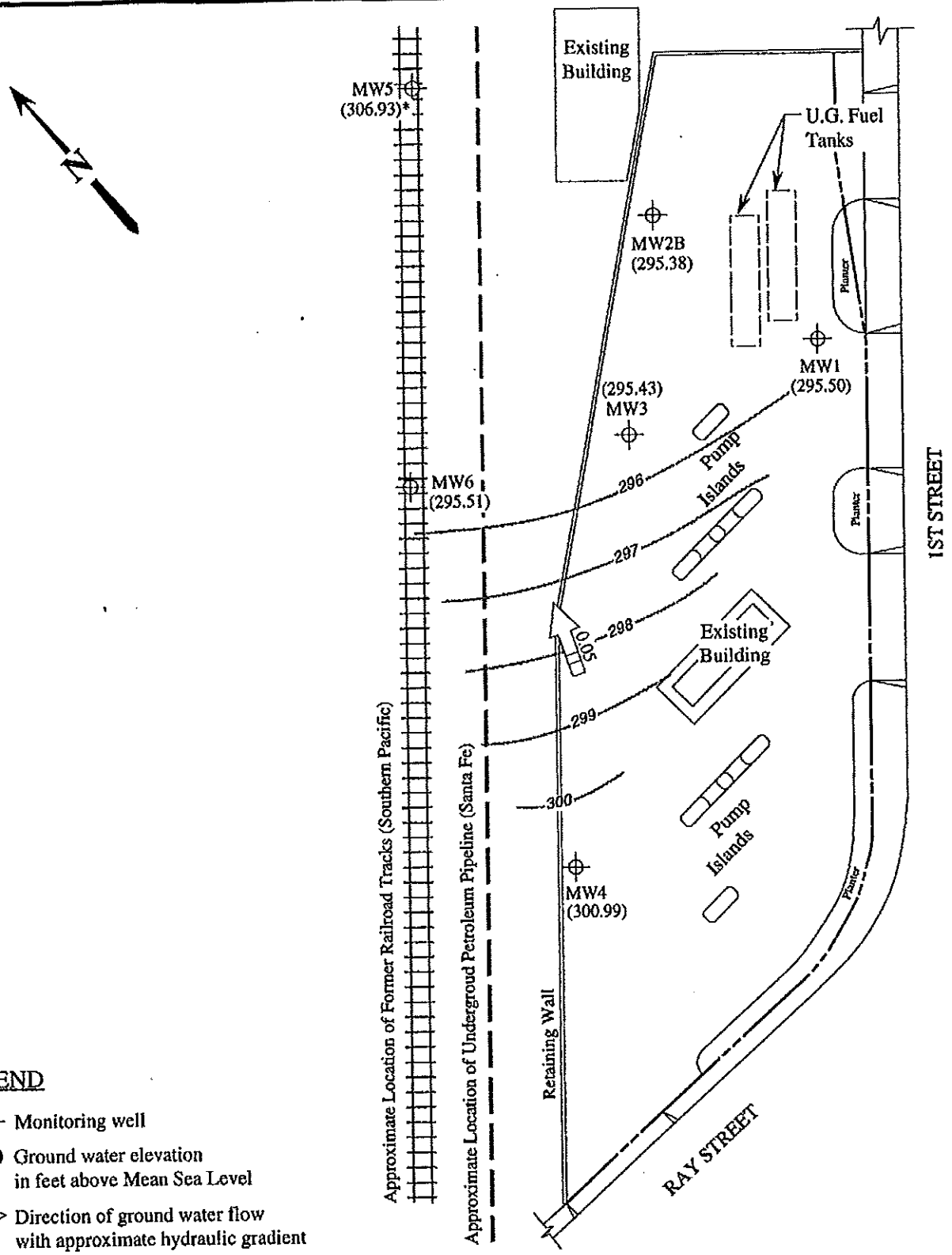
POTENTIOMETRIC SURFACE MAP FOR THE DECEMBER 21, 1996 MONITORING EVENT

MPDS SERVICES, INC.

UNOCAL SERVICE STATION #7376
4191 1ST STREET
PLEASANTON, CALIFORNIA

0 40 80
Approx. scale feet

FIGURE
1



LEGEND

- Monitoring well
- ( ) Ground water elevation in feet above Mean Sea Level
- #.## Direction of ground water flow with approximate hydraulic gradient
- Contours of ground water elevation
- * Elevation was not used to calculate contours

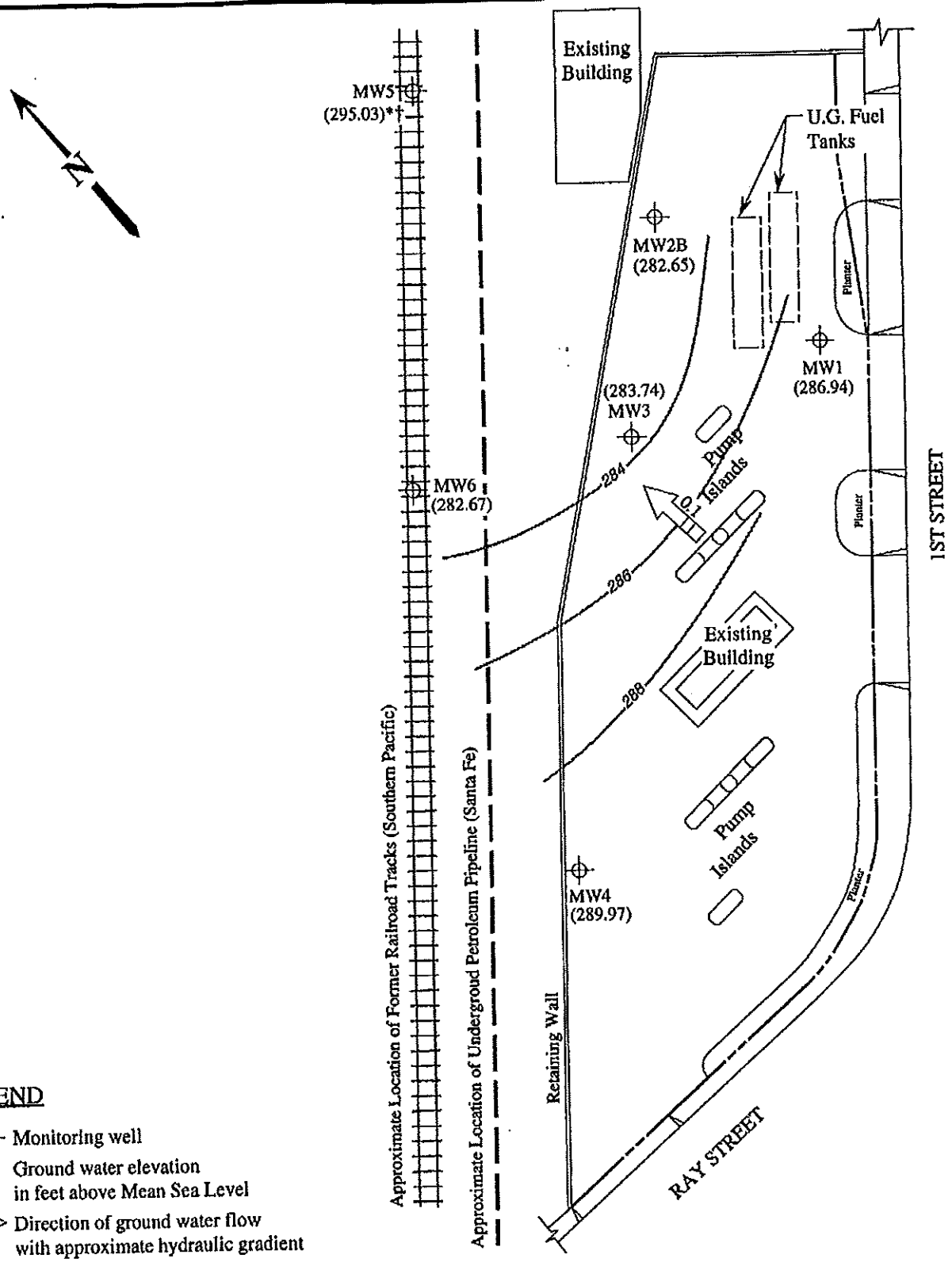
POTENTIOMETRIC SURFACE MAP FOR THE MARCH 7, 1997 MONITORING EVENT

mpds SERVICES, INC.

UNOCAL SERVICE STATION #7376
4191 1ST STREET
PLEASANTON, CALIFORNIA

0 40 80
Approx. scale feet

FIGURE
1



LEGEND

- Monitoring well
- ( ) Ground water elevation in feet above Mean Sea Level
- #.## Direction of ground water flow with approximate hydraulic gradient
- Contours of ground water elevation

* Groundwater elevation corrected due to the presence of free product.

† Elevation was not used to calculate contours.

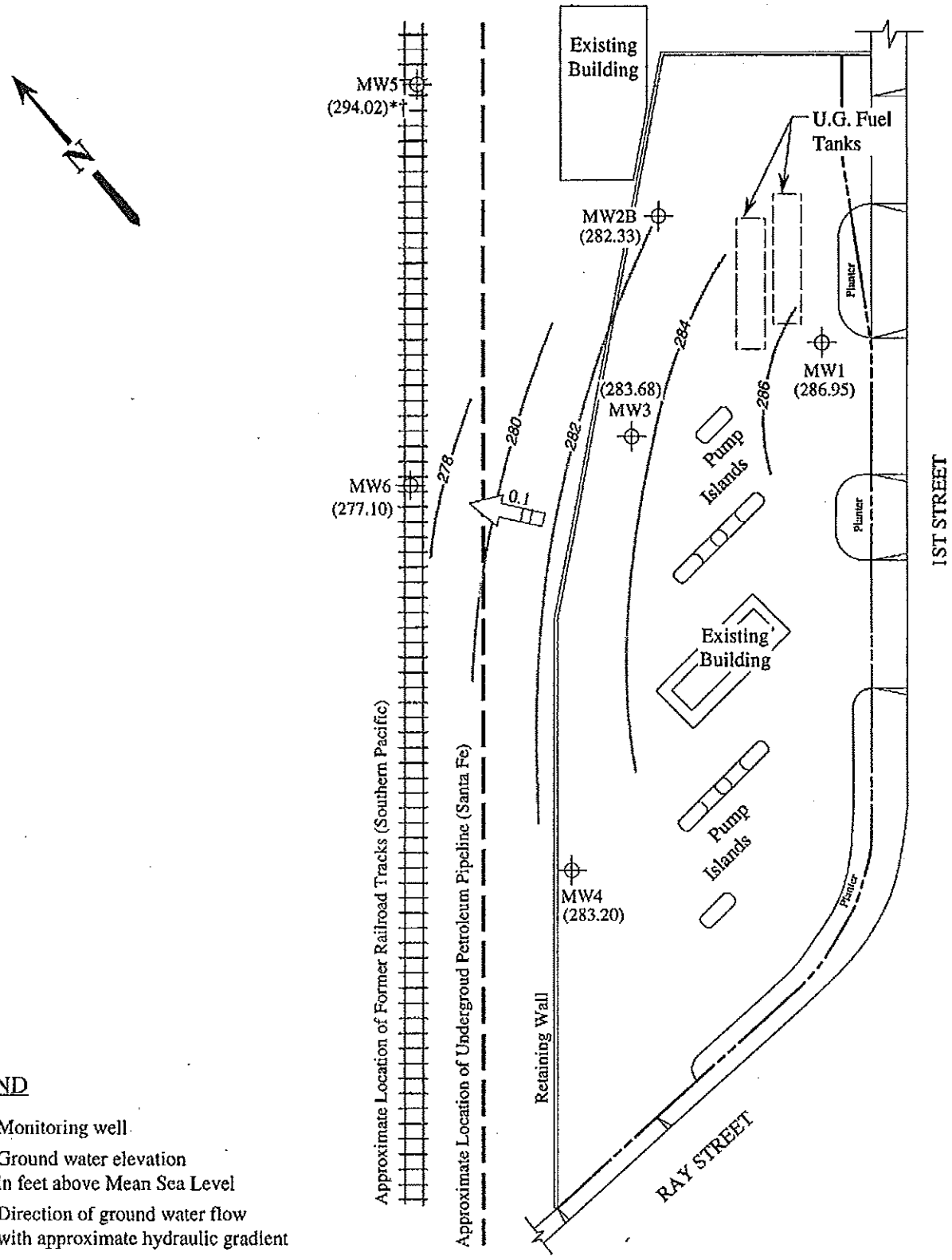
POTENTIOMETRIC SURFACE MAP FOR THE JUNE 27, 1997 MONITORING EVENT

mpds SERVICES, INC.

UNOCAL SERVICE STATION #7376
4191 1ST STREET
PLEASANTON, CALIFORNIA

0 40 80
Approx. scale feet

FIGURE **1**



LEGEND

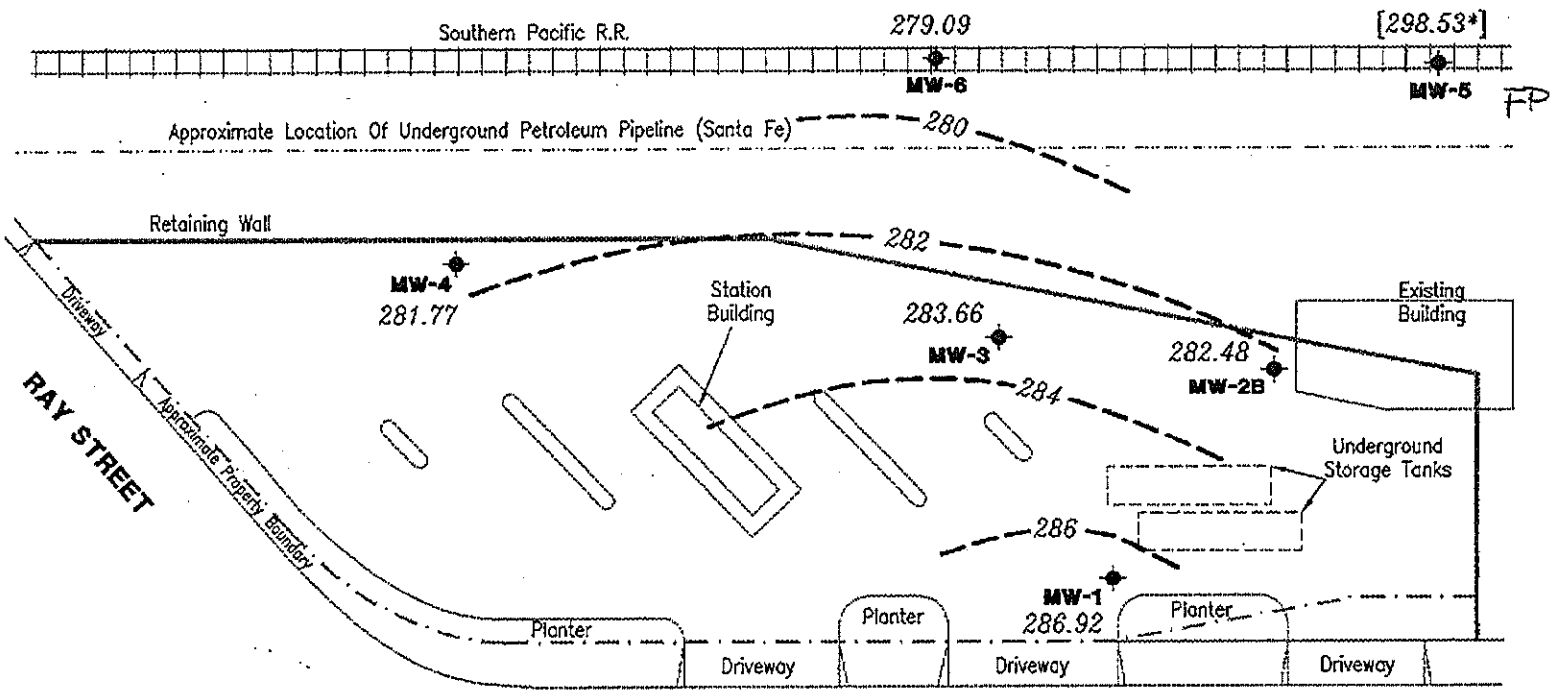
- Monitoring well
- ( ) Ground water elevation in feet above Mean Sea Level
- #.## Direction of ground water flow with approximate hydraulic gradient
- Contours of ground water elevation

* Groundwater elevation corrected due to the presence of free product.

† Elevation was not used to calculate contours.

POTENTIOMETRIC SURFACE MAP FOR THE SEPTEMBER 29, 1997 MONITORING EVENT

MPDS SERVICES, INC.	UNOCAL SERVICE STATION #7376 4191 1ST STREET PLEASANTON, CALIFORNIA	0 40 80 Approx. scale feet	FIGURE 1



EXPLANATION

- ⌖ Groundwater monitoring well
- *99.99* Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 Groundwater elevation contour, dashed where inferred.
- [*99.99*] Not used in contouring
- * Groundwater elevation corrected for the presence of free-phase hydrocarbons

FIRST STREET

Approximate groundwater flow direction at a gradient of 0.1 Ft./Ft.

N

0 40

Scale in Feet

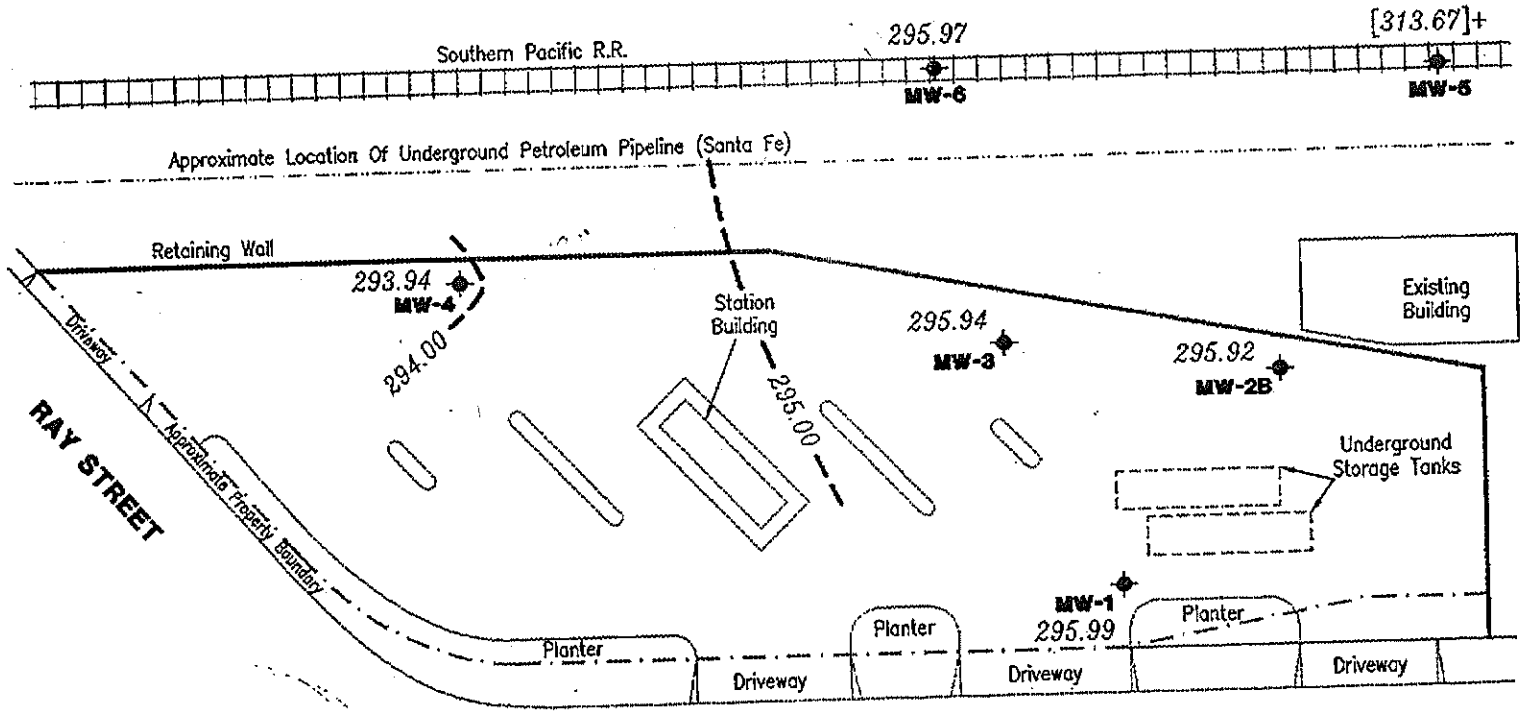
Source: Figure Modified From Drawing Provided By MPDS Services, Inc.

FIGURE 1

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180075		December 15, 1997	



EXPLANATION

- ✦ Groundwater monitoring well
- *99.99* Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- -99.99- Groundwater elevation contour, dashed where inferred.
- [*99.99*] Not used in contouring
- \+ Groundwater elevation corrected for the presence of free-phase hydrocarbons

Approximate groundwater flow direction at a gradient of 0.02 FL/FL.

Source: Figure Modified From Drawing Provided By MPDS Services, Inc.

FIGURE 1

Gettler - Ryan Inc.

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

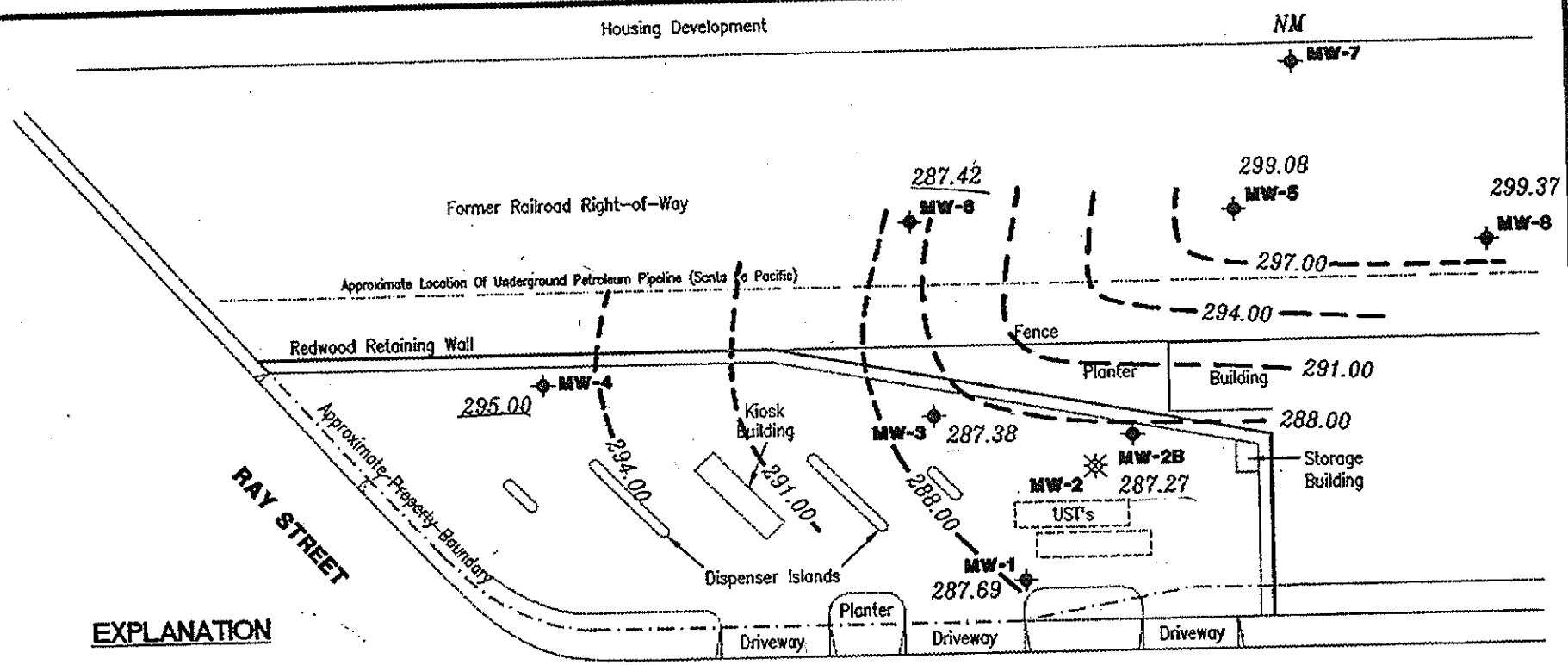
POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

JOB NUMBER 180075

REVIEWED BY

DATE March 16, 1998

REVISED DATE



FIGURE

1

Gettler - Ryan Inc.

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

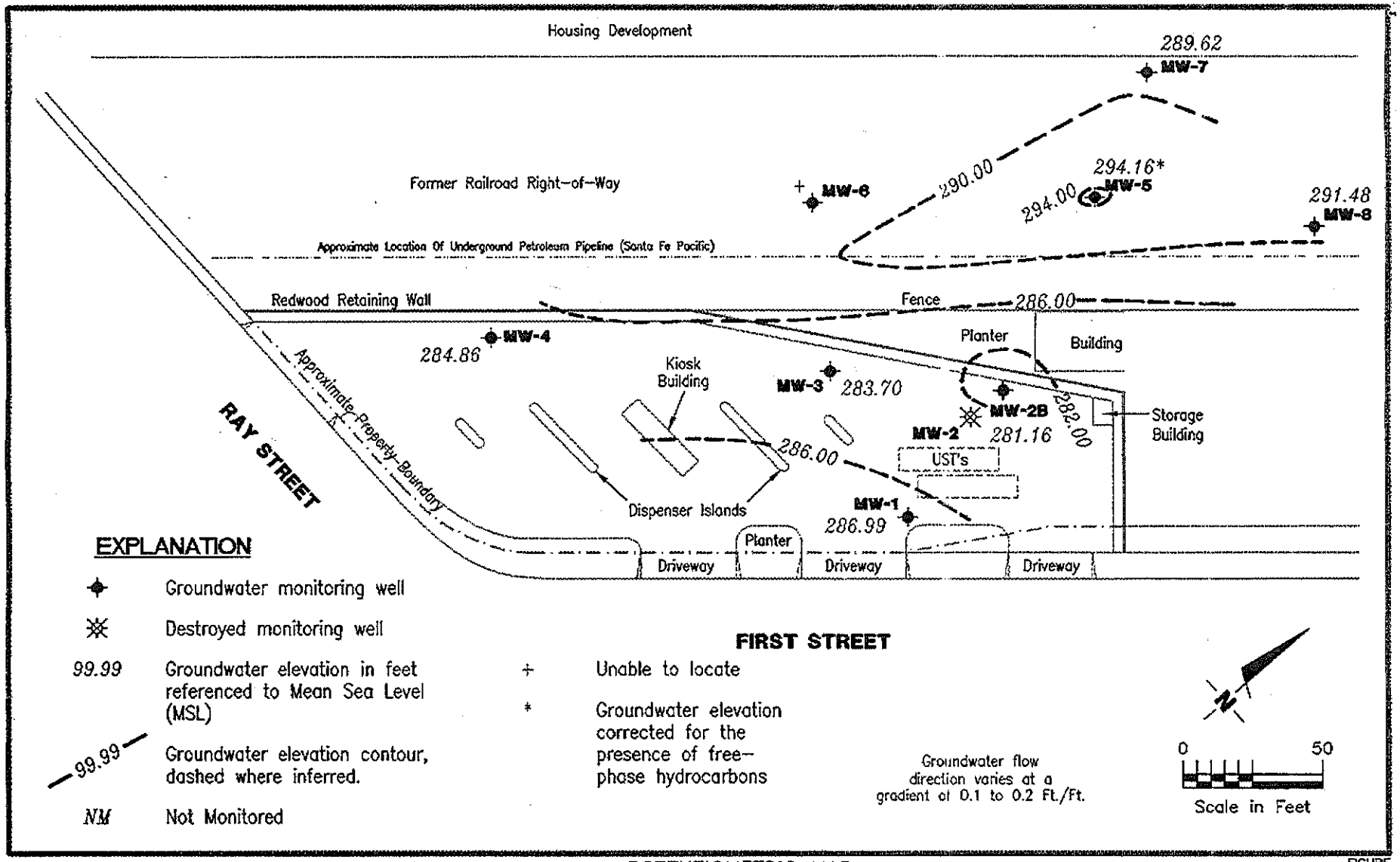
POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

JOB NUMBER
180075

REVIEWED BY

DATE
June 26, 1998

REVISED DATE



Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
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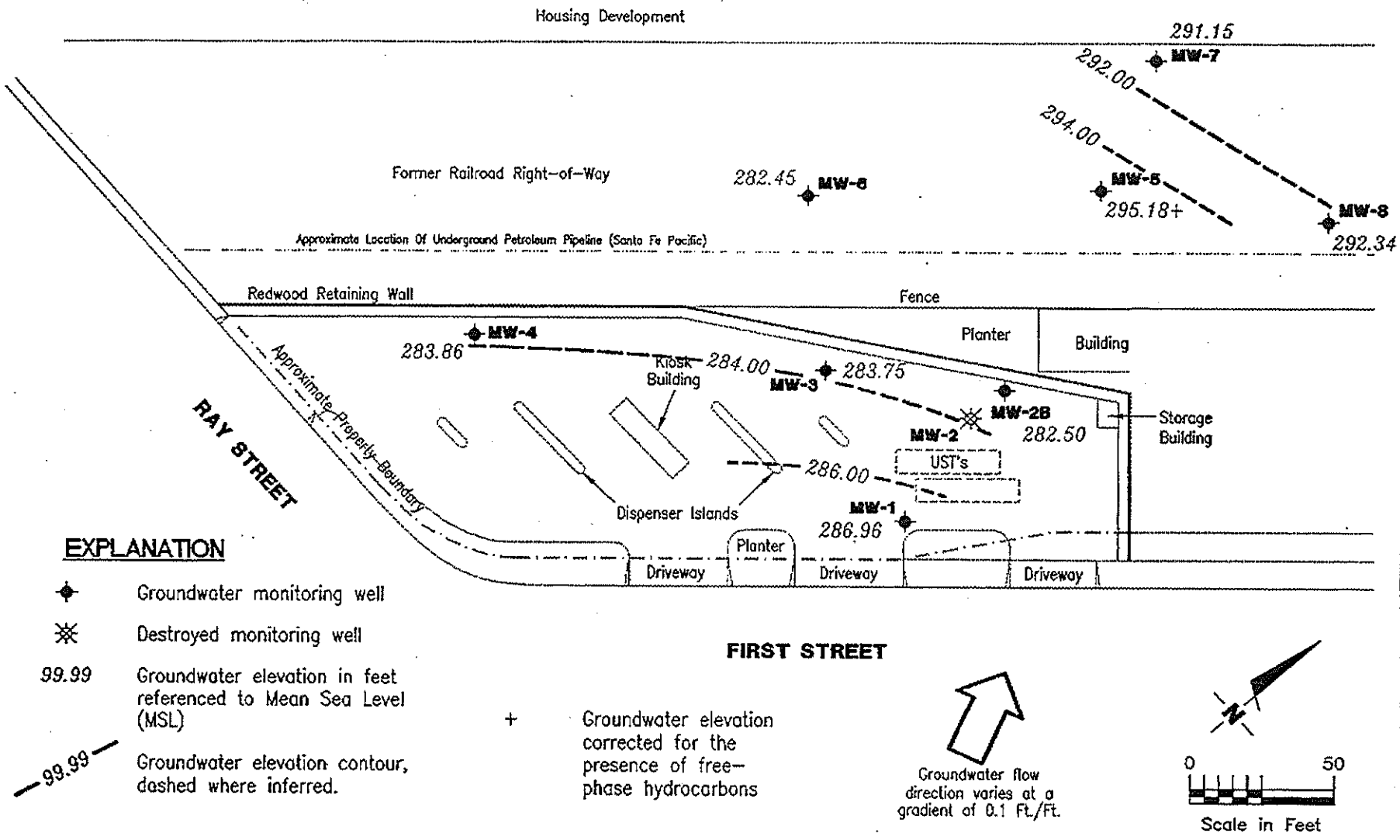


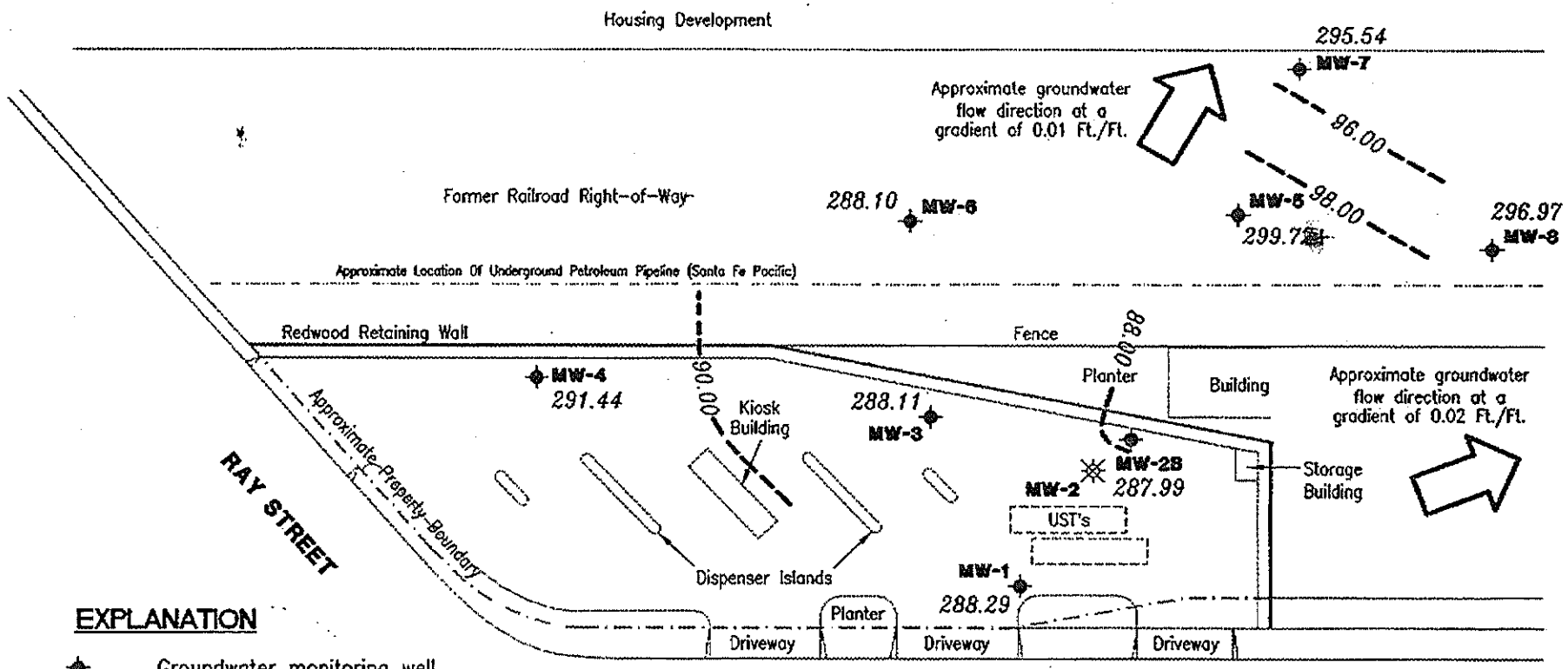
Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180075		December 23, 1998	



EXPLANATION

- Groundwater monitoring well
- Destroyed monitoring well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 — Groundwater elevation contour, dashed where inferred.
- Groundwater elevation corrected for the presence of ~~free phase hydrocarbons~~

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE 1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180075		March 23, 1999	

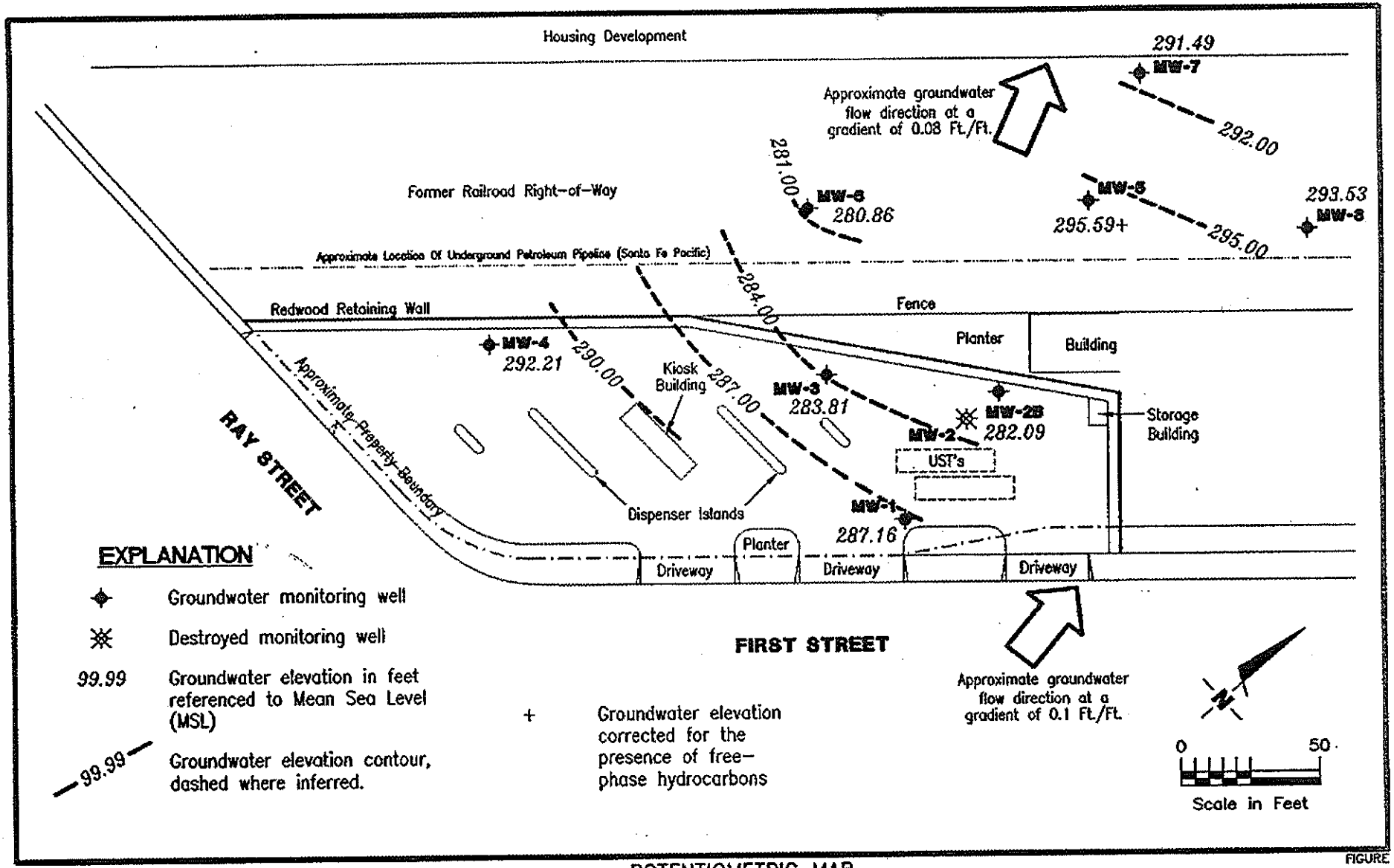


FIGURE 1

Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180075		June 7, 1999	

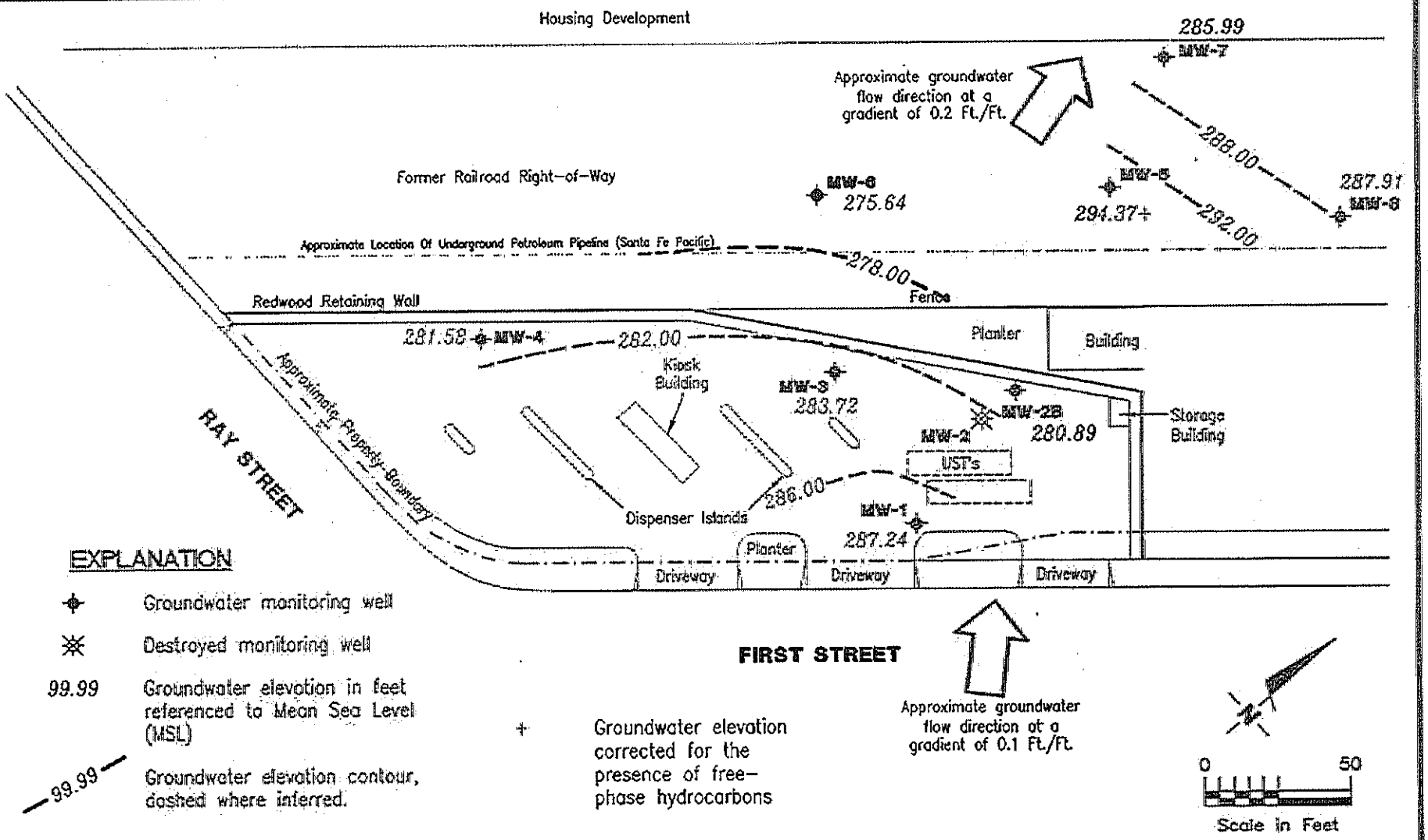


FIGURE 1

Gettler - Ryan Inc.

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Dublin, CA 94568

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180075		September 3, 1999	

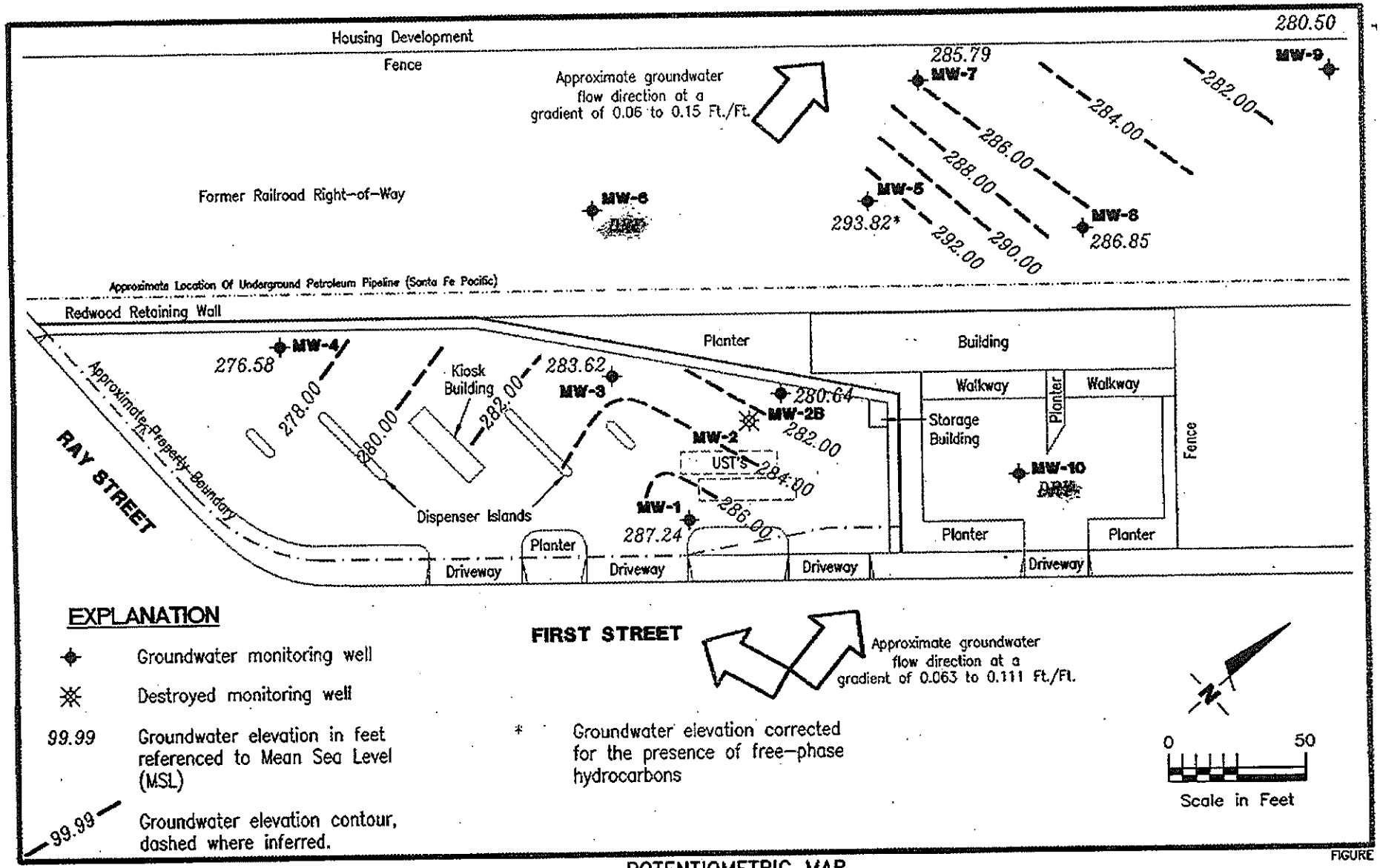


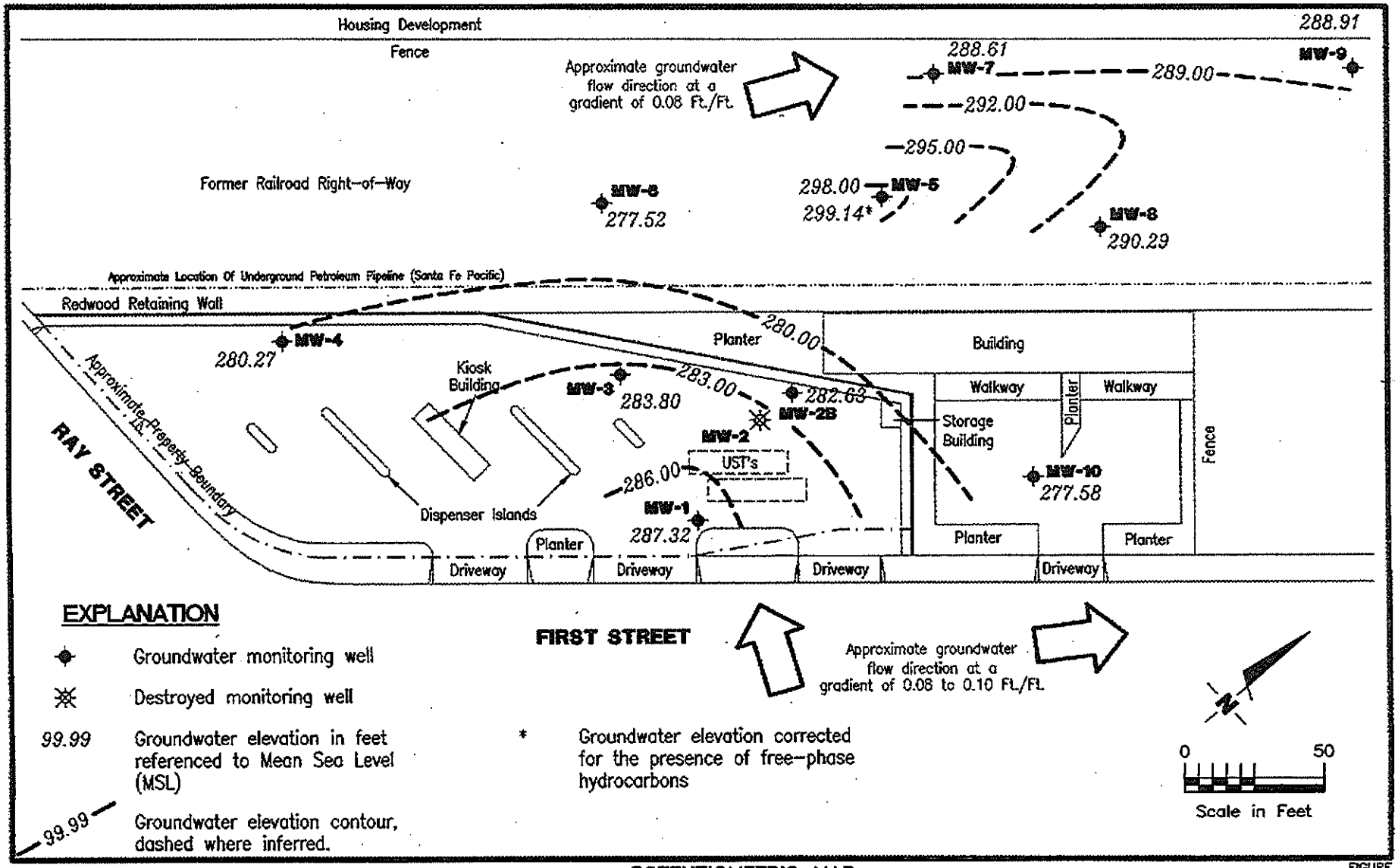
FIGURE 1

Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180075		December 6, 1999	



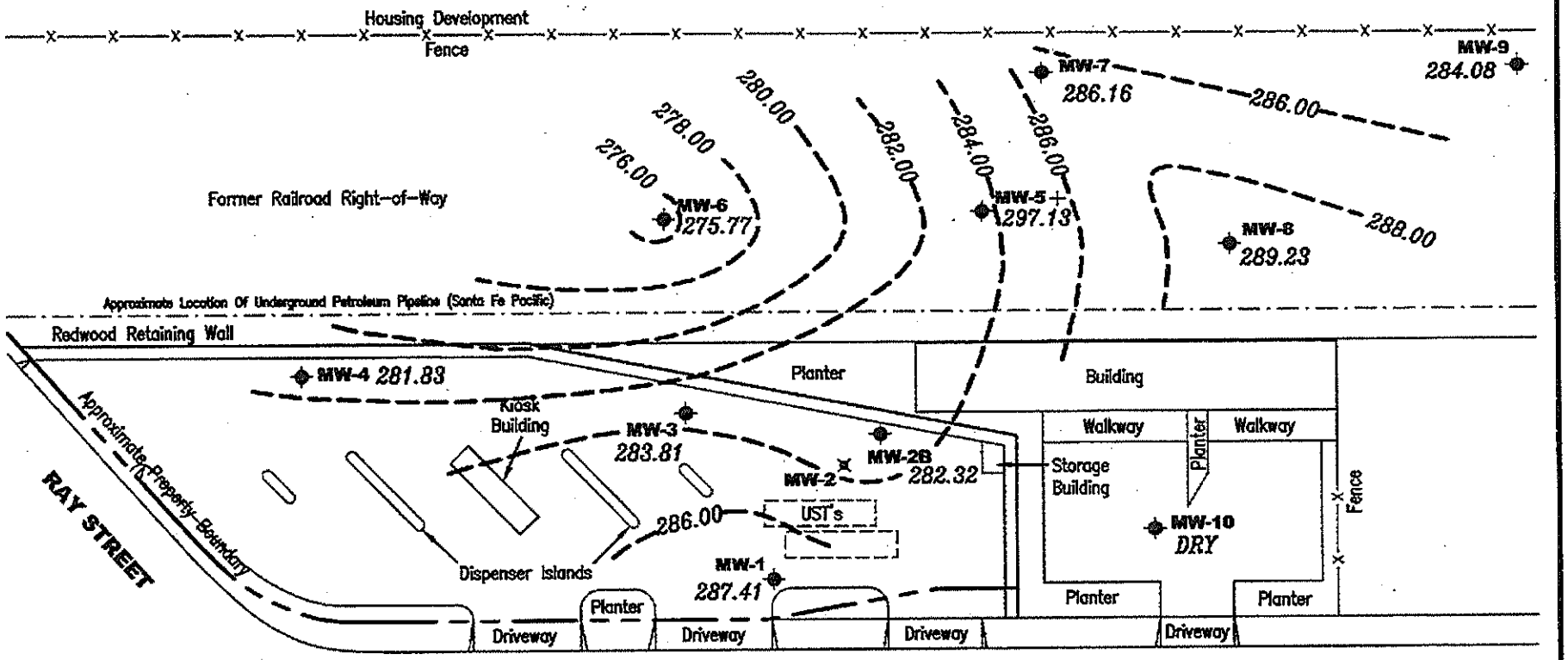
Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE 1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180075		March 10, 2000	



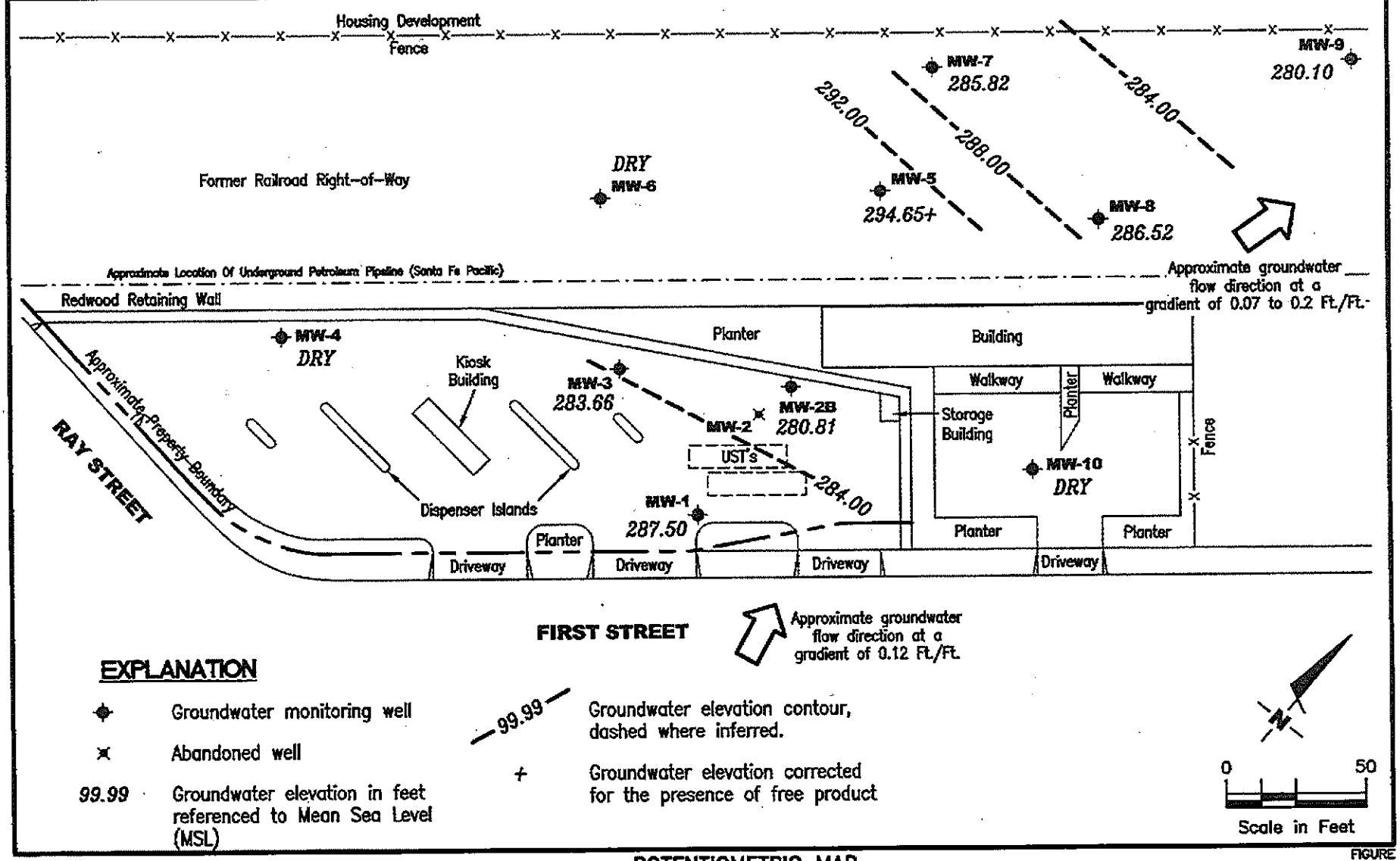
Gettler - Ryan Inc.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180075		June 8, 2000	

FILE NAME: P:\ENVIRO\TOSCO\7376\Q00-7376.DWG | Layout Tab: pot2



Gettler - Ryan Inc.

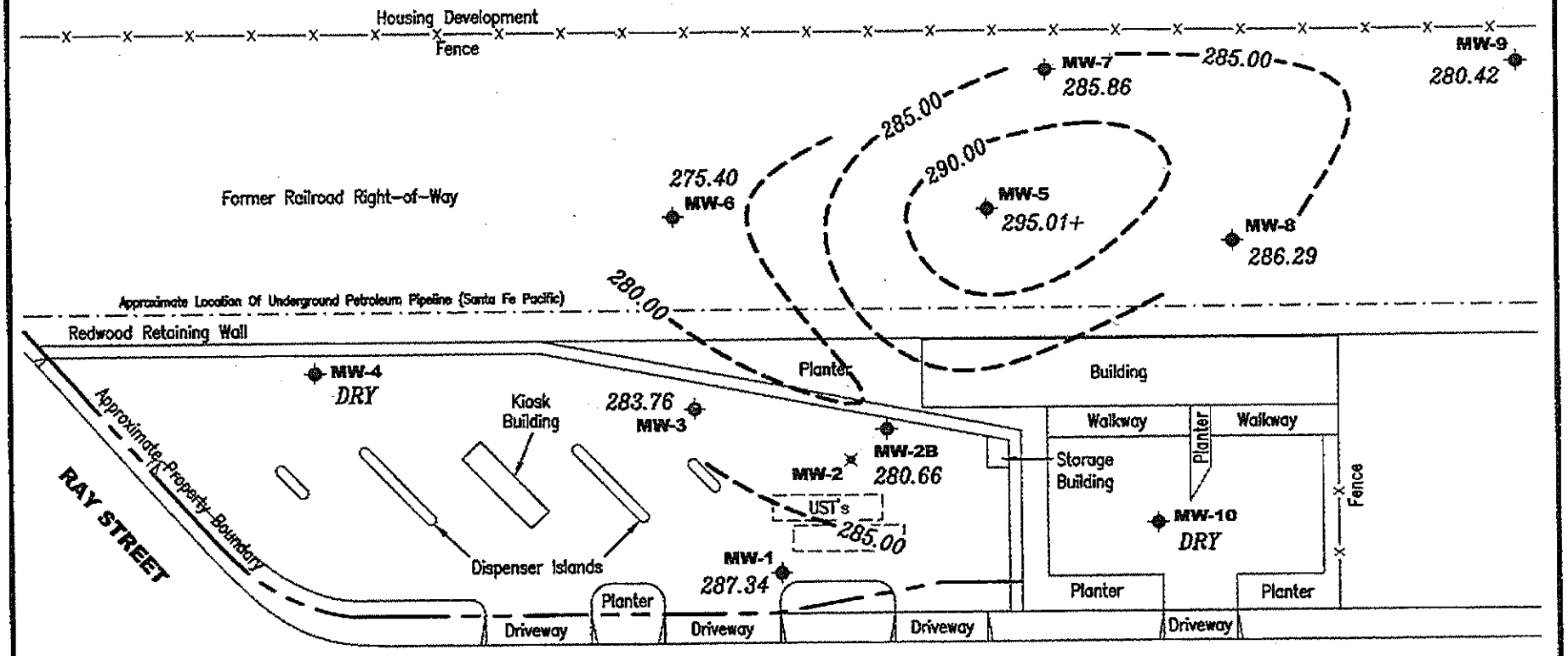
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180075		September 25, 2000	

FILE NAME: P:\ENVIRO\TOSCO\7376\Q00-7376.DWG | Layout Tab: pot3



EXPLANATION

- Groundwater monitoring well
- Abandoned well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 — Groundwater elevation contour, dashed where inferred.
- \+ Groundwater elevation corrected for the presence of free product

Groundwater flow direction varies at a gradient of 0.08 to 0.3 Ft./Ft.

N

0 50

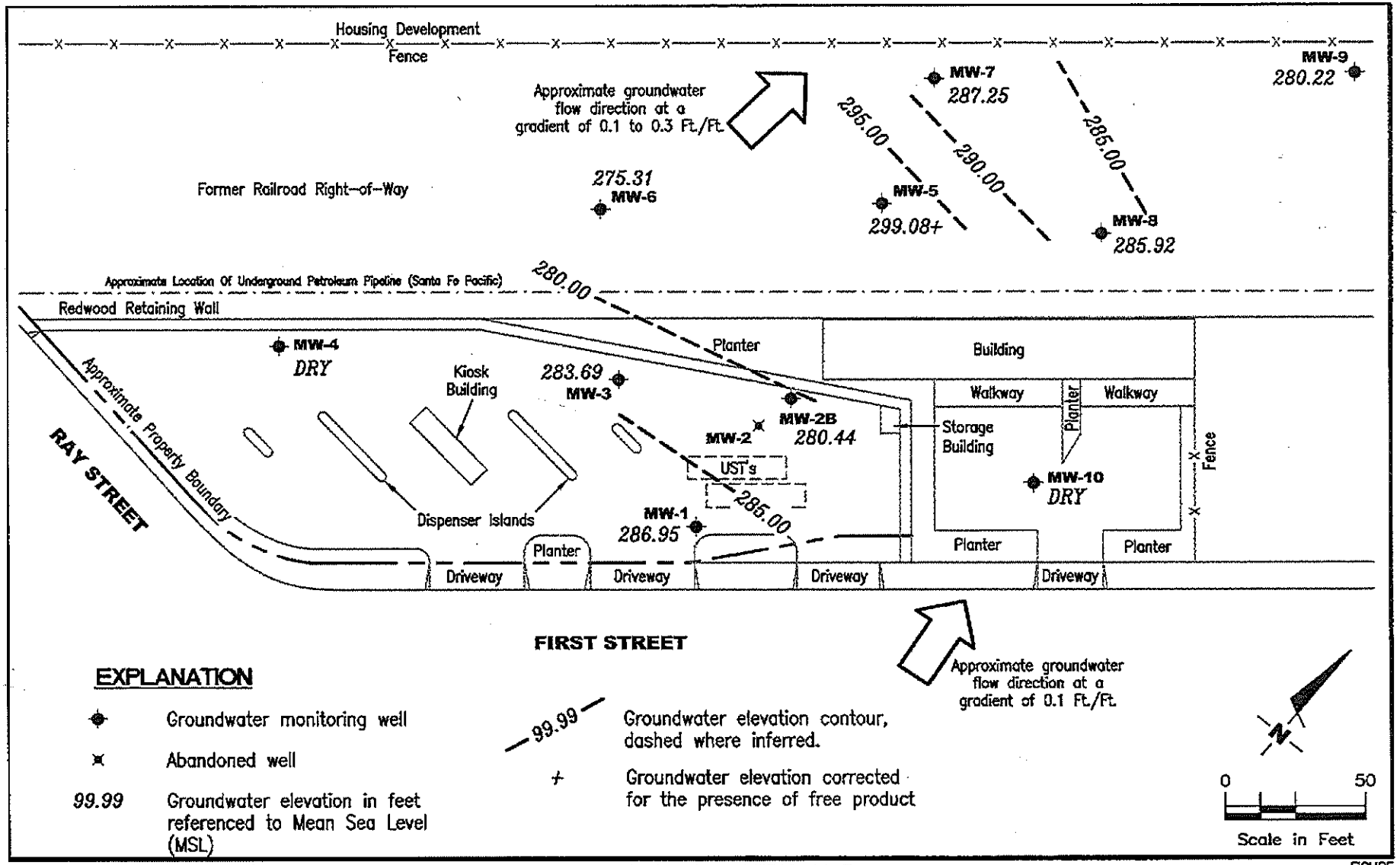
Scale in Feet

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

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

FIGURE 1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180075		[illegible]	



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

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180075		March 5, 2001	

FILE NAME: P:\Enviro\Tosco\7376\Q01-7376.DWG | Layout Tab: Pot1

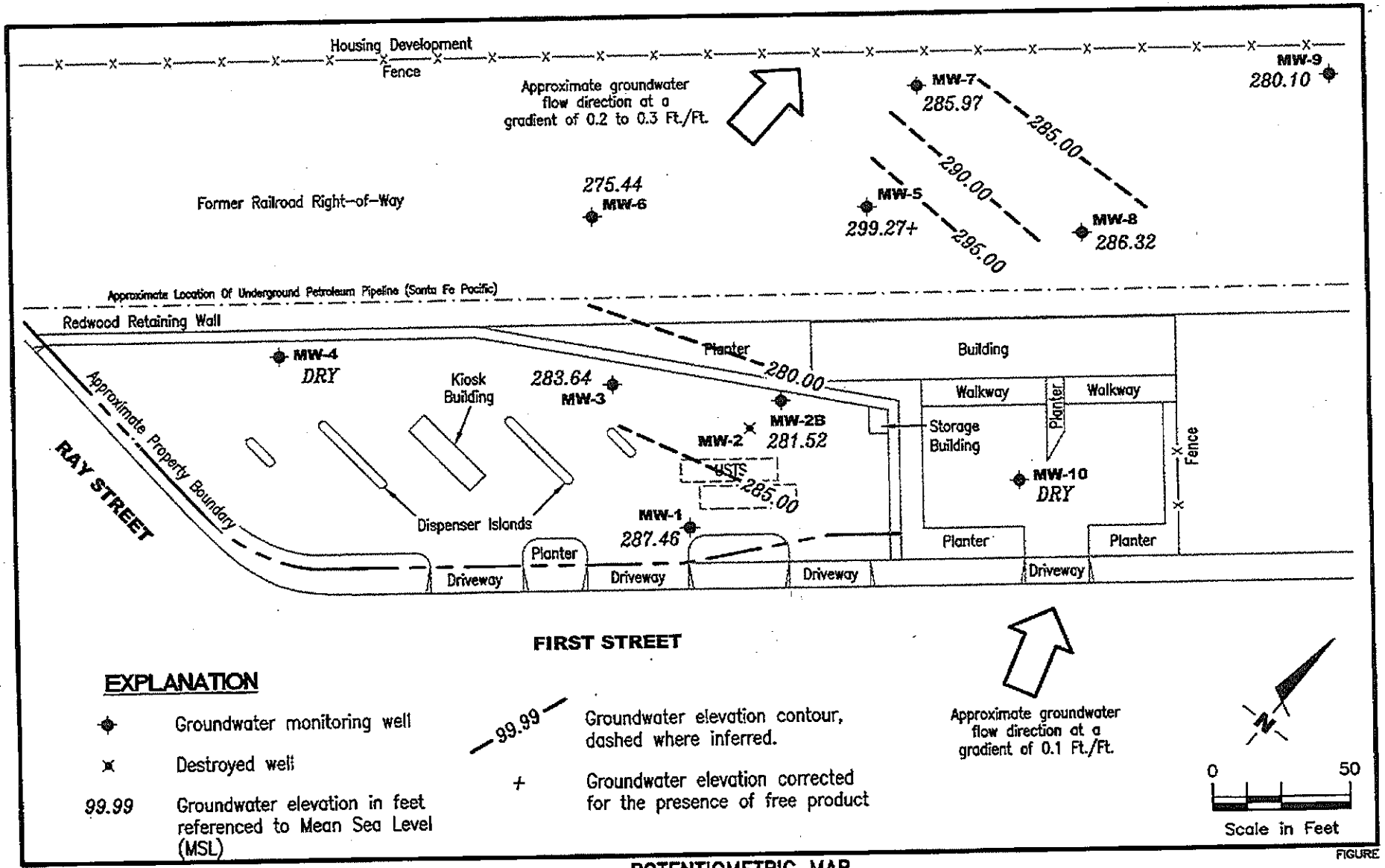


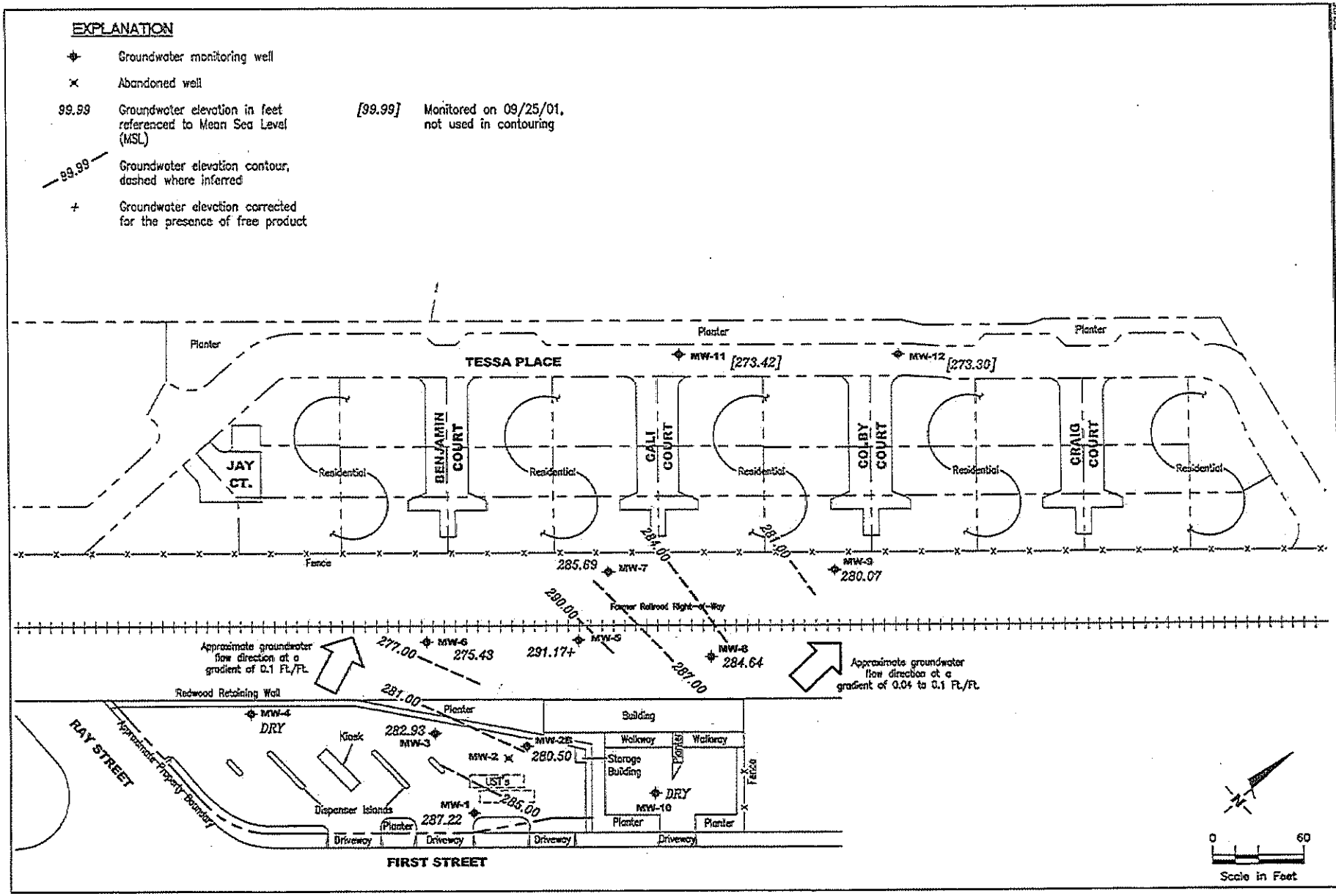
FIGURE 1

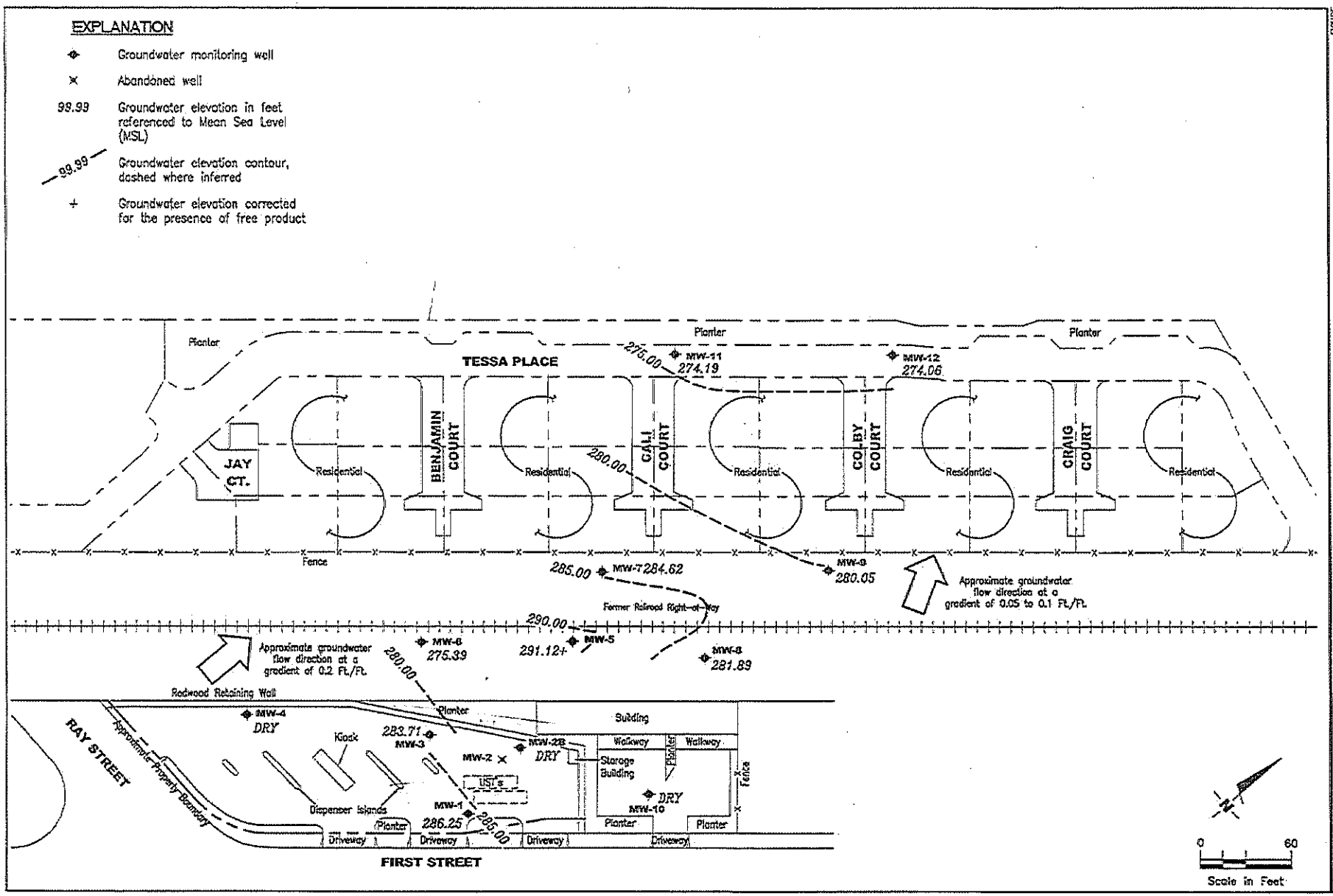
POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

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

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180075		June 14, 2001	

FILE NAME: P:\ENVIRO\TOSCO\7376\GD1-7376.DWG | Layout Tab: Pot2


EXPLANATION
Groundwater monitoring well
Abandoned well
99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
[99.99] Monitored on 09/25/01, not used in contouring
99.99 Groundwater elevation contour, dashed where inferred
+ Groundwater elevation corrected for the presence of free product
TESSA PLACE
JAY CT.
BENJAMIN COURT
GALI COURT
COLBY COURT
CRAIG COURT
Residential
Planter
Fence
MW-11 [273.42]
MW-12 [273.36]
MW-7 285.69
MW-9 280.07
MW-6 275.43
MW-5 291.17+
MW-8 284.64
MW-4 DRY
MW-3 282.93
MW-2E 280.50
MW-2
MW-1 287.22
MW-10 DRY
284.00
281.00
280.00
277.00
287.00
285.00
Former Railroad Right-of-Way
Approximate groundwater flow direction at a gradient of 0.1 Ft./Ft.
Approximate groundwater flow direction at a gradient of 0.04 to 0.1 Ft./Ft.
Redwood Retaining Wall
Kiosk
Dispenser Islands
USTs
Building
Walkway
Storage Building
Porch
RAY STREET
Approximate Property Boundary
FIRST STREET
Driveway
N
0
60
Scale in Feet
POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California
DATE September 17, 2001
REVISED DATE
FIGURE 1
GETTLER - RYAN INC.
6747 Sierra Ct. Suite J
Dublin, CA 94568
(925) 551-7555
PROJECT NUMBER 180075
REVIEWED BY



POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

DATE December 17, 2001
REVISED DATE

FIGURE 1

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

PROJECT NUMBER 180075
REVIEWED BY

FILE NAME: P:\Gettler\Tosco\7376\2001-12\DWG\[Legend 12x Plot]

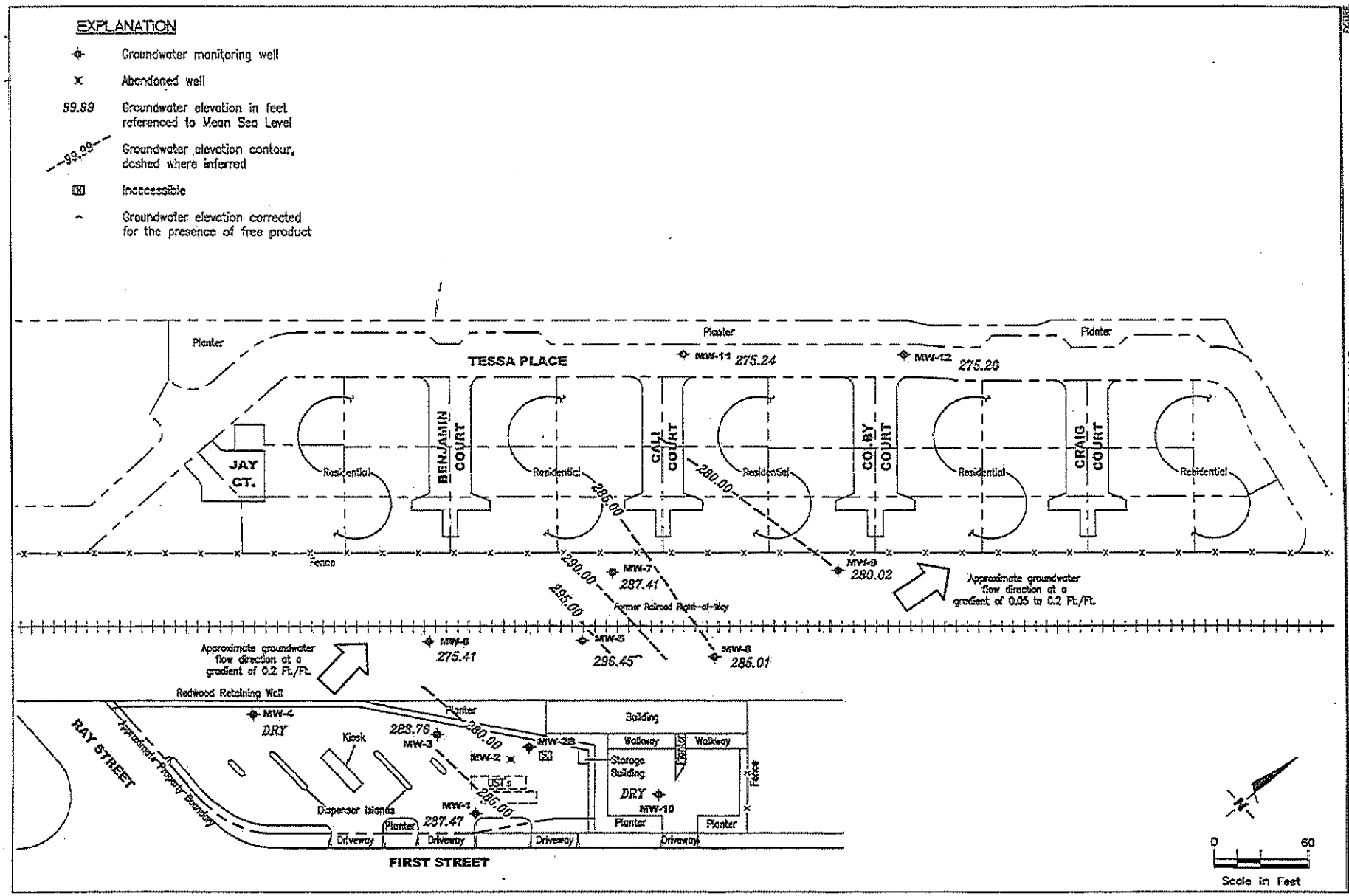


FIGURE 1

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

DATE
March 15, 2002

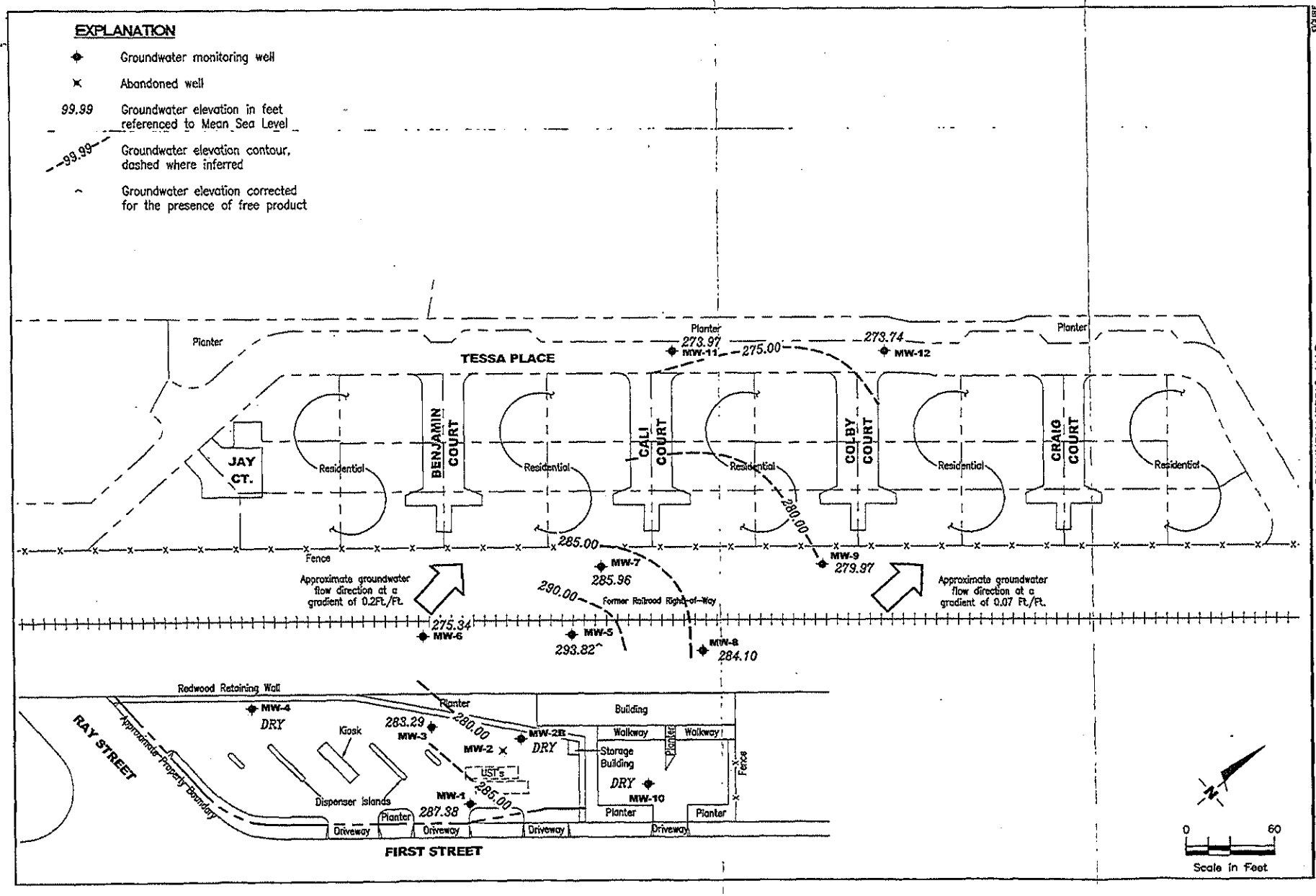
REVISED DATE

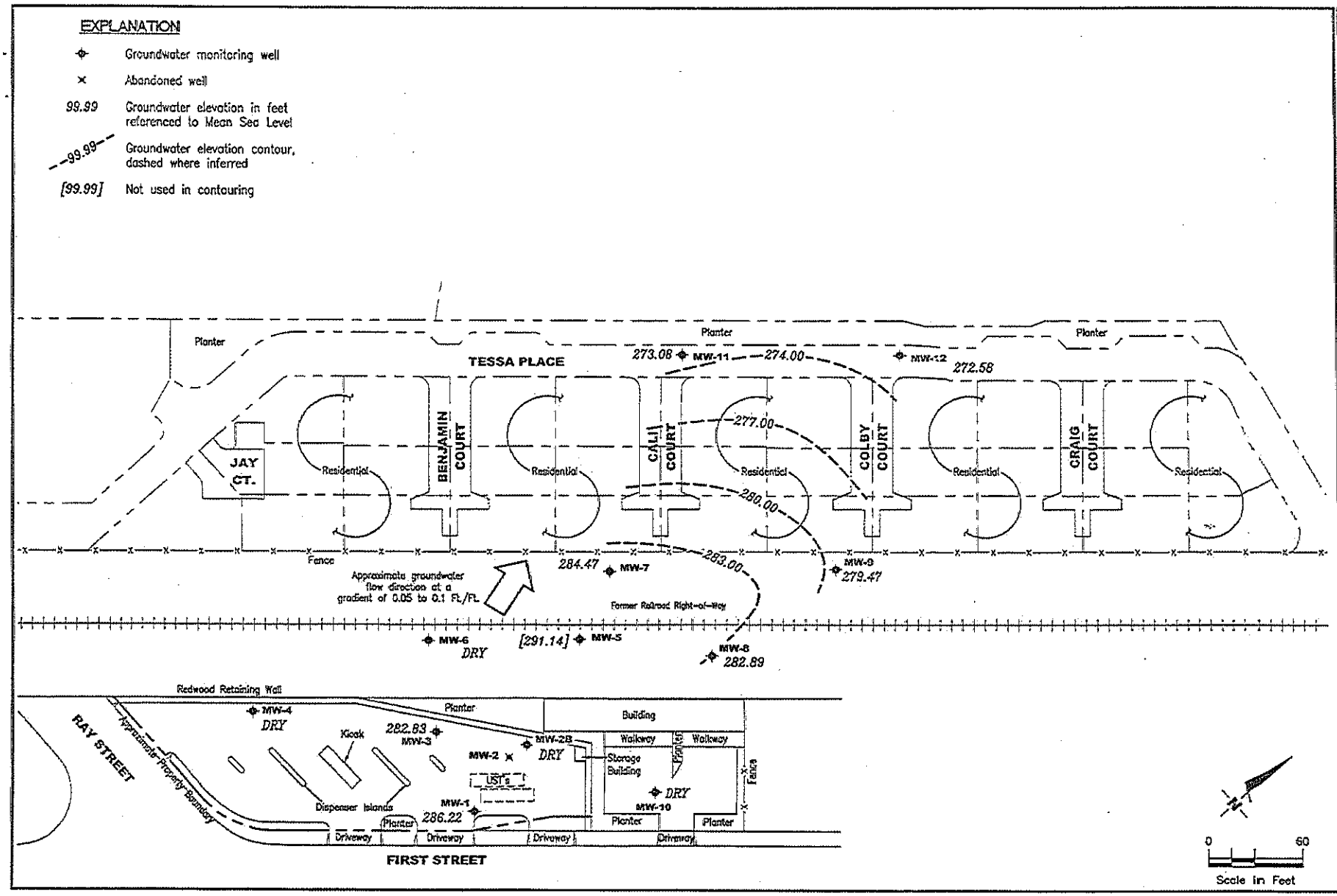
GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

PROJECT NUMBER
180075

REVIEWED BY

FILE NAME: P:\Drawings\7300\7376\07376-7376.dwg | Layout Tab: Fig1


EXPLANATION
Groundwater monitoring well
Abandoned well
99.99 Groundwater elevation in feet referenced to Mean Sea Level
99.99 Groundwater elevation contour, dashed where inferred
Groundwater elevation corrected for the presence of free product
TESSA PLACE
JAY CT.
BENJAMIN COURT
CALI COURT
COLBY COURT
CRAIG COURT
Residential
Planter
Fence
MW-11 273.97
275.00
MW-12 273.74
MW-9 279.97
280.00
MW-7 285.96
285.00
290.00
Former Railroad Right-of-Way
MW-6 275.34
MW-5 293.82^
MW-8 284.10
Approximate groundwater flow direction at a gradient of 0.2Ft./Ft.
Approximate groundwater flow direction at a gradient of 0.07 Ft./Ft.
Redwood Retaining Wall
MW-4 DRY
RAY STREET
Approximate Property Boundary
Kiosk
283.29
MW-3
280.00
MW-2R DRY
MW-2
Building
Walkway
Planter
Storage Building
DRY
MW-10
Fence
UST's
285.00
MW-1 287.38
Dispenser Islands
Driveway
FIRST STREET
N
0
60
Scale in Feet
POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California
FIGURE 1
GETTLER-RYAN INC.
6747 Sierra Ct. Suite J
Dublin, CA 94568
(925) 551-7555
PROJECT NUMBER 180075
REVIEWED BY
DATE June 20, 2002
REVISED DATE



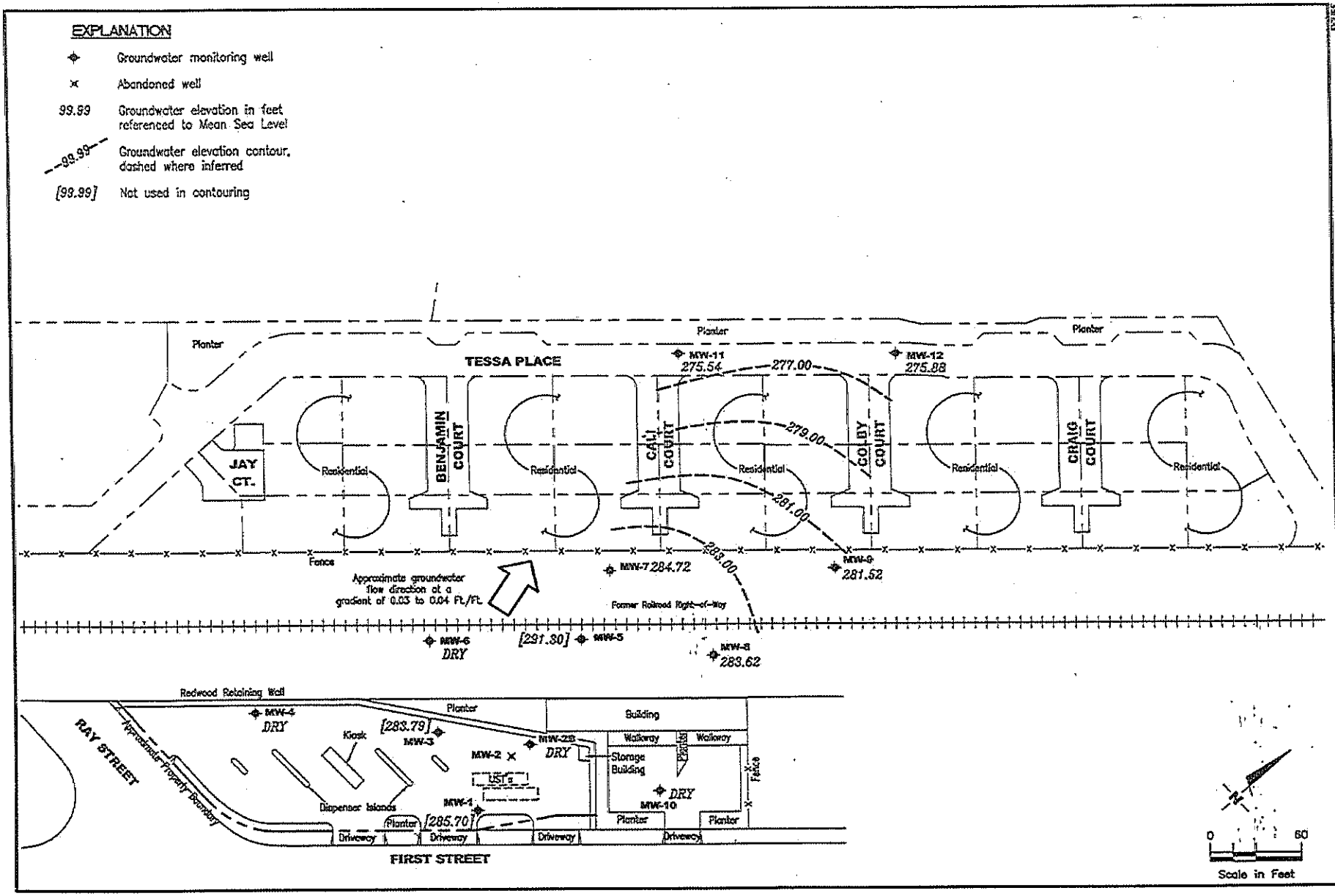
POTENTIOMETRIC MAP
Tosca (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

DATE: September 27, 2002
REVISED DATE:

FIGURE 1

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

PROJECT NUMBER 180075
REVISED BY:



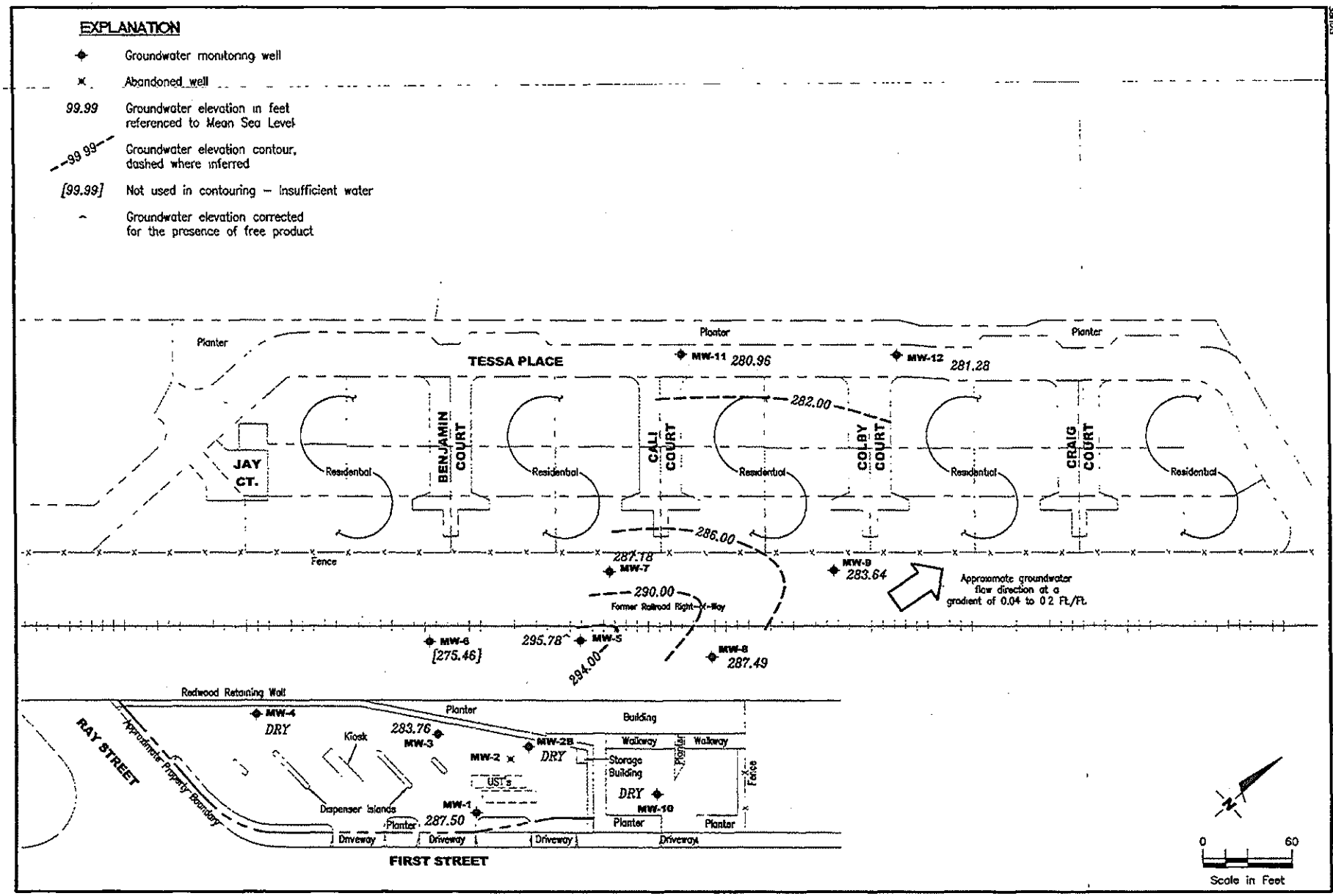
POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

DATE: December 30, 2002
REVISED DATE:

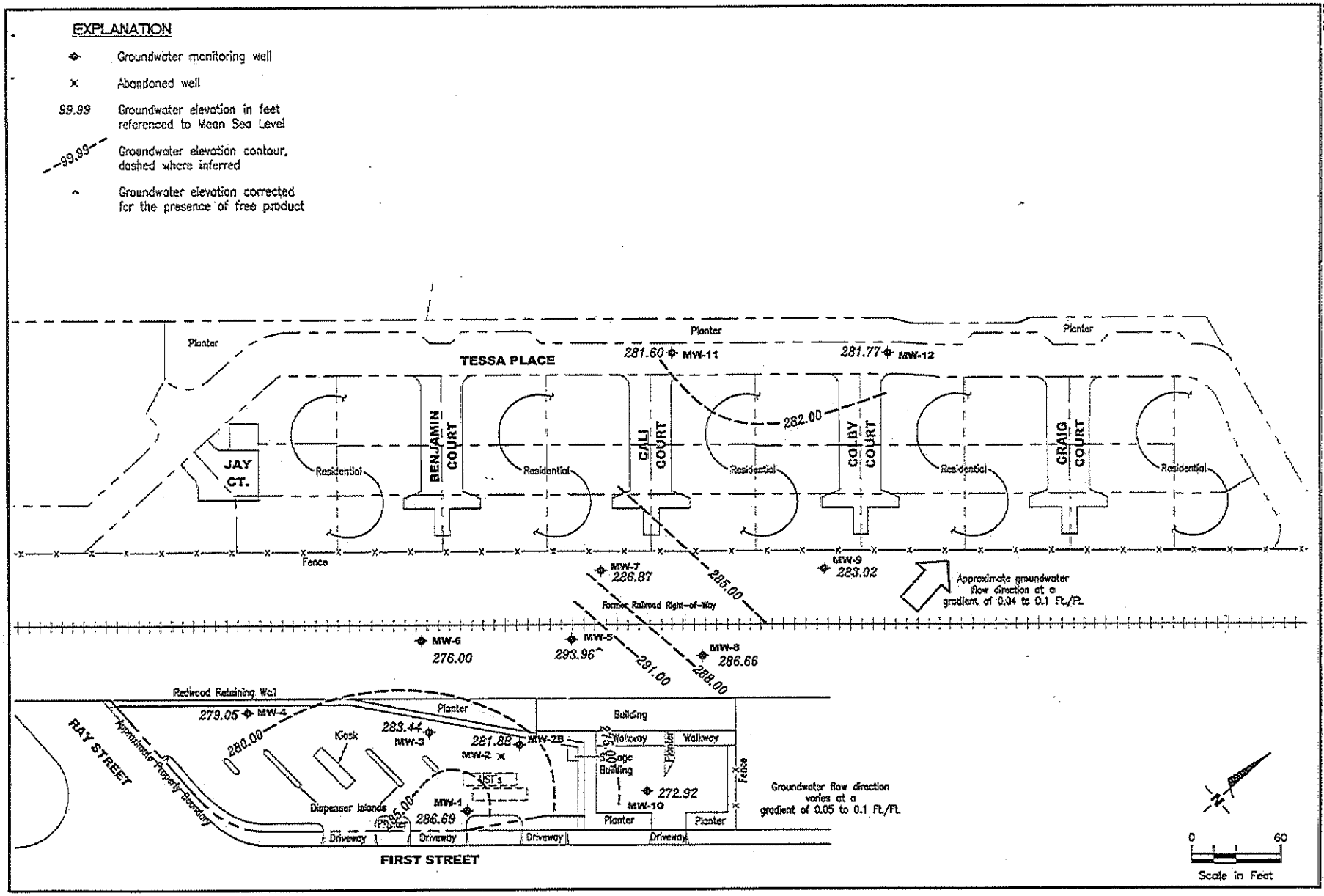
GETTLER-RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

PROJECT NUMBER: 180075
REVIEWED BY:

FIGURE 1


EXPLANATION
Groundwater monitoring well
Abandoned well
99.99 Groundwater elevation in feet referenced to Mean Sea Level
-99.99- Groundwater elevation contour, dashed where inferred
[99.99] Not used in contouring – Insufficient water
~ Groundwater elevation corrected for the presence of free product
Planter
TESSA PLACE
MW-11 280.96
MW-12 281.28
282.00
JAY CT.
BENJAMIN COURT
CALI COURT
COLBY COURT
CRAIG COURT
Residential
286.00
287.78
MW-7
MW-9 283.64
290.00
Former Railroad Right-of-Way
Approximate groundwater flow direction at a gradient of 0.04 to 0.2 Ft/Ft
Fence
MW-6 [275.46]
295.78
MW-5
294.00
MW-8 287.49
Redwood Retaining Wall
MW-4 DRY
Kiosk
283.76
MW-3
MW-2
MW-2B DRY
Building
Walkway
Storage Building
DRY
MW-10
UST's
MW-1 287.50
Dispenser Islands
RAY STREET
Approximate Property Boundary
Driveway
FIRST STREET
0
60
Scale in Feet
FIGURE 1
POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California
DATE March 26, 2003
REVISED DATE
GETTLER-RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555
PROJECT NUMBER 180075
REVIEWED BY
FILE NAME P:\GRO\Oakland\7300-7399\7376\Q1-03\7376Q103.dwg Layout Tab: Plot

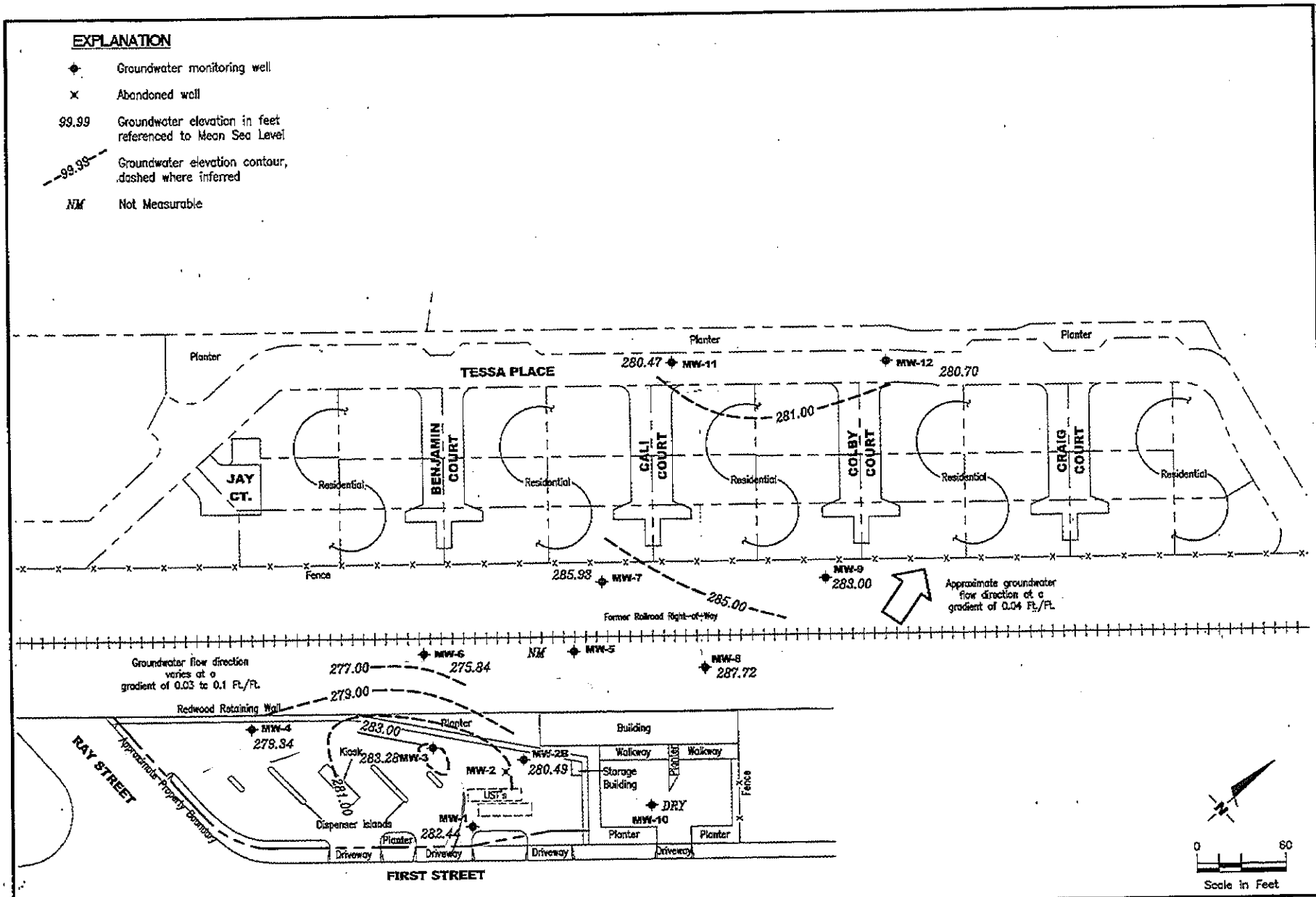
1" = 40'



POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

PROJECT NUMBER 180075
REVIEWED BY
DATE June 10, 2003
REVISED DATE
PROJECT 1

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



POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7376
4191 First Street
Pleasanton, California

DATE: September 9, 2003

FIGURE 1

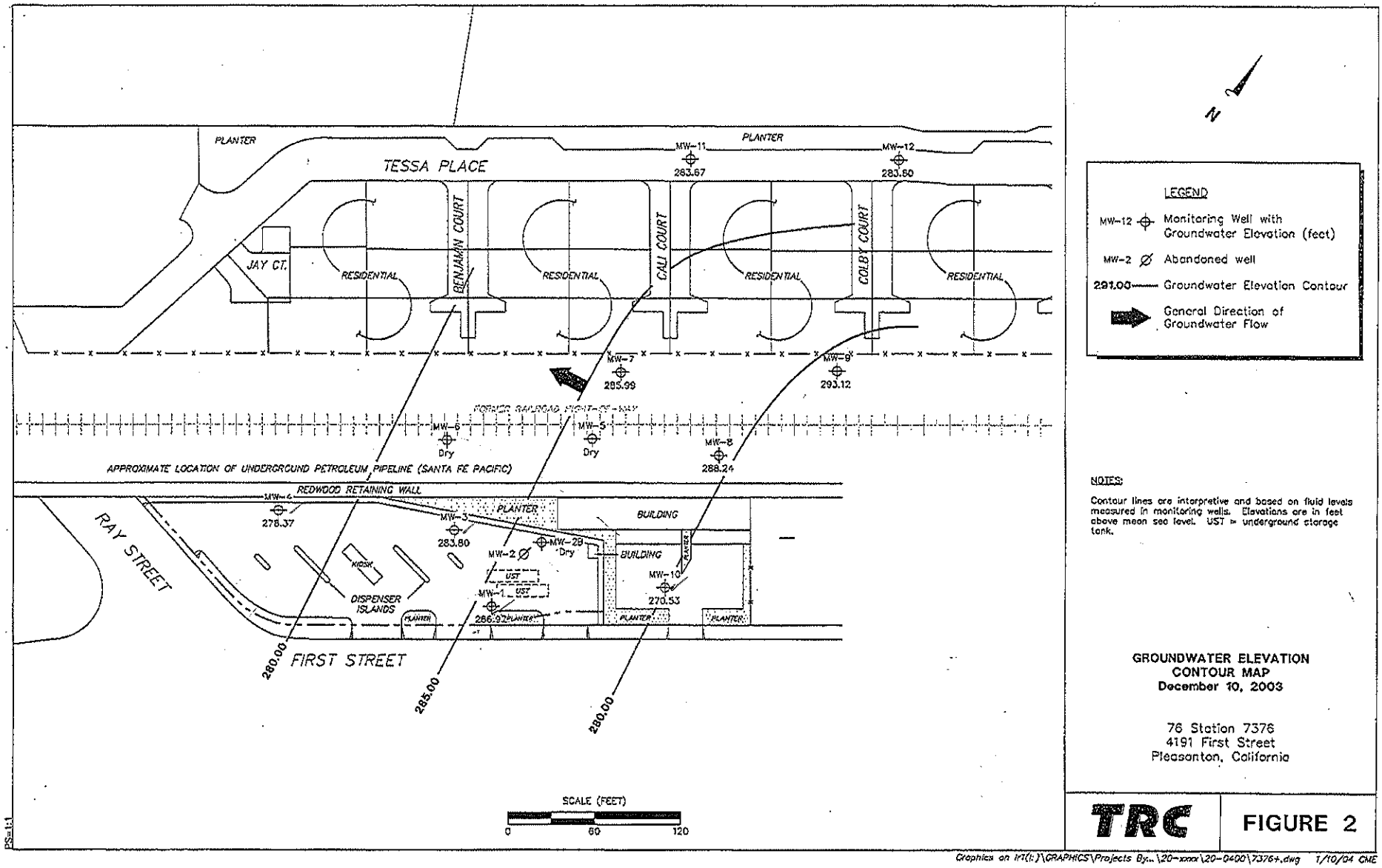
GETTLER-RYAN INC.
6747 Sierra Ct. Suite J
Dublin, CA 94568
(925) 551-7555

PROJECT NUMBER 180075

REVIEWED BY

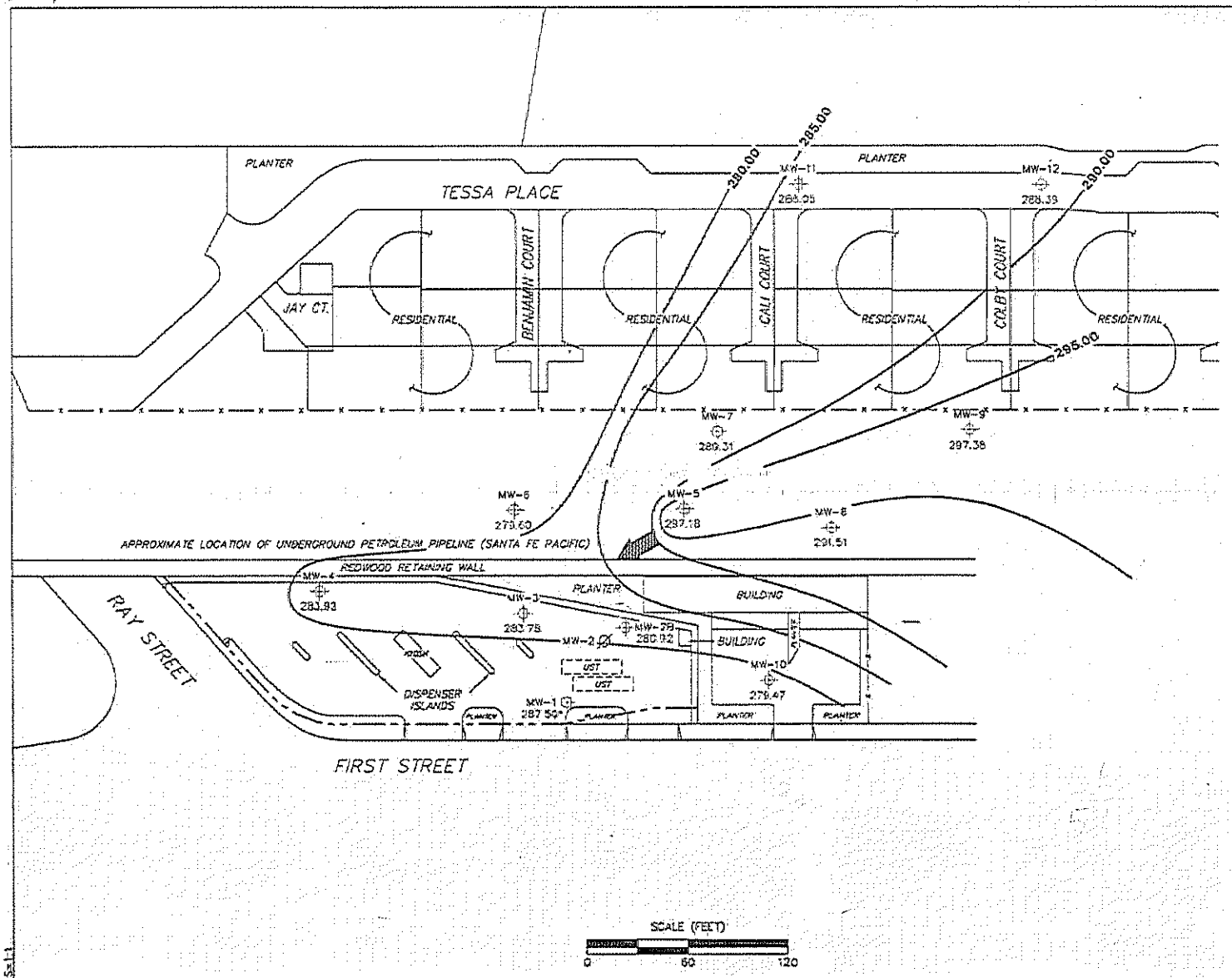
REVISED DATE

FILE NAME: P:\DWG\COROPHILLPS-76\7376\7376 (2003-7376DW1 Tiff.dwg, 9/9/2003 7:56:47 AM, Adobe PDF)



Graphics on Irf(i:)\GRAPHICS\Projects By...\20-xxxx\20-0400\7376+.dwg 1/10/04 CME

Elev. 315



N

LEGEND

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

MW-2 Ø Abandoned well

295.00 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. * not included in groundwater contour interpretation.

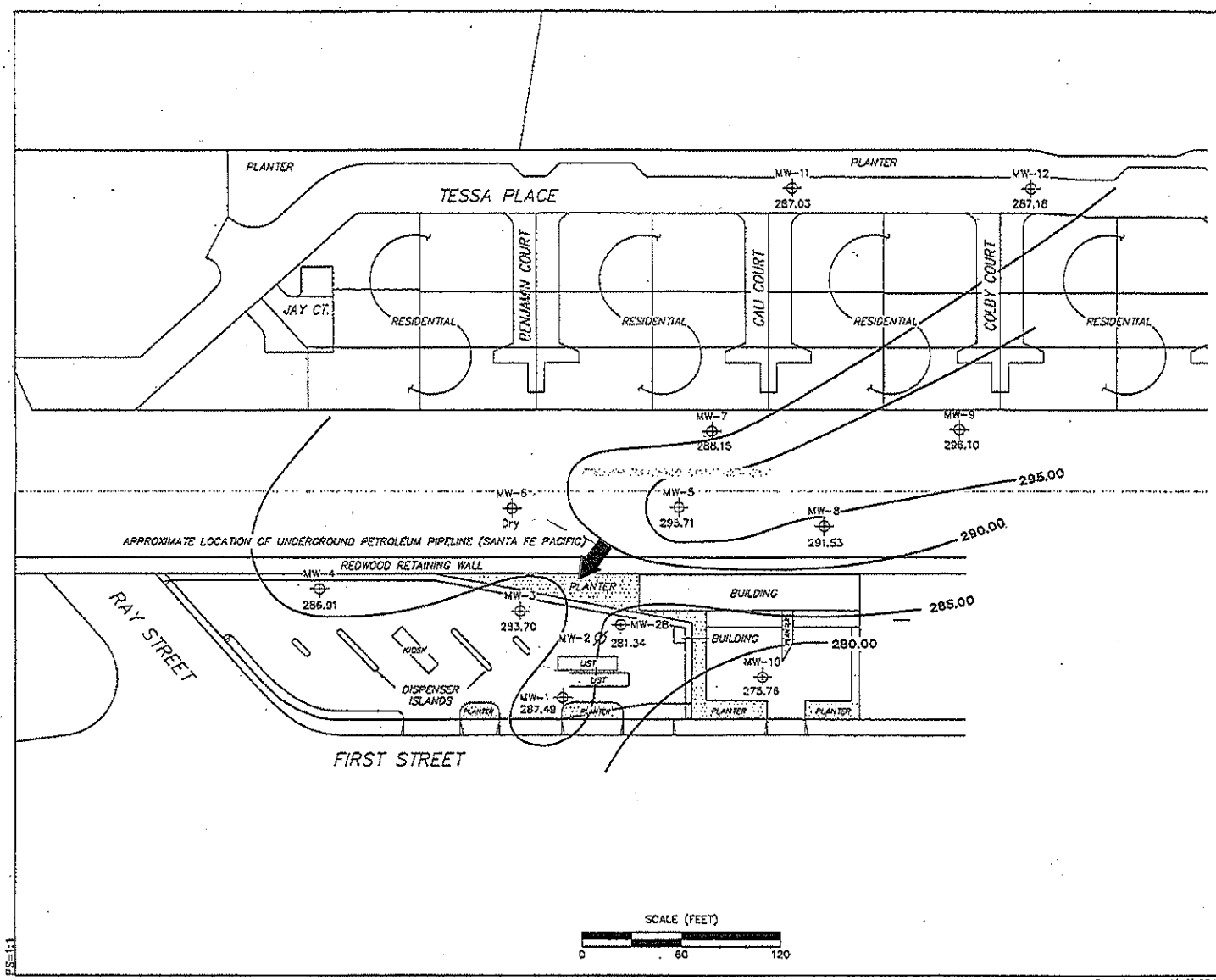
GROUNDWATER ELEVATION CONTOUR MAP
March 9, 2004

76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

Graphics on Ir1(f:)\GRAPHICS\Projects By...\20-xxxx\20-0400\7376+.dwg 4/6/04 bas



N

LEGEND

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

MW-2 ⊘ Abandoned well

295.00 —— 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
June 21, 2004

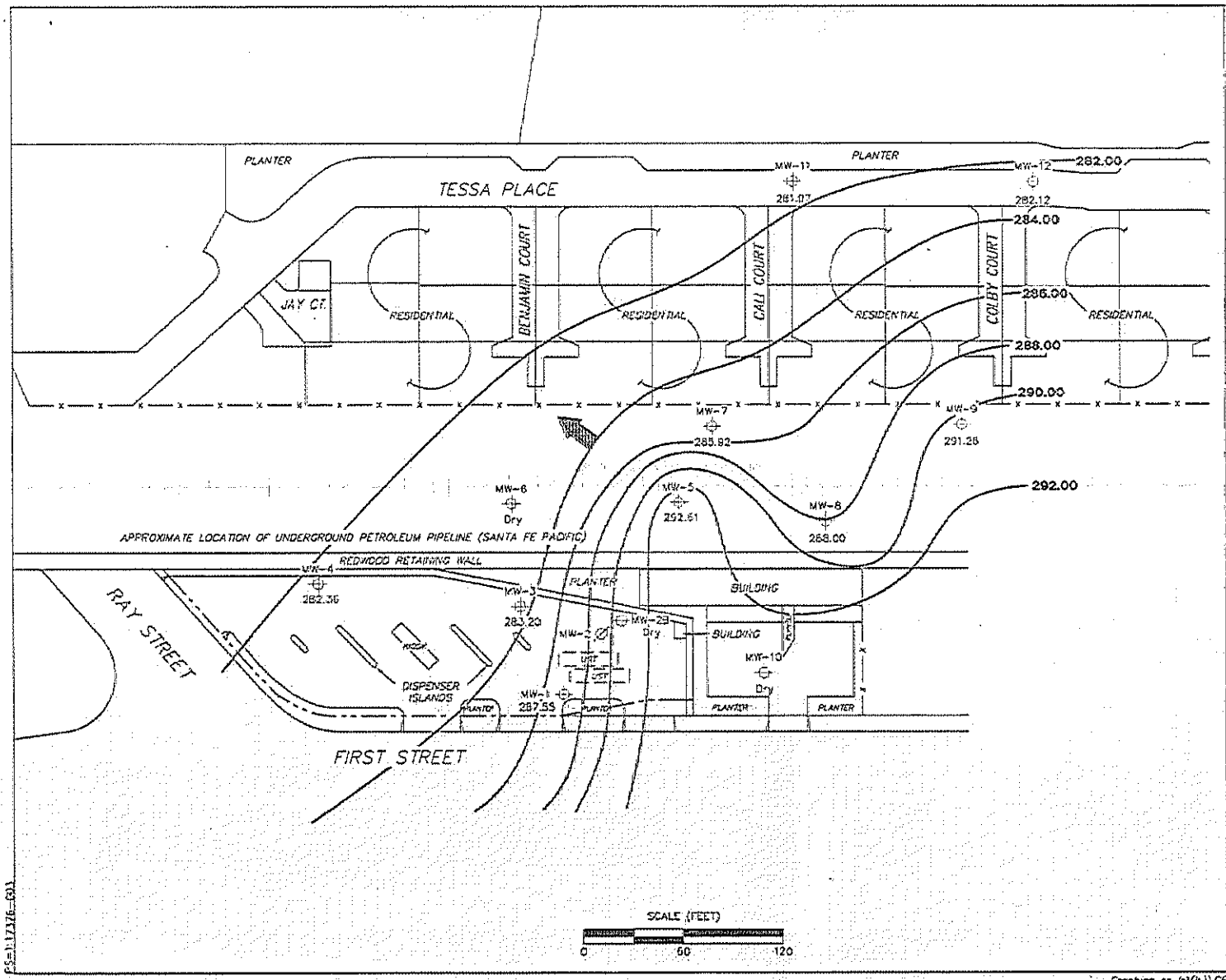
76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

PS=1:1

Graphics on Irf(I:)\GRAPHICS\Projects By...\20-xxxx\20-0400\7376+.dwg 7/21//04 rbs



LEGEND

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

MW-2 ⊘ Abandoned well

292.00 —— 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
September 3, 2004

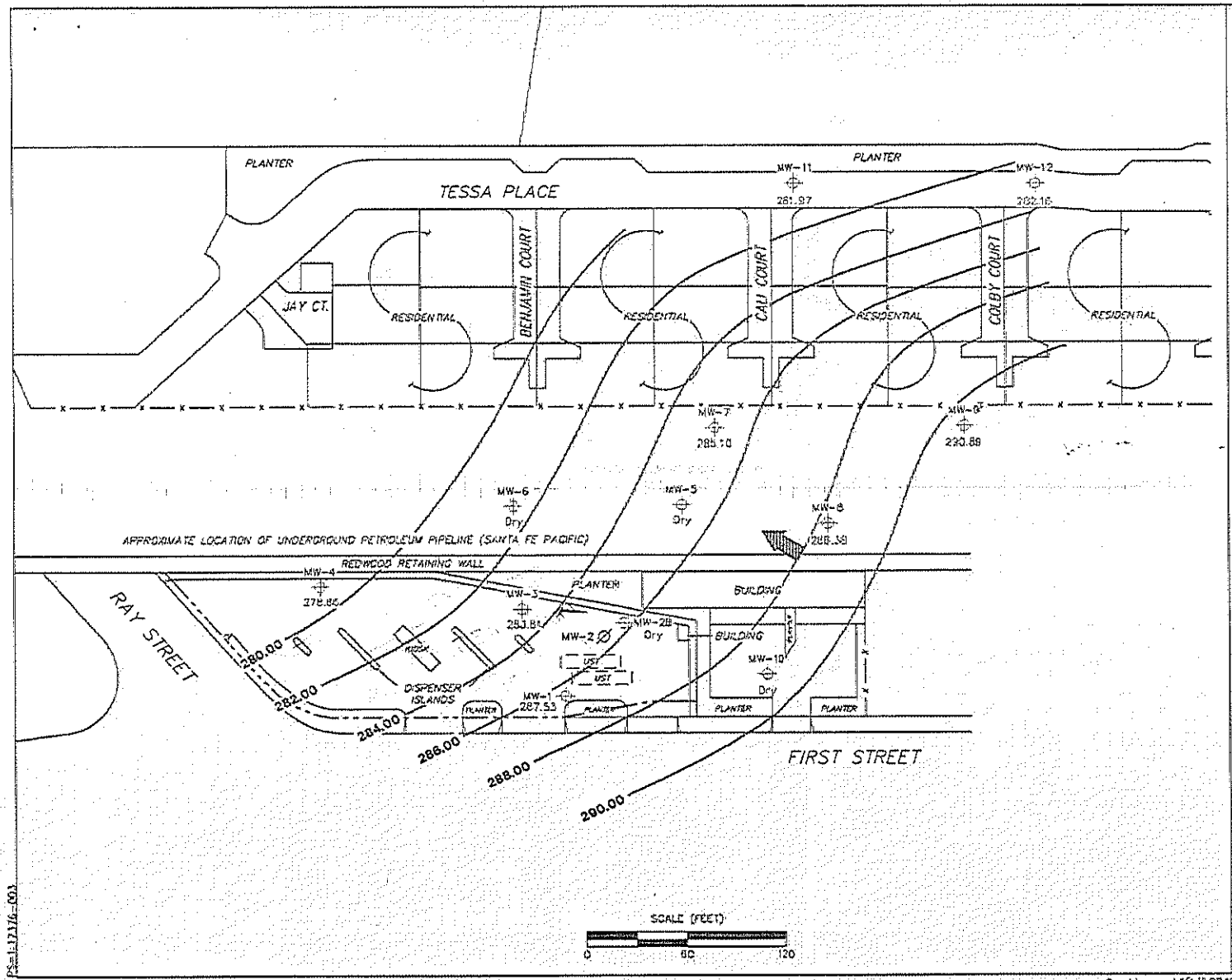
76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

P:\...\7376_f01

Graphics on Ir1(t:)\GRAPHICS\Projects By..\20-xxxx\20-0400\7376+.dwg 9/27/04 blw



N

LEGEND

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

MW-2 ∅ Abandoned well

290.00 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
December 14, 2004

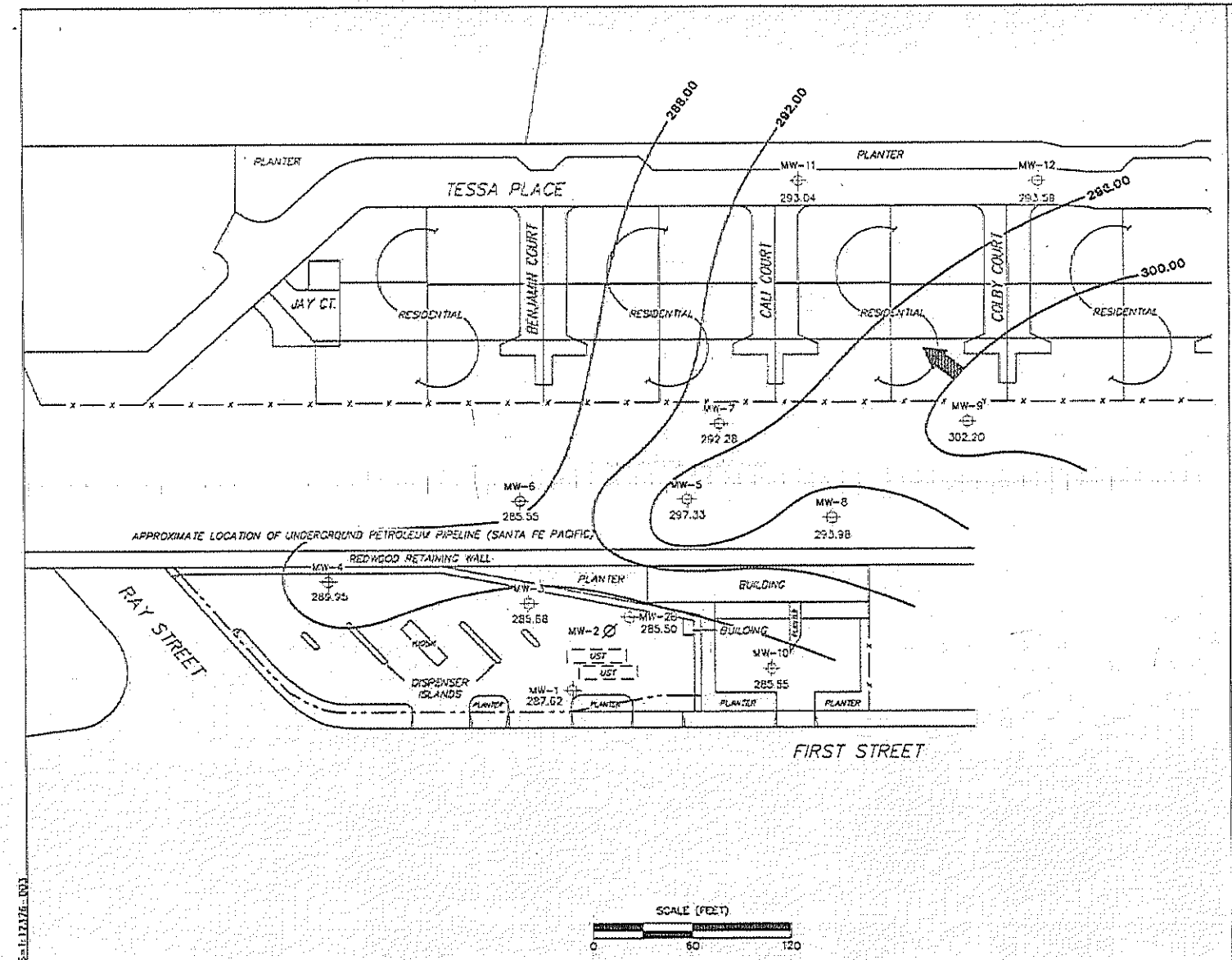
76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

PS=1:1376-003

Graphics on W:\(C)\GRAPHICS\Projects By...\20-xxxx\20-0400\7376+.dwg 01/14/05 pjg



N

LEGEND

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

MW-2 ⊘ Abandoned well

300.00 —— Groundwater Elevation Contour

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

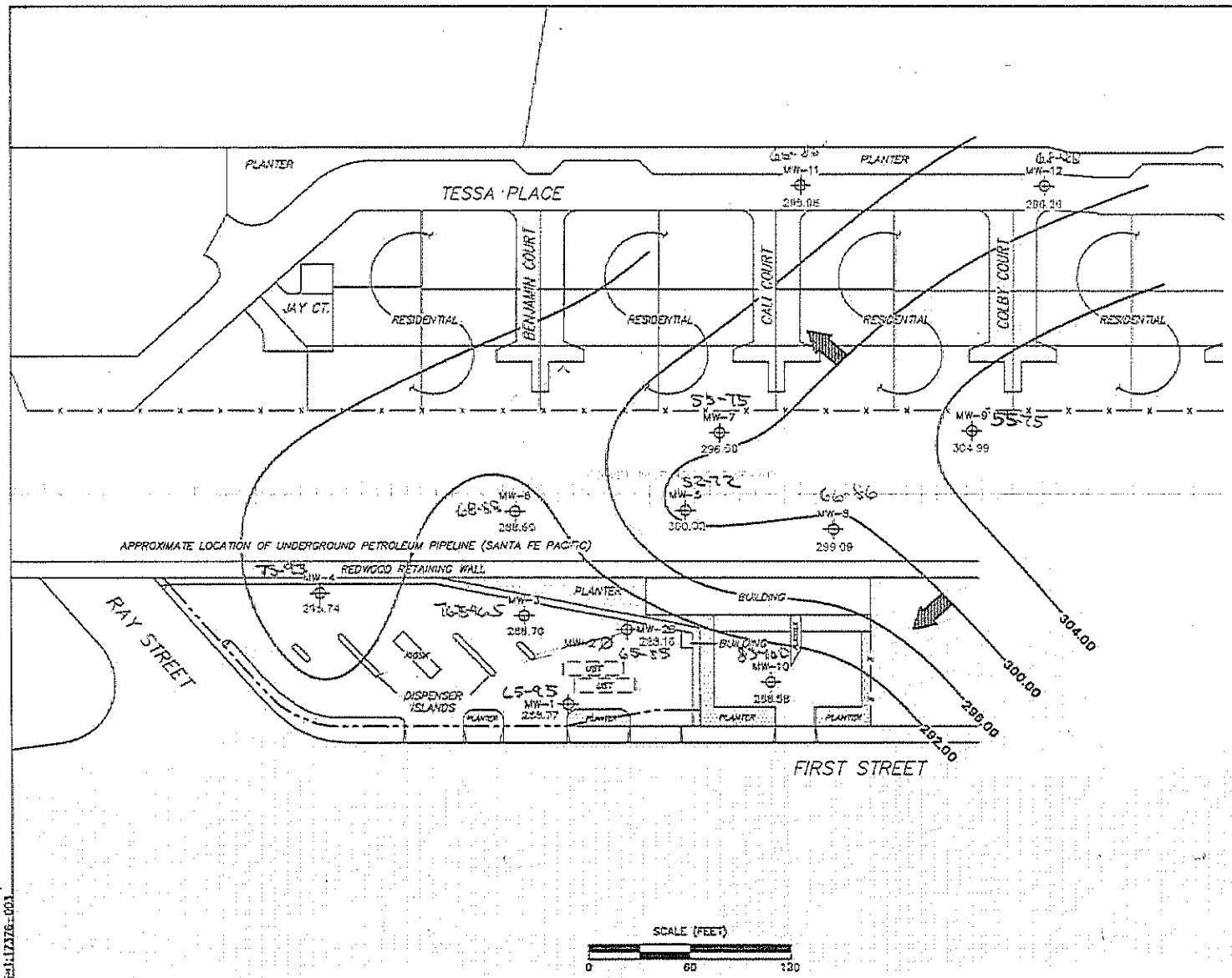
76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

PS=1:7376_GW3

L:\Graphics\Projects\ByNumber\20-xxxx\20-0400\Unocal\DMS2\1x-7000\7376+\7376gms.dwg Apr 20, 2005 - 3:21pm pgunderson



LEGEND

- MW-12 ⊕ Monitoring Well with Groundwater Elevation (feet)
- MW-2 Ø Abandoned well
- 304.00 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.

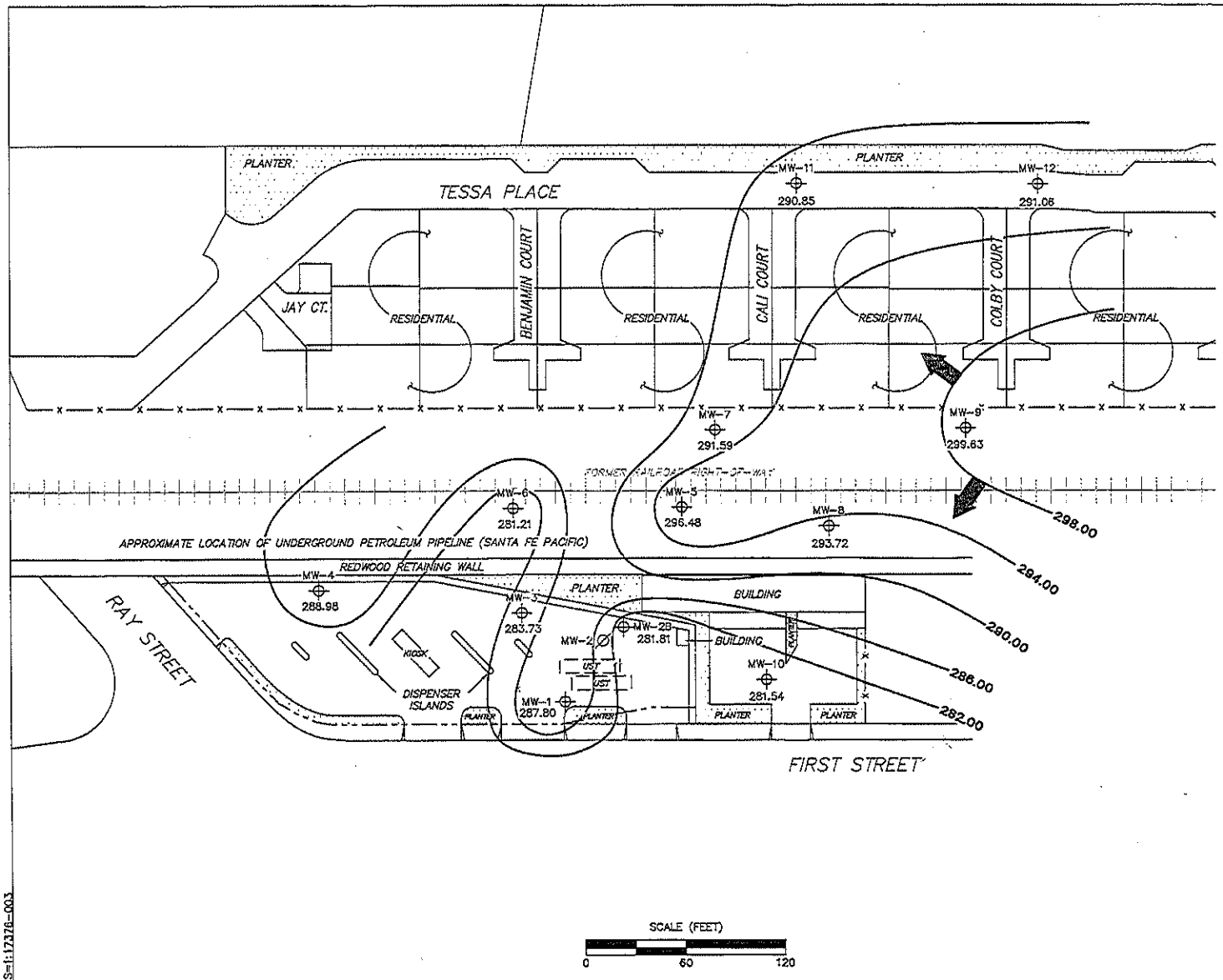
GROUNDWATER ELEVATION CONTOUR MAP
June 15, 2005

76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

L:\Graphics\Projects By Number\20-xxxx\20-0400(Unocal0403)\-7000\7376+\7376qms.dwg Jul 12, 2005 - 8:11am mesten



N

LEGEND

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

MW-2 Ø Abandoned well

298.00 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
Sepember 20, 2005

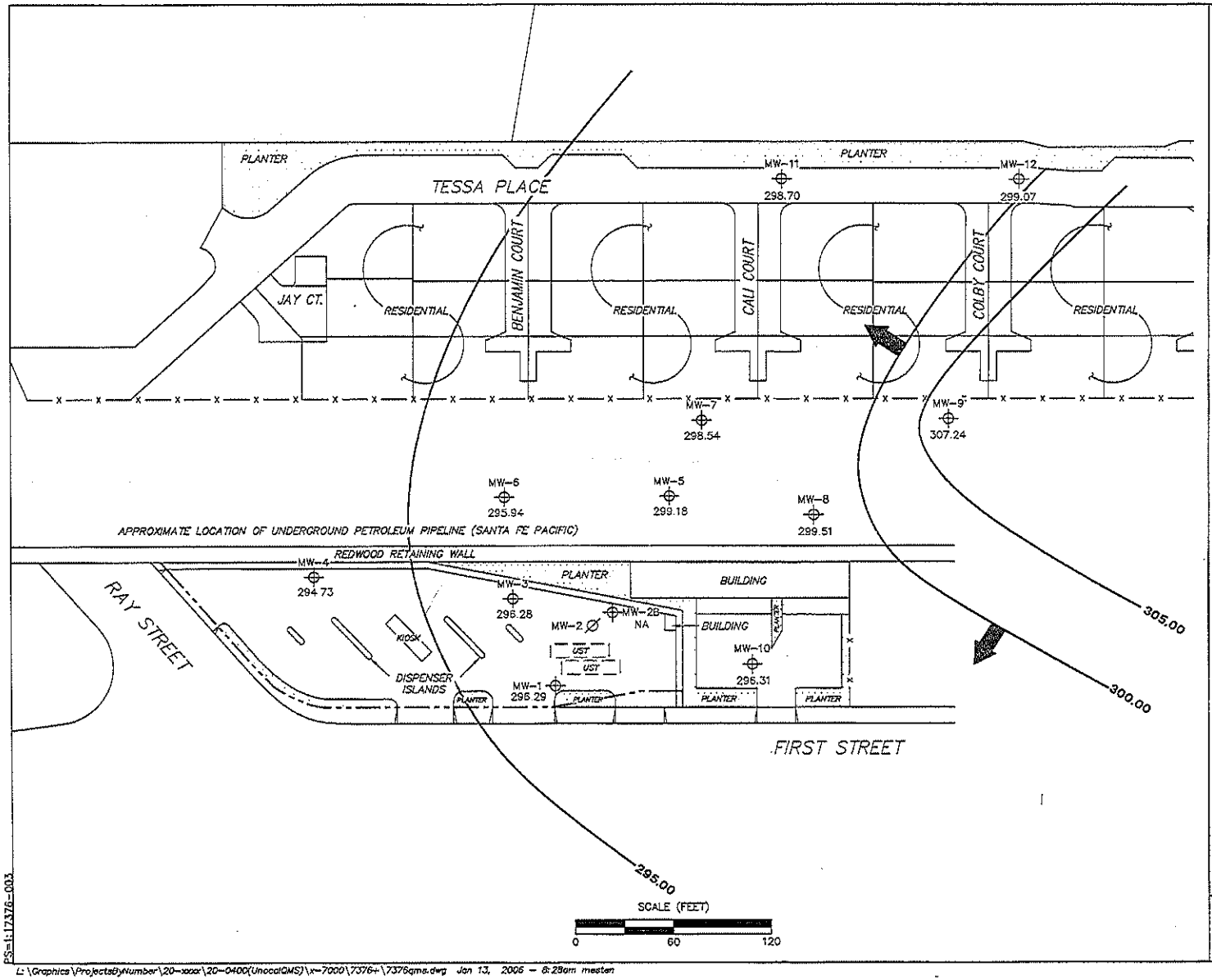
76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

PS=1:17376-003

L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalOMS)\x-7000\7376+\7376qms.dwg Oct 10, 2005 - 8:26am mwren



N

LEGEND

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

MW-2 Ø Abandoned well

305.00 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. NA = not analyzed, measured, or collected. UST = underground storage tank.

GROUNDWATER ELEVATION CONTOUR MAP
December 29, 2005

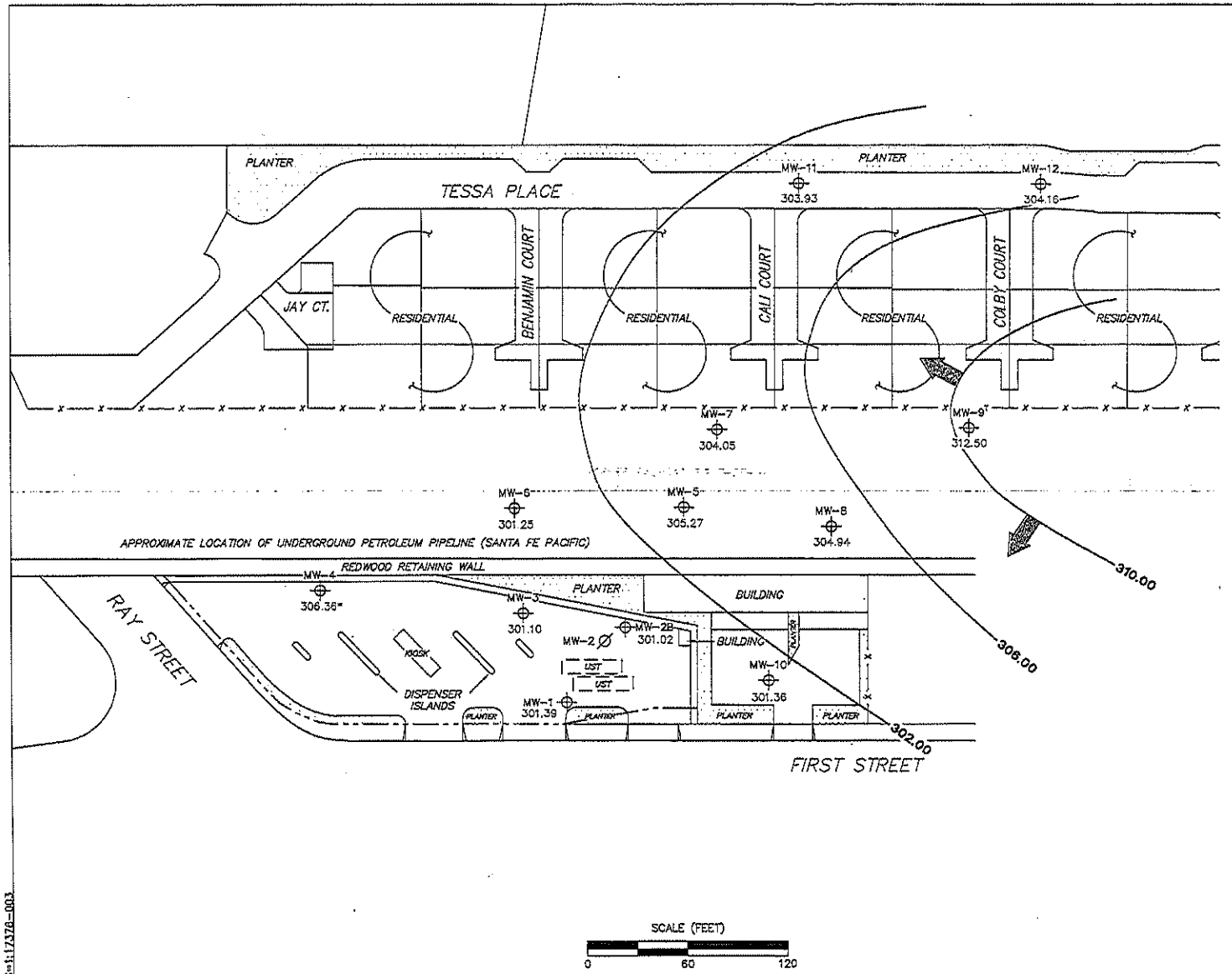
76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

PS=1:17376-003

L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-7000\7376+\7376qms.dwg Jan 13, 2006 - 8:28am mesten



N

LEGEND

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

MW-2 Ø Abandoned well

310.00 —— 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. * = not included in groundwater contour interpretation.

GROUNDWATER ELEVATION CONTOUR MAP
March 15, 2006

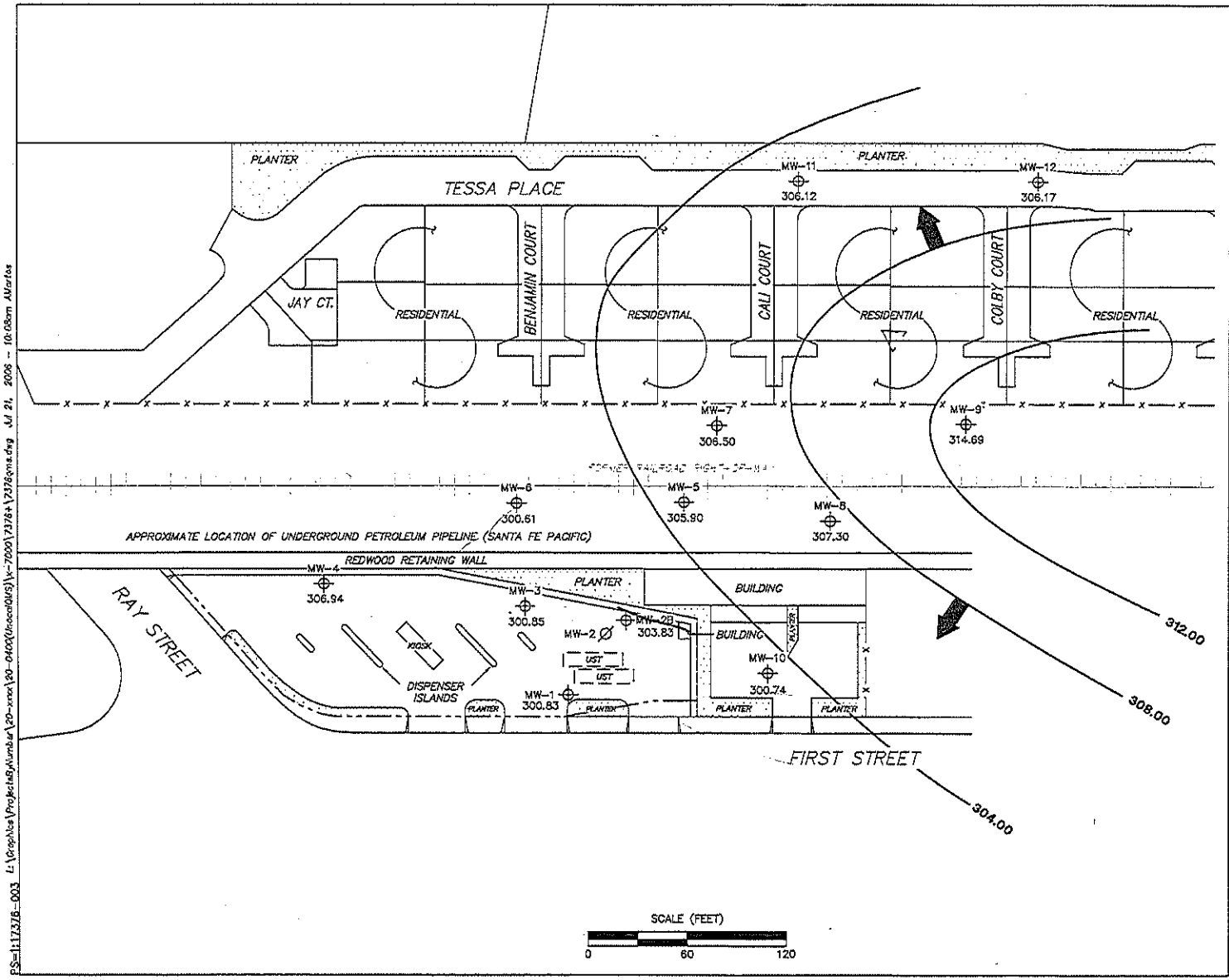
76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

PS=1:17376-003

\\IRVINE-FS1\Graphics\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-7000\7376+\7376gma.dwg Apr 04, 2006 - 2:37pm bachmidt



N

LEGEND

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

MW-2 ∅ Abandoned well

312.00 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.

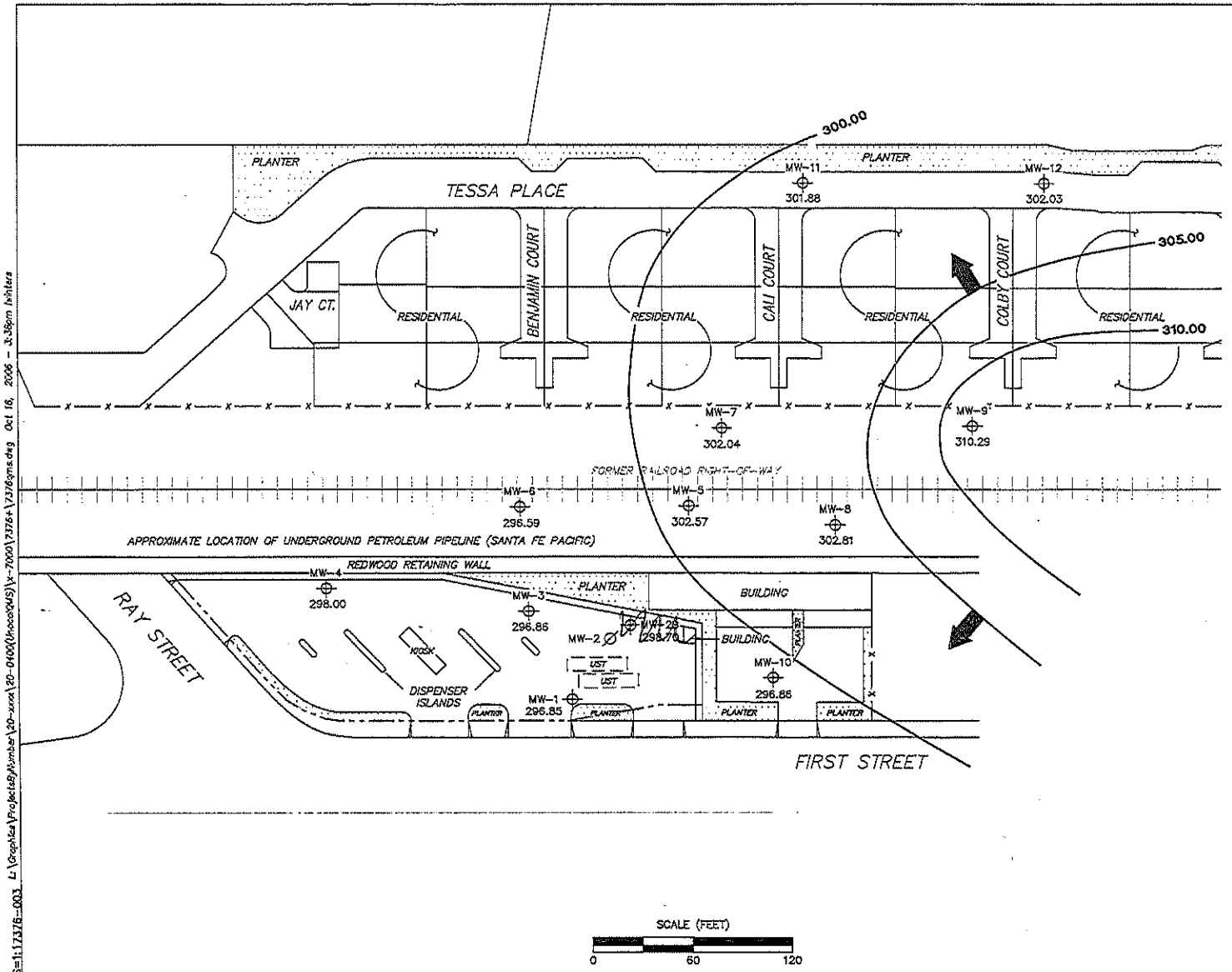
GROUNDWATER ELEVATION CONTOUR MAP
June 28, 2006

76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

PS=1:17376-003 L:\Graphics\Projects\Burlington\20-xxxx\20-0400\Acad\dgn\7000\7376\7376gms.dwg Jul 21, 2006 - 10:08am AMartes



LEGEND

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

MW-2 ∅ Abandoned well

310.00 —— Groundwater Elevation Contour

General Direction of Ground water 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.

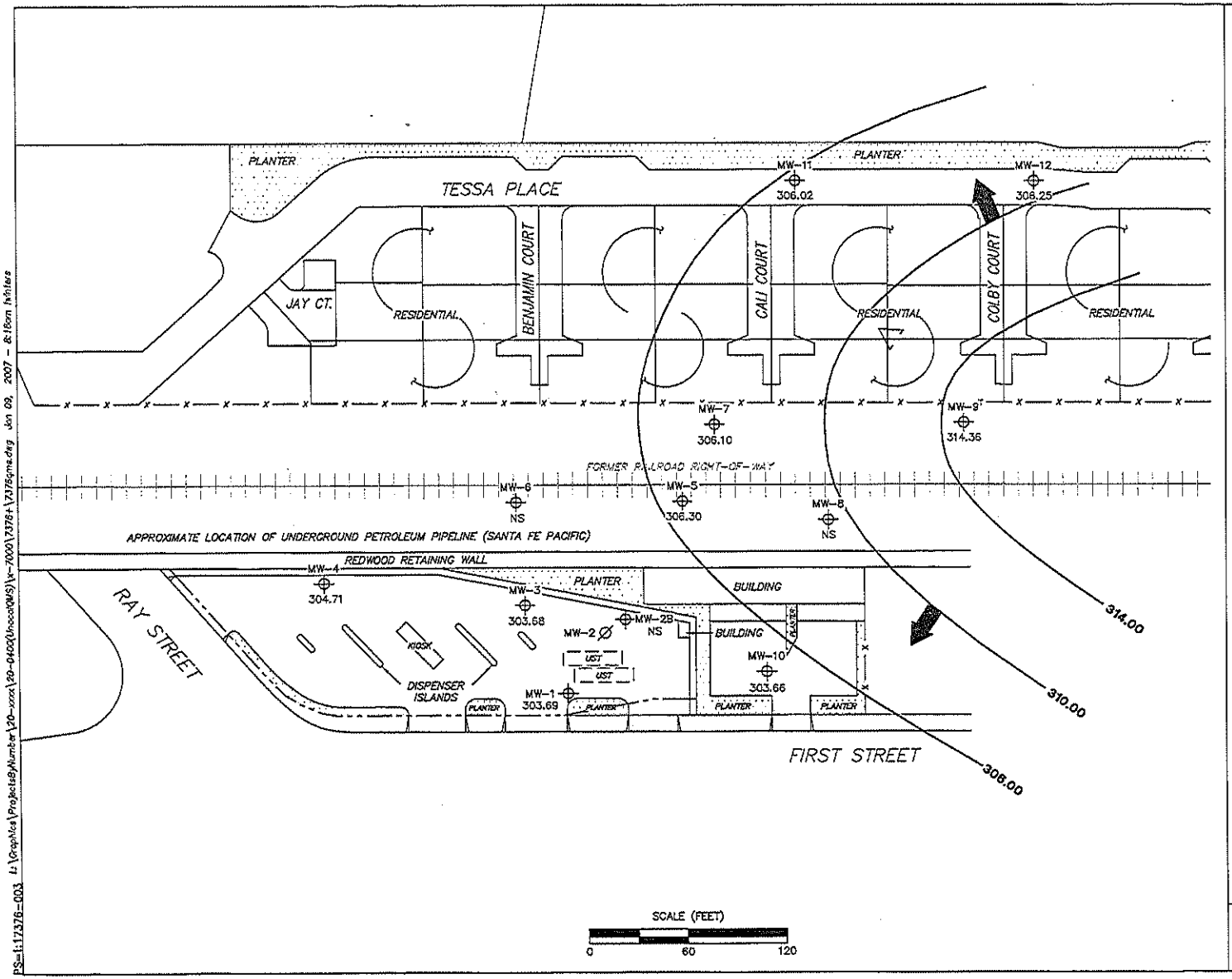
GROUNDWATER ELEVATION CONTOUR MAP
September 28, 2006

76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

PS=1:173376--001 L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(Unocal)\X-7000\7376+\7376gma.dwg Oct 16, 2006 - 3:39pm hinters



N

LEGEND

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

MW-2 Ø Abandoned well

314.00 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. NS = not surveyed.

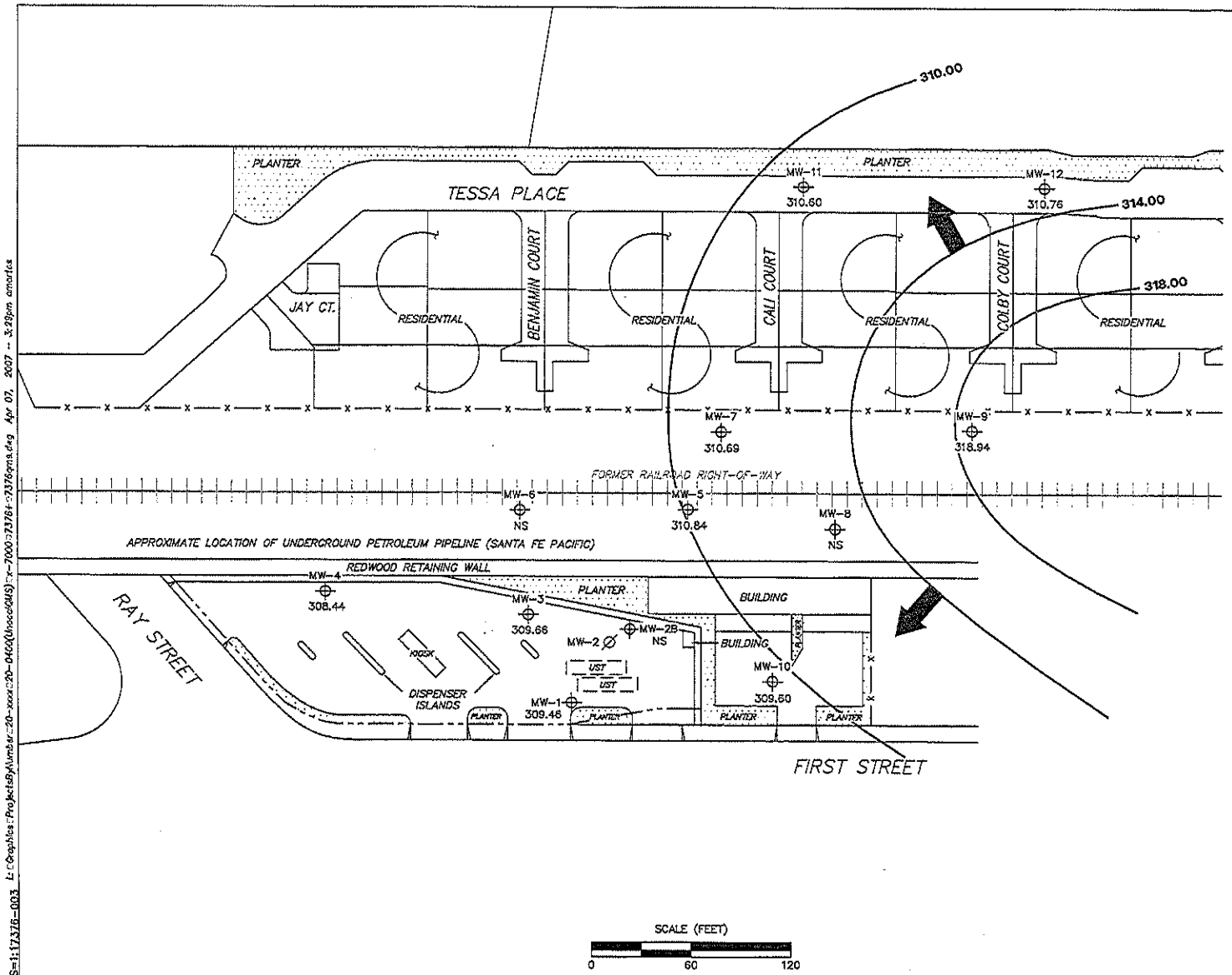
GROUNDWATER ELEVATION CONTOUR MAP
December 11, 2006

76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

PS=1:17376-003 L:\Graphics\Projects\Number\20-xxxx\20-0400\Unocal\GWS\yr-2000\7376+\7376gma.dwg Jan 09, 2007 - 8:18am hhiters



LEGEND

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

MW-2 ∅ Abandoned well

318.00 — 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. NS = not surveyed.
UST = underground storage tank.

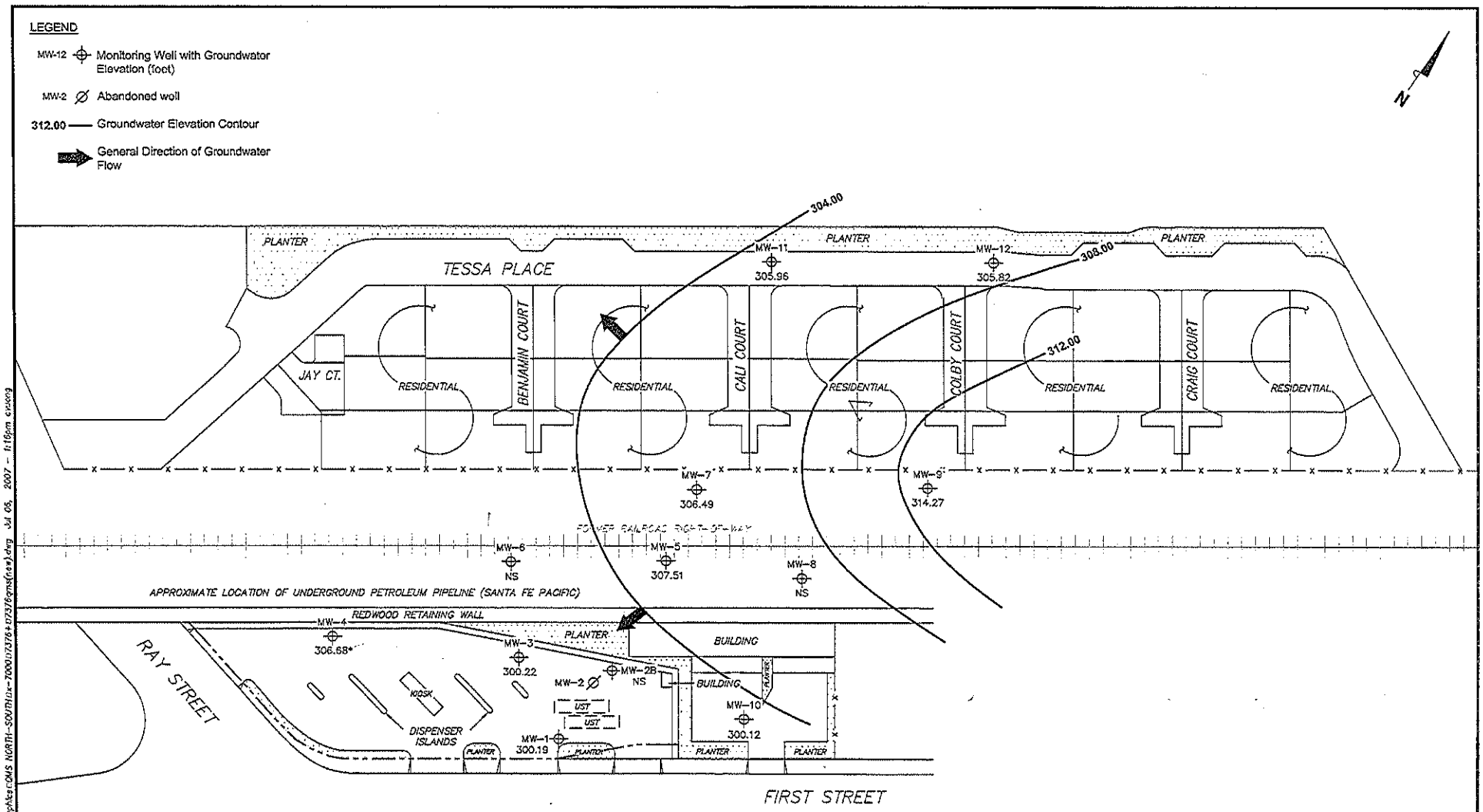
GROUNDWATER ELEVATION CONTOUR MAP
March 19, 2007

76 Station 7376
4191 First Street
Pleasanton, California

TRC

FIGURE 2

PS=1;17376-003 L:\Graphics\Projects\Number\20-xxxx\20-0460(Uhscc04US)\x-7000\73764-73376gma.dwg Apr 02, 2007 - 3:39pm amartes



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NS = not surveyed. * = not included in groundwater contour interpretation. UST = underground storage tank.

SCALE (FEET)
0 60

TRC

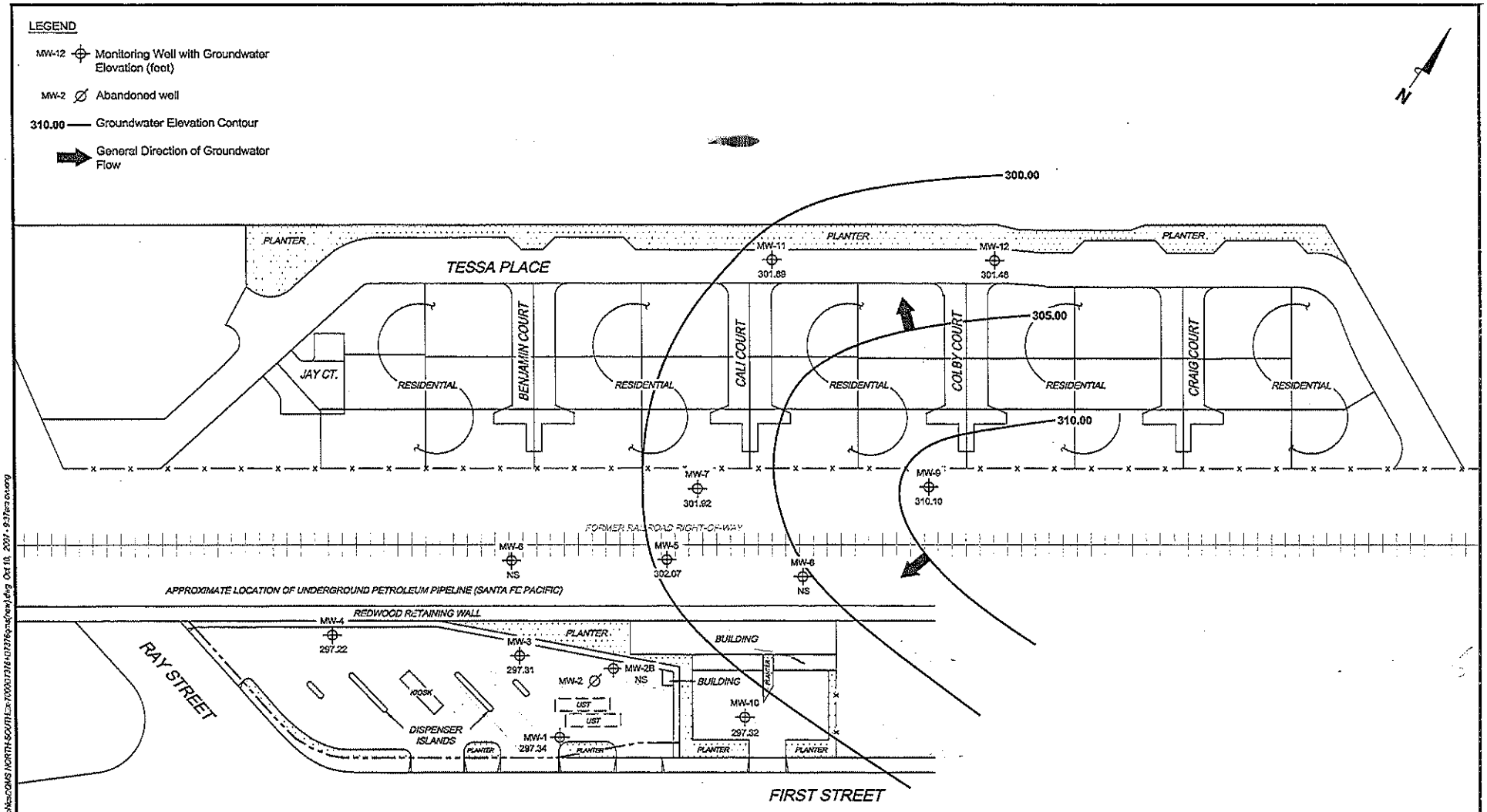
PROJECT: 125703

FACILITY:
76 STATION 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
June 15, 2007

FIGURE 2

MS-1:60 7376-003 L:\Geoprobe\GMS NORTH-SOUTH\x-7000\7376\7376gms(new).dwg Jul 05, 2007 - 1:16pm cwong



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NS = not surveyed. UST = underground storage tank.

SCALE (FEET)
0 60

TRC

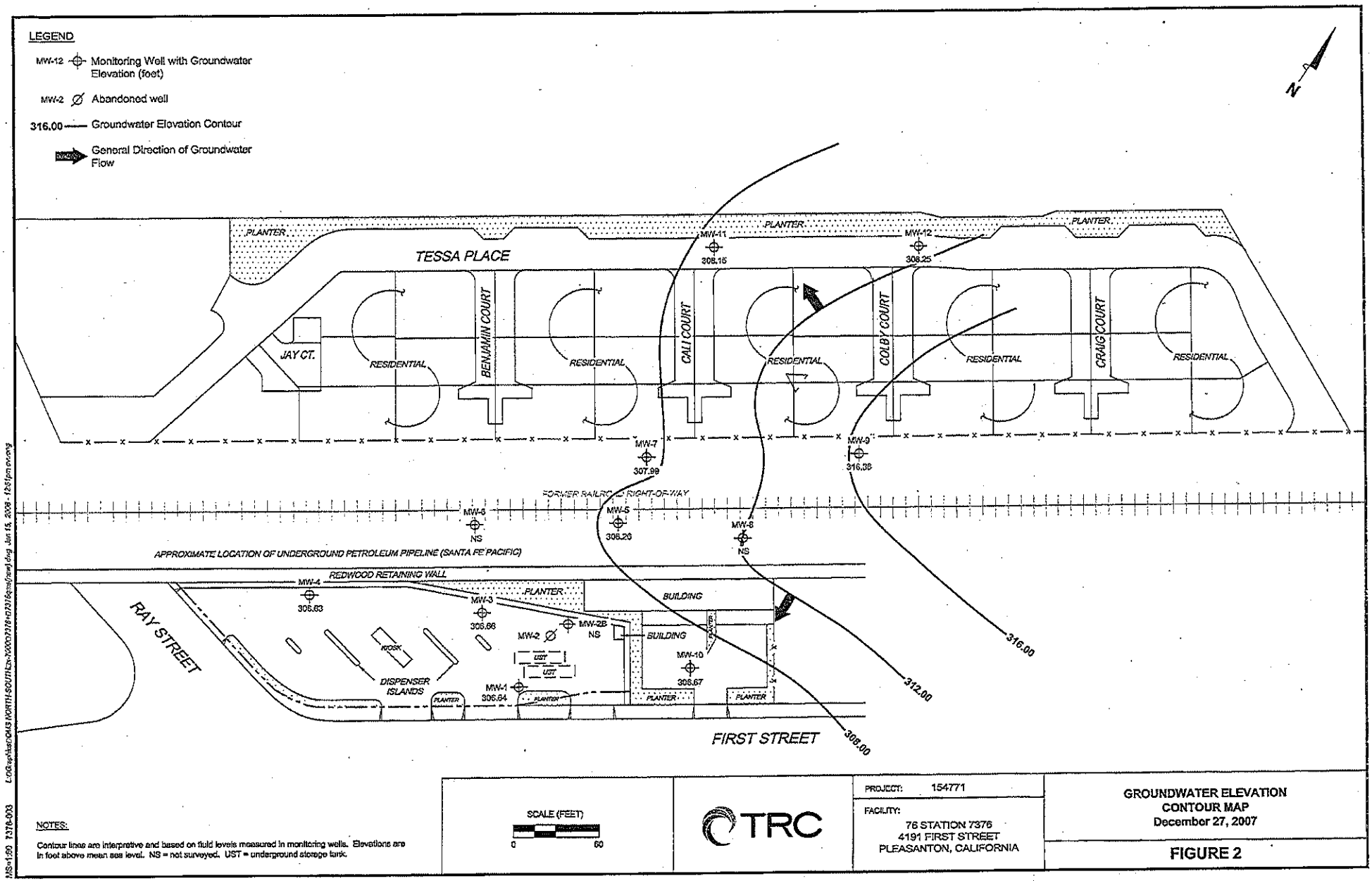
PROJECT: 125703

FACILITY:
76 STATION 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
September 24, 2007

FIGURE 2

MS-1150 7376-003 L:\Graphics\ONHS NORTH-SOUTH\Ex-7000\7376\7376gw[eve]dwg Oct 10, 2007 - 8:37am cwong



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NS = not surveyed. UST = underground storage tank.

SCALE (FEET)
0 60

TRC

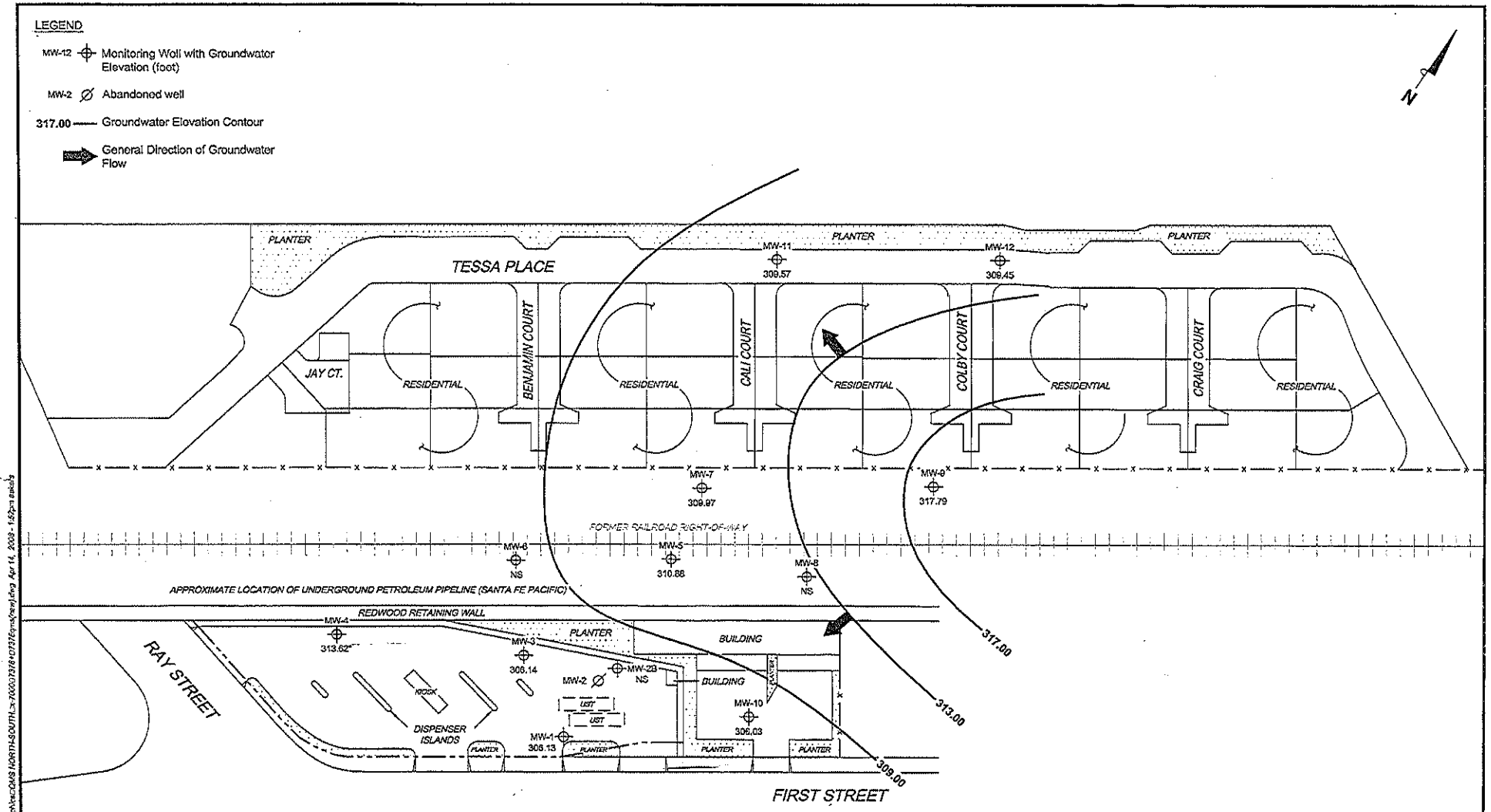
PROJECT: 154771

FACILITY:
76 STATION 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
December 27, 2007

FIGURE 2

MS=1:60 7376-003 L:\Gis\apps\data\GMS NORTH-SOUTH\Ex-7000\7376\n7376gmsf(new).dwg Jan 15, 2008 - 12:51pm evong



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NS = not surveyed. * = not included in contour interpretation. UST = underground storage tank.

SCALE (FEET)
0 60

TRC

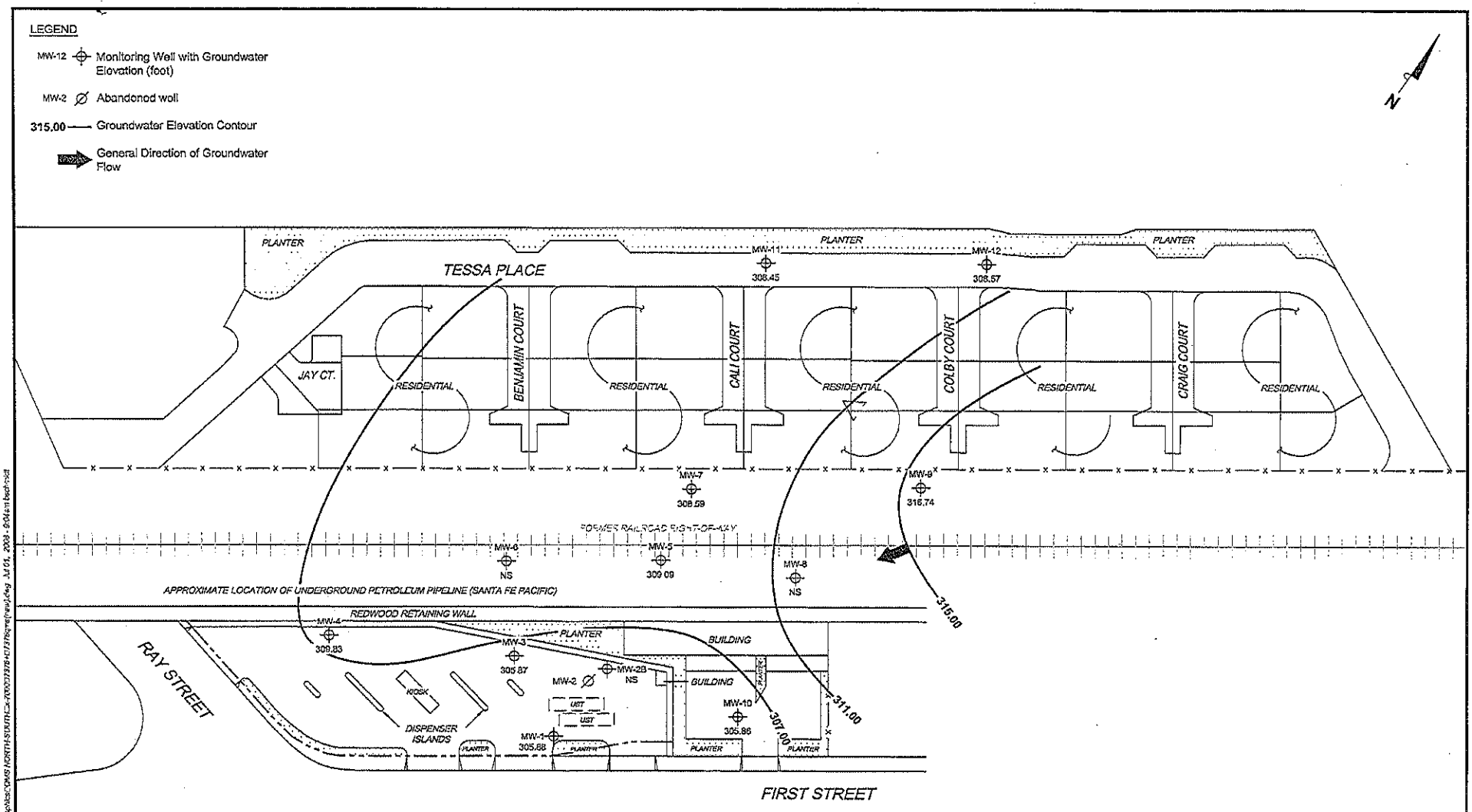
PROJECT: 154771

FACILITY:
76 STATION 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
March 25, 2008

FIGURE 2

MS=1:60 7376-003 L:\Graphics\CAD\SITE\7376\7376-003\7376-003 APR 08.dwg Apr 14, 2008 - 1:52pm aakers



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NS = not surveyed. UST = underground storage tank

SCALE (FEET)

0 60

TRC

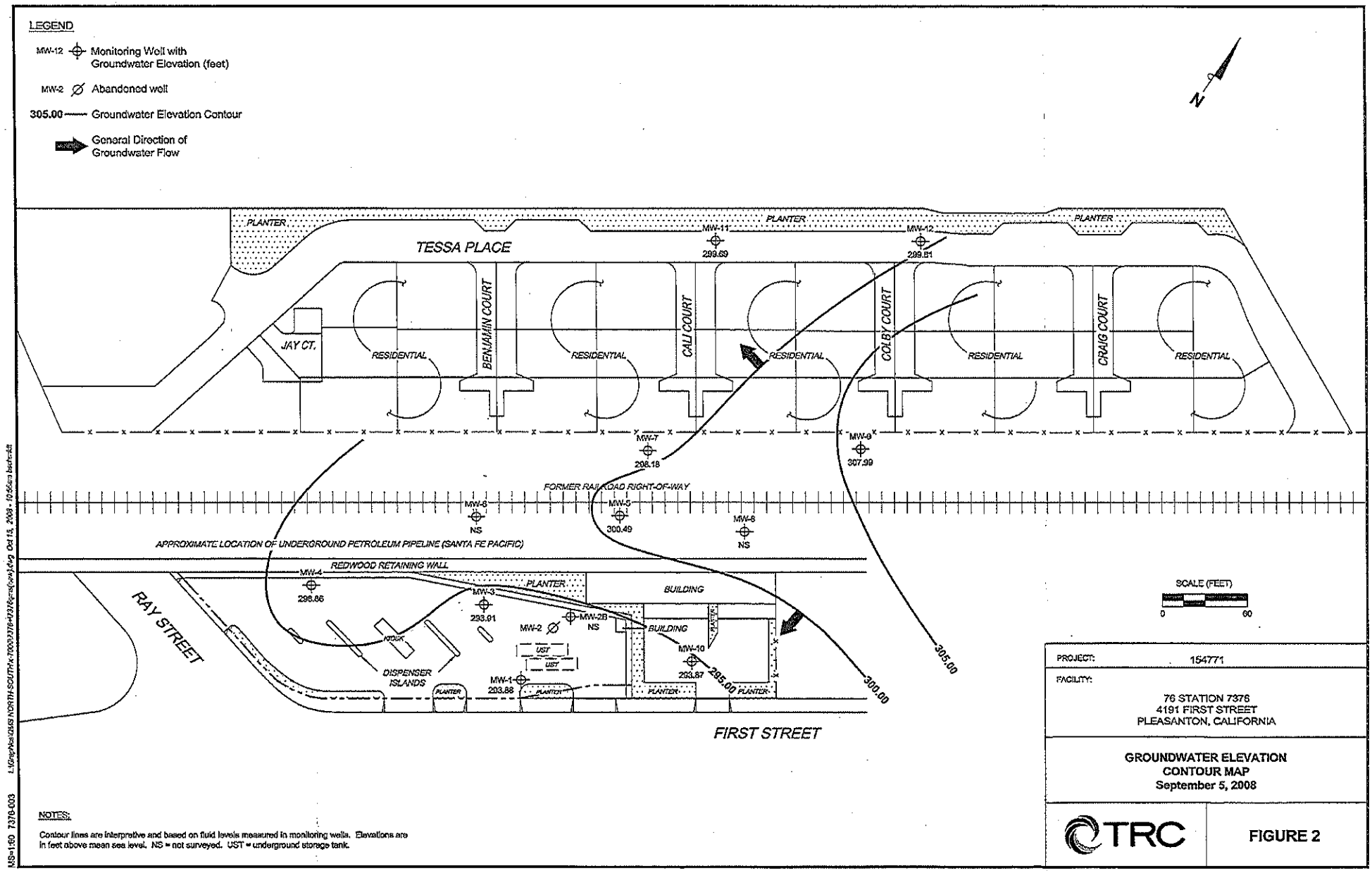
PROJECT: 154771

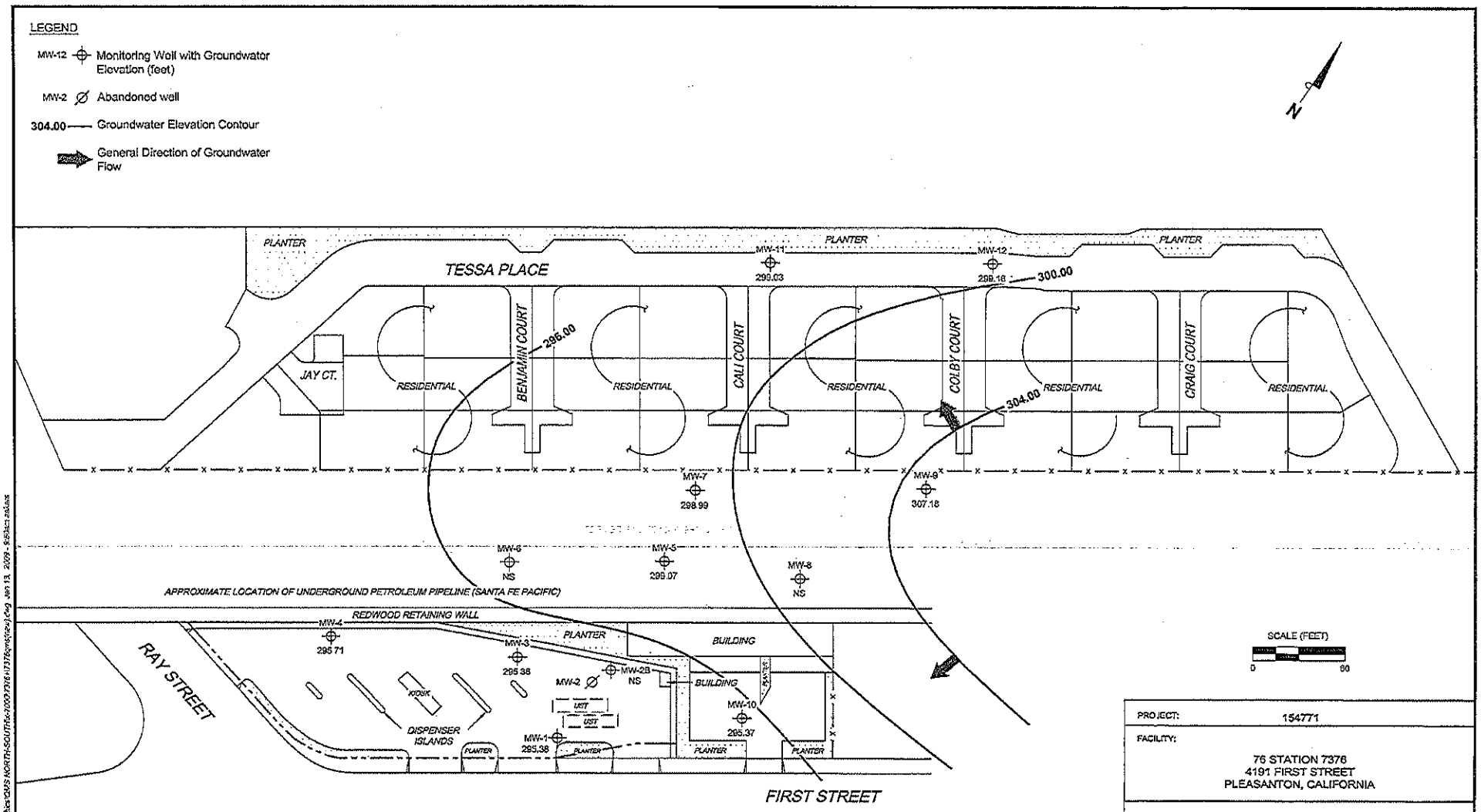
FACILITY:
76 STATION 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
June 6, 2008

FIGURE 2

NS=150 7376-003 L:\Graphics\JOBS\NORTH\SOUTH\CA7000\7376\cmp\[new].dwg Jul 01, 2008 - 8:04am tschmidt


LEGEND
MW-12 Monitoring Well with Groundwater Elevation (feet)
MW-2 Abandoned well
305.00 Groundwater Elevation Contour
General Direction of Groundwater Flow
N
PLANTER
TESSA PLACE
MW-11
299.69
MW-12
299.81
JAY CT.
RESIDENTIAL
BENJAMIN COURT
CALI COURT
COLBY COURT
CRAIG COURT
MW-7
298.18
MW-9
307.99
FORMER RAILROAD RIGHT-OF-WAY
MW-6
NS
MW-5
300.49
MW-8
NS
APPROXIMATE LOCATION OF UNDERGROUND PETROLEUM PIPELINE (SANTA FE PACIFIC)
REDWOOD RETAINING WALL
MW-4
298.86
MW-3
293.91
MW-2B
NS
MW-2
BUILDING
MW-10
293.87
RAY STREET
DISPENSER ISLANDS
MW-1
293.88
UST
305.00
300.00
295.00
FIRST STREET
SCALE (FEET)
0
60
PROJECT: 154771
FACILITY:
76 STATION 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA
GROUNDWATER ELEVATION CONTOUR MAP
September 5, 2008
TRC
FIGURE 2
NOTES:
Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NS = not surveyed. UST = underground storage tank.
MS=1:60 7376-003 L:\Graphics\DWG\NORTH-SOUTH\x-7000\7376-413\6\gcm[cpm3.dwg Oct 15, 2008 - 10:55am bschmidt

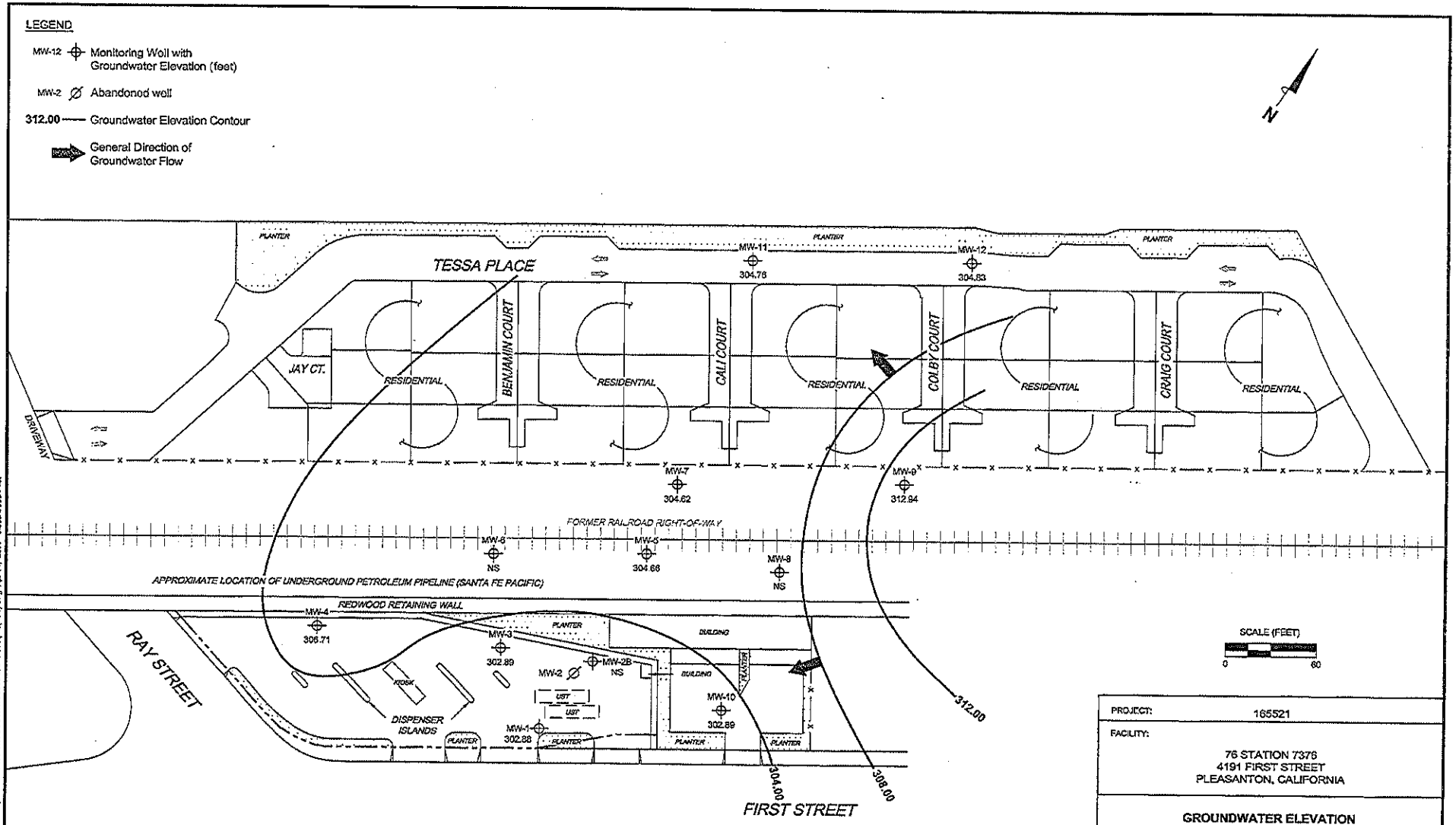


NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NS = not surveyed UST = underground storage tank.

PROJECT:	154771
FACILITY:	76 STATION 7376 4191 FIRST STREET PLEASANTON, CALIFORNIA
	GROUNDWATER ELEVATION CONTOUR MAP December 8, 2008
TRC	FIGURE 2

MS=1:60 7376-003 L:\Graphics\GIS\MS NORTH-SOUTH\ms-7000\7376\mxd\7376gw(s2-jr).mxd Jan 13, 2009 - 9:53:21 AM


LEGEND
MW-12 Monitoring Well with Groundwater Elevation (feet)
MW-2 Abandoned well
312.00 Groundwater Elevation Contour
General Direction of Groundwater Flow
N
TESSA PLACE
JAY CT.
BENJAMIN COURT
CALI COURT
COLBY COURT
CRAIG COURT
RESIDENTIAL
PLANTER
DRIVEWAY
MW-11
304.76
MW-12
304.83
MW-7
304.62
MW-9
312.94
FORMER RAILROAD RIGHT-OF-WAY
MW-6
NS
MW-5
304.66
MW-8
NS
APPROXIMATE LOCATION OF UNDERGROUND PETROLEUM PIPELINE (SANTA FE PACIFIC)
REDWOOD RETAINING WALL
MW-4
306.71
MW-3
302.89
MW-2
MW-2B
NS
BUILDING
MW-10
302.89
RISER
DISPENSER ISLANDS
UST
MW-1
302.88
RAY STREET
FIRST STREET
312.00
308.00
304.00
SCALE (FEET)
0
60
PROJECT: 165521
FACILITY:
76 STATION 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA
GROUNDWATER ELEVATION CONTOUR MAP
March 26, 2009
TRC
FIGURE 2
NOTES:
Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level NS = not surveyed. UST = underground storage tank
MS=1:60 7376-003 L:\Graphics\BAS NORTH-SOUTH\x-7000\7376-003\Figs\sheet1.dwg Apr 14, 2009 - 8:33am bschmidt