



Shell Oil Products US

December 17, 2004

Robert W. Schultz, R.G.
Hazardous Materials Specialist
Department of Environmental Health
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Alameda County
DEC 20 2004
Environmental Health

RE: Shell-branded Service Station at 8999 San Ramon Blvd., Pleasanton, California

Dear Mr. Schultz:

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

Please call me at (559) 645-9306 if you have any questions.

Best Regards,
Shell Oil Products US

Karen Petryna, P.E.
Sr. Environmental Engineer
HSEQ/Science & Engineering

Attached - Delta Environmental Consultants, Inc., Work Plan, Shell-branded Service Station
8999 San Ramon Road, Dublin, California, dated December 17, 2004



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December 17, 2004
Project SJ8999-1.2004

Mr. Robert Schultz
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Work Plan
Shell-branded Service Station
8999 San Ramon Road
Dublin, California

Dear Mr. Schultz,

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared this work plan for a soil and groundwater investigation at the site referenced above (Figure 1). In a letter dated November 3, 2004, the Alameda County Health Care Services Agency (ACHCSA) provided comments regarding the report prepared by Cambria Environmental Technology, Inc. (Cambria) titled *Dispenser and Piping Upgrade and Over-Excavation Sampling Report* dated October 13, 2004. The ACHCSA requested that Shell provide additional information regarding the removal of soil containing free product, requested a regional geologic and hydrogeologic study be performed, requested a 2,000-foot radius well survey, and required that Shell submit a soil and groundwater investigation work plan by December 18, 2004. The results of the regional geologic and hydrogeologic study and the well survey were required to be included in the work plan. The following work plan has been prepared in response to the various requests contained in the ACHCSA letter dated November 3, 2004. Cambria is preparing a separate letter containing the requested information related to the removal of soil containing free product.

BACKGROUND

The subject property is located on the east side of the intersection of Alcosta Boulevard and San Ramon Road intersection in Dublin, California (Figure 2). The property is currently the site of an active Shell-branded service station.

The Shell service station has four 10,000-gallon gasoline underground storage tanks (USTs), three fuel dispenser islands with a total of seven separate fuel dispensers, a carwash, and a kiosk (Figure 2). The site is located in an area characterized as commercial.

In July 2004, fuel dispensers were removed by Wayne Perry Construction, Inc. (Wayne Perry). On July 30, 2004, Cambria collected seven soil samples (D-1 through D-7) of native material beneath the former dispensers at a depth of approximately 2.5 feet below grade (bg). A soil sampling location map and summary table of analytical results are provided as Attachment A. Total petroleum hydrocarbons as gasoline (TPH-G) were detected in two of the seven samples; D-1-2.5 (17 milligrams per kilogram (mg/kg)) and D-4-2.5 (4,700 mg/kg). Methyl tert-butyl ether (MTBE) was detected in four samples (D-1, 5, 6, and 7) at concentrations ranging from 0.038 mg/kg to 9.0 mg/kg (D-5). Tert-butanol (TBA) was detected in the same four samples at concentrations ranging from 0.062 mg/kg to 20 mg/kg (D-6).

The California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) has established environmental screening levels (ESLs) for contaminants commonly detected in soil. The ESLs for contaminants detected in shallow site soils are:

- TPH-G and TPH-D = 100 mg/kg
- Benzene = 0.044 mg/kg
- MTBE = 0.023 mg/kg
- TBA = 0.073 mg/kg

On August 25, 2004, Cambria collected eight soil samples (P-1 through P-8) from beneath product piping at depths between 3.5 to 5 feet bg. During product piping removal, "free product, strong odors, and staining were observed beneath the geo-textile fabric near sample location P-1" (see maps in Attachment A). Cambria has communicated to Delta, that the sample location should have been identified as P-6 (also mislabeled on Cambria Figure 4, Attachment A). Wayne Perry removed "as much separate phase hydrocarbons (SPH) as possible." On August 27, 2004, Cambria oversaw the excavation of the area where SPH had been observed. Soil was removed from an area approximately 10 feet by 10 feet and 7.5 feet deep. During the excavation activities no free product was observed. "However, staining and odors were observed in soil that appeared to be damp to moist with product just beneath the geo-textile lining, between the native soil and pea-gravel backfill." TPH-G was not detected in a 5-foot sample from the excavation. MTBE was detected in the 5-foot sample at 4.2 mg/kg.

On August 27, 2004, Cambria collected additional soil samples from beneath the former product piping trenches. TPH-G was detected in a soil sample collected at a depth of 4 feet bg immediately south of the site kiosk at 3,900 mg/kg.

On September 2, 2004, Cambria oversaw the over-excavation of the product piping trenches and dispenser locations. The trenches were widened to between 3 and 4 feet horizontally, and deepened 1 to 2 feet in some locations. TPH-G was detected at greater than 100 mg/kg in samples from near dispensers D-4 and D-7. The highest concentration of MTBE was detected in a soil sample collected adjacent to the site kiosk (TX-12-3 at 1.2 mg/kg). Soil was removed from an area approximately 10 feet by 10 feet and 5 feet deep

in the vicinity of the southeastern-most dispenser (D-7). "Heavy odors" and staining were observed during excavation activities.

Soil sampling location maps and a summary table of analytical results are provided as Attachment A. Based on soil analytical data, Cambria concluded the following:

- The highest hydrocarbon concentrations are located southeast of the kiosk building and in the vicinity of the dispenser located west of the kiosk (D-4).
- Over-excavation appears to have removed all free product present.
- Hydrocarbons in soil appear to attenuate vertically, with a clay layer extending to a depth of at least 10 feet bg acting as an impermeable barrier to hydrocarbon transport.
- Analysis of excavation sidewall samples indicates that hydrocarbon concentrations are not fully defined laterally to the east of sample SW-6-2.5 (northeast portion of the site, adjacent to the site kiosk).
- Hydrocarbon concentrations area not fully defined vertically in the vicinity of each fuel dispenser and in the vicinity of piping trench soil sample TX-8-4.5, adjacent to the site kiosk.

HYDROGEOLOGIC SETTING

The ACHCSA, in its letter dated November 3, 2004, requested that Shell perform a study of the regional geologic and hydrogeologic setting of the site. The following specific items were requested:

- a concise narrative discussion of the regional geologic and hydrogeologic setting;
- figure(s) summarizing findings;
- synthesis and interpretation of regional data with the site-specific data;
- references for documents used and;
- photocopies of regional geologic maps, groundwater contour maps, cross-sections, etc.

Regional Geology

The site is located in the northwest portion of the Livermore Valley Groundwater Basin (see Basin 2-10, Groundwater Basins in California Map, Attachment B). A description of the Livermore Valley Groundwater Basin (Basin) is provided in California Department of Water Resources (DWR) Bulletin 118. The following are excerpts from Bulletin 118:

"The entire floor of Livermore Valley and portions of the upland areas on all sides of the valley overly groundwater-bearing materials. The materials are continental deposits from alluvial fans, outwash plains, and lakes. They include valley-fill materials, the Livermore Formation, and the Tassajara Formation."

"The Holocene age surficial valley-fill materials range in thickness from a few tens of feet to nearly 400 feet. They occur as stream channel deposits, alluvial fan deposits, and terrace deposits,

and are composed of unconsolidated sand, gravel, silt, and clay. In the central and southern portions of the valley, 50 to 80 percent of the valley-fill is comprised of aquifer material that yields significant quantities of water to wells. Clay deposits up to 40 feet thick cap the valley-fill in the western portion of the Basin; where deep wells draw groundwater from underlying aquifer material.”

The site is located in the western portion of the Basin and thus surficial deposits consist primarily of clay. Delta requested Water Well Drillers Reports (Reports) from the DWR for the site area (2,000-foot radius). The DWR provided Well Drillers Reports for fifteen wells. The distance of the wells to the site ranged from approximately 2,500 feet to over 3 miles. Copies of the Reports are considered confidential and were not included with this report. Copies of the Reports are on file in Delta’s San Jose, California office. Depth of wells ranged from 15 to 600 feet in depth. The closest wells to the site were three groundwater monitoring wells installed in 1989 at a Mobil Oil service station at 8998 Alcosta Boulevard, approximately 2,500 to the east (Figure 3). The borings for the wells encountered 3 to 6 feet of sand underlain by clay that extended to the total 36-foot depth of the borings.

The nearest deep wells to the site were Well 02S01W35K01 located approximately 2,500 feet south of the site and Well 02S01W26H located on the San Ramon Valley Golf Course approximately 3,650 feet east of the site (Figure 3). The Report for the first well gives the following description of soil types encountered to a depth of 130 feet bg:

- 0 to 5 feet bg – top soil
- 6 to 54 feet bg – brown clay
- 54 to 65 feet bg – brown clay and gravel
- 65 to 75 feet bg – brown clay
- 75 to 80 feet bg – brown clay and gravel
- 80 to 130 feet bg – brown clay

The log for the well east of the site (02S01W26H) provides the following description for the first 110 feet of soils penetrated:

- 0 to 30 feet bg – brown clay and gravel
- 30 to 80 feet bg – clay
- 80 to 85 feet bg – gravel
- 85 to 110 feet bg – clay

Site geologic conditions are consistent with regional information. Clay deposits dominate the upper 100 feet of the soil column. Cambria, in their reported dated October 13, 2004, state “Soils encountered at the site consisted of sand to a depth of approximately 3 to 4.5 feet bgs [below ground surface], underlain by clay.” Cambria found that the clay layer was encountered consistently during the over-excavation and sampling activities at the site.

Regional Hydrogeology

Delta obtained regional hydrogeologic information from the Alameda County Flood Control and Water Conservation District, Zone 7 (Zone 7). A schematic hydrogeologic cross-section was obtained from the Zone 7 website showing the shape of the Livermore Valley groundwater basin and depth to groundwater (see cross-section in Attachment B). DWR Bulletin 118 describes hydrogeologic conditions as:

“Under most conditions, the valley-fill and Livermore sediments yield adequate to large quantities of groundwater to all types of wells. The quality of water produced from these rocks range from poor to excellent, with most waters in the good to excellent range.”

A groundwater elevation contour map prepared by Zone 7 for the fall of 2003, is provided in Attachment B. Depth to groundwater in what is referred to as the “Upper Aquifer” is approximately 135 feet in the site area. This depth was calculated by Delta based on a ground surface elevation of 425 feet above mean sea level (msl) at the site (Figure 1) and a groundwater elevation of 290 feet from the Zone 7 groundwater elevation contour map. The groundwater elevation on the contour map appears to be associated with an aquifer beneath the primarily clay surficial deposits in the site area. Groundwater production wells in the site area are screened at depths ranging from 146 to 562 feet bg. The groundwater elevation contour map indicates that the groundwater flow direction in the “Upper Aquifer” beneath the site area is to the north-northeast.

Well Reports obtained from DWR for groundwater monitoring wells indicate the presence of shallow perched groundwater in clay deposits at a depth of approximately 20 feet bg). A Chevron service station is located across Alcosta Boulevard opposite the site (21320 San Ramon Valley, Boulevard). Delta obtained a site map and groundwater depth information from the California State Water Resources Control Board Geotracker database (see Attachment B). The station had three monitoring wells in March 2004. On March 15, 2004, depths to groundwater in site wells were 22.58, 22.85, and 25.30 feet bg. Delta determined that the groundwater flow direction in the perched groundwater was to the southeast based on the above data and well elevation information.

WELL SURVEY

The ACHCSA, in its letter dated November 3, 2004, requested that Shell “locate all wells (monitoring and production wells: active, inactive, standby, decommissioned, abandoned and dewatering, drainage and cathodic protection wells) within 2,000 feet of the subject site.” The ACHCSA recommended obtaining well information from both Zone 7 and the DWR.

Delta has reviewed well information located on the Zone 7 website and also contacted the agency by email and telephone. A map is available on the Zone 7 website that shows the location of their production wells in the Basin. A copy of the map (referenced as Figure 6-2) is provided in Attachment C. The nearest Zone 7 production well, designated Hopyard 6, is shown to be located approximately four miles south-southeast of the site. Delta requested from Zone 7, information regarding any wells within 2,000 feet of the site. Zone 7 provided Delta with an aerial photograph showing the location of all active and destroyed water supply and monitoring wells in the site area (see Well Location Map in Attachment C). Six well locations are shown. Four destroyed groundwater monitoring wells are shown opposite the site in San Ramon Road (red circles). These four wells were UST backfill wells. The wells were eleven feet deep and destroyed in 1997. Two water supply wells are also identified, however, both are located outside the 2,000-foot search radius. An active water supply well designated 2S/1W35L01 is shown to be located approximately 2,300 feet southwest of the site. Delta was unable to obtain a boring log for the well. The location of a destroyed irrigation well, designated 2S/1W35K01, is shown approximately 2,800 feet south of the site. The well was screened from 222 to 282 feet bg.

Delta submitted a 2,000-foot radius well survey request to the DWR. The DWR returned Water Well Drillers Reports for fifteen wells (see Table 1). None of the wells were found to be within 2,000 feet of the site. Three of the wells are associated with the San Ramon Valley Golf Course located over ½-mile east of the site. The three wells were all screened below a depth of 146 feet bg (see Table 1). Three of the wells were monitoring wells associated with a Mobil Oil service station (1989) located approximately 2,500 feet east of the site. The wells were 36 feet deep and screened from 16 to 36 feet bg. Depth to groundwater in 1989 was approximately 20 feet bg.

WORK PLAN

The following tasks are proposed to 1) determine the hydrogeologic conditions beneath the site and 2) define the lateral and vertical extent of petroleum hydrocarbons and MTBE in soil and groundwater. All work will be performed under the direction and supervision of a California Certified Hydrogeologist.

TASK 1 – PREFIELD ACTIVITIES

Prior to drilling, Delta will mark the locations of all borings, contact Underground Services Alert 48 hours prior to drilling, arrange the drilling schedule, and mobilize drilling equipment and materials. In addition, a utility locator contractor will be retained to perform a geophysical survey of the proposed boring locations. Each location will be air-knifed to a depth of approximately five feet to minimize the possibility of drilling equipment encountering underground utilities. Delta will prepare a site-specific health and safety plan prior to initiating field activities. Delta will obtain all required drilling permits prior to commencement of any fieldwork.

TASK 2 – COLLECTION OF SOIL AND GROUNDWATER SAMPLES

Delta proposes to use Geoprobe™ drilling equipment to sample soil and groundwater beneath the site at fourteen locations (GP-1 through GP-14, Figure 4). The drilling equipment will be provided and operated by Gregg Drilling (License C57- 485165).

Geoprobe™ borings are located adjacent to the site fuel dispensers and the product piping trenches where TPH-G, total petroleum hydrocarbon as diesel (TPH-D), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), MTBE, and TBA were detected in soil samples collected by Cambria in July through September 2004. Borings will be continuously cored from a depth of 5 feet bg to approximately 5 feet below the depth of first encountered groundwater, a total depth of approximately 27 feet bg.

Discrete soil samples will be retained in acetate liners at 5-foot intervals. Samples will be capped with Teflon tape and a tight fitting cap, and placed in a cooler with ice for transportation to Severn Trent Laboratories, Inc. (STL) in Pleasanton, California. A photo-ionization detector (PID) will be used to measure soil hydrocarbon concentrations at 5-foot intervals. The PID soil samples will be placed in a sealed plastic bag. After approximately 5-minutes, the PID probe will be inserted into the plastic bag and soil gas allowed to pass through the PID until readings stabilize. The resulting concentration reading will be recorded on the geologist's field log.

The field geologist will carefully examine the soil core samples as they are collected. Soils will be classified based on the Unified Soil Classification System using the American Society for Testing and Materials (ASTM) Method D-2487 published in May 2000. In addition to classifying the soils, the

geologist will examine the core for such features as root-holes, fractures, mineralization, and thin micro-bedding as well as petroleum hydrocarbon discoloration and odor.

A sample of the perched groundwater from beneath the site will be collected from each boring. Groundwater samples will be collected utilizing a stainless steel bailer. Groundwater will be decanted into laboratory provided 40-milliliter glass vials, and placed in a cooler with ice for transport to STL.

All down-hole drilling tools will be decontaminated between holes. The decontamination process will consist of multiple wash and rinse cycles. The first washing involves scrubbing all trace soil or contaminants from the drilling tools, then washing them with a non-phosphate detergent and water. Following the initial washing with detergent, the tools are then dip-rinsed and sprayed with water. A final rinse is performed using clean water that is poured directly over the sampling tools, followed by placement into a clean container for air drying.

Immediately after collecting the soil and groundwater samples, each boring will be filled to the surface with a Portland cement/bentonite slurry mixture (5% bentonite).

Soil and groundwater samples will be logged on to a chain-of-custody form. Samples will be shipped to the laboratory in a cooler with ice. Excess soils generated from the drilling activities will be placed in sealed containers with proper labeling. After return of soil analytical data, Delta will arrange for the proper disposal of the soil.

TASK 4 – SANITARY SEWER TRENCH BACKFILL SAMPLING

The ACHSCA, in its letter dated November 3, 2004, requested that Shell “evaluate the potential for lateral migration via the sanitary sewer trench backfill, which intersects the piping trench near the station kiosk.” Delta proposes to hand auger a boring into the trench backfill of the sanitary sewer east of its intersection with the product piping line (see Figure 2). A sample of the backfill will be collected for chemical analysis. The backfill sample will be analyzed for the parameters listed below in Task 5.

TASK 5– SOIL AND GROUNDWATER ANALYSES/TESTING

Discrete soil samples collected at five-foot depth intervals from borings will be submitted to the laboratory for analysis. Chemical analysis will be performed on the groundwater sample from each borehole. The sanitary sewer backfill, soil, and groundwater samples will be analyzed for TPH-G, TPH-D, BTEX compounds, and fuel oxygenates MTBE and TBA. All analyses, with the exception of TPH-D, will be performed by EPA Method 8260B. Analyses for TPH-D will be performed by EPA Method 8015M.

TASK 6 – INSTALLATION OF GROUNDWATER MONITORING WELLS

Four groundwater monitoring wells will be installed in order to determine the groundwater flow direction beneath the site and to establish an on-going groundwater sampling and analysis program. Proposed well locations are shown on Figure 4. Well locations are based on an anticipated southeast groundwater flow direction as established at the Chevron service station immediately north of the site. The wells will be installed using hollow-stem auger drilling equipment provided by Gregg Drilling (License C57- 485165).

Soil samples will be collected every 5 feet from the ground surface to the total depth of the boring for the well installation. Discrete soil samples will be retained in brass liners at 5-foot intervals. Samples will be capped with Teflon tape and a tight fitting cap, and placed in a cooler with ice for transportation to STL in Pleasanton, California. A PID will be used to measure soil hydrocarbon concentrations at 5-foot intervals.

The PID soil samples will be placed in a sealed plastic bag. After approximately 5-minutes, the PID probe will be inserted into the plastic bag and soil gas allowed to pass through the PID until readings stabilize. The resulting concentration reading will be recorded on the geologist's field log.

Wells will be constructed of 4-inch diameter PVC casing and well screens. Geotracker data indicates that the depth to groundwater at the Chevron service station has ranged from 19.53 to 29.98 feet below top of well casing. Delta anticipates constructing the four site wells with screens at 20 to 35 feet bg. Wells will be developed by cycles of surging followed by pumping until clear water is obtained. Wells will be sampled by Blaine Tech Services (Blaine) a minimum of 24 hours after development. The location and top of casing elevation of each well will be established by a California licensed surveyor.

Soil and groundwater samples will be analyzed for TPH-G, TPH-D, BTEX compounds, and fuel oxygenates MTBE and TBA. All analyses, with the exception of TPH-D, will be performed by EPA Method 8260B. Analysis for TPH-D will be performed by EPA Method 8015M.

TASK 7 – CONE PENETRATION TEST BORING

Delta proposes to drill a cone penetration test (CPT) boring to define the types of soils underlying anticipated perched groundwater beneath the site, identify potential groundwater migration pathways, and to define the vertical extent of any petroleum hydrocarbons and fuel oxygenates detected in shallow groundwater. The location of the CPT boring will be finalized based on the groundwater flow direction determined from wells to be installed as described in Task 6. The CPT boring will be placed downgradient of the kiosk area where the highest concentrations of petroleum hydrocarbons were detected in soil. An initial CPT borehole (CPT-1, Figure 4) will be used for stratigraphic profiling. Soil classification will be based on the cone penetration resistance, sleeve friction, and friction ratio. A soil classification graph will be generated during drilling of the CPT borehole. Boring CPT-1 will be advanced to a depth of approximately 80 feet bg in order to define the thickness of predominantly clay soil beneath the site. Grout will be pumped into the borehole behind the cone by using a grout collar (retraction grouting).

A second CPT borehole will be drilled at the same location for collection of groundwater samples. Sand layers throughout the stratigraphic profile will be targeted for sampling. A sealed PVC hydropunch screen will be pushed to the desired sampling depth. The push rod will then be retracted exposing the hydropunch screen. Groundwater will flow hydrostatically from the formation into the sampler. A small diameter stainless steel bailer will be lowered through the hollow push rods, into the screen section for sample collection. The groundwater samples will be transferred to 40-milliliter glass VOA bottles. The bottles will be placed on ice for transportation to the laboratory.

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

TASK 8 – SOIL AND GROUNDWATER INVESTIGATION REPORT

Delta will prepare a report describing field methods and summarizing the results of chemical analyses of soil and groundwater. The report will contain a boring and well location map, boring logs, hydrogeologic

cross-sections with analytical soil and groundwater data, certified analytical reports, and chain of custody documentation.

SCHEDULE

Delta is prepared to commence field activities within 30 days of the acceptance of this work plan by ACHCS. The following field and reporting schedule is proposed:

- Drilling of soil borings, installation of four site wells, and analyses of soil and groundwater samples can be performed within 45 days of the start of field activities.
- Drilling of CPT boring can be performed and groundwater samples analyzed within 60 days of the start of field activities.
- Completion of a soil and groundwater investigation report within 90 days of the start of field activities.

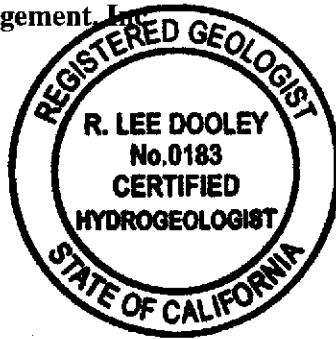
If you have any questions, please call me at (408) 224-4724.

Sincerely,

Delta Environmental Management, Inc.



R. Lee Dooley
Senior Hydrogeologist
CHG 183



Attachments: Table 1 – Well Survey Information

Figure 1 – Site Location Map

Figure 2 – Site Map

Figure 3 – Well Survey Map

Figure 4 – Proposed Boring and Well Location Map

Attachment A – Soil Sampling Location Maps and Table of Summary Analytical Data (Cambria, 2004)

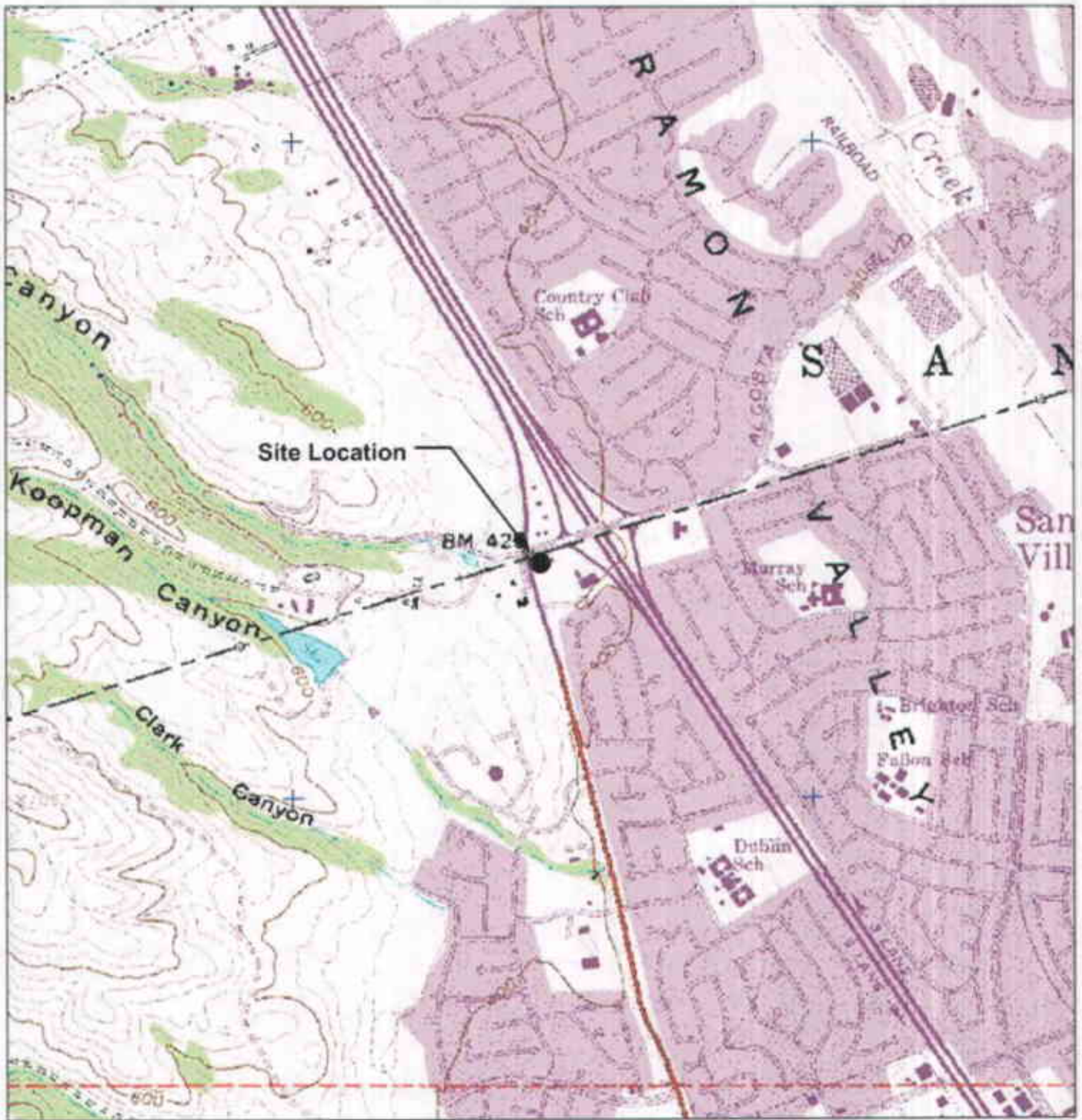
Attachment B – Regional Hydrogeologic Data

Attachment C – Well Survey Information

cc. Karen Petryna, Shell Oil Products US

Table 1
Well Survey Information
Shell-branded Service Station
8999 San Ramon Road
Dublin, California

Well Designation Well Drillers Report No.	Well Address	Distance/Direction (feet)	Well Type (a)	Well Status	Well Total Depth (feet)	Well Screen Intervals (feet)	Well Log Available
02S01W26F	20150 San Ramon Valley Rd.	5,000/N-NW	Domestic	Active	102	20 to 30	Yes
02S01W26R (MW-1, MW-2, and MW-3)	8998 Alcosta Blvd.	2,500/NE	Monitoring	Active	36	16 to 36	Yes
02S01W26H	San Ramon Golf Course 600' south of Belle Meade Ct. 800' east of Broadmoor Dr.	3,650/NE	Irrigation	Active	540	260 to 540	Yes
2S/1W26, No. 61556	San Ramon Village Golf Course	7,500/NE	Irrigation	Active	562	146 to 186 206 to 226 243 to 263 299 to 350 382 to 492 513 to 530 546 to 562	Yes
2S/1W26 No. 61608	1 mile north of Highway 50 on Highway 21, 2,500 feet east of Highway 21	>2,500/E	Domestic	Active	570	127 to 151 178 to 202 238 to 262 297 to 363 404 to 452 476 to 547	Yes
02S01W (MW-4, MW-5 and MW-6)	9499 Alcosta Blvd. at Village Parkway	7,500/NE	Monitoring	Destroyed	15	5 to 15	Yes
02S/1W 35L01	Via Zapata	2,300/SW	Water Supply	Active	Unknown	Unknown	No
2S1W35K1	1100 Shannon Park Rd.	2,500/S	Irrigation	Destroyed	300	222 to 282	Yes
2S1W (ESE-1 through ESE-5)	3048 Crow Canyon Road	5 miles/N	Monitoring	Active	28	11 to 28	Yes
02S01W No. 237657	San Ramon Valley Golf Course	6,000/NE	Irrigation	Active	600	240 to 600	Yes



GENERAL NOTES:

Base Map from: 3-D TopoQuads DeLorme
 Yarmouth, ME 04096 Source Data: USGS



QUADRANGLE LOCATION

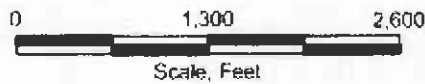


FIGURE 1
SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION
 8999 San Ramon Road
 Dublin, California

PROJECT NO. SBR-995-1.2004	DRAWN BY V. F. 12/9/04
FILE NO. SBR-995-1.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY





Alcosta Blvd.

San Ramon Road

10,000 Gallon Fuel Underground Storage Tanks

Fuel Dispenser and Designation (typ)

D-2, 3 D-1

D-4

Kiosk

D-5, 6

D-7

SS

Car Wash

(S)

Storage

LEGEND



SANITARY SEWER



WATER SHUT-OFF

..... **PRODUCT PIPING AND TRENCH**

..... **ELECTRICAL LINE (E)**

----- **SANITARY SEWER LINE (SS)**

- - - - - **WATER LINE (W)**

- - - - - **TELECOMMUNICATIONS LINE (T)**



APPROX. SCALE

FIGURE 2

SITE MAP

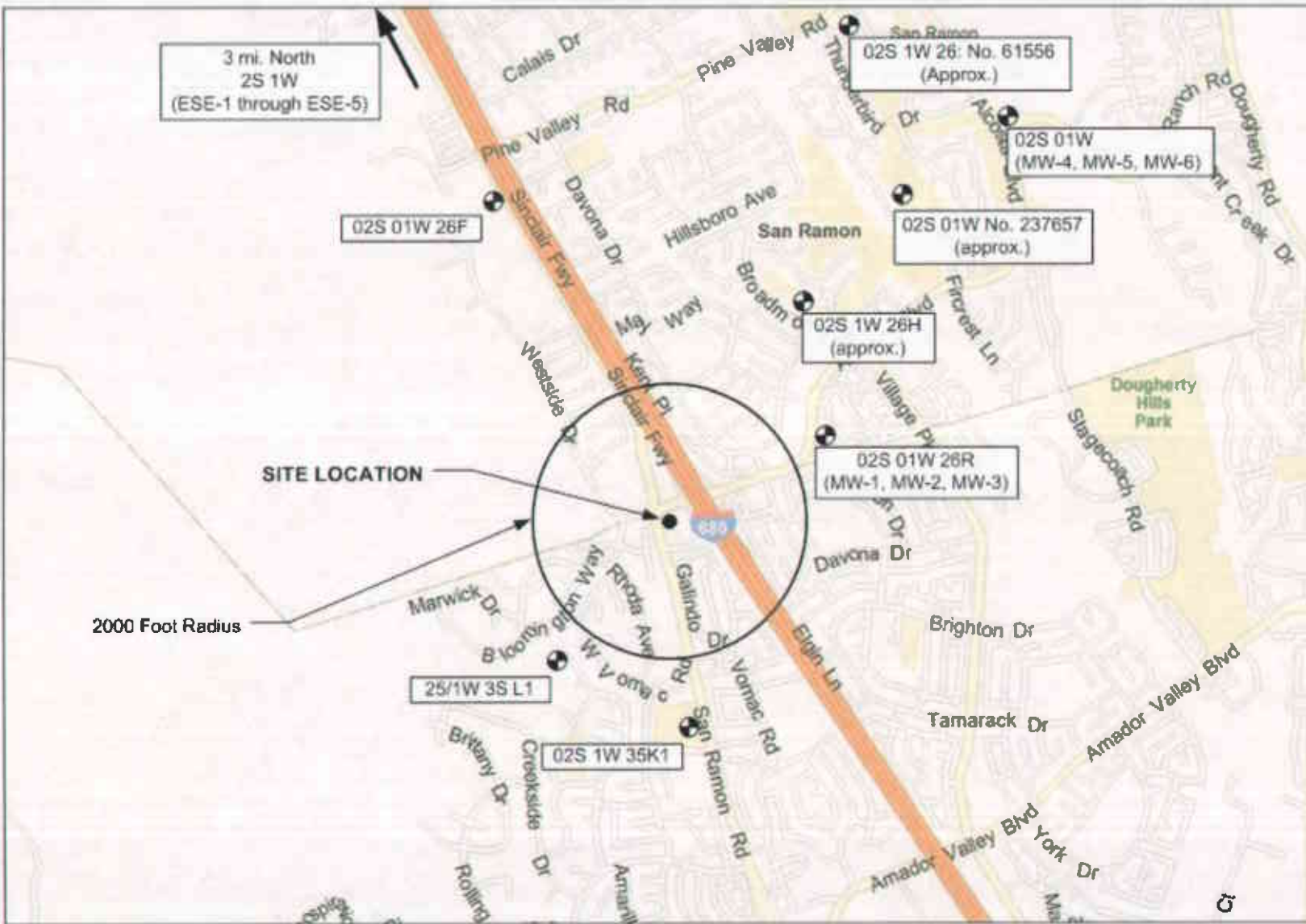
SHELL-BRANDED SERVICE STATION
8999 San Ramon Road
Dublin, California

PROJECT NO. SRR-99S-12004	DRAWN BY VF 11/29/04
FILE NO. SRR-99S-12004	PREPARED BY VF
REVISION NO. 1	REVIEWED BY





3 mi. North
2S 1W
(ESE-1 through ESE-5)



SITE LOCATION

2000 Foot Radius

FIGURE 3

WELL SURVEY MAP

SHELL-BRANDED SERVICE STATION
8999 San Ramon Road
Dublin, California



APPROX. SCALE

PROJECT NO. S-89-995-1-2004	DRAWN BY V. F. 12/9/04
FILE NO. S-89-995-1-2004	PREPARED BY V. F.
REVISION NO. 1	REVIEWED BY


















Alcosta Blvd.

Anticipated Groundwater Flow Direction

LEGEND

-  AREAS WITH TPH-G AND/OR TPH-D DETECTED IN SOIL ABOVE 100 MG/KG (RWQCB ENVIRONMENTAL SCREENING LEVEL FOR SHALLOW SOILS)
-  AREAS WITH MTBE DETECTED IN SOIL ABOVE 0.023 MG/KG (RWQCB ENVIRONMENTAL SCREENING LEVEL FOR SHALLOW SOILS)
-  PROPOSED GEOPROBE BORING
-  PROPOSED GROUNDWATER MONITORING WELL
-  PROPOSED CONE PENETROMETER TEST BORING
-  PROPOSED HAND-AUGURED SAMPLE OF SANITARY SEWER BACKFILL
-  SANITARY SEWER
-  WATER SHUT-OFF
-  PRODUCT PIPING AND TRENCH
-  ELECTRICAL LINE (E)
-  SANITARY SEWER LINE (SS)
-  WATER LINE (W)
-  TELECOMMUNICATIONS LINE (T)

San Ramon Road

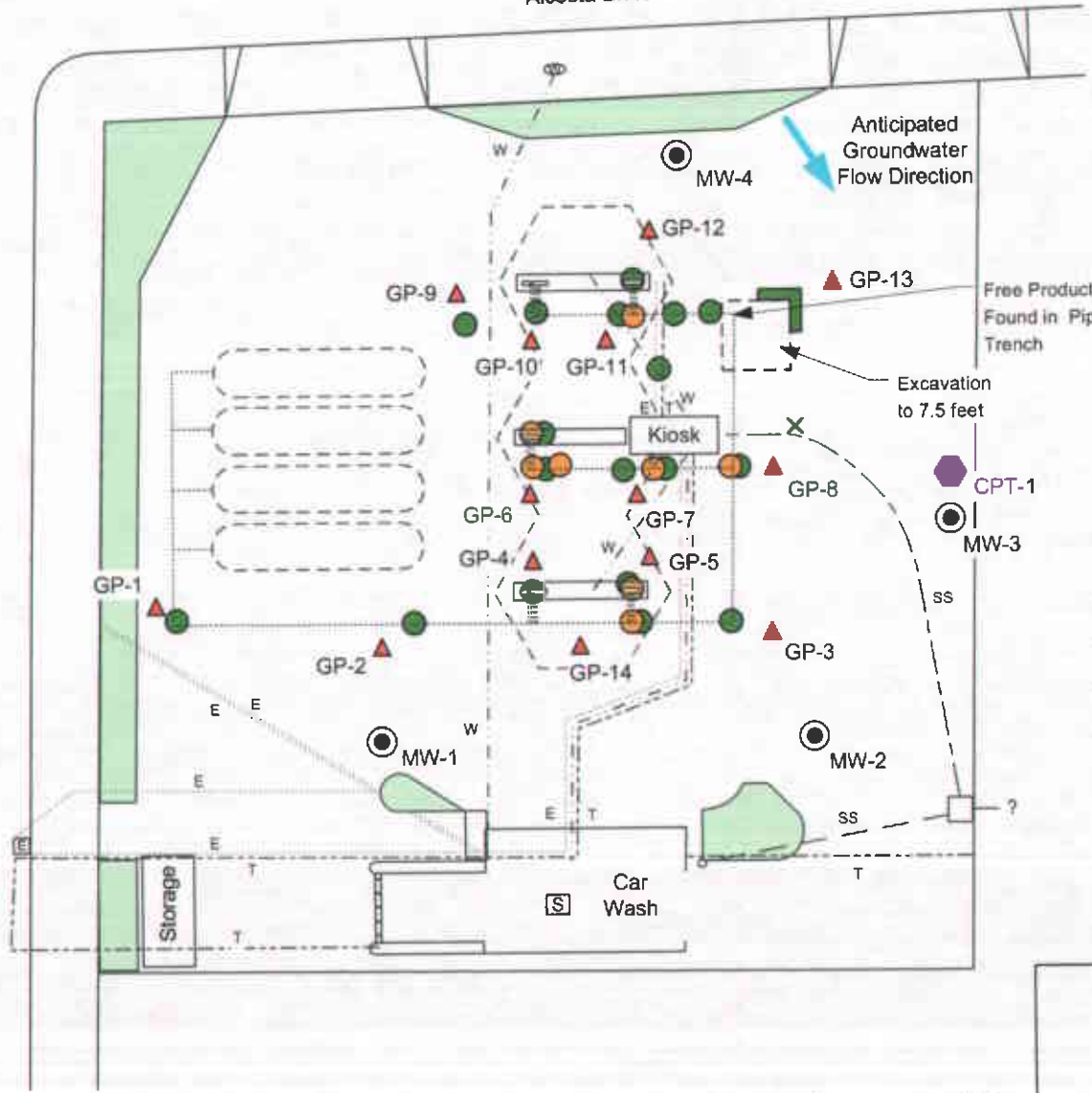
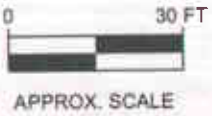


FIGURE 4

PROPOSED BORING AND WELL LOCATION MAP

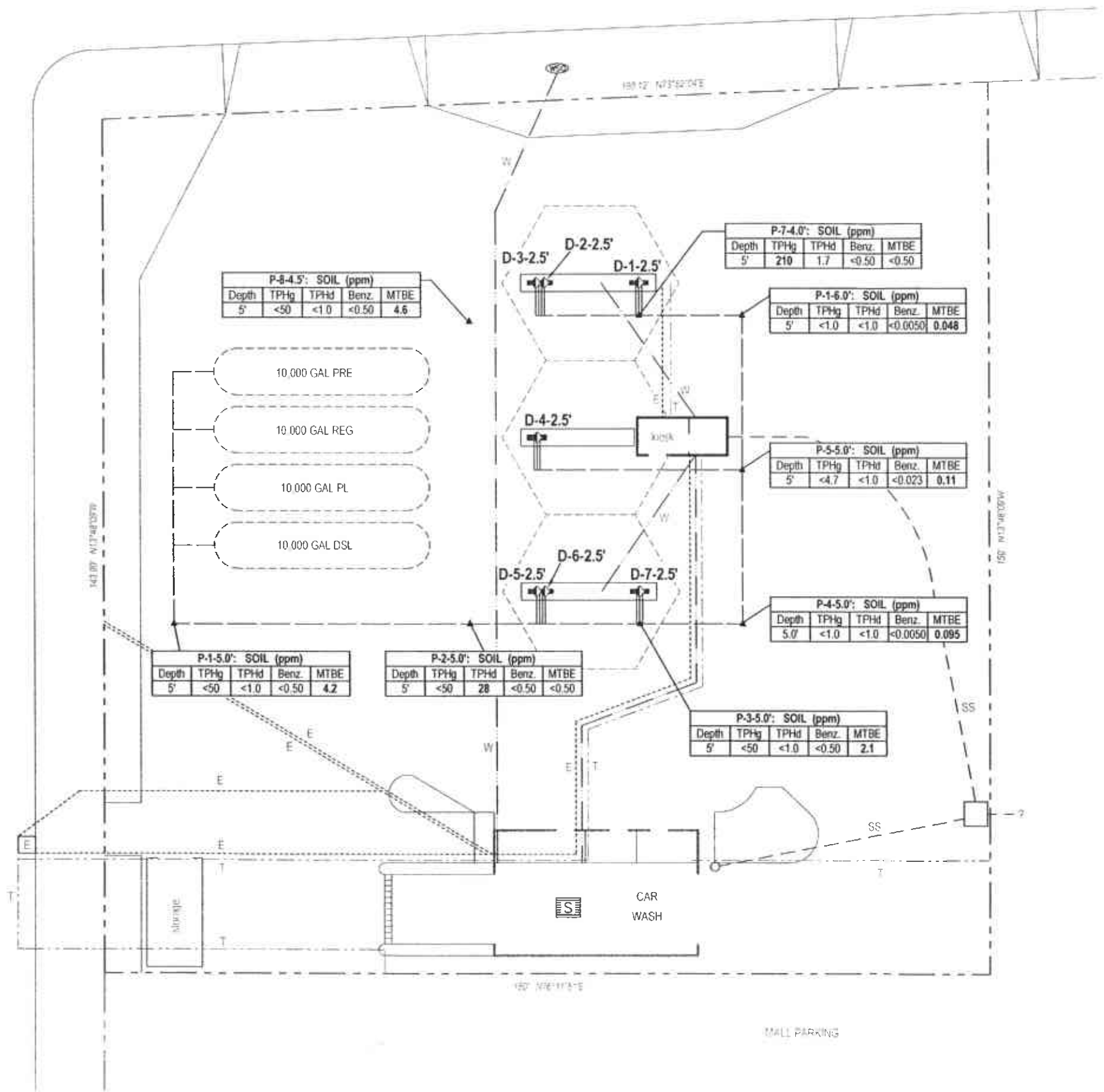
SHELL-BRANDED SERVICE STATION
8999 San Ramon Road
Dublin, California

PROJECT NO. SJ89-995-1.2004	DRAWN BY VF 11/29/04
FILE NO. SJ89-995-1.2004	PREPARED BY VF
REVISION NO. 1	REVIEWED BY



Attachment A

**SOIL SAMPLING LOCATION MAPS AND TABLE OF SUMMARY ANALYTICAL DATA
(CAMBRIA, 2004)**



P-8-4.5': SOIL (ppm)

Depth	TPHg	TPHd	Benz.	MTBE
5'	<50	<1.0	<0.50	4.6

P-7-4.0': SOIL (ppm)

Depth	TPHg	TPHd	Benz.	MTBE
5'	210	1.7	<0.50	<0.50

P-1-6.0': SOIL (ppm)

Depth	TPHg	TPHd	Benz.	MTBE
5'	<1.0	<1.0	<0.0050	0.048

P-5-5.0': SOIL (ppm)

Depth	TPHg	TPHd	Benz.	MTBE
5'	<4.7	<1.0	<0.023	0.11

P-4-5.0': SOIL (ppm)

Depth	TPHg	TPHd	Benz.	MTBE
5.0'	<1.0	<1.0	<0.0050	0.095

P-1-5.0': SOIL (ppm)

Depth	TPHg	TPHd	Benz.	MTBE
5'	<50	<1.0	<0.50	4.2

P-2-5.0': SOIL (ppm)

Depth	TPHg	TPHd	Benz.	MTBE
5'	<50	28	<0.50	<0.50

P-3-5.0': SOIL (ppm)

Depth	TPHg	TPHd	Benz.	MTBE
5'	<50	<1.0	<0.50	2.1

EXPLANATION

- D-1-2.5' ◊ Soil sample location (7/30/04)
- P-1-5' ▲ Soil sample location (8/25/04)
- [S] Sanitary sewer
- [W] Water shut-off
- Product piping and trench
- Electrical line (E)
- - - Sanitary sewer line (SS)
- Water line (W)
- Telecommunications line (T)

P-1-5.0': SOIL (ppm)				
Depth	TPHg	TPHd	Benz.	MTBE
5'	<1.0	—	<0.0050	<0.0050

Soil sample ID
Soil sample depth and TPHg, TPHd, benzene, and MTBE concentrations in soil, in ppm

MOUNTAIN MIKE'S PIZZA

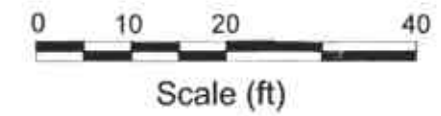


FIGURE 4

Soil Sample Location Map

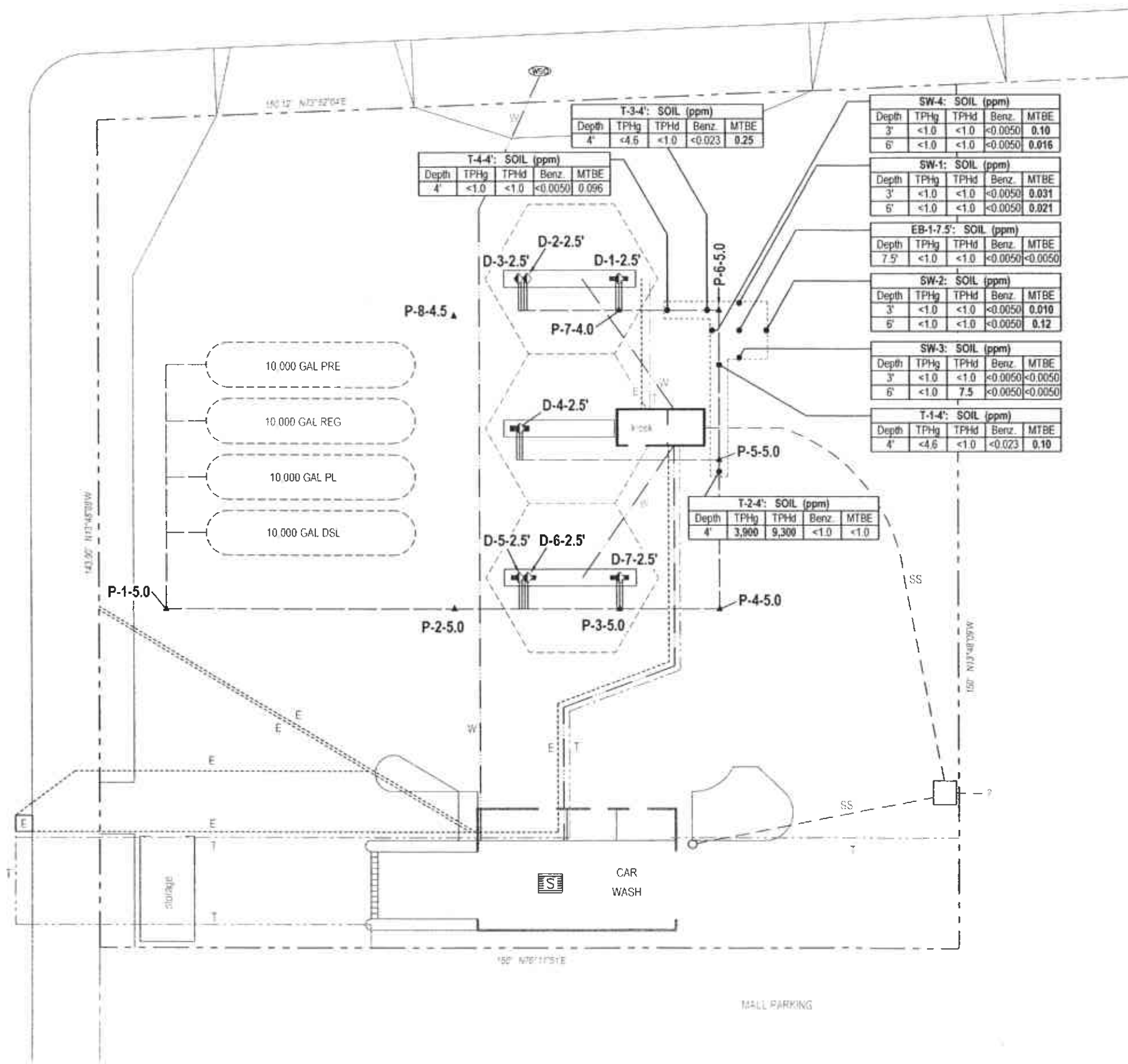
August 25, 2004



C A M B R I A

Shell-branded Service Station

8999 San Ramon Road
Dublin, California



EXPLANATION

- D-1-2.5' ♦ Soil sample location (7/30/04)
- P-1-5' ▲ Soil sample location (8/25/04)
- EB-1-7.5' • Soil sample location (8/27/04)
- [S] Sanitary sewer
- [W] Water shut-off
- Product piping and trench
- Electrical line (E)
- - - Sanitary sewer line (SS)
- Water line (W)
- - - Telecommunications line (T)

Depth	TPHg	TPHd	Benz.	MTBE
5'	<1.0	<1.0	<0.0050	<0.0050

Soil sample ID
Soil sample depth and TPHg, TPHd, benzene, and MTBE concentrations in soil, in ppm

Excavation limits (8/27/04)

MOUNTAIN MIKE'S PIZZA

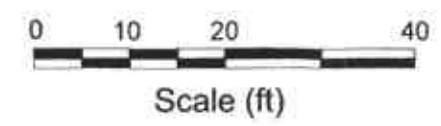


FIGURE 5

Soil Sample Location Map

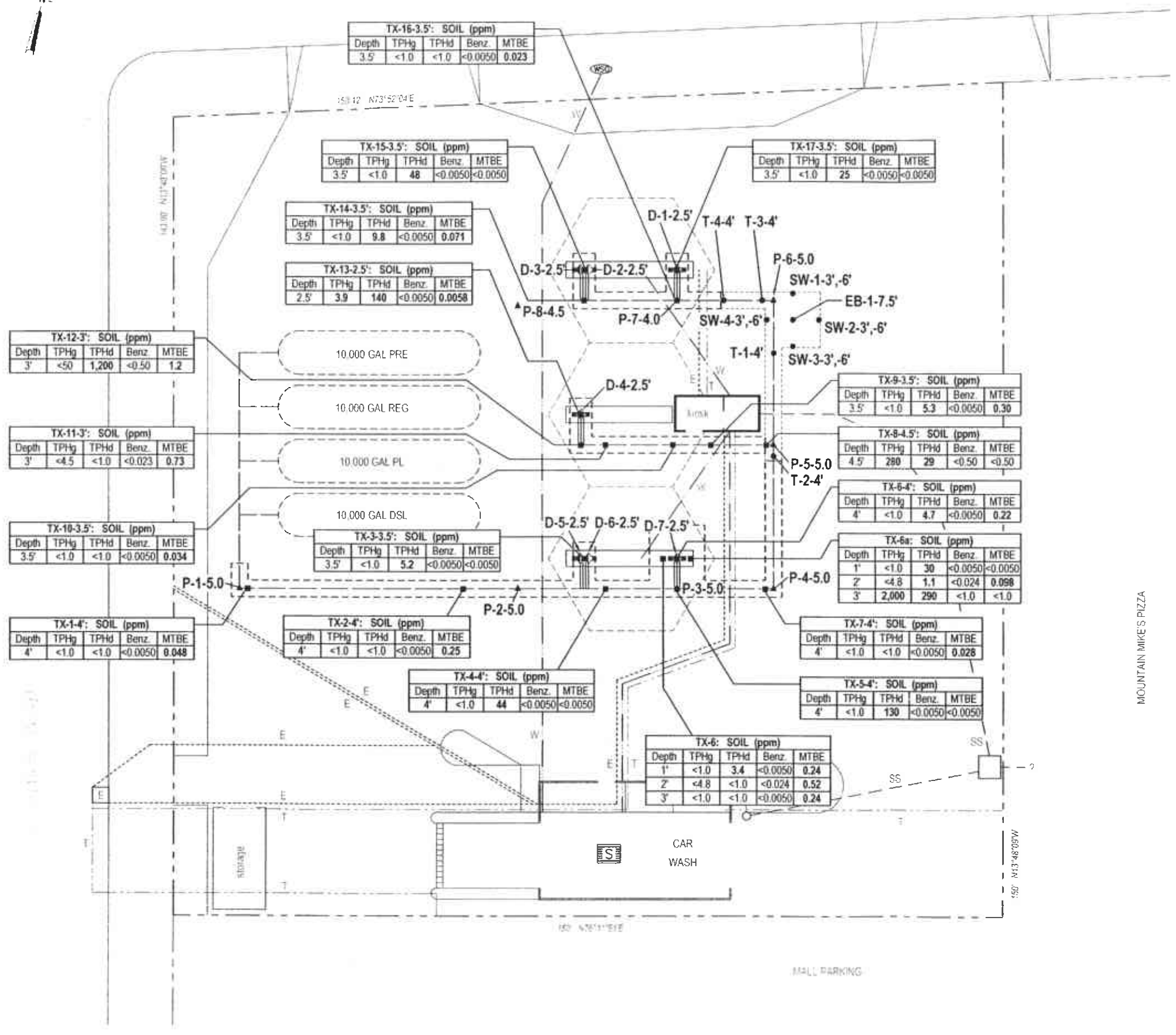
August 27, 2004



C A M B R I A

Shell-branded Service Station

8999 San Ramon Road
Dublin, California



EXPLANATION

- D-1-2.5' ◆ Soil sample location (7/30/04)
- P-1-5' ▲ Soil sample location (8/25/04)
- EB-1-7.5' ● Soil sample location (8/27/04)
- TX-1-4' ■ Soil sample location (9/02/04)
- Sanitary sewer
- Water shut-off
- Product piping and trench
- Electrical line (E)
- Sanitary sewer line (SS)
- Water line (W)
- Telecommunications line (T)

TX-1-4': SOIL (ppm)				
Depth	TPHg	TPHd	Benz.	MTBE
4'	<1.0	<1.0	<0.0050	0.048

Soil sample ID
Soil sample depth and TPHg, TPHd, benzene, and MTBE concentrations in soil, in ppm

Excavation limits (9/2/04, 9/7/04)

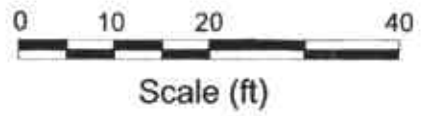


FIGURE
6

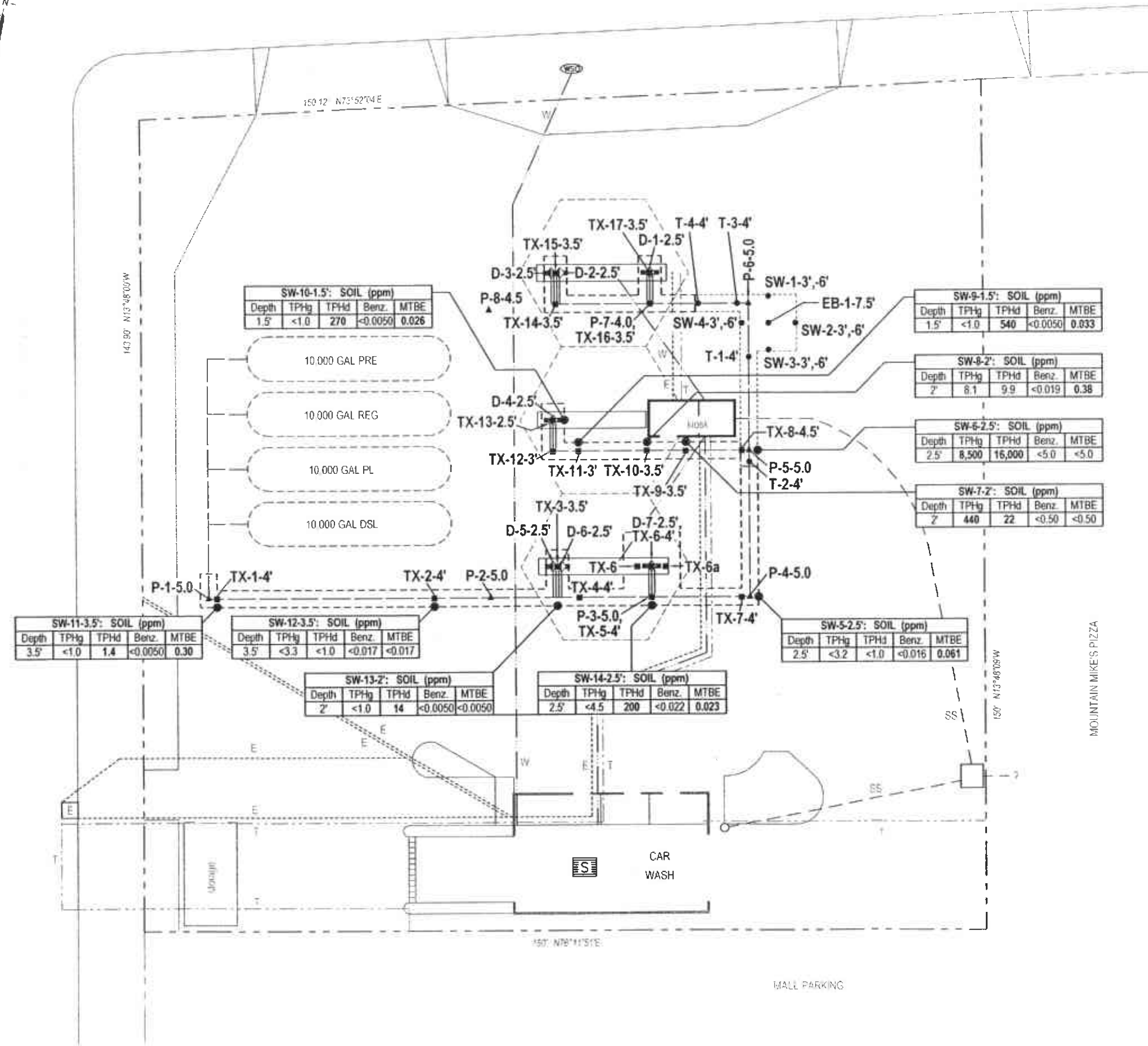
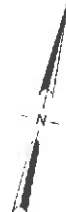
**Soil Sample
Location Map**

C A M B R I A

September 2, 2004

Shell-branded Service Station

8999 San Ramon Road
Dublin, California



EXPLANATION

- D-1-2.5' ◊ Soil sample location (7/30/04)
- P-1-5' ▲ Soil sample location (8/25/04)
- EB-1-7.5' ● Soil sample location (8/27/04)
- TX-1-4' ■ Soil sample location (9/02/04)
- SW-5-3.5' ● Soil sample location (9/07/04)
- Sanitary sewer
- Water shut-off
- Product piping and trench
- Electrical line (E)
- Sanitary sewer line (SS)
- Water line (W)
- Telecommunications line (T)

Soil sample ID

Soil sample depth and TPHg, TPHd, benzene, and MTBE concentrations in soil, in ppm

Excavation limits (9/2/04, 9/7/04)

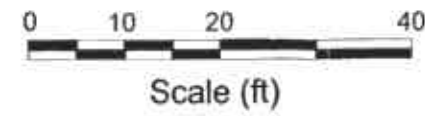


FIGURE
7

**Soil Sample
Location Map**

September 7, 2004



C A M B R I A

Shell-branded Service Station
8999 San Ramon Road
Dublin, California

Table 1. Soil Analytical Data - Shell-branded Service Station, 8999 San Ramon Road, Dublin, California

Sample	Depth (ft)	Date Sampled	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	DIPE			ETBE	TAME	TBA	1,2-DCA	EDB	Ethanol	Lead
										(ppm)									
<i>2004 Dispenser Samples</i>																			
D-1-2.5	2.5	07/30/04	17	---	<0.020	<0.020	0.10	0.49	0.038	<0.039	<0.020	<0.020	0.062	<0.020	<0.020	<0.020	---	---	4.7
D-2-2.5	2.5	07/30/04	---	170 ^a	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	---	---	7.0
D-3-2.5	2.5	07/30/04	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	---	---	6.2
D-4-2.5	2.5	07/30/04	4,700	---	<5.0	130	57	440	<5.0	<10	<5.0	<5.0	<25	<5.0	<5.0	<5.0	---	---	6.8
D-5-2.5	2.5	07/30/04	<50	---	<0.50	<0.50	<0.50	<0.50	9.0	<1.0	<0.50	<0.50	11	<0.50	<0.50	<0.50	---	---	6.9
D-6-2.5	2.5	07/30/04	---	<1.0	<0.50	<0.50	<0.50	<0.50	1.5	<1.0	<0.50	<0.50	20	<0.50	<0.50	<0.50	---	---	7.6
D-7-2.5	2.5	07/30/04	<50	---	<0.50	<0.50	<0.50	<0.50	1.4	<1.0	<0.50	<0.50	3.3	<0.50	<0.50	<0.50	---	---	4.6
<i>2004 Piping Samples</i>																			
P-1-5.0	5.0	08/25/04	<50	<1.0	<0.50	<0.50	<0.50	<0.50	4.2	<1.0	<0.50	<0.50	3.8	<0.50	<0.50	<0.50	<25	<25	6.1
P-2-5.0	5.0	08/25/04	<50	28 ^a	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	8.4	<0.50	<0.50	<0.50	<25	<25	8.0
P-3-5.0	5.0	08/25/04	<50	<1.0	<0.50	<0.50	<0.50	<0.50	2.1	<1.0	<0.50	<0.50	8.3	<0.50	<0.50	<0.50	<25	<25	4.3
P-4-5.0	5.0	08/25/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.095	<0.010	<0.0050	<0.0050	0.71	<0.0050	<0.0050	<0.0050	<0.1	<0.1	6.4
P-5-5.0	5.0	08/25/04	<4.7	<1.0	<0.023	<0.023	<0.023	<0.023	0.11	<0.047	<0.023	<0.023	<0.047	<0.023	<0.023	<0.023	<0.47	<0.47	4.6
P-6-5.0	5.0	08/25/04	<1.0	<1.0	<0.0050	0.018	<0.0050	0.0082	0.048	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.1	<0.1	6.0
P-7-4.0	4.0	08/25/04	210	1.7 ^c	<0.50	<0.50	<0.50	1.0	<0.50	<1.0	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<25	<25	3.6

Table 1. Soil Analytical Data - Shell-branded Service Station, 8999 San Ramon Road, Dublin, California

Sample	Depth (ft)	Date Sampled	TPHg	TPHd	Benzene	Toluene	Ethyl- benzene Xylenes MTBE DIPE ETBE TAME TBA 1,2-DCA EDB Ethanol Lead											
							(ppm)											
P-8-4.5	4.5	08/25/04	<50	<1.0	<0.50	<0.50	<0.50	<0.50	4.6	<1.0	<0.50	<0.50	8.1	<0.50	<0.50	<25	7.0	
<i>August 2004 Over-Excavation Samples</i>																		
<i>Sidewall Samples</i>																		
SW-1-3.5'	3.5	08/27/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.031	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---	
SW-1-6'	6	08/27/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.021	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---	
SW-2-3.5'	3.5	08/27/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.010	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---	
SW-2-6'	6	08/27/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.12	<0.010	<0.0050	<0.0050	0.026	<0.0050	<0.0050	<0.1	---	
SW-3-2'	2	08/27/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	0.0065	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---	
SW-3-6'	6	08/27/04	<1.0	7.5 ^b	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---	
SW-4-2.5'	2.5	08/27/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.10	<0.010	<0.0050	<0.0050	0.023	<0.0050	<0.0050	<0.1	---	
SW-4-6'	6	08/27/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.016	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---	
<i>Excavation Base Sample</i>																		
EB-1-7.5'	7.5	08/27/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---	
<i>Trench Samples</i>																		
T-1-4'	4	08/27/04	<4.6	<1.0	<0.023	0.27	0.070	0.50	0.10	<0.046	<0.023	<0.023	0.078	<0.023	<0.023	<0.46	---	
T-2-4'	4	08/27/04	3,900	9,300 ^c	<1.0	32	7.4	44	<1.0	<2.0	<1.0	<1.0	<5.0	<1.0	<1.0	<50	---	
T-3-4'	4	08/27/04	<4.6	<1.0	<0.023	<0.023	<0.023	<0.023	0.25	<0.046	<0.023	<0.023	0.34	<0.023	<0.023	<0.46	---	
T-4-4'	4	08/27/04	<1.0	<1.0	<0.0050	0.013	<0.0050	0.0089	0.096	<0.010	<0.0050	<0.0050	0.047	<0.0050	<0.0050	<0.1	---	

Table 1. Soil Analytical Data - Shell-branded Service Station, 8999 San Ramon Road, Dublin, California

Sample	Depth (ft)	Date Sampled	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	DIPE (ppm)	ETBE	TAME	TBA	1,2-DCA	EDB	Ethanol	Lead
<i>September 2004 Over-Excavation Samples</i>																	
<i>Trench Bottom Samples</i>																	
TX-1-4'	4	09/02/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.048	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---
TX-2-4'	4	09/02/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.25	<0.010	<0.0050	<0.0050	0.42	<0.0050	<0.0050	<0.1	---
TX-3-3.5'	3.5	09/02/04	<1.0	5.2 ^a	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	1.2	<0.0050	<0.0050	<0.1	---
TX-4-4'	4	09/02/04	<1.0	44 ^a	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.92	<0.0050	<0.0050	<0.1	---
TX-5-4'	4	09/02/04	<1.0	130 ^a	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.72	<0.0050	<0.0050	<0.1	---
TX-7-4'	4	09/02/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.028	<0.010	<0.0050	<0.0050	0.43	<0.0050	<0.0050	<0.1	---
TX-8-4.5'	5	09/02/04	280	29 ^a	<0.50	<0.50	<0.50	3.0	<0.50	<1.0	<0.50	<0.50	<2.5	<0.50	<0.50	<25	---
TX-9-3.5'	5	09/02/04	<1.0	5.3 ^a	<0.0050	<0.0050	<0.0050	<0.0050	0.30	<0.010	<0.0050	<0.0050	0.30	<0.0050	<0.0050	<0.1	---
TX-10-3.5'	5	09/02/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.034	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---
TX-11-3	3	09/02/04	<4.5	<1.0	<0.023	<0.023	<0.023	<0.023	0.73	<0.045	<0.023	<0.023	0.71	<0.023	<0.023	<0.45	---
TX-12-3'	3	09/02/04	<50	1,200 ^a	<0.50	<0.50	<0.50	2.4	1.2	<1.0	<0.50	<0.50	7.1	<0.50	<0.50	<25	---
TX-13-2.5'	5	09/02/04	3.9	140 ^a	<0.0050	0.0070	0.015	0.088	0.0058	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---
TX-14-3.5'	5	09/02/04	<1.0	9.8 ^a	<0.0050	<0.0050	<0.0050	<0.0050	0.071	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---
TX-15-3.5'	5	09/02/04	<1.0	48 ^a	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---

Table 1. Soil Analytical Data - Shell-branded Service Station, 8999 San Ramon Road, Dublin, California

Sample	Depth (ft)	Date Sampled	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	DIPE				TBA	1,2-DCA	EDB	Ethanol	Lead
										(ppm)								
TX-16-3.5'	5	09/02/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.023	<0.010	<0.0050	<0.0050	0.15	<0.0050	<0.0050	<0.1	---	
TX-17-3.5'	5	09/02/04	<1.0	25 ^b	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.1	---	
<i>Dispenser 7 West Side Wall Samples</i>																		
TX-6-1'	1	09/02/04	<1.0	3.4 ^a	<0.0050	<0.0050	<0.0050	<0.0050	0.24	<0.010	<0.0050	<0.0050	0.49	<0.0050	<0.0050	<0.1	---	
TX-6-2'	2	09/02/04	<4.8	<1.0	<0.024	<0.024	<0.024	<0.024	0.52	<0.048	<0.024	<0.024	1.8	<0.024	<0.024	<0.48	---	
TX-6-3'	3	09/02/04	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.24	<0.010	<0.0050	<0.0050	0.32	<0.0050	<0.0050	<0.1	---	
<i>Dispenser 7 Base Sample</i>																		
TX-6-4'	4	09/02/04	<1.0	4.7 ^a	<0.0050	<0.0050	<0.0050	0.031	0.22	<0.010	<0.0050	<0.0050	0.22	<0.0050	<0.0050	<0.1	---	
<i>Dispenser 7 East Side Wall Samples</i>																		
TX-6-1a'	1	09/02/04	<1.0	30 ^d	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.15	<0.0050	<0.0050	<0.1	---	
TX-6-2a'	2	09/02/04	<4.8	1.1 ^c	<0.024	<0.024	<0.024	0.10	0.098	<0.048	<0.024	<0.024	0.13	<0.024	<0.024	<0.48	---	
TX-6-3a'	3	09/02/04	2,000	290 ^e	<1.0	11	29	180	<1.0	<2.0	<1.0	<1.0	<5.0	<1.0	<1.0	<50	---	
<i>Side Wall Samples</i>																		
SW-5-2.5'	2.5	09/07/04	<3.2	<1.0	<0.016	<0.016	<0.016	<0.016	0.061	<0.032	<0.016	<0.016	0.95	<0.016	<0.016	---	---	
SW-6-2.5'	2.5	09/07/04	8,500 ^e	16,000 ^a	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	170	<5.0	<5.0	---	---	
SW-7-2'	2	09/07/04	440 ^e	22 ^c	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	3.3	<0.50	<0.50	---	---	
SW-8-2'	2.0	09/07/04	8.1 ^e	9.9 ^c	<0.019	<0.019	0.019	0.11	0.38	<0.38	<0.019	<0.019	0.12	<0.019	<0.019	---	---	
SW-9-1.5	1.5	09/07/04	<1.0	540 ^a	<0.0050	<0.0050	<0.0050	<0.0050	0.033	<0.010	<0.0050	<0.0050	0.15	<0.0050	<0.0050	---	---	
SW-10-1.5'	1.5	09/07/04	<1.0	270 ^a	<0.0050	<0.0050	<0.0050	<0.0050	0.026	<0.010	<0.0050	<0.0050	0.18	<0.0050	<0.0050	---	---	

Table 1. Soil Analytical Data - Shell-branded Service Station, 8999 San Ramon Road, Dublin, California

Sample	Depth (ft)	Date Sampled	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Xylenes	(ppm)					TBA	1,2-DCA	EDB	Ethanol	Lead
									MTBE	DIPE	ETBE	TAME						
SW-11-3.5'	3.5	09/07/04	<1.0	1.4 ^a	<0.0050	<0.0050	<0.0050	<0.0050	0.30	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	---	---	
SW-12-3.5'	3.5	09/07/04	<3.3	<1.0	<0.017	<0.017	<0.017	<0.017	<0.017	<0.033	<0.017	<0.017	2.3	<0.017	<0.017	---	---	
SW-13-2'	2	09/07/04	<1.0	14 ^b	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	---	---	
SW-14-2.5'	2.5	09/07/04	<4.5	200 ^a	<0.022	<0.022	<0.022	<0.022	0.023	<0.045	<0.022	<0.022	6.5	<0.022	<0.022	---	---	

Table 1. Soil Analytical Data - Shell-branded Service Station, 8999 San Ramon Road, Dublin, California

Sample	Depth (ft)	Date Sampled	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Ethanol	Lead
										(ppm)							

Abbreviations and Notes:

<x = Not detected at reporting limit x

mg/kg = Milligrams per kilogram (parts per million)

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015M

Lead by EPA Method 6010B

The following constituents were analyzed by EPA Method 8260B:

TPHg = Total petroleum hydrocarbons as gasoline

Benzene, toluene, ethylbenzene, and xylenes

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

TBA = Tertiary butyl alcohol

Ethanol

--- = Not analyzed

a = Hydrocarbon reported does not match the pattern of laboratory diesel standard.

b = Hydrocarbon reported in the late diesel range, and does not match laboratory diesel standard.

c = Hydrocarbon reported in the early diesel range, and does not match laboratory diesel standard.

d = Compound reported reflects individual or discrete unidentified peaks detected in the diesel range. The pattern does not match a typical fuel standard.

e = Hydrocarbon reported in the gasoline range does not match laboratory standard.

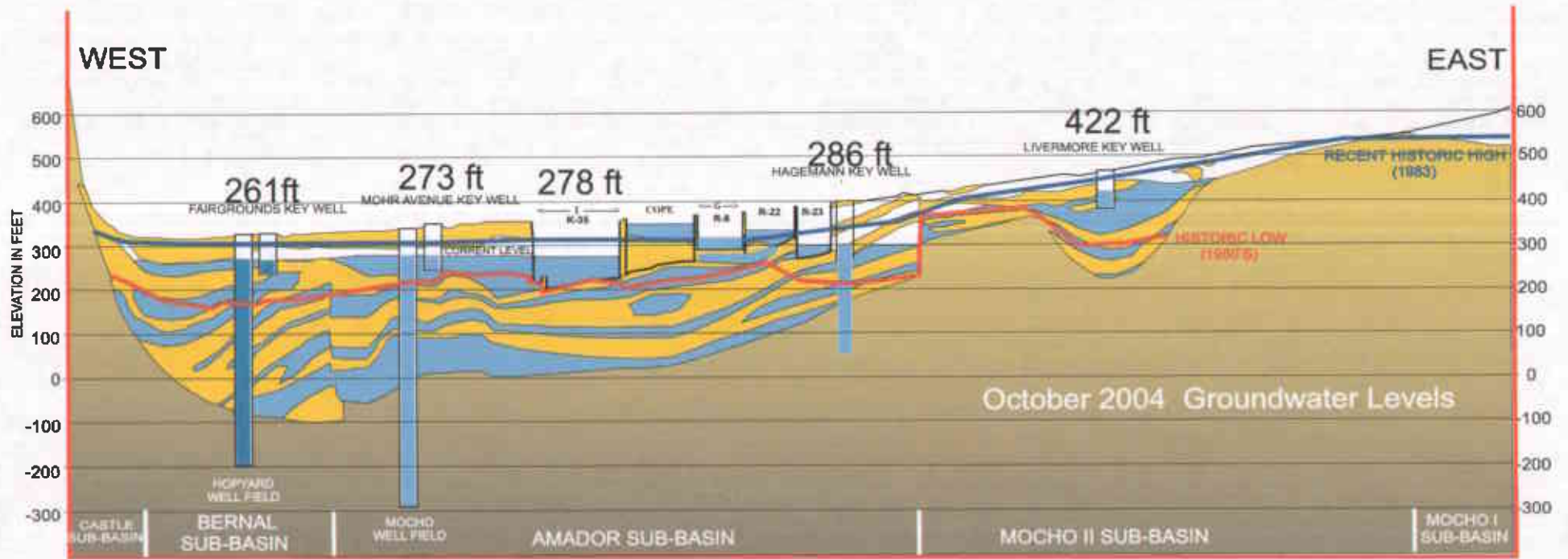
Attachment B

REGIONAL HYDROGEOLOGIC DATA

Groundwater Basins in California



LIVERMORE-AMADOR VALLEY GROUNDWATER BASIN WEST-EAST CROSS-SECTION

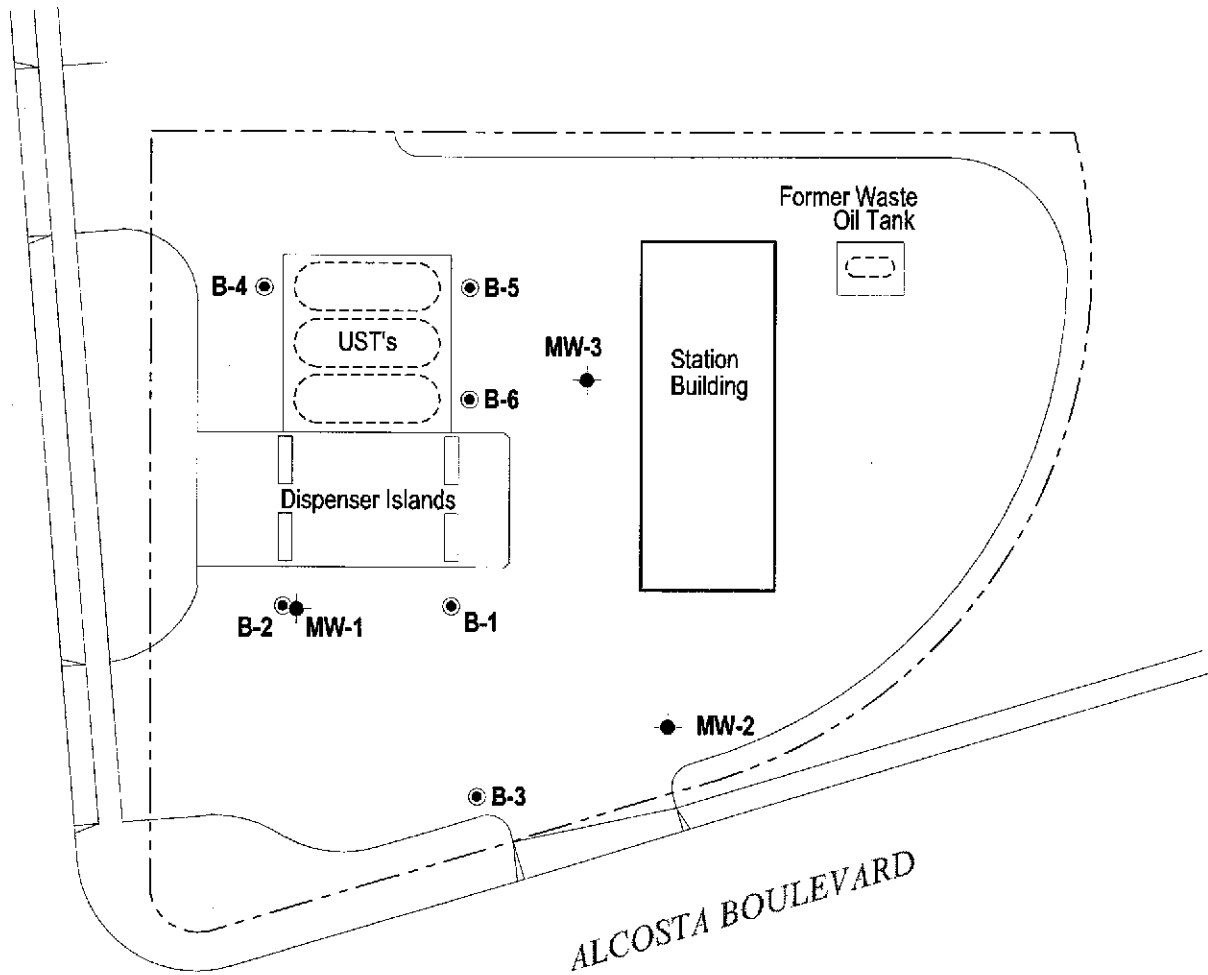


	Bernal	Amador	Mocho II	Total
Area (Ac)	3,100	9,900	4,300	17,300
Saturated Thickness (ft)	246	159	98	168
Storage Coefficient	0.07	0.08	0.06	0.07
Groundwater Vol. (A-F)	53,000	126,000	25,000	204,000
Available Operational Storage	12,000	43,000	22,000	77,000

FIGURE 4-1

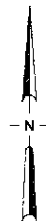
FIGURE 4-1

SAN RAMON VALLEY BOULEVARD



EXPLANATION

- MW-1 ● Monitoring well location
- B-1 ● Soil boring location



FIGURE

2

Chevron Service Station 9-3831

21320 San Ramon Valley Blvd.

San Ramon, California



C A M B R I A

Site Plan

I:\9-3831\FIGURES\STEP1 PLAN.DWG

Depth to Water Information

CHEVRON (SAN RAMON)
21320 SAN RAMON VALLEY BLVD
SAN RAMON , CA 94583
CASE STATUS: CLOSED
SHOW THIS SITE ON MAP
RETURN TO REPORT MAIN MENU

REGIONAL BOARD (LEAD AGENCY) - CASE #: 07-0062
SAN FRANCISCO BAY RWQCB (REGION 2) - (GVL)
CONTACT: GEORGE LEYVA - (510) 622-2300
LOCAL AGENCY - CASE #: 93831
CONTRA COSTA COUNTY - (SL)

<u>MIN DEPTH TO WATER</u>	<u>MAX DEPTH TO WATER</u>	<u>FREE PRODUCT?</u>	<u>MAX FREE PRODUCT THICKNESS</u>
19.53 feet	29.98 feet	NO	n/a

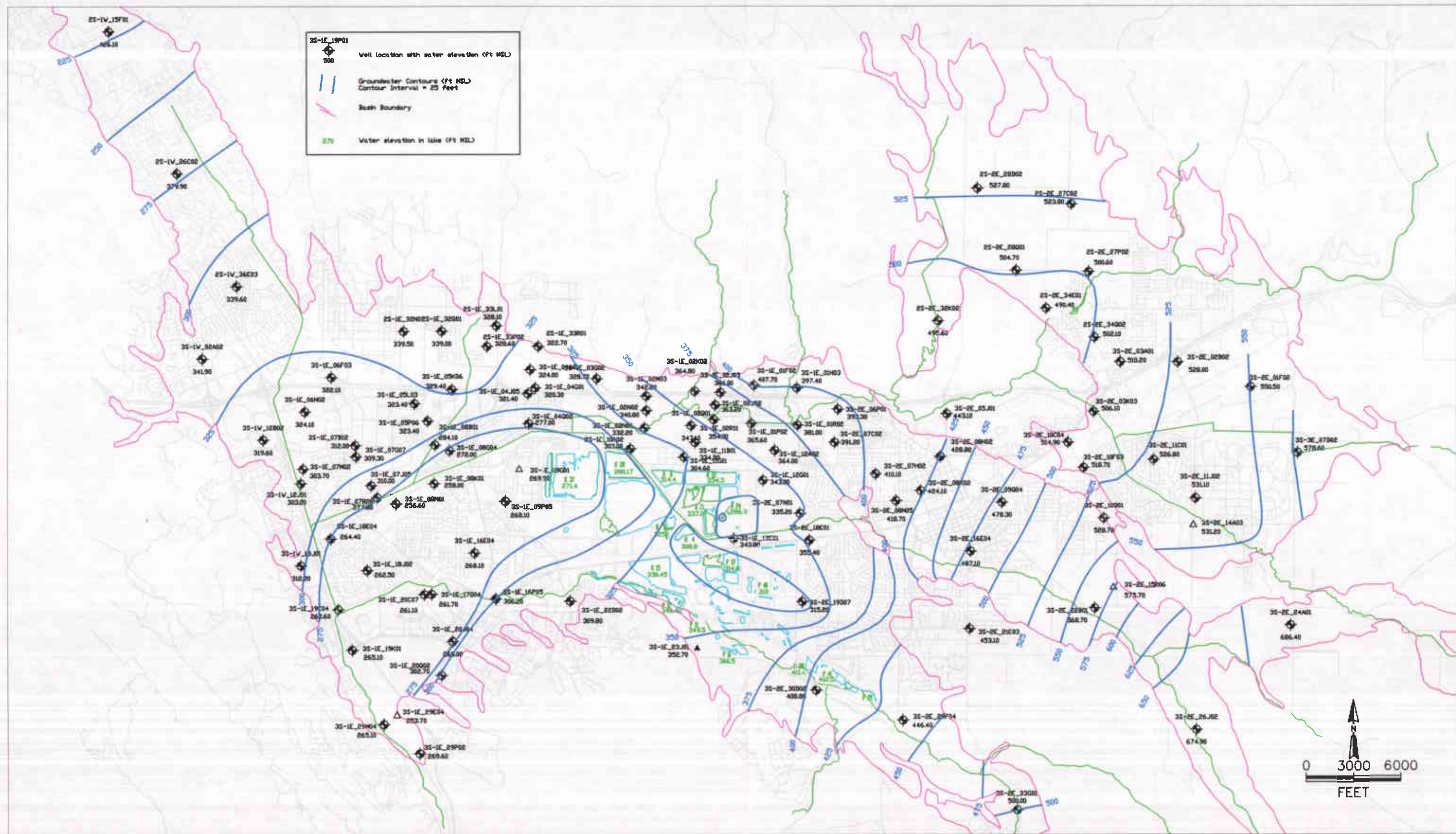
[Geotracker Home](#) | [Site/Facility Finder](#) | [Case Finder](#) | [MTBE/Case Reports](#)

GLOBAL_I	FIELD_PO	STATUS	GW_MEAS	DTFPROD	DTW	RISER_HT	TOT_DEP	GW_MEAS
T0601300	MW-3	ACT	3/15/2004		25.3		27.45	
T0601300	MW-1	ACT	3/15/2004		22.58		33.48	
T0601300	MW-2	ACT	3/15/2004		22.85		34.7	

GLOBAL_I	FIELD_PT	ELEV_SURVEY	ELEVATION	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VA	ELEV_SUF	RISER_HT	ELEV_DESC
T0601300	MW-1	12/12/2001	424.75	DIG		29			VIRGIL CHAVEZ LAND SURVEYING
T0601300	MW-2	12/12/2001	422.64	DIG		29			VIRGIL CHAVEZ LAND SURVEYING
T0601300	MW-3	12/12/2001	426.66	DIG		29			VIRGIL CHAVEZ LAND SURVEYING

21320 San Ramon Valley Blvd.

Well	Well Elevation (feet msl)	Date	Depth to GW (feet)	GW Elevation (feet msl)
MW-1	424.75	3/15/2004	22.58	402.17
MW-2	422.64	3/15/2004	22.85	399.79
MW-3	426.66	3/15/2004	25.3	401.36



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE, PLEASANTON, CA 94588

DWN: Tom Rooze

DES.: Gerry Gates

CHK:

APPD:

Semi Annual Groundwater Gradient Map
2003 Water Year, Fall 2003 (September)
Upper Aquifer, Livermore Valley Basin, California

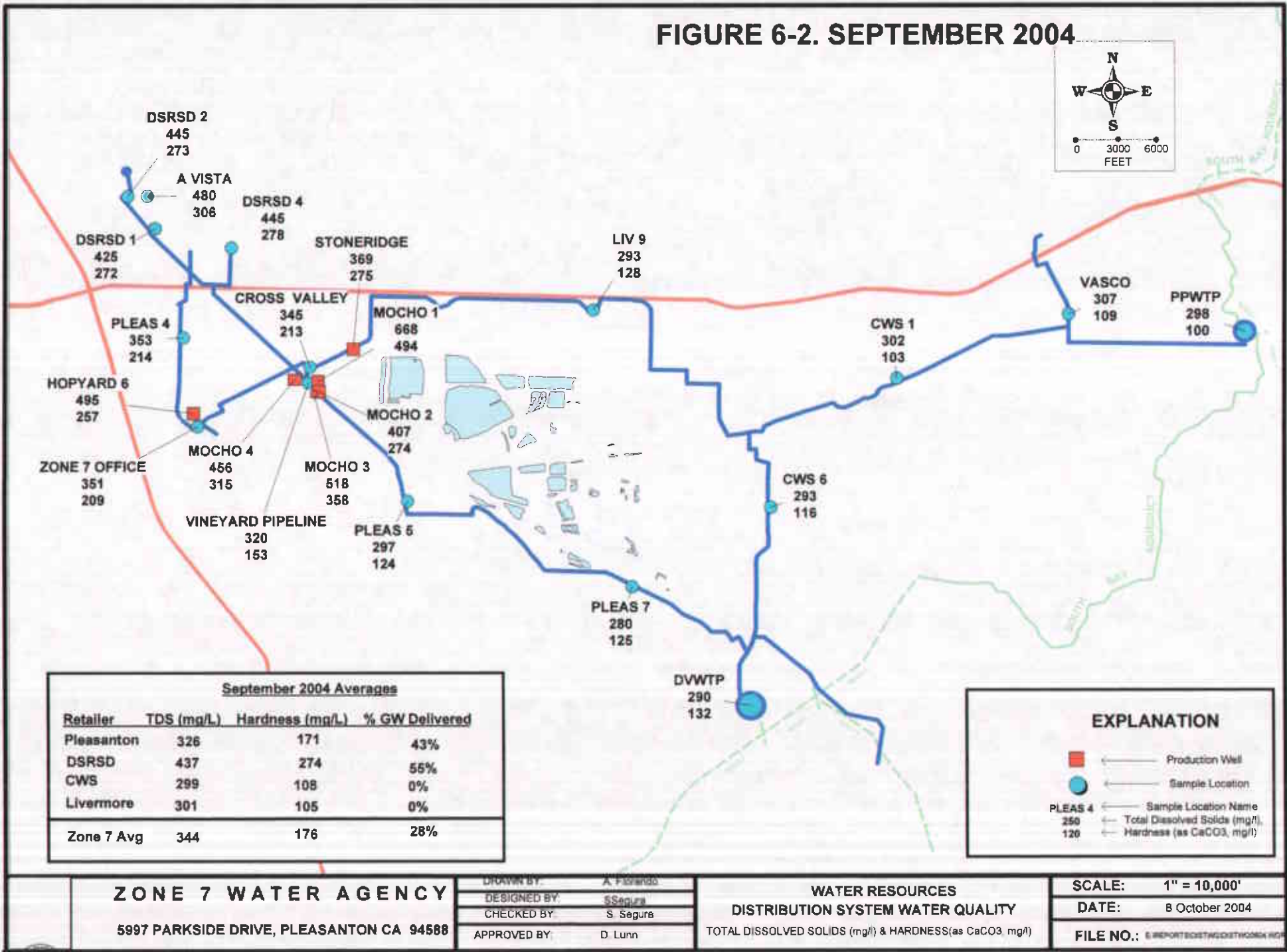
FILE: 2003GWUpper.dwg

DATE: Aug 5, 2004

FIGURE NUMBER:

Attachment C
WELL SURVEY INFORMATION

FIGURE 6-2. SEPTEMBER 2004



September 2004 Averages

Retailer	TDS (mg/L)	Hardness (mg/L)	% GW Delivered
Pleasanton	326	171	43%
DSRSD	437	274	55%
CWS	299	108	0%
Livermore	301	105	0%
Zone 7 Avg	344	176	28%

EXPLANATION

- Production Well
- Sample Location
- PLEAS 4 Sample Location Name
- 250 Total Dissolved Solids (mg/l)
- 120 Hardness (as CaCO₃, mg/l)

ZONE 7 WATER AGENCY
 5997 PARKSIDE DRIVE, PLEASANTON CA 94588

DRAWN BY: A. Florindo
 DESIGNED BY: S. Segura
 CHECKED BY: S. Segura
 APPROVED BY: D. Lunn

WATER RESOURCES
DISTRIBUTION SYSTEM WATER QUALITY
 TOTAL DISSOLVED SOLIDS (mg/l) & HARDNESS(as CaCO₃, mg/l)

SCALE: 1" = 10,000'
 DATE: 8 October 2004
 FILE NO.: E:\REPORTS\DISTWQ\DISTWQ04.RPT



ZONE 7 WATER AGENCY
5997 PARKSIDE DRIVE
PLEASANTON, CA 94588

WELL LOCATION MAP

SCALE: 1"= 600 ft

DATE: 11/12/04

8999 SAN RAMON RD
H:\FLOOD\REFERRALS\REFERRALS.WOR