CONESTOGA-ROVERS & ASSOCIATES

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TRANSMITTAL

DATE: April 18, 2011

REFERENCE NO.: 200497

PROJECT NAME: 3790 Hopyard Road, Pleasanton

TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED
11:27 am, Apr 19, 2011
Alameda County
Environmental Health

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QUANTITY	DESCRIPTION
1	Corrective Action Plan

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

COMMENTS:
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street, Pleasanton, CA 94566-6267
Cheryl Dizon, Zone 7 Water Agency, 100 North Canyons Parkway, Livermore, CA 94551
Sam Anabi, CAR Enterprises, 1040 North Benson Avenue, Upland, CA 91786-2157

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

Denis L. Brown
Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
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Fax (707) 865 2542
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Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California
SAP Code 135784
Incident No. 98995842
ACEH No. RO0000363

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown
Senior Program Manager

CORRECTIVE ACTION PLAN

SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD
PLEASANTON, CALIFORNIA

SAP CODE	135784
INCIDENT NO.	98995842
AGENCY NO.	RO0000363

Prepared by:
Conestoga-Rovers & Associates

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APRIL 18, 2010
REF. NO. 200497 (2)
This report is printed on recycled paper.

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EXECUTIVE SUMMARY

Excavation, mobile GWE, and GWE using a dedicated system have been implemented historically at the subject site. The GWE system was operated until reaching its cost-effective limit for removal of petroleum hydrocarbon mass. Magnesium sulfate injection feasibility testing demonstrated its infeasibily for enhancing biodegradation of the remaining source mass. In situ and extraction technologies are limited by the very low permeability soil types, which do not accommodate feasible dispersion or effective mass removal. Collectively, this information demonstrates that on-site residual hydrocarbon mass can not be remediated by any means other than excavation, which is not practical while the station is operating. In addition, there is no practical way to remediate off-site groundwater impacts because they are limited in magnitude and located under Hopyard Road.

Previous investigations identified a possible risk of groundwater reaching Arroyo Mocho Canal; however, there is no data that verifies this assertion. Down-gradient well data show that groundwater impacts have been adequately delineated and there is little possibility that COCs originating from the site would adversely affect the Arroyo Mocho Canal at concentrations exceeding fresh surface water ESLs, which are protective of human and ecological receptors. Based on this reasoning, the preferred remediation option for the site is MNA.

1. INTRODUCTION

Conestoga-Rovers & Associates (CRA), formerly Cambria Environmental Technology, Inc. (Cambria), prepared this *Corrective Action Plan* (CAP) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell). Alameda County Environmental Health's January 20, 2011 letter requested the preparation of this CAP. This CAP complies with California Code of Regulations, Title 23, Division 3, Chapter 16, Underground Storage Tank Regulations.

The subject site is a Shell-branded service station located on the southwest corner of Hopyard Road and Las Positas Boulevard in a mixed commercial and residential area of Pleasanton, California (Figure 1). The current site layout includes three fuel underground storage tanks (USTs), two product dispenser islands, and a station building (Figure 2).

A summary of previous work performed at the site and additional background information is contained in Appendix A.

2.0 SITE BACKGROUND

2.1 HISTORICAL SITE USE

A review of aerial photographs from 1946 to 2009 indicates that the site was in agricultural use from 1946 to 1968 and that a service station occupied the site from at least 1979 to the present. The surrounding area is of mixed commercial and residential use.

2.2 PRODUCT RELEASES AND SOURCE AREA

Site assessment activities began in 1986, when hydrocarbons were detected in five borings drilled adjacent to the USTs prior to UST replacement. Release source and volume are unknown. The USTs were replaced in 1988, and the UST pit was over-excavated to 20 feet below grade (fbg). Fuel systems at the site were upgraded in 1998 and 2002. One 550-gallon waste oil tank was removed in 2007.

2.3 SITE GEOLOGY AND HYDROGEOLOGY

2.3.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

According to the *Evaluation of Ground Water Resources: Livermore and Sunol Valleys* (California Department of Water Resources [DWR] Bulletin No. 118-2, June 1974), the site is located in the Bernal sub-basin of the Livermore Valley groundwater basin. Streams draining Livermore Valley merge in the Bernal sub-basin and then leave the valley as Arroyo de la Laguna.

Shallow sediments below the site are primarily low-permeability silts and clays to a depth of approximately 43 to 53 feet underlain by interbedded sand, silt, and clay. DWR Bulletin No. 118-2 indicates that surface soils extend to 110 fbg in the area of the site and that water-bearing materials below these shallow sediments are comprised of the valley-fill materials. These materials are present as a sequence of sandy gravel and sandy clayey gravel aquifers up to 100 feet in thickness. The aquifers are separated by silty clay confining beds up to 30 feet in thickness.

2.3.2 SOIL TYPES

Available cross-sections and exploratory boring logs are included in Appendix B. The locations of the wells and the soil borings are shown on Figures 2 and 3.

Shallow soils consist of interbedded layers of sandy clay, clayey sand, silty clay, and clay from the surface to approximately 43 to 53 fbg. Shallow groundwater occurs in a sandy lens within a relatively low permeability zone at a depth of approximately 24 fbg. Deeper soils consist of silt and sand interbeds to approximately 75 fbg. The lowermost portion of the shallow low permeability zone consists of silts and clays to approximately the total explored depth of 120 fbg. A sandy layer was encountered at approximately 117 fbg in one boring installed down gradient of the site.

2.3.3 GROUNDWATER DEPTH AND FLOW DIRECTION

The depth to groundwater at the site typically ranges between 12 to 19 fbg. A groundwater contour map for the first quarter 2011 groundwater monitoring event is included as Figure 4. As seen on Figure 4, the groundwater flow direction for the site is predominantly toward the south-southeast to southeast, which is consistent with historical groundwater flow direction.

2.3.4 GROUNDWATER QUALITY ASSESSMENT

The California State Water Resources Control Board's Geotracker website file for the environmental case at this site states that the groundwater at this site is considered a "drinking water supply"; however, neighboring properties are served by the local municipal water purveyor for potable water.

2.4 PREFERENTIAL PATHWAY ANALYSIS

In 2002 and 2003, Cambria conducted a utility conduit survey to determine the location of potential preferential pathways in the site vicinity. On- and off-site utility locations are shown on Figures 2 and 3.

Cambria used information acquired from the City of Pleasanton and Pacific Gas and Electric (PG&E), in addition to conducting a site visit to identify underground utilities and potential receptors. The identified locations of sanitary and storm sewers, and water, natural gas, and electric utility lines are mapped on Figures 2 and 3 and summarized below:

- One 16-inch diameter water main and one 20-inch diameter water main trend north along Hopyard Road, and another 16-inch diameter water main line trends east along Las Positas Boulevard. City of Pleasanton engineering maps indicate that the water mains are typically buried at a depth of approximately 5.6 to 7.2 feet to the top of the pipe. The bottom of the deepest trench backfill is estimated to be approximately 9 fbg.
- A 15-inch diameter storm drain flows north along Hopyard Road, and an 18-inch diameter storm drain flows east along Las Positas Boulevard. City of Pleasanton engineering maps of the region indicate that the storm drain conduits are typically buried at a depth of approximately 6.5 to 10.2 feet to the top of the pipe. The bottom of the deepest trench backfill is estimated to be approximately 12.5 fbg.
- According to the most recent map of utilities for the area, which predates construction of Las Positas Boulevard, an electric line runs northeast from the site into an electric line of unknown size that trends west-east along Las Positas Boulevard. Electric lines are typically buried at a depth of approximately 2 to 3 fbg.

- A gas line runs along the eastern edge of Hopyard Road and runs across the northern portion of Hopyard Road.
- No sanitary sewer lines were identified on any of the available utility maps.

Groundwater depths have typically ranged from 12 fbg to 19 fbg, although average depths range from 13 to 15 fbg. Groundwater typically flows toward the south-southeast to southeast. Given the approximated depth to the bottom of the aforementioned pipes, it is possible that the storm drain trench backfill intercepts groundwater during times of high water elevation. However, the storm drains are located at shallower depths than groundwater has typically been measured; therefore, they have not likely influenced chemical migration from the site.

2.5 SENSITIVE RECEPTORS

2.5.1 WELL SURVEY

In 2002 and 2003, Cambria conducted a sensitive receptor survey. Cambria reviewed DWR and Alameda County Flood Control & Water Conservation District Zone 7 Water Agency (Zone 7) files to locate records of municipal and private wells within a ½-mile radius of the site. A total of six wells, not including monitoring wells, was identified through the DWR and Zone 7 records within the ½-mile radius. The predominant groundwater flow direction, as calculated from depth to water measurements in on- and off-site monitoring wells, is toward the south-southeast to southeast (Figure 4). One abandoned well is located either on site or immediately down gradient of the site. According to Wyman Hong of Zone 7, the well was an old farm well formerly owned by Volk McClain Company in 1960. Records show the well specifications to be 12 inches in diameter with a total depth of 172 fbg. The well was last sampled in 1978 by Zone 7. Mr. Hong also stated that Zone 7 could not locate the well, its status is "unlocatable," and it is considered closed by Zone 7. One active municipal well (Hopyard well 6) and one destroyed Zone 7 municipal well (Hopyard well 1) are located approximately 0.3 mile southeast of the site. Two additional active wells of unknown use are located 0.43 mile to the southeast. One destroyed irrigation well is located approximately ½-mile east of the site. The well locations identified in the well survey are shown on Figure 1, and a table summarizing well details is presented in Appendix C.

Given the distance from the site to the municipal wells, it is unlikely that hydrocarbons originating from the site will reach these wells. Wells S-14 and S-15 presently serve as sentry wells to monitor possible migration of methyl tert-butyl ether (MTBE) to the municipal well.

2.5.2 SURFACE WATER

Arroyo Mocho, a canal located approximately 400 feet south of the site, is the closest potential surface water receptor to the site. Surface water in Arroyo Mocho flows to the west-southwest at a depth of approximately 25 feet below the surrounding grade. Current concentrations of chemicals of concern (COCs) in wells S-9 and S-12, which are located along the up-gradient boundary of Arroyo Mocho, are compared to San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs)[1] for freshwater surface water in the following table.

TABLE A

COCs	*Current Maximum Concentrations in Boundary Wells S-9 and S-12 Units in µg/l*	*ESLs for Freshwater Surface Water Bodies (Table F) Units in µg/l*
TPHg	<50	100
Benzene	<0.50	46
Toluene	<0.50	40
Ethylbenzene	<0.50	30
Xylenes	1.8	20
MTBE	**13**	5.0
Tertiary-Butyl Alcohol (TBA)	<10	12

No COCs were detected in well S-12. Given the attenuation of MTBE concentrations between well S-5 and S-9 (Figure 4), and no COC concentrations in well S-12, it is unlikely that water in Arroyo Mocho has been impacted by chemicals from the site.

3.0 REMEDIATION

Appendix D presents available tables detailing the historical performance of full-scale remedial actions and remediation feasibility testing. The site history included as Appendix A provides additional details for the events described below.

---

1 *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater,* California Regional Water Quality Control Board, Interim Final – November 2007 [Revised May 2008]

3.1 1988 EXCAVATION

In 1988, three fuel USTs were removed and impacted soils were over-excavated to a depth of 20 fbg. Analytical results for soil samples collected during the UST removal are presented in Table 1. Three new fuel USTs were installed in a new location east of the former UST excavation.

3.2 2001-2003 MOBILE GROUNDWATER EXTRACTION (GWE)

In May 2001, Advanced Cleanup Technologies Inc. (ACT) conducted three weekly 8-hour mobile GWE events using site monitoring wells S-2 and S-4 and tank backfill well T-2. In August 2001, ACT conducted three additional GWE events. In April 2002, Onyx Industrial Service (Onyx) initiated twice-monthly events extracting from tank backfill well T-2. Between June 2002 and September 2002, Onyx also extracted groundwater from well S-4. Extraction from well S-4 was discontinued due to low extraction volumes. Tank backfill well T-4 was added to the twice-monthly extraction events in October 2002. Through the end of February 2003, an estimated 0.96 pound of total petroleum hydrocarbons as gasoline (TPHg) and 9.31 pounds of MTBE were removed via mobile GWE.

3.3 2003-2006 GWE

From July 2003 until May 2006, Cambria and then Delta Consultants (Delta) (beginning in February 2005) operated a full-scale GWE system using three groundwater recovery wells (SR-1 through SR-3) and one UST backfill well (T-3). The GWE system was operated until reaching its cost-effective limit for mass removal. The GWE system extracted and treated an estimated 3,142,212 gallons of water containing an estimated 15.7 pounds of MTBE.

3.4 2010 MAGNESIUM SULFATE ($MGSO_4$) INJECTION FEASIBILITY STUDY

In May and August 2010, Delta conducted an $MgSO_4$ injection feasibility study on wells S-2 and S-4. Approximately 75 gallons of $MgSO_4$ solution were gravity-fed into each well during each event. Based on subsequent groundwater sampling, Delta concluded

that the $MgSO_4$ injections were of limited effectiveness, and should not be implemented on a full-scale basis.

4.0 DISTRIBUTION OF COCS

4.1 HYDROCARBON DISTRIBUTION IN SOIL

Hydrocarbons in soils have been adequately delineated to below ESLs and are primarily present in the area of the current and former dispensers and fuel USTs. Vadose zone soil impacts (less than 15 fbg) exceeding ESLs are defined horizontally by soil samples collected from S-3, A1, B1, S-10, S-7, S-5, CPT-5, and SR-1. Deeper soil impacts (greater than 15 fbg) are likely related to groundwater impacts and generally have been found within the area of the historical groundwater plume.

Historical soil analytical data are presented in Tables 1 and 2, and soil sampling locations are presented in Figures 2 and 3.

4.2 HYDROCARBON DISTRIBUTION IN GROUNDWATER

Currently, there are 13 shallow monitoring wells, 4 deeper groundwater monitoring wells located both on site and off site, 3 on-site groundwater recovery wells, and 4 UST backfill wells at the site. Groundwater has been monitored on site since November 1987. Historical groundwater data is presented in Tables 3 and 4. During the most recent groundwater monitoring event on January 21, 2011 (Figure 4), maximum concentrations of 2,000 micrograms per liter (µg/L) TPHg, 21 µg/l benzene, 25 µg/l MTBE, and 3,500 µg/l TBA were detected in shallow monitoring well S-2. All COC concentrations in deeper wells are below ESLs. As shown in the following table, MTBE and TBA concentrations are projected to reach ESLs within 10 years, with the exception of TBA in well S-6 which shows an increasing trend. Since TBA is a degradation product of MTBE and MTBE concentrations in S-6 are decreasing, it is anticipated that TBA concentrations will begin to drop in the near future and will reach ESLs in a reasonable timeframe.

TABLE B				
Well ID	*Constituent of Concern*	*January 21 2011 Concentration (µg/L)*	*RWQCB Drinking Water ESL*	*Time to Reach Drinking Water ESL*
S-2	MTBE	**25**	5.0	3
	TBA	**820**	12	7
S-4	MTBE	**13**	5.0	1
	TBA	**810**	12	10
S-6	MTBE	**6.6**	5.0	1
	TBA	**3,500**	12	Increasing trend, MTBE degrading
S-7	MTBE	**6.9**	5.0	1
S-8	MTBE	**5.3**	5.0	1
S-9	MTBE	**13**	5.0	1
S-11	MTBE	**11**	5.0	1
SR-2	MTBE	1.3	5.0	Achieved
	TBA	**53**	12	5
SR-3	MTBE	1.8	5.0	Achieved
	TBA	**85**	12	3

The hydrocarbon plume in groundwater is adequately delineated down gradient to the south and south east by wells S-12, S-14, and S-15. Trends of MTBE and TBA concentrations in wells S-2, S-4, S-6 through S-9, S-11, SR-2, and SR-3 are presented in Figures 5 through 13.

4.3 2002 SOIL VAPOR INVESTIGATION

In April and July 2002, Cambria conducted a soil gas survey in the UST backfill wells (T-1 through T-4). Soil vapor samples contained up to 10,000 parts per million by volume (ppmv) TPHg, 4.2 ppmv benzene, 1.0 ppmv toluene, 1.2 ppmv xylenes, and 780 ppmv MTBE. Ethylbenzene was not detected in the soil vapor samples. Sample locations are shown on Figure 2 and laboratory data are presented in Table 5.

5.0 FEASIBLITY STUDY / CAP

5.1 PROPOSED SITE CLEANUP GOALS

Cleanup goals are typically based on one or more of the following criteria:

- California Department of Health Services (DHS) primary or secondary maximum contaminant levels (MCLs) for drinking water,
- ESLs established by the RWQCB,
- Risk-based clean-up levels established by risk assessment or risk-based corrective action (RBCA) analysis,
- Current closure guidelines from the regulatory agencies, such as the California State Water Resources Control Board (SWRCB) criteria for low-risk groundwater cases,
- Application of Best Available Technology based on remediation system operation data that demonstrate asymptotic levels have been achieved for chemical concentrations in soil and/or groundwater,
- Background concentrations of individual pollutants, or
- Technologic and economic feasibility.

The Arroyo Mocho Canal is the primary receptor. As stated above, it does not appear that COCs originating the site have or will reach the Arroyo Mocho Canal at concentrations exceeding fresh surface water ESLs, which are protective of human and ecological receptors. Additionally, this station is part of a service station sale with contract provisions for long-term use of the Shell brand and specific restrictions on site development to commercial uses excluding child day care, elder care, or other similar sensitive uses. We propose commercial ESLs as the remediation goals for the site.

5.2 REMEDIAL ALTERNATIVES DISCUSSION AND APPROACH

Excavation and GWE have been implemented at this site. The GWE system was operated until reaching its cost-effective limits. $MgSO_4$ testing proved its infeasibility for enhancing biodegradation of the residual mass. Therefore, CRA's opinion is that the remaining source mass can not be actively remediated by any means other than excavation. In situ and extraction technologies, such as air sparging, soil vapor extraction, or multi-phase extraction, are limited by the very low permeability soil types, which do not accommodate feasible dispersion or effective mass removal. In addition, there is no practical way to remediate off-site groundwater impacts because they are limited in magnitude and located under Hopyard Road.

As stated above, it does not appear that COCs originating from the site reach the Arroyo Mocho Canal at concentrations exceeding fresh surface water ESLs, which are protective of human and ecological receptors. Thus, COC concentrations are currently at acceptable levels.

Given the site conditions and remedial objective, excavation is considered the only feasible source removal method, and excavation is not practical while the service station is in operation. Discharge of COCs to Arroyo Mocho Canal at concentrations exceeding fresh water surface water ESLs is unlikely. Therefore, CRA believes monitored natural attenuation (MNA) is the only remaining feasible technology for mitigating residual hydrocarbon mass, and it is evaluated below.

5.2.1 MNA

Description: MNA consists of allowing hydrocarbons to biodegrade naturally under the terms of a long-term groundwater monitoring plan. Biodegradation, adsorption, chemical reactions, and volatilization can all naturally degrade hydrocarbons found in impacted groundwater. MNA is performed by monitoring the natural degradation process that can take place in the subsurface. The primary indicator of the success of natural attenuation is a decreasing concentration trend. Secondary indicators such as dissolved oxygen (DO) concentrations, oxidation-reduction potential, alkalinity, nitrate, sulfate, and ferrous iron concentrations can also be used to evaluate the presence of and the potential for natural attenuation.

Feasibility and Cost-Effectiveness: MNA is typically a low-cost alternative if cleanup levels can be met in a reasonable timeframe. DO data (Table 3) suggest anaerobic biodegradation is occurring, which is slower than aerobic biodegradation. As previously discussed, it does not appear that COCs originating the site reach the Arroyo Mocho Canal at concentrations exceeding fresh surface water ESLs; thus MNA would be the most cost-effective approach.

6.0 CONCLUSIONS

The Arroyo Mocho Canal is the primary potential receptor. Groundwater impacts are adequately delineated, and, as stated above, it does not appear that COCs originating from the site reach the Arroyo Mocho Canal at concentrations exceeding fresh surface water ESLs, which are protective of human and ecological receptors. Additionally, this station is part of a service station sale with contract provisions for long term use of the

Shell brand and specific restrictions on site development to commercial uses excluding child day care, elder care, or other similar sensitive uses. We propose commercial ESLs as the remediation goals for the site.

Residual source mass can not be removed efficiently or cost effectively. Additionally, the apparent risk to receptors does not warrant active remediation.

7.0 RECOMMENDATIONS

Based on the information presented, CRA recommends implementing MNA and continuing semiannual groundwater monitoring following the established monitoring program.

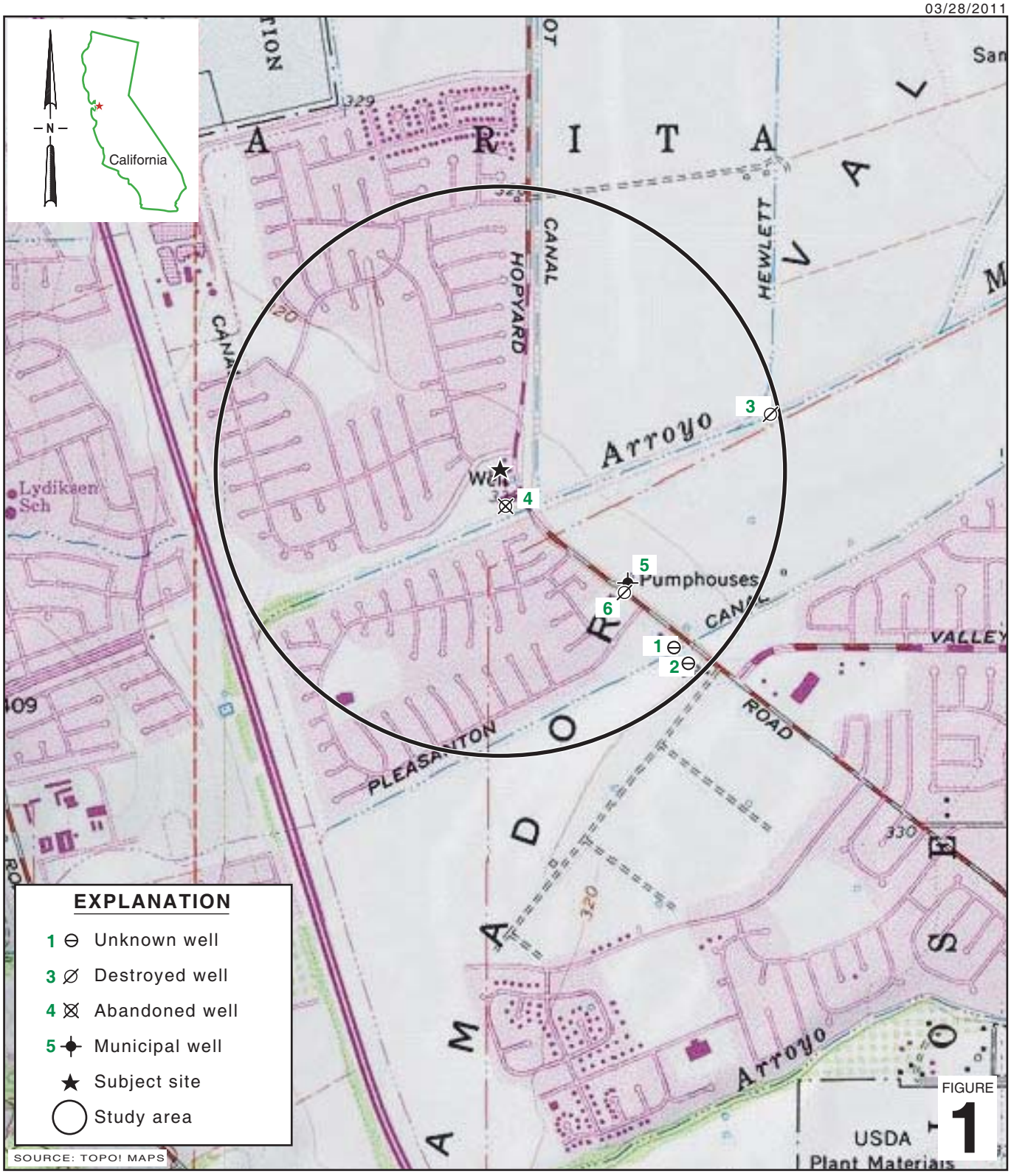
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CEG, CHG

William Brasher, PE

FIGURES

03/28/2011



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0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

FIGURE 1

Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

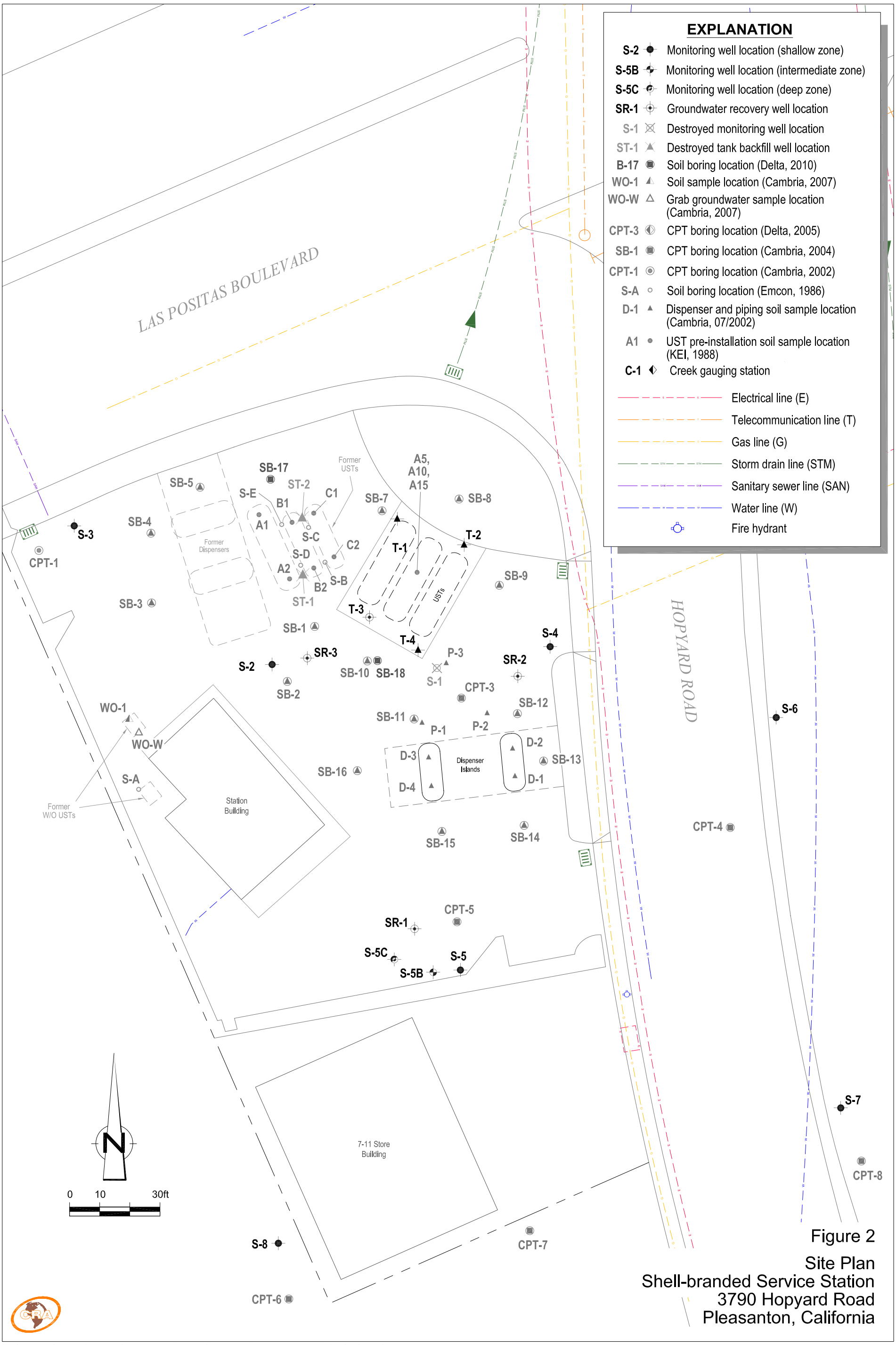
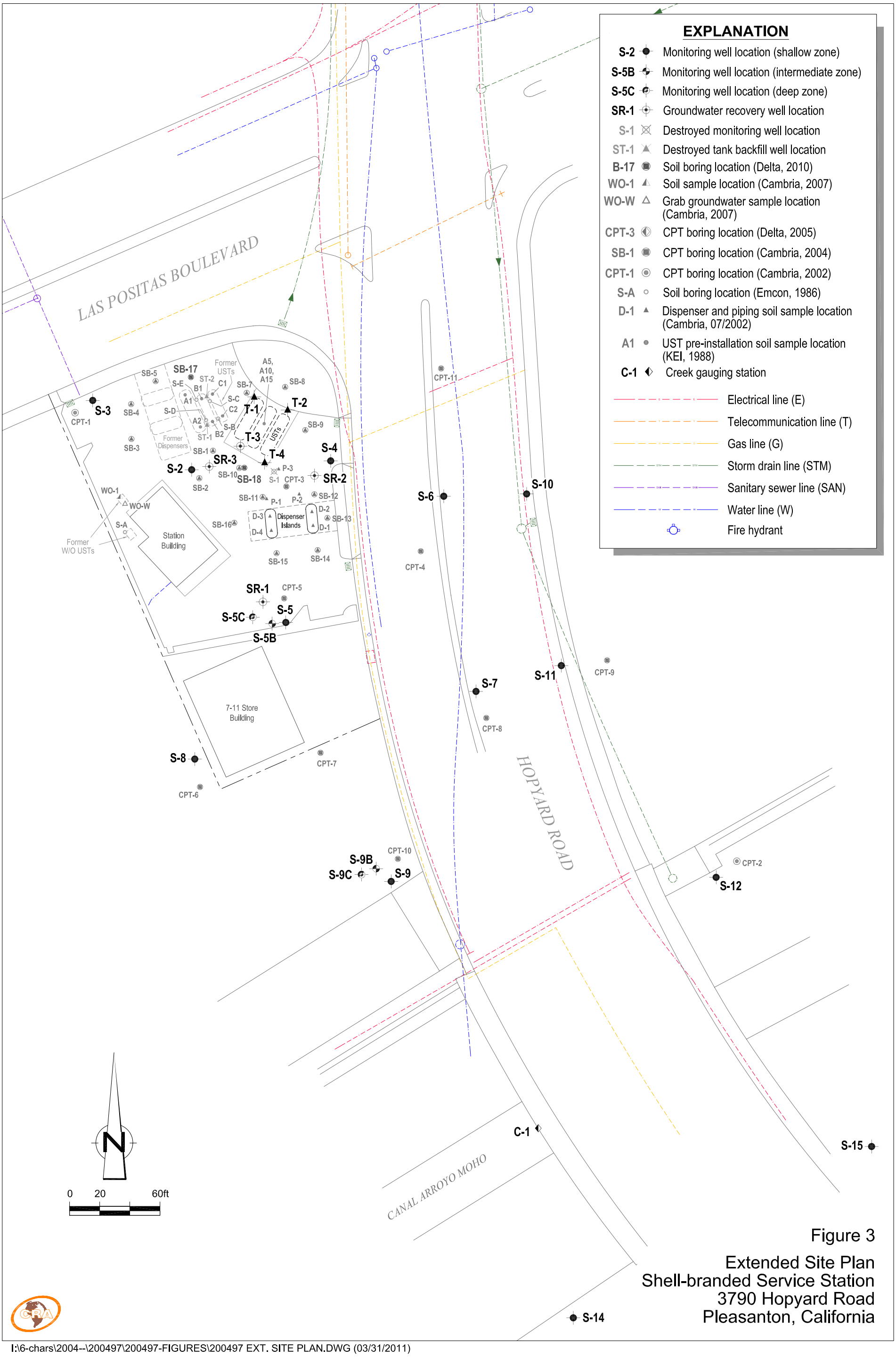


Figure 2

Site Plan
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California

I:\6-chars\2004--\200497\200497-FIGURES\200497 SITE PLAN.DWG (03/31/2011)



EXPLANATION

- **S-2** Monitoring well location (shallow zone)
- **S-5B** Monitoring well location (intermediate zone)
- **S-5C** Monitoring well location (deep zone)
- **SR-1** Groundwater recovery well location
- **S-1** Destroyed monitoring well location
- **ST-1** Destroyed tank backfill well location
- **B-17** Soil boring location (Delta, 2010)
- **WO-1** Soil sample location (Cambria, 2007)
- **WO-W** Grab groundwater sample location (Cambria, 2007)
- **CPT-3** CPT boring location (Delta, 2005)
- **SB-1** CPT boring location (Cambria, 2004)
- **CPT-1** CPT boring location (Cambria, 2002)
- **S-A** Soil boring location (Emcon, 1986)
- **D-1** Dispenser and piping soil sample location (Cambria, 07/2002)
- **A1** UST pre-installation soil sample location (KEI, 1988)
- **C-1** Creek gauging station
- Electrical line (E)
- Telecommunication line (T)
- Gas line (G)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)
- Fire hydrant

Figure 3

Extended Site Plan
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California

I:\6-chars\2004--\200497\200497-FIGURES\200497 EXT. SITE PLAN.DWG (03/31/2011)

EXPLANATION

- **S-2** Monitoring well location (shallow zone)
- **S-5B** Monitoring well location (intermediate zone; not used in contouring)
- **S-5C** Monitoring well location (deep zone; not used in contouring)
- **SR-1** Groundwater recovery well location
- **S-1** Destroyed monitoring well location
- **ST-1** Destroyed tank backfill well location
- **C-1** Creek gauging station (not sampled nor used in contouring)
- Electrical line (E)
- Telecommunication line (T)
- Gas line (G)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)
- Fire hydrant
- Groundwater flow direction and gradient
- XX.XX Groundwater elevation contour, in feet above mean sea level (msl)

Well
ELEV
Benzene
MTBE
TBA

- Well designation
- Groundwater elevation, in feet above msl
- Benzene, MTBE, and TBA concentrations are in micrograms per liter

Notes:
NA = Not available; well not surveyed
ND = Not detected
NDa = Elevated reporting limit, see laboratory report for details
NS = Not sampled
NS* = Not sampled; insufficient water

LAS POSITAS BOULEVARD

HOPYARD ROAD

CANAL ARROYO MOHO

Former USTs
ST-2
ST-1
T-1
T-2
T-3
T-4
USTs
Former Dispensers
S-1
Station Building
Former W/O USTs
Dispenser Islands
7-11 Store Building

S-3	314.87	ND	ND ND
S-4	314.26	1.4	13 810
S-2	315.02	21	25 820
SR-3	314.76	ND	1.8 85
SR-2	314.27	ND	1.3 53
SR-1	313.31	ND	3.2 85
S-5C	295.91	ND	ND ND
S-5B	295.73	ND	ND ND
S-5	313.09	1.4	21 40
S-6	312.65	NDa	6.6 3,500
S-7	311.56	ND	6.9 ND
S-8	311.61	ND	5.3 ND
S-9	310.06	ND	13 ND
S-9B	294.62	ND	2.9 ND
S-9C	295.18	ND	ND ND
S-10	311.97	ND	ND ND
S-11	310.27	ND	11 ND
S-12	305.68	ND	ND ND
S-14	307.10	ND	ND ND
S-15	NA	NS*	
C-1	296.87	NS	

314.00
311.00
308.00
0.02

N

0 20 60ft

Figure 4

Groundwater Contour and Chemical Concentration Map
January 21, 2011
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California

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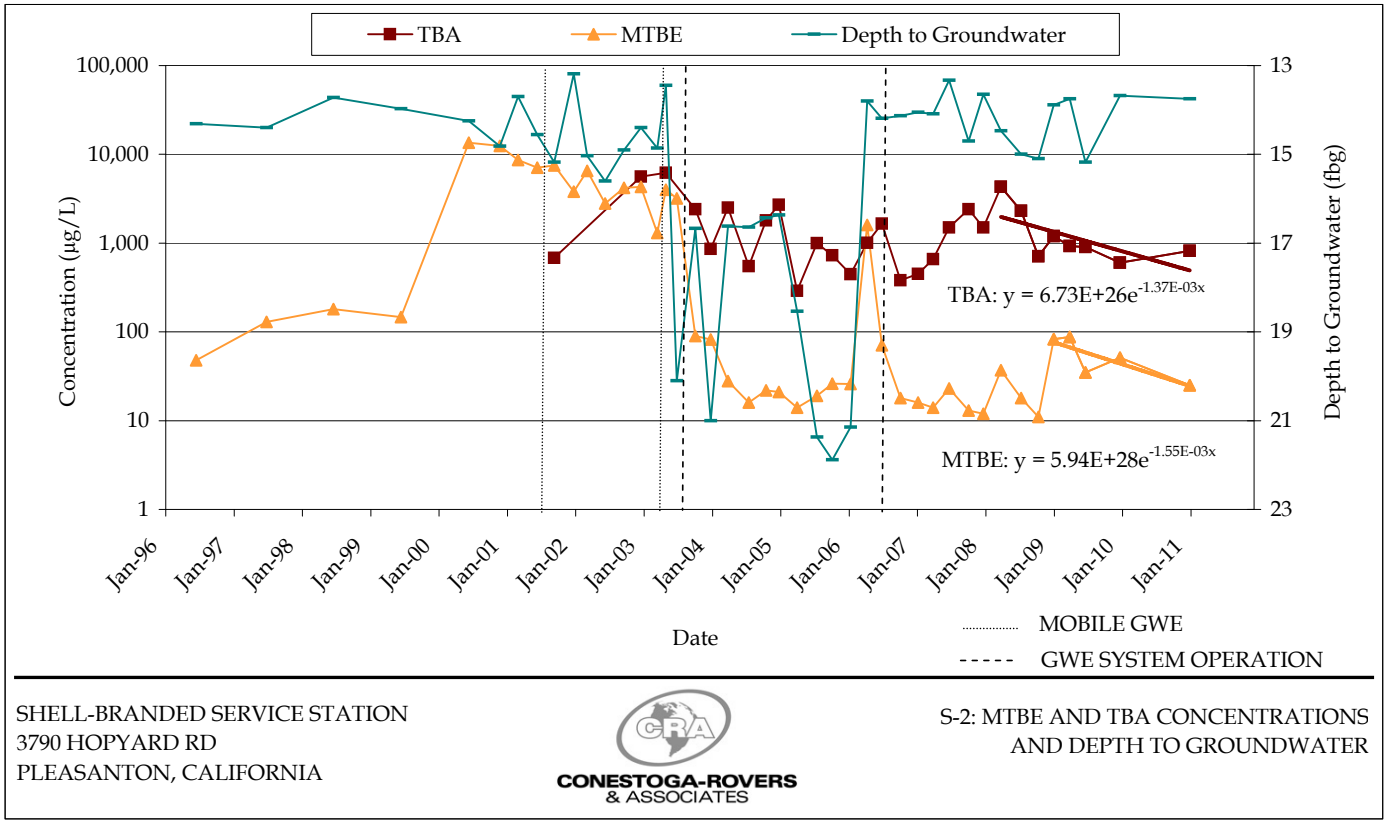
Figure 5: Predicted Time to Reach Environmental Screening Levels in Well S-2

Shell-Branded Service Station 3790 Hopyard Rd, Pleasanton, California

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L; a = decay constant
b = concentration at time (x); x = time (x) in days

	Constituent	Methyl Tertiary Butyl Ether (MTBE)	Tert-Butyl Alcohol (TBA)
Given			
ESL :	y	5	12
Constant:	b	5.94E+28	6.73E+26
Constant:	a	-1.55E-03	-1.37E-03
Starting date for current trend:		1/21/2009	4/11/2008
Calculate			
Attenuation Half Life (years):	(-ln(2)/a)/365.25	1.22	1.39
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Mar 2014	Jun 2018



SHELL-BRANDED SERVICE STATION
3790 HOPYARD RD
PLEASANTON, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

S-2: MTBE AND TBA CONCENTRATIONS AND DEPTH TO GROUNDWATER

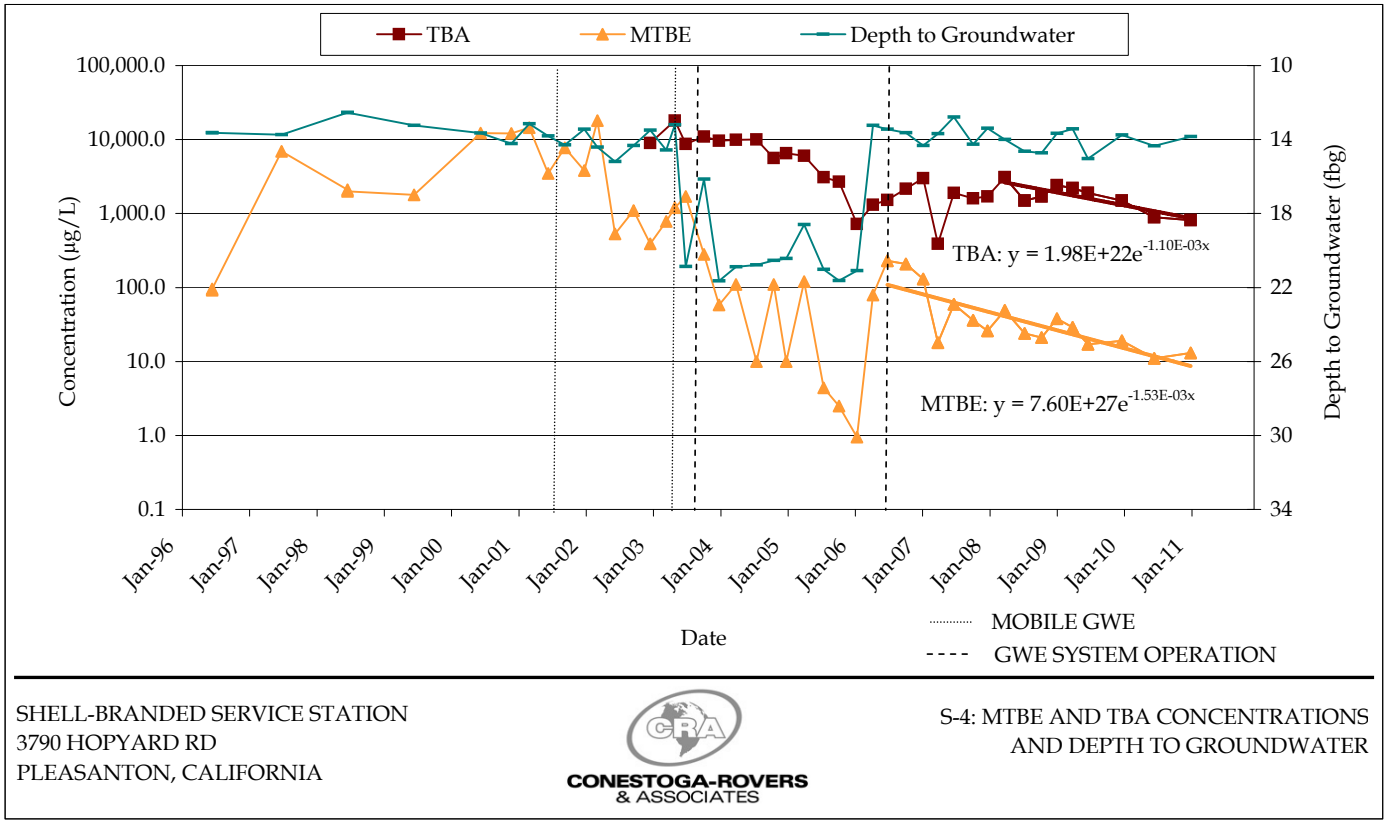
Figure 6: Predicted Time to Reach Environmental Screening Levels in Well S-4

Shell-Branded Service Station 3790 Hopyard Rd, Pleasanton, California

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L; a = decay constant
b = concentration at time (x); x = time (x) in days

	Constituent	Methyl Tertiary Butyl Ether (MTBE)	Tert-Butyl Alcohol (TBA)
Given			
ESL :	y	5	12
Constant:	b	7.60E+27	1.98E+22
Constant:	a	-1.53E-03	-1.10E-03
Starting date for current trend:		7/12/2006	4/11/2008
Calculate			
Attenuation Half Life (years):	(-ln(2)/a)/365.25	1.24	1.73
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Dec 2011	Aug 2021



SHELL-BRANDED SERVICE STATION
3790 HOPYARD RD
PLEASANTON, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

S-4: MTBE AND TBA CONCENTRATIONS AND DEPTH TO GROUNDWATER

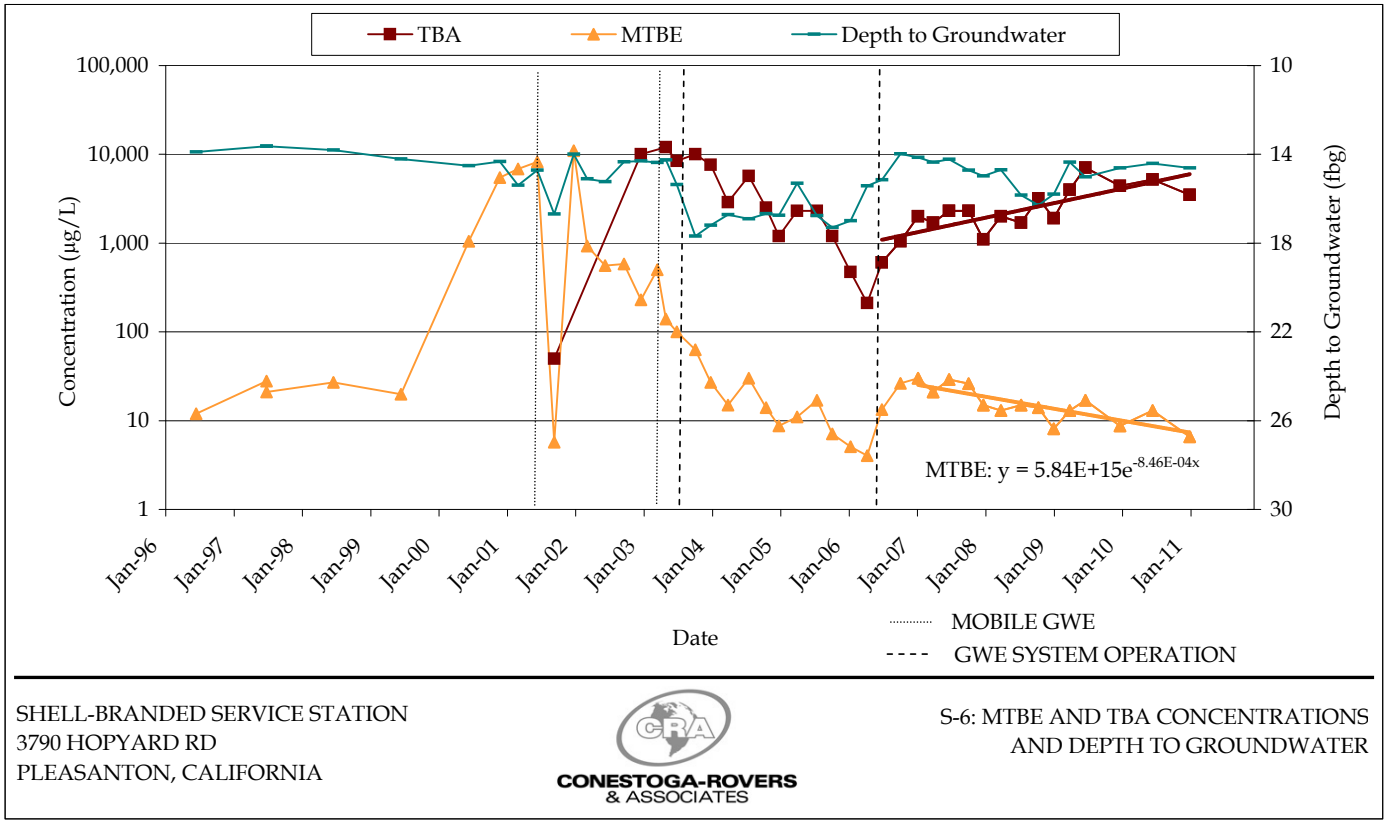
Figure 7: Predicted Time to Reach Environmental Screening Levels in Well S-6

Shell-Branded Service Station 3790 Hopyard Rd, Pleasanton, California

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L; a = decay constant
b = concentration at time (x); x = time (x) in days

	Constituent	Methyl Tertiary Butyl Ether (MTBE)	Tert-Butyl Alcohol (TBA)
Given			
ESL :	y	5	12
Constant:	b	5.84E+15	NA
Constant:	a	-8.46E-04	NA
Starting date for current trend:		1/22/2007	7/12/2006
Calculate			
Attenuation Half Life (years):	(-ln(2)/a)/365.25	2.24	Increasing trend
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Apr 2012	Increasing trend



SHELL-BRANDED SERVICE STATION
3790 HOPYARD RD
PLEASANTON, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

S-6: MTBE AND TBA CONCENTRATIONS AND DEPTH TO GROUNDWATER

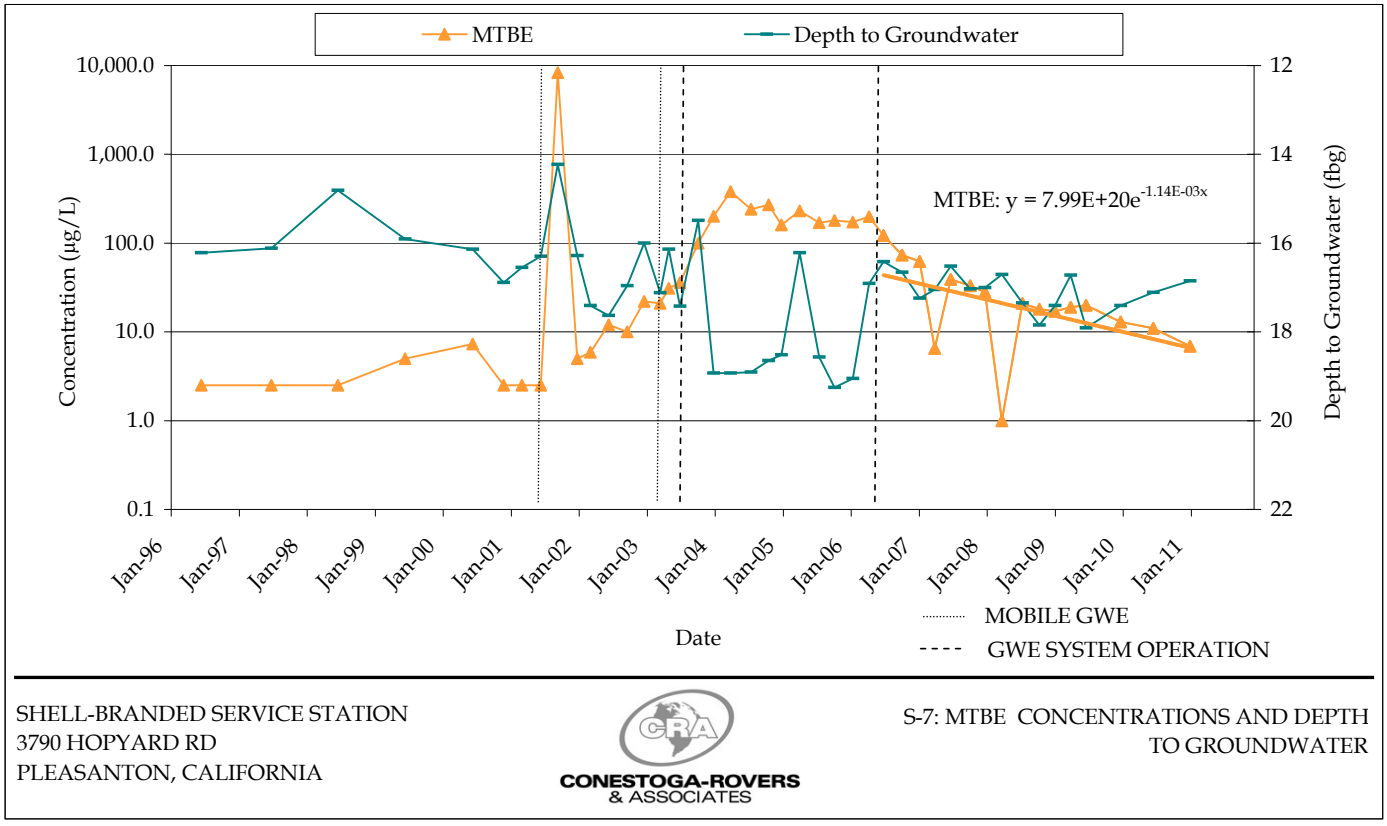
Figure 8: Predicted Time to Reach Environmental Screening Levels in Well S-7

Shell-Branded Service Station 3790 Hopyard Rd, Pleasanton, California

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L, a = decay constant
b = concentration at time (x), x = time (x) in days

		Constituent: Methyl Tertiary Butyl Ether (MTBE)
Given		
ESL :	y	5
Constant:	b	7.99E+20
Constant:	a	-1.14E-03
Starting date for current trend:		7/12/2006
Calculate		
Attenuation Half Life (years):	(-ln(2)/a)/365.25	1.66
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Sep 2011



SHELL-BRANDED SERVICE STATION
3790 HOPYARD RD
PLEASANTON, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

S-7: MTBE CONCENTRATIONS AND DEPTH TO GROUNDWATER

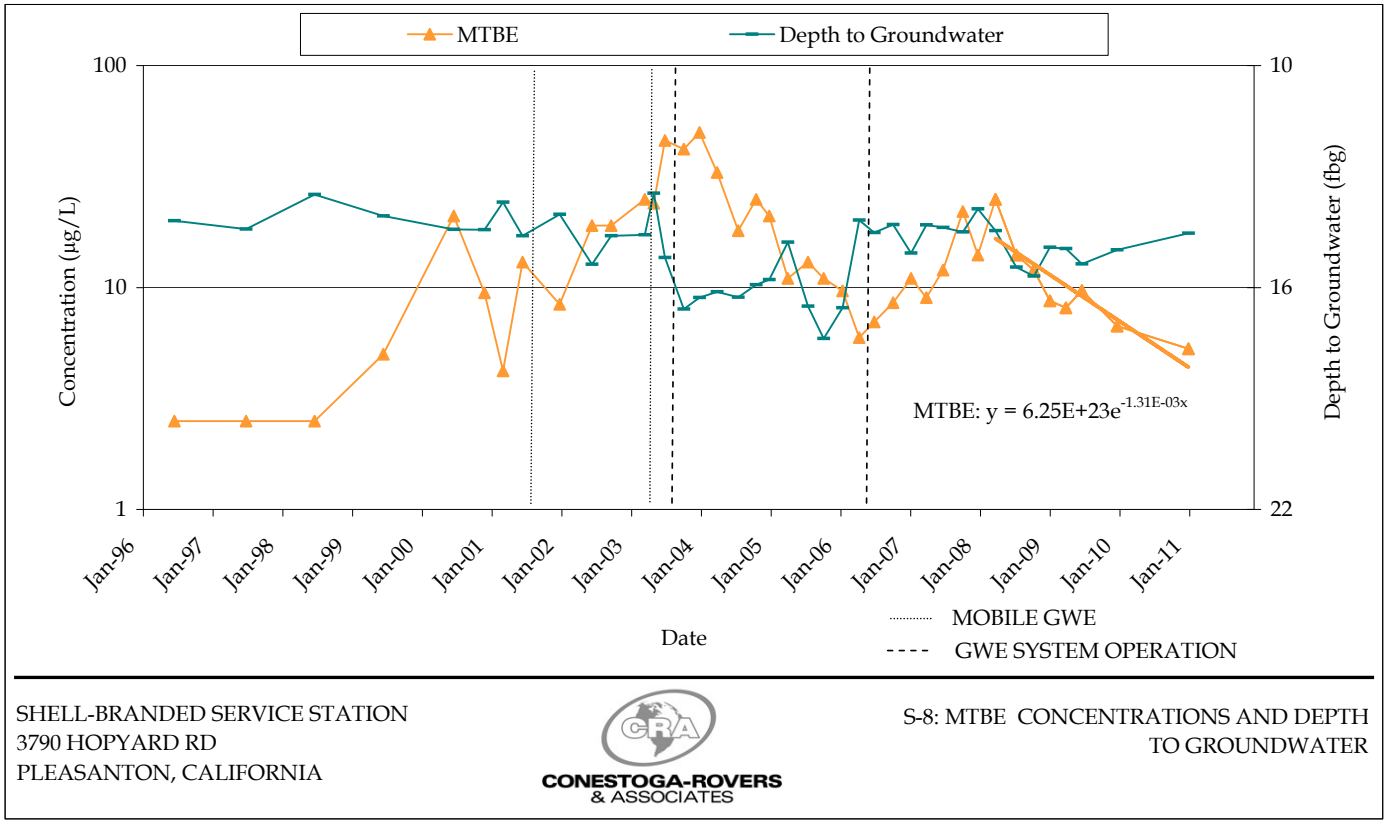
Figure 9: Predicted Time to Reach Environmental Screening Levels in Well S-8

Shell-Branded Service Station 3790 Hopyard Rd, Pleasanton, California

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L, a = decay constant
b = concentration at time (x), x = time (x) in days

	Constituent	Methyl Tertiary Butyl Ether (MTBE)
Given		
ESL :	y	5
Constant:	b	6.25E+23
Constant:	a	-1.31E-03
Starting date for current trend:		4/11/2008
Calculate		
Attenuation Half Life (years):	(-ln(2)/a)/365.25	1.45
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Feb 2011



SHELL-BRANDED SERVICE STATION
3790 HOPYARD RD
PLEASANTON, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

S-8: MTBE CONCENTRATIONS AND DEPTH TO GROUNDWATER

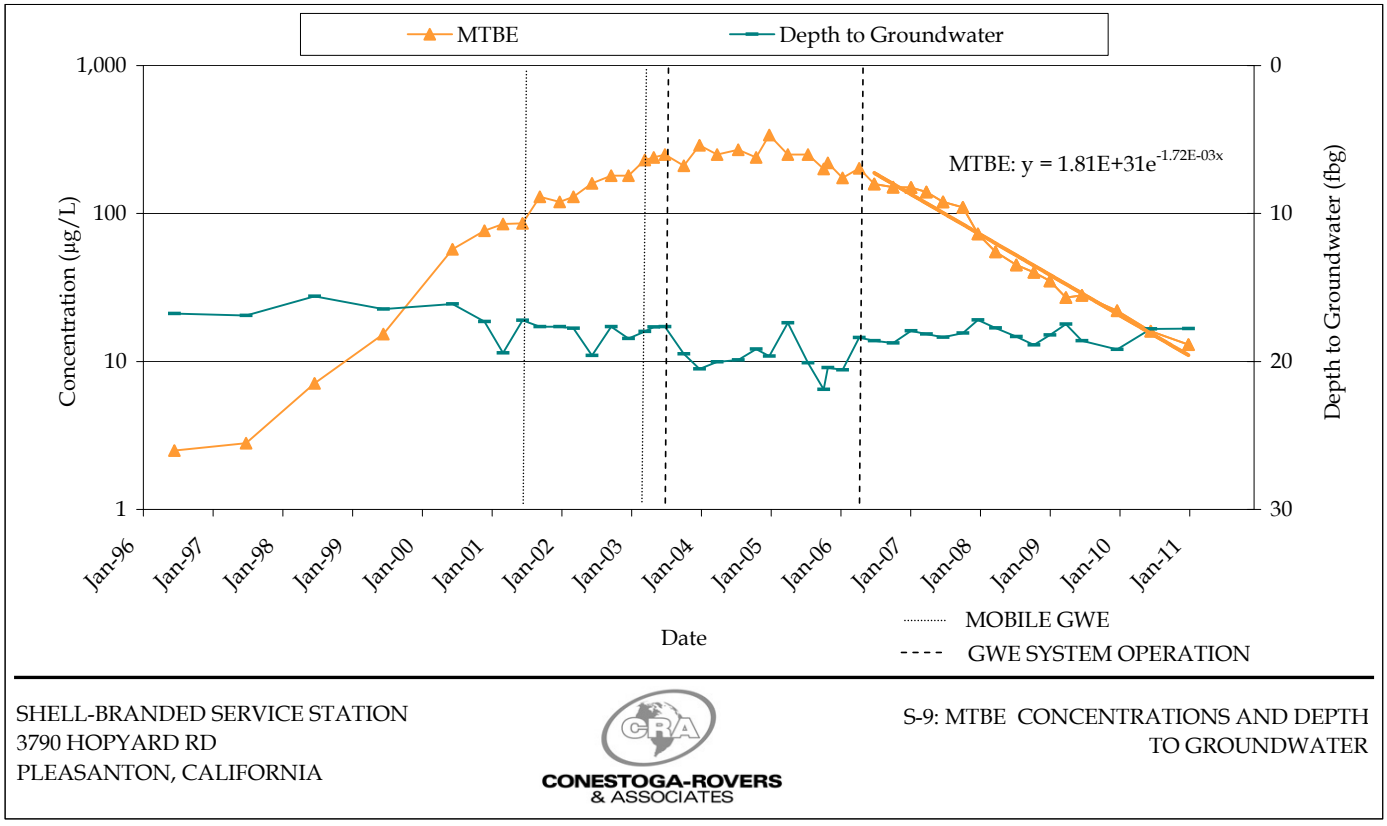
Figure 10: Predicted Time to Reach Environmental Screening Levels in Well S-9

Shell-Branded Service Station 3790 Hopyard Rd, Pleasanton, California

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L, a = decay constant
b = concentration at time (x), x = time (x) in days

	Constituent	Methyl Tertiary Butyl Ether (MTBE)
Given		
ESL :	y	5
Constant:	b	1.81E+31
Constant:	a	-1.72E-03
Starting date for current trend:		7/12/2006
Calculate		
Attenuation Half Life (years):	(-ln(2)/a)/365.25	1.10
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Jan 2012



SHELL-BRANDED SERVICE STATION
3790 HOPYARD RD
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S-9: MTBE CONCENTRATIONS AND DEPTH TO GROUNDWATER

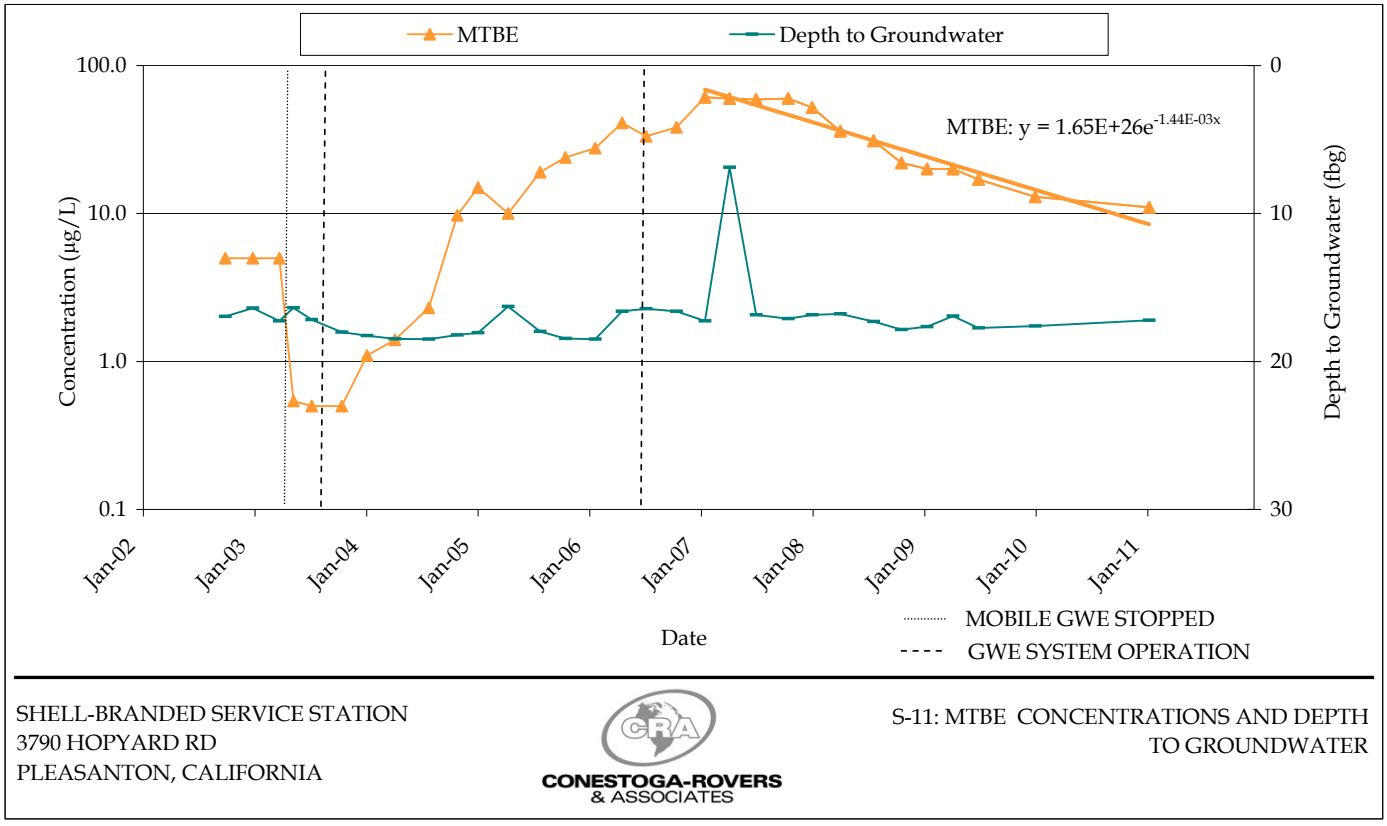
Figure 11: Predicted Time to Reach Environmental Screening Levels in Well S-11

Shell-Branded Service Station 3790 Hopyard Rd, Pleasanton, California

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L, a = decay constant
b = concentration at time (x), x = time (x) in days

		Constituent: Methyl Tertiary Butyl Ether (MTBE)
Given		
ESL :	y	5
Constant:	b	1.65E+26
Constant:	a	-1.44E-03
Starting date for current trend:		1/22/2007
Calculate		
Attenuation Half Life (years):	(-ln(2)/a)/365.25	1.32
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Sep 2011



SHELL-BRANDED SERVICE STATION
3790 HOPYARD RD
PLEASANTON, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

S-11: MTBE CONCENTRATIONS AND DEPTH TO GROUNDWATER

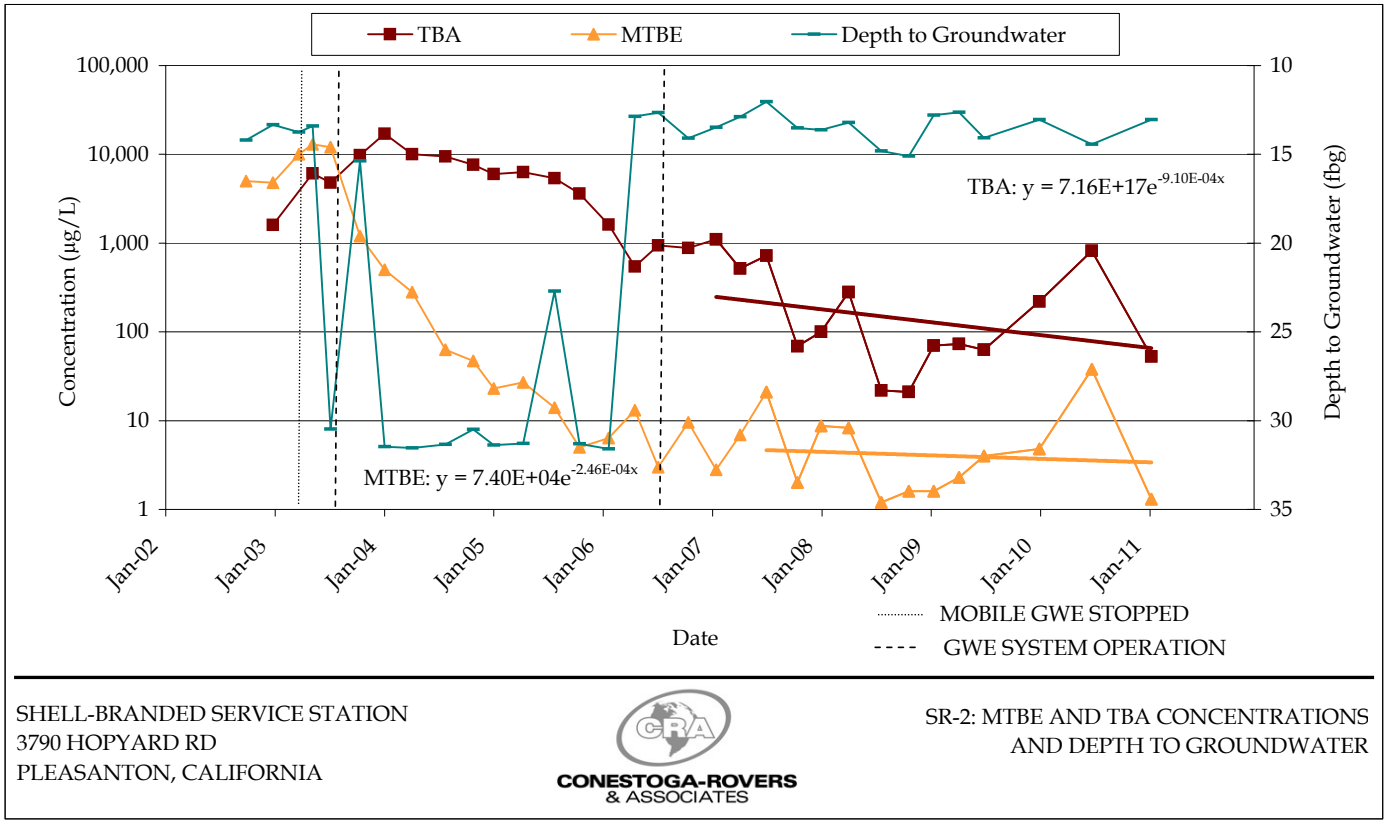
Figure 12: Predicted Time to Reach Environmental Screening Levels in Well SR-2

Shell-Branded Service Station 3790 Hopyard Rd, Pleasanton, California

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L, a = decay constant
b = concentration at time (x), x = time (x) in days

	Constituent	Methyl Tertiary Butyl Ether (MTBE)	Tert-Butyl Alcohol (TBA)
Given			
ESL :	y	5	12
Constant:	b	7.40E+04	7.16E+17
Constant:	a	-2.46E-04	-9.10E-04
Starting date for current trend:		7/9/2007	1/22/2007
Calculate			
Attenuation Half Life (years):	(-ln(2)/a)/365.25	7.71	2.09
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Nov 2006	Mar 2016



SHELL-BRANDED SERVICE STATION
3790 HOPYARD RD
PLEASANTON, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

SR-2: MTBE AND TBA CONCENTRATIONS AND DEPTH TO GROUNDWATER

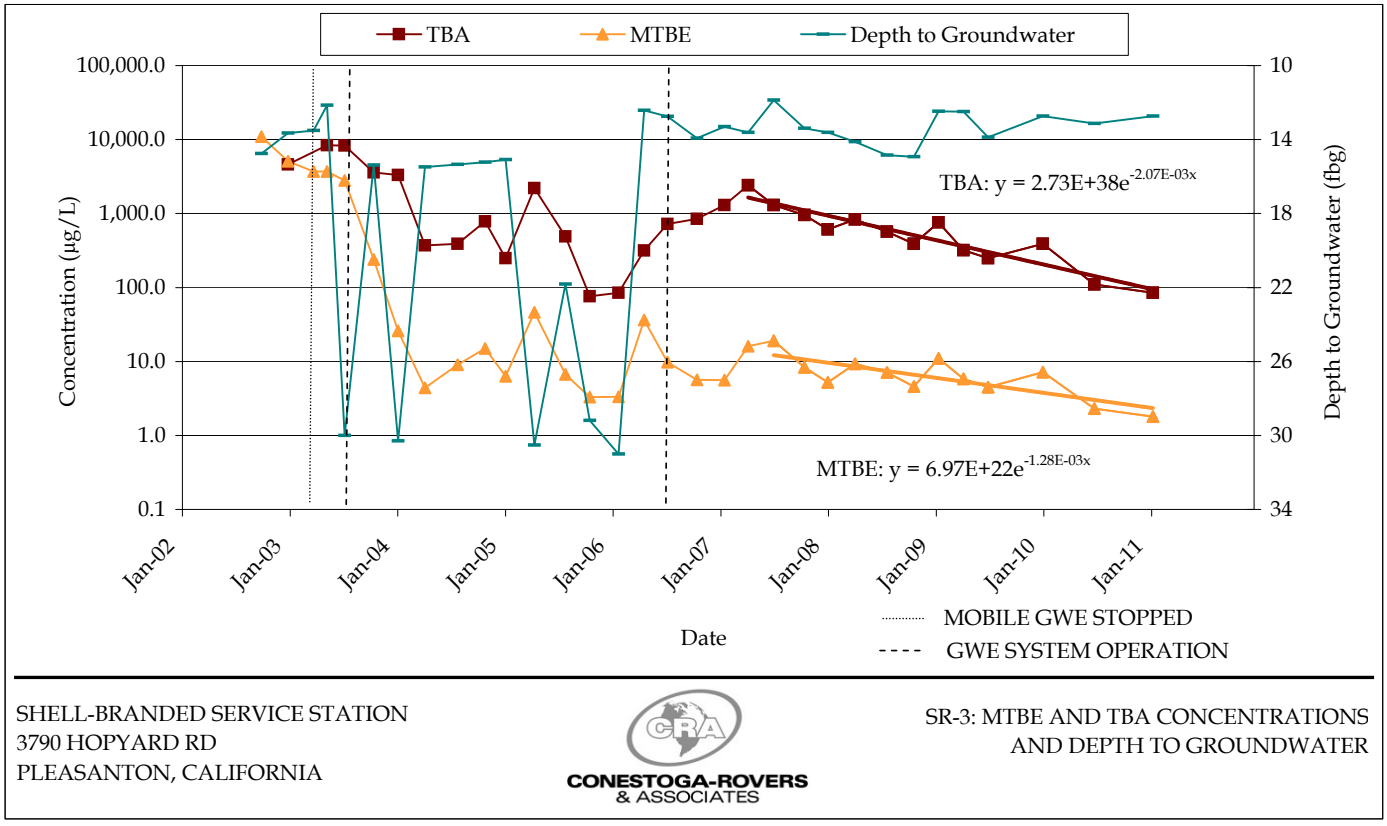
Figure 13: Predicted Time to Reach Environmental Screening Levels in Well SR-3

Shell-Branded Service Station 3790 Hopyard Rd, Pleasanton, California

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L, a = decay constant
b = concentration at time (x), x = time (x) in days

	Constituent	Methyl Tertiary Butyl Ether (MTBE)	Tert-Butyl Alcohol (TBA)
Given			
ESL :	y	5	12
Constant:	b	6.97E+22	2.73E+38
Constant:	a	-1.28E-03	-2.07E-03
Starting date for current trend:		7/9/2007	4/13/2007
Calculate			
Attenuation Half Life (years):	(-ln(2)/a)/365.25	1.48	0.92
Estimated Date to Reach ESL:	(x = ln(y/b) / a)	Jan 2009	Oct 2013



SHELL-BRANDED SERVICE STATION
3790 HOPYARD RD
PLEASANTON, CALIFORNIA

CONESTOGA-ROVERS & ASSOCIATES

SR-3: MTBE AND TBA CONCENTRATIONS AND DEPTH TO GROUNDWATER

TABLES

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA - OIL AND GREASE, TPH, BTEX, FUEL OXYGENATES, LEAD SCAVENGERS, AND ETHANOL
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*O&G*	*TPHwo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*Ethanol*
S-A	1/22/1986	7-8.5	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-B	1/22/1986	4 - 5.5	---	---	---	30	0.3	0.2	---	2.3[a]	---	---	---	---	---	---	---	---
S-B	1/22/1986	8 - 9.5	---	---	---	74	4.3	6.8	---	8.8[a]	---	---	---	---	---	---	---	---
S-B	1/22/1986	11.5 - 13	---	---	---	79	0.4	0.1	---	0.8[a]	---	---	---	---	---	---	---	---
S-C	1/22/1986	4 - 5.5	---	---	---	2	<0.10	<0.1	---	0.8[a]	---	---	---	---	---	---	---	---
S-C	1/22/1986	7 - 8.5	---	---	---	5,100	14	130	---	1,200[a]	---	---	---	---	---	---	---	---
S-C	1/22/1986	11.5 - 13	---	---	---	420	4	48	---	110[a]	---	---	---	---	---	---	---	---
S-D	1/23/1986	4 - 5.5	---	---	---	2	0.2	0.2	---	<0.4[a]	---	---	---	---	---	---	---	---
S-D	1/23/1986	7 - 8.5	---	---	---	10	<0.1	0.1	---	0.7[a]	---	---	---	---	---	---	---	---
S-D	1/23/1986	11.5 - 13	---	---	---	110	0.8	0.2	---	12[a]	---	---	---	---	---	---	---	---
S-E	1/23/1986	4 - 5.5	---	---	---	<2.0	<0.1	<0.1	---	<0.4[a]	---	---	---	---	---	---	---	---
S-E	1/23/1986	7 - 8.5	---	---	---	6	<0.1	<0.1	---	<0.4[a]	---	---	---	---	---	---	---	---
S-E	1/23/1986	11.5 - 13	---	---	---	6	0.4	<0.1	---	1.0[a]	---	---	---	---	---	---	---	---
ST-1	10/28/1987	13.0 - 14.5	---	---	---	13	2.7	0.3	---	1.4	---	---	---	---	---	---	---	---
ST-2	10/28/1987	13.0 - 14.5	---	---	---	23	0.22	0.7	---	4.3	---	---	---	---	---	---	---	---
S-1	10/28/1987	14.0 - 15.5	---	---	---	57	5.3	0.3	---	6.8	---	---	---	---	---	---	---	---
S-1	10/28/1987	19.0 - 20.5	---	---	---	9	0.43	0.1	---	0.8	---	---	---	---	---	---	---	---
S-1	10/28/1987	33.5 - 35.0	---	---	---	<5	<0.05	<0.1	---	<0.4	---	---	---	---	---	---	---	---
S-2	10/28/1987	14.0 - 15.5	---	---	---	53	6.7	0.1	---	8	---	---	---	---	---	---	---	---
S-2	10/28/1987	19.0 - 20.5	---	---	---	5	0.07	<0.1	---	0.4	---	---	---	---	---	---	---	---
S-2	10/28/1987	33.5 - 35.0	---	---	---	<5	<0.05	<0.1	---	<0.4	---	---	---	---	---	---	---	---

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA - OIL AND GREASE, TPH, BTEX, FUEL OXYGENATES, LEAD SCAVENGERS, AND ETHANOL
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*O&G*	*TPHwo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*Ethanol*
S-3	1/26/1988	19.0 - 20.5	---	---	---	<5	<0.05	<0.1	---	<0.4	---	---	---	---	---	---	---	---
S-4	1/26/1988	19.0 - 20.5	---	---	---	41	6.2	<0.1	---	5.9	---	---	---	---	---	---	---	---
S-5	1/26/1988	19.0 - 20.5	---	---	---	4,700	50	170	---	900	---	---	---	---	---	---	---	---
A1	8/3/1988	14	---	---	---	1,300	13	110	45	230	---	---	---	---	---	---	---	---
A1X	8/3/1988	20	---	---	---	<1.0	<0.1	<0.1	<0.1	<0.1	---	---	---	---	---	---	---	---
A2	8/3/1988	14	---	---	---	2,100	11	32	72	350	---	---	---	---	---	---	---	---
A2X	8/3/1988	20.5	---	---	---	80	1.3	2.6	3.4	16	---	---	---	---	---	---	---	---
B-1	8/3/1988	14	---	---	---	11	0.2	<0.1	<0.1	<0.1	---	---	---	---	---	---	---	---
B-2	8/3/1988	14	---	---	---	120	5.9	5.8	3.7	19	---	---	---	---	---	---	---	---
B2X	8/3/1988	20.5	---	---	---	1.5	<0.1	<0.1	<0.1	<0.1	---	---	---	---	---	---	---	---
C-1	8/3/1988	14	---	---	---	110	2.8	0.4	7.8	31	---	---	---	---	---	---	---	---
C-1X	8/3/1988	16	---	---	---	9.1	0.8	<0.1	1.1	0.6	---	---	---	---	---	---	---	---
C-2	8/3/1988	14	---	---	---	52	4.8	0.1	4.4	3.9	---	---	---	---	---	---	---	---
A5	8/5/1988	5	---	---	---	3	1.3	<0.1	<0.1	<0.1	---	---	---	---	---	---	---	---
A10	8/5/1988	10	---	---	---	3.5	0.5	<0.1	0.2	0.2	---	---	---	---	---	---	---	---
A15	8/5/1988	15	---	---	---	4.4	0.7	<0.1	0.5	0.3	---	---	---	---	---	---	---	---
S-6-2A	10/4/1988	9 - 10.5	---	---	---	<5	0.05	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
S-6-3A	10/4/1988	14 - 15.5	---	---	---	9	<0.05	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA - OIL AND GREASE, TPH, BTEX, FUEL OXYGENATES, LEAD SCAVENGERS, AND ETHANOL
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*O&G*	*TPHwo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*Ethanol*
S-6-4A	10/4/1988	19 - 20.5	---	---	---	6	**0.05**	<0.1	0.1	<0.3	---	---	---	---	---	---	---	---
S-6-5A	10/4/1988	24 - 25.5	---	---	---	<5	<0.05	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
S-7-2A	10/4/1988	9 - 10.5	---	---	---	<5	<0.05	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
S-7-3A	10/4/1988	14 - 15.5	---	---	---	<5	<0.05	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
S-7-4A	10/4/1988	19 - 20.5	---	---	---	<5	<0.05	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
S-8-3A	2/24/1989	14 - 15.5	---	---	---	<5	<0.05	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
S-8-4A	2/24/1989	19 - 20.5	---	---	---	<5	<0.05	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
S-9-3A	2/24/1989	14 - 15.5	---	---	---	<5	<0.05	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
S-9-4A	2/24/1989	19 - 20.5	---	---	---	<5	<0.05	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
SR-1-15	8/9/1989	15	---	---	---	<5.0	<0.1	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
SR-1-20	8/9/1989	20	---	---	---	40	**5.4**	<0.1	2.5	**2.7**	---	---	---	---	---	---	---	---
S-10-15	8/9/1989	15	---	---	---	<5.0	<0.05	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
S-10-20	8/9/1989	20	---	---	---	<5.0	<0.05	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
SR-3-10	9/19/1989	10	---	---	---	<5.0	**0.98**	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
SR-3-15	9/19/1989	15	---	---	---	54	**3.9**	<0.2	**4.2**	**2.7**	---	---	---	---	---	---	---	---
SR-3-20	9/19/1989	20	---	---	---	<5.0	<0.05	<0.1	0.2	<0.3	---	---	---	---	---	---	---	---
SR-2-10	9/20/1989	10	---	---	---	<5.0	**0.05**	<0.1	<0.1	<0.3	---	---	---	---	---	---	---	---
SR-2-15	9/20/1989	15	---	---	---	67	**0.11**	0.1	0.1	<0.3	---	---	---	---	---	---	---	---
SR-2-20	9/20/1989	20	---	---	---	8.4	<0.05	<0.1	1.0	<0.3	---	---	---	---	---	---	---	---
D-1	7/26/2002	3.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
D-2	7/26/2002	3.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
D-3	7/26/2002	3.5	---	---	---	4.0	<0.005	<0.005	0.012	0.011	<0.5	---	---	---	---	---	---	---

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA - OIL AND GREASE, TPH, BTEX, FUEL OXYGENATES, LEAD SCAVENGERS, AND ETHANOL
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*O&G*	*TPHwo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*Ethanol*
D-4	7/26/2002	3.5	---	---	---	1.8	<0.005	<0.005	0.053	0.018	<0.5	---	---	---	---	---	---	---
P-1	7/26/2002	3.5	---	---	---	**260**	**0.079**	0.072	0.48	1.1	<0.5	---	---	---	---	---	---	---
P-2	7/26/2002	3.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
P-3	7/26/2002	3.5	---	---	---	10	0.0083	<0.005	0.26	<0.005	<0.5	---	---	---	---	---	---	---
S-11-5.5	7/26/2002	5.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
S-11-10.5	7/26/2002	10.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
S-11-15.5	7/26/2002	15.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
S-11-20.5	7/26/2002	20.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
S-11-24.5	7/26/2002	24.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
S-12-5.5	9/19/2002	5.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
S-12-10.5	9/19/2002	10.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
S-12-15.5	9/19/2002	15.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
S-12-20.5	9/19/2002	20.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
S-12-24.5	9/19/2002	24.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
SB-1	10/4/2004	2.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.051**	**0.16**	---	---	---	---	---	---
SB-1	10/4/2004	5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.063	---	---	---	---	---	---
SB-1	10/4/2004	10.5	---	---	---	2.4	<0.0050	<0.0050	<0.0050	0.019	**0.091**	0.035	---	---	---	---	---	---
SB-1	10/4/2004	15.5	---	---	---	<4.2	<0.021	<0.021	<0.021	<0.021	<0.021	**3.6**	---	---	---	---	---	---
SB-1	10/4/2004	19.5	---	---	---	300	<0.50	<0.50	**4.0**	<0.50	**1.2**	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25
SB-2	10/4/2004	2.5	---	---	---	<1.0	0.015	<0.0050	0.0091	0.026	0.0053	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1
SB-2	10/4/2004	5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	0.0080	<0.0050	<0.010	---	---	---	---	---	---
SB-2	10/8/2004	10	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.011	0.012	---	---	---	---	---	---
SB-2	10/8/2004	15	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.34**	**0.14**	---	---	---	---	---	---
SB-2	10/8/2004	19.5	---	---	---	**890**	<0.50	<0.50	**15**	1.0	**4.1**	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25
SB-2	10/8/2004	25	---	---	---	<4.5	<0.022	<0.022	<0.022	<0.022	**0.12**	**1.8**	<0.045	<0.022	<0.022	<0.022	<0.022	<0.45

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA - OIL AND GREASE, TPH, BTEX, FUEL OXYGENATES, LEAD SCAVENGERS, AND ETHANOL
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*O&G*	*TPHwo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*Ethanol*
SB-3	10/5/2004	2.5	---	---	---	**950**	**5.0**	**51**	**20**	**110**	<0.50	<2.5	---	---	---	---	---	---
SB-3	10/5/2004	5	---	---	---	**270**	**2.7**	**5.2**	**4.7**	**20**	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25
SB-3	10/8/2004	10	---	---	---	11	**0.85**	1.2	0.30	1.5	<0.021	<0.043						
SB-3	10/8/2004	15.5	---	---	---	1.5	**0.047**	0.15	0.029	0.15	<0.0050	0.017	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1
SB-3	10/8/2004	19.5	---	---	---	<1.0	<0.0050	0.0083	<0.0050	0.012	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1
SB-3	10/8/2004	25	---	---	---	4.5	<0.021	0.17	0.080	0.59	<0.021	<0.042	---	---	---	---	---	---
SB-4	10/4/2004	2.5	---	---	---	**350**	<0.50	<0.50	3.3	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25
SB-4	10/4/2004	5	---	---	---	1.3	**0.19**	<0.0050	0.50	0.0098	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1
SB-4	10/8/2004	10	---	---	---	1.1	0.019	<0.0050	0.011	0.072	<0.0050	0.012	---	---	---	---	---	---
SB-4	10/8/2004	15	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	0.012	<0.0050	0.016	---	---	---	---	---	---
SB-4	10/8/2004	19.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---
SB-4	10/8/2004	25	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---
SB-5	10/4/2004	2.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---
SB-5	10/4/2004	5	---	---	---	1.0	**0.046**	<0.0050	0.076	0.15	0.0070	0.011	---	---	---	---	---	---
SB-5	10/8/2004	9.5	---	---	---	1.6	0.011	<0.0050	<0.0050	0.015	0.0081	0.029	---	---	---	---	---	---
SB-5	10/8/2004	15	---	---	---	80	**0.60**	<0.50	<0.50	<0.50	**0.92**	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25
SB-5	10/8/2004	19.5	---	---	---	6.1	0.040	0.050	<0.020	0.072	**0.034**	**0.32**	---	---	---	---	---	---
SB-7	10/5/2004	2.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.019	0.019	---	---	---	---	---	---
SB-7	10/5/2004	5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.079**	0.031	---	---	---	---	---	---
SB-7	10/7/2004	10	---	---	---	2.8	<0.0050	<0.0050	<0.0050	0.0053	<0.0050	**0.17**	---	---	---	---	---	---
SB-7	10/7/2004	15	---	---	---	11	<0.020	<0.020	<0.020	<0.020	**0.035**	**0.28**	---	---	---	---	---	---
SB-7	10/7/2004	19.5	---	---	---	15	0.022	<0.013	0.25	0.014	**0.12**	<0.026	<0.026	<0.013	<0.013	<0.013	<0.013	<0.26
SB-7	10/7/2004	25	---	---	---	1.7	<0.0050	<0.0050	0.040	0.015	**0.033**	**0.12**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	0.13
SB-8	10/8/2004	5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---
SB-8	10/8/2004	10	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.070**	**0.10**	---	---	---	---	---	---

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA - OIL AND GREASE, TPH, BTEX, FUEL OXYGENATES, LEAD SCAVENGERS, AND ETHANOL
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*O&G*	*TPHwo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*Ethanol*
SB-9	10/5/2004	2.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---
SB-9	10/5/2004	5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.023	<0.010	---	---	---	---	---	---
SB-9	10/6/2004	10	---	---	---	<4.7	<0.023	<0.023	<0.023	<0.023	<0.023	**3.3**	---	---	---	---	---	---
SB-9	10/7/2004	15.5	---	---	---	**96**	<0.50	<0.50	<0.50	<0.50	<0.50	**14**	<1.0	<0.50	<0.50	<0.50	<0.50	<25
SB-9	10/7/2004	21	---	---	---	<4.1	<0.020	<0.020	<0.020	<0.020	<0.020	**1.6**	<0.041	<0.020	<0.020	<0.020	<0.020	<0.41
SB-10	10/6/2004	2.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.055**	0.057	---	---	---	---	---	---
SB-11	10/5/2004	2.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.023	0.035	---	---	---	---	---	---
SB-11	10/5/2004	5	---	---	---	**220**	**0.51**	<0.50	**4.6**	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25
SB-11	10/7/2004	10	---	---	---	<1.0	**0.055**	<0.0050	0.020	0.0059	**0.067**	0.029	---	---	---	---	---	---
SB-11	10/7/2004	15.5	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<0.50	**14**	---	---	---	---	---	---
SB-11	10/7/2004	20	---	---	---	2.6	<0.0050	<0.0050	0.0098	0.0054	**0.038**	**0.48**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1
SB-11	10/7/2004	25	---	---	---	3.2	0.017	<0.0050	0.049	<0.0050	**0.036**	**0.67**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1
SB-12	10/6/2004	2.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---
SB-12	10/6/2004	5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.0068	<0.010	---	---	---	---	---	---
SB-12	10/6/2004	10	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	0.0065	**0.050**	0.061	---	---	---	---	---	---
SB-12	10/6/2004	15	---	---	---	<5.0	<0.025	<0.025	<0.025	<0.025	**0.026**	**8.6**	---	---	---	---	---	---
SB-12	10/6/2004	20	---	---	---	**430**	<0.50	<0.50	1.6	<0.50	**0.63**	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25
SB-12	10/6/2004	24.5	---	---	---	<4.7	<0.023	<0.023	<0.023	<0.023	**2.3**	<0.023	---	---	---	---	---	---
SB-12	10/6/2004	26	---	---	---	280	<0.50	0.71	1.3	**2.7**	**0.51**	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25
SB-13	10/5/2004	3	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.0058	<0.010	---	---	---	---	---	---
SB-13	10/5/2004	5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---
SB-13	10/6/2004	10	---	---	---	3.6	<0.0050	<0.0050	0.0068	0.013	<0.0050	0.028	---	---	---	---	---	---
SB-13	10/6/2004	15	---	---	---	2.7	0.0089	<0.0050	<0.0050	0.0087	**0.076**	0.047	---	---	---	---	---	---
SB-13	10/6/2004	20	---	---	---	<1.0	<0.0050	<0.0050	0.0099	<0.0050	**0.046**	0.025	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1
SB-14	10/5/2004	2.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA - OIL AND GREASE, TPH, BTEX, FUEL OXYGENATES, LEAD SCAVENGERS, AND ETHANOL
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*O&G*	*TPHwo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*Ethanol*
SB-14	10/5/2004	5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.014	0.016	---	---	---	---	---	---
SB-14	10/7/2004	10	---	---	---	1.9	0.043	<0.0050	0.024	0.013	0.0063	0.028	---	---	---	---	---	---
SB-14	10/7/2004	15	---	---	---	8.2	0.041	<0.020	0.064	0.045	**0.76**	**0.23**	---	---	---	---	---	---
SB-14	10/7/2004	20	---	---	---	<50	<0.50	<0.50	0.56	<0.50	**0.80**	**3.0**	<1.0	<0.50	<0.50	<0.50	<0.50	<25
SB-14	10/7/2004	25	---	---	---	2.3	<0.0050	<0.0050	0.059	0.077	**0.26**	**0.36**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1
SB-15	10/5/2004	2.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.0074	<0.010	---	---	---	---	---	---
SB-15	10/5/2004	5	---	---	---	5.9	<0.0050	<0.0050	<0.0050	0.029	<0.0050	0.069	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1
SB-15	10/7/2004	15	---	---	---	1.2	**0.045**	<0.0050	<0.0050	<0.0050	**0.28**	**0.12**	---	---	---	---	---	---
SB-15	10/7/2004	20	---	---	---	**470**	<0.50	<0.50	**9.5**	**3.8**	**1.2**	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25
SB-15	10/7/2004	25	---	---	---	<3.1	**0.052**	<0.016	0.56	0.18	**0.78**	**3.4**	<0.031	<0.016	<0.016	<0.016	<0.016	<0.31
SB-16	10/6/2004	2.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---
CPT-3	2/15/2005	25	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.33**	---	---	---	---	---	---
CPT-3	2/15/2005	35	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.56**	---	---	---	---	---	---
CPT-3	2/15/2005	45	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---
CPT-5	2/18/2005	25	---	---	---	<1.0	<0.0050	<0.0050	0.018	0.020	<0.0050	<0.010	---	---	---	---	---	---
CPT-5	2/18/2005	35	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---
CPT-5	2/18/2005	45	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	---	---	---	---	---	---
WO-1-9	2/14/2007	9	<1,500	---	<5.0	0.88	<0.00099	0.0017	0.010	0.057	<0.0020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	---
SB-18 @ 10'	5/21/2010	10	---	---	---	30	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-18 @ 15'	5/21/2010	15	---	---	---	30	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-18 @ 18'	5/21/2010	18	---	---	---	**310**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-18 @ 20'	5/21/2010	20	---	---	---	1.3	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-18 @ 25'	5/21/2010	25	---	---	---	0.60	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-18 @ 30'	5/21/2010	30	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA - OIL AND GREASE, TPH, BTEX, FUEL OXYGENATES, LEAD SCAVENGERS, AND ETHANOL
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*O&G*	*TPHwo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*Ethanol*
SB-18 @ 35'	5/21/2010	35	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-18 @ 40'	5/21/2010	40	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-18 @ 45'	5/21/2010	45	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-18 @ 50'	5/21/2010	50	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-18 @ 55'	5/21/2010	55	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-18 @ 60'	5/21/2010	60	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-17 @ 10'	6/8/2010	10	---	---	---	3.5	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-17 @ 15'	6/8/2010	15	---	---	---	1.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-17 @ 20'	6/8/2010	20	---	---	---	**1,100**	<2.0	<2.0	<2.0	<2.0	<2.0	<20	---	---	---	---	---	---
SB-17 @ 25'	6/8/2010	25	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-17 @ 30'	6/8/2010	30	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-17 @ 35'	6/8/2010	35	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-17 @ 40'	6/8/2010	40	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-17 @ 45'	6/8/2010	45	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-17 @ 50'	6/8/2010	50	---	---	---	22	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-17 @ 55'	6/8/2010	55	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
SB-17 @ 60'	6/8/2010	60	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---
Shallow Soil (≤10 fbg) ESL[b]:			NA	2,500	83	83	0.044	2.9	3.3	2.3	0.023	0.075	NA	NA	NA	0.0045	0.00033	NA
Deep Soil (>10 fbg) ESL[b]:			NA	5,000	83	83	0.044	2.9	3.3	2.3	0.023	0.075	NA	NA	NA	0.0045	0.00033	NA

Notes:

All results in milligrams per kilogram (mg/kg) unless otherwise indicated.
fbg = Feet below grade
O&G = Oil and grease as hexane extractable material by EPA Method 1664 A (Modified)
TPHwo = Total petroleum hydrocarbons as waste oil, method unknown
TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015 (Modified)
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260; before August 26, 2002 analyzed by EPA Method 8015
Benzene, ethylbenzene, toluene, and xylenes analyzed by EPA Method 8260; before August 26, 2002 analyzed by EPA Method 8015
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA - OIL AND GREASE, TPH, BTEX, FUEL OXYGENATES, LEAD SCAVENGERS, AND ETHANOL
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*O&G*	*TPHwo*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*	*Ethanol*

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
EDB = 1,2-dibromomethane analyzed by EPA Method 8260B
Ethanol analyzed by EPA Method 8260B

<x = Not detected at reporting limit x
--- = Not analyzed
ND = Not detected; see laboratory analytical report for constituent-specific reporting limits
ESL = Environmental screening level
NA = No applicable ESL
Shading indicates that sample location subsequently over-excavated, results are not representative of residual soil.
Results in **bold** equal or exceed applicable ESL

a = Result is for undifferentiated xylenes and ethylbenzene

b = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is a potential source of drinking water (Tables A and C of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA - CHLORINATED HYDROCARBONS, METALS, PNAS, PCP, AND PCBS
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Chlorinated Hydrocarbons*	*Cd*	*Cr*	*Pb*	*Organic Pb*	*Ni*	*Zn*	*PNAs*	*PCP*	*PCBs*
S-B	1/22/1986	4 - 5.5	---	---	---	9[a]	<0.1[a]	---	---	---	---	---
S-B	1/22/1986	8 - 9.5	---	---	---	11[a]	<0.1[a]	---	---	---	---	---
S-B	1/22/1986	11.5 - 13	---	---	---	9[a]	<0.1[a]	---	---	---	---	---
S-C	1/22/1986	4 - 5.5	---	---	---	4.9[a]	<0.1[a]	---	---	---	---	---
S-C	1/22/1986	7 - 8.5	---	---	---	6.8[a]	<0.1[a]	---	---	---	---	---
S-C	1/22/1986	11.5 - 13	---	---	---	9.1[a]	<0.1[a]	---	---	---	---	---
S-D	1/23/1986	4 - 5.5	---	---	---	4.2[a]	<0.1[a]	---	---	---	---	---
S-D	1/23/1986	7 - 8.5	---	---	---	5.2[a]	0.2[a]	---	---	---	---	---
S-D	1/23/1986	11.5 - 13	---	---	---	7.3[a]	<0.1[a]	---	---	---	---	---
S-E	1/23/1986	4 - 5.5	---	---	---	5.1[a]	<0.1[a]	---	---	---	---	---
S-E	1/23/1986	7 - 8.5	---	---	---	9.2[a]	<0.1[a]	---	---	---	---	---
S-E	1/23/1986	11.5 - 13	---	---	---	9.1[a]	<0.1[a]	---	---	---	---	---
ST-1	10/28/1987	13.0 - 14.5	---	---	---	4.2	---	---	---	---	---	---
ST-2	10/28/1987	13.0 - 14.5	---	---	---	4.6	---	---	---	---	---	---
S-1	10/28/1987	14.0 - 15.5	---	---	---	7.0	---	---	---	---	---	---
S-1	10/28/1987	19.0 - 20.5	---	---	---	6.4	---	---	---	---	---	---
S-1	10/28/1987	33.5 - 35.0	---	---	---	4.2	---	---	---	---	---	---
S-2	10/28/1987	14.0 - 15.5	---	---	---	5.4	---	---	---	---	---	---
S-2	10/28/1987	19.0 - 20.5	---	---	---	7.1	---	---	---	---	---	---
S-2	10/28/1987	33.5 - 35.0	---	---	---	5.4	---	---	---	---	---	---
WO-1-9	2/14/2007	9	ND	<0.50	52	8.0	---	53	56	ND	<0.83	<0.096
Shallow Soil (≤10 fbg) ESL [b]:			Various	7.4	750	750	NA	150	600	Various	5.0	0.74
Deep Soil (>10 fbg) ESL [b]:			Various	39	5,000	750	NA	260	5000	Various	99	6.3

Notes:

All results in milligrams per kilogram (mg/kg) unless otherwise indicated.
fbg = Feet below grade
Chlorinated hydrocarbons by EPA Method 8260B; see laboratory analytical report for a complete list of specific constituents
Cd = Cadmium by EPA Method 6010B
Cr = Chromium by EPA Method 6010B
Pb = Lead by EPA Method 6010B

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA - CHLORINATED HYDROCARBONS, METALS, PNAS, PCP, AND PCBS
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Organic Pb = Organic lead analysis, method unknown
Ni = Nickel by EPA Method 6010B
Zn = Zinc by EPA Method 6010B
PNAs = Polynuclear aromatics by EPA Method 8270C; see laboratory analytical report for a complete list of specific constituents
PCP = Pentachlorophenol by EPA Method 8270C
PCBs = Polychlorinated biphenyls by EPA Method 8082; see laboratory analytical report for a complete list of specific constituents
<x = Not detected at reporting limit x
ND = Not detected; see laboratory analytical report for constituent-specific reporting limits
--- = Not analyzed
NA = No applicable ESL
ESL = Environmental screening level
Shading indicates that sample location subsequently over-excavated, results are not representative of residual soil.
Results in **bold** equal or exceed applicable ESL

a = Analytical method not known
b = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is not a source of drinking water (Tables A and C of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater* , California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-1	11/6/1987	920	230	<5	150	150	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-1	2/14/1988	3,500	1,300	<40	500	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	11/6/1987	16,000	870	100	2,700	2,700	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	2/14/1988	1,800	440	<10	140	140	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	10/13/1988	550	110	1	45	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	1/31/1989	620	170	2	62	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	3/7/1989	1,900	260	270	130	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	6/26/1989	320	88	1	32	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	9/8/1989	230	80	1	30	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	12/14/1989	160	56	0.5	21	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	3/5/1990	710	57	<0.5	<0.5	88	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	6/14/1990	110	39	0.5	11	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	10/2/1990	290	84	1.7	160	8.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	12/18/1990	61	18	1.4	2.2	2.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-2	3/20/1991	110	30	2.2	10	7	---	---	---	---	---	---	---	---	---	329.21	---	---	---	---
S-2	6/26/1991	50a	6.3	<0.5	3.3	1.3	---	---	---	---	---	---	---	---	---	329.21	---	---	---	---
S-2	9/5/1991	90	12	3.2	2.5	2.3	---	---	---	---	---	---	---	---	---	329.21	---	---	---	---
S-2	12/13/1991	<50	12	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	329.21	15.85	313.36	---	---
S-2	3/11/1992	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	---	---	---	329.21	14.94	314.27	---	---
S-2	6/24/1992	<50	0.9	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	329.21	15.78	313.43	---	---
S-2	9/17/1992	78	2.6	1.3	1.3	0.9	---	---	---	---	---	---	---	---	---	329.21	15.03	314.18	---	---
S-2	12/11/1992	<50	0.8	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	329.21	14.81	314.40	---	---
S-2	2/4/1993	55	1.3	0.7	0.7	<0.5	---	---	---	---	---	---	---	---	---	329.21	---	---	---	---
S-2	6/3/1993	<50	0.7	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	329.21	---	---	---	---
S-2	9/15/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	329.21	14.63	314.58	---	---
S-2	12/9/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	329.21	14.70	314.51	---	---
S-2	6/16/1994	<50	0.8	<0.5	0.7	<0.5	---	---	---	---	---	---	---	---	---	329.21	14.94	314.27	---	---
S-2	9/13/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	329.21	15.17	314.04	---	---
S-2	6/21/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	329.21	14.25	314.96	---	---
S-2	6/12/1996	<50	6.1	<0.5	<0.5	<0.5	48	---	---	---	---	---	---	---	---	329.21	14.31	314.90	---	---
S-2	6/25/1997	120	25	0.59	2.4	8.7	130	---	---	---	---	---	---	---	---	329.21	14.40	314.81	---	4.4
S-2	6/19/1998	450	96	<2.5	4	19	180	---	---	---	---	---	---	---	---	329.21	13.72	315.49	---	2.8
S-2	6/17/1999	312	74.4	2.04	1.02	<1.00	147	---	---	---	---	---	---	---	---	329.21	13.97	315.24	---	3.7

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-2	6/15/2000	1,050	261	<5.00	7.54	11.4	13,500	9,850 b	---	---	---	---	---	---	---	329.21	14.25	314.96	---	3.3
S-2	11/29/2000	<250	3.75	<2.50	<2.50	<2.50	12,400	10,700 b	---	---	---	---	---	---	---	329.21	14.82	314.39	---	2.2
S-2	3/7/2001	<500	14.7	<5.00	<5.00	<5.00	8,610	---	---	---	---	---	---	---	---	329.21	13.70	315.51	---	2.3
S-2	6/18/2001	<2,000	<20	<20	<20	<20	---	7,100	---	---	---	---	---	---	---	329.21	14.56	314.65	---	---
S-2	9/17/2001	<2,000	<10	<10	<10	<10	---	7,500	<10	<10	<10	680	---	---	<500	329.21	15.18	314.03	---	---
S-2	12/31/2001	<1,000	<10	<10	<10	<10	---	3,800	---	---	---	---	---	---	---	329.21	13.19	316.02	---	---
S-2	3/13/2002	<1,000	65	<10	13	<10	---	6,500	---	---	---	---	---	---	---	329.21	15.03	314.18	---	---
S-2	6/18/2002	520	28	<5.0	<5.0	<5.0	---	2,800	---	---	---	---	---	---	---	329.21	15.60	313.61	---	---
S-2	9/27/2002	<1,000	<10	<10	<10	<10	---	4,200	---	---	---	---	---	---	---	328.77	14.90	313.87	---	---
S-2	12/27/2002	<1,000	<10	<10	<10	<10	---	4,300	<10	<10	<10	5,600	<10	<10	---	328.77	14.40	314.37	---	---
S-2	3/24/2003	<2,500	28	<25	<25	<50	---	1,300	---	---	---	---	---	---	---	328.77	14.86	313.91	---	---
S-2	5/9/2003	<2,500	36	<25	35	<50	---	4,000	---	---	---	6,200	---	---	---	328.77	13.45	315.32	---	---
S-2	7/8/2003	<2,000	<20	<20	<20	<40	---	3,200	---	---	---	---	---	---	---	328.77	20.10	308.67	---	---
S-2	10/15/2003	960 e	6.9	<2.5	9.0	<5.0	---	90	---	---	---	2,400	---	---	---	328.77	16.67	312.10	---	---
S-2	1/6/2004	690	8.3	<0.50	0.72	2.8	---	82	---	---	---	860	---	---	---	328.77	21.00	307.77	---	---
S-2	4/7/2004	980 e	12	<2.5	<2.5	<5.0	---	28	---	---	---	2,500	---	---	---	328.77	16.62	312.15	---	---
S-2	7/27/2004	62	1.5	<0.50	<0.50	<1.0	---	16	<2.0	<2.0	<2.0	550	---	---	<50	328.77	16.64	312.13	---	---
S-2	10/29/2004	<250	<2.5	<2.5	<2.5	<5.0	---	22	<10	<10	<10	1,800	---	---	<250	328.77	16.43	312.34	---	---
S-2	1/6/2005	<250	<2.5	<2.5	<2.5	<5.0	---	21	<10	<10	<10	2,700	---	---	---	328.77	16.37	312.40	---	---
S-2	4/14/2005	<50	<0.50	<0.50	<0.50	<0.50	---	14	<0.50	<0.50	<0.50	290	---	---	<5.0	328.77	18.54	310.23	---	---
S-2	7/29/2005	1,300 g	<5.0	<5.0	<5.0	<10	---	19	<20	<20	<20	1,000	---	---	<500	328.77	21.37	307.40	---	---
S-2	10/20/2005	1,300	13	<1.0	9.8	2.6	---	26	<4.0	<4.0	<4.0	730	---	---	<100	328.77	21.88	306.89	---	---
S-2	1/26/2006	3,820	16.3	<0.500	5.78	<0.500	---	25.8	<0.500	<0.500	<0.500	445	---	---	<50.0	328.77	21.15	307.62	---	---
S-2	4/24/2006	4,720	68.8	1.44	115	8.31	---	1,600	<0.500	<0.500	<0.500	1,010	---	---	<50.0	328.77	13.80	314.97	---	---
S-2	7/12/2006	<50.0	14.4	<0.500	<0.500	<1.50	---	70.9	<0.500	<0.500	<0.500	1,660	---	---	<50.0	328.77	14.19	314.58	---	---
S-2	10/20/2006	108	5.52	<0.500	0.690	<0.500	---	17.9	<0.500	<0.500	<0.500	382	---	---	<50.0	328.77	14.13	314.64	---	---
S-2	1/22/2007	<50	0.40 i	<0.50	<0.50	<1.0	---	16	<1.0	<1.0	<1.0	450	---	---	<150	328.77	14.05	314.72	---	---
S-2	4/13/2007	52 k	0.53	<1.0	0.22 m	<1.0	---	14	<2.0	<2.0	<2.0	660	---	---	<100	328.77	14.09	314.68	---	---
S-2	7/9/2007	97 k,l	4.6	<1.0	<1.0	<1.0	---	23	<2.0	<2.0	<2.0	1,500	---	---	<100	328.77	13.33	315.44	---	---
S-2	10/22/2007	120 k	0.23 m	<1.0	<1.0	<1.0	---	13	<2.0	<2.0	<2.0	2,400	---	---	<100	328.77	14.70	314.07	---	---
S-2	1/9/2008	66 k	1.5 m	<5.0	<5.0	<5.0	---	12	<10	<10	<10	1,500	---	---	<500	328.77	13.65	315.12	---	---
S-2	4/11/2008	450	3.8	<5.0	<5.0	<5.0	---	37	<10	<10	<10	4,300	---	---	<500	328.77	14.47	314.30	---	---
S-2	7/29/2008	370	5.3	<5.0	<5.0	<5.0	---	18	<10	<10	<10	2,300	---	---	<500	328.77	15.00	313.77	---	---
S-2	10/29/2008	100	2.3	<1.0	<1.0	<1.0	---	11	<2.0	<2.0	<2.0	710	---	---	<100	328.77	15.10	313.67	---	---

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-2	1/21/2009	990	37	<1.0	8.8	1.4	---	83	<2.0	<2.0	<2.0	1,200	---	---	<100	328.77	13.89	314.88	---	---
S-2	4/16/2009	2,100	54	1.2	21	3.0	---	88	<2.0	<2.0	<2.0	930	---	---	<100	328.77	13.75	315.02	---	---
S-2	7/9/2009	620	16	<1.0	5.6	<1.0	---	35	<2.0	<2.0	<2.0	900	---	---	<100	328.77	15.18	313.59	---	---
S-2	1/11/2010	3,300	39	1.5	23	4.1	---	51	<2.0	<2.0	<2.0	600	---	---	<100	328.77	13.68	315.09	---	---
S-2	**1/21/2011**	**2,000**	**21**	**0.99**	**21**	**3.0**	**---**	**25**	**<1.0**	**<1.0**	**<1.0**	**820**	**---**	**---**	**<150**	**328.77**	**13.75**	**315.02**	**---**	**---**
S-3	2/14/1988	<50	<0.5	<1	<4	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-3	10/13/1988	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-3	1/31/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-3	3/7/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-3	6/26/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-3	9/8/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-3	12/14/1989	<50	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-3	3/5/1990	<50	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-3	6/14/1990	<500	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-3	10/2/1990	<50	<0.5	<0.5	<0.5	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-3	12/18/1990	<50	<0.5	1.6	<0.5	2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-3	3/20/1991	70	2.3	8.9	4	23	---	---	---	---	---	---	---	---	---	327.67	---	---	---	---
S-3	6/26/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.67	---	---	---	---
S-3	9/5/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.67	---	---	---	---
S-3	12/13/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.67	13.87	313.80	---	---
S-3	3/11/1992	<30	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.67	13.05	314.62	---	---
S-3	6/24/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.67	13.86	313.81	---	---
S-3	9/17/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.67	13.01	314.66	---	---
S-3	12/11/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.67	13.00	314.67	---	---
S-3	2/4/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.67	---	---	---	---
S-3	6/3/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.67	---	---	---	---
S-3	9/15/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	327.67	13.02	314.65	---	---
S-3	12/9/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	327.67	---	---	---	---
S-3	9/13/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	327.67	15.17	312.50	---	---
S-3	6/21/1995	50	4.1	<0.5	20	1.2	---	---	---	---	---	---	---	---	---	327.67	12.49	315.18	---	---
S-3	6/12/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	---	---	---	327.67	12.53	315.14	---	---
S-3	6/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	---	---	327.67	12.64	315.03	---	1.8
S-3	6/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	---	---	327.67	11.74	315.93	---	4.1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-3	6/17/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	---	---	---	327.67	12.35	315.32	---	2.8
S-3	6/15/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	---	---	327.67	12.51	315.16	---	3.2
S-3	11/29/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	---	---	327.67	12.84	314.83	---	1.0
S-3	3/7/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	---	---	327.67	12.42	315.25	---	2.8
S-3	6/18/2001	<50	0.66	1.1	<0.50	0.51	---	0.66	---	---	---	---	---	---	---	327.67	13.74	313.93	---	---
S-3	9/17/2001	<50	0.73	0.96	<0.50	0.61	---	<5.0	---	---	---	---	---	---	---	327.67	13.25	314.42	---	---
S-3	12/31/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	327.67	12.38	315.29	---	---
S-3	3/13/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	327.67	13.16	314.51	---	---
S-3	6/18/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	327.67	13.55	314.12	---	---
S-3	9/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	327.40	13.32	314.08	---	---
S-3	12/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	<2.0	<2.0	<2.0	<50	<2.0	<2.0	---	327.40	12.55	314.85	---	---
S-3	3/24/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<5.0	---	---	---	---	---	---	---	327.40	12.71	314.69	---	---
S-3	5/9/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	<5.0	---	---	---	327.40	12.27	315.13	---	---
S-3	7/8/2003	<50	<0.50	<0.50	<0.50	<1.0	---	1.7	---	---	---	<5.0	---	---	---	327.40	14.10	313.30	---	---
S-3	10/15/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	<5.0	---	---	---	327.40	14.64	312.76	---	---
S-3	1/6/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	<5.0	---	---	---	327.40	15.11	312.29	---	---
S-3	4/7/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	<5.0	---	---	---	327.40	14.36	313.04	---	---
S-3	7/27/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<2.0	<2.0	<2.0	<5.0	---	---	<50	327.40	14.21	313.19	---	---
S-3	10/29/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<2.0	<2.0	<2.0	<5.0	---	---	<50	327.40	14.03	313.37	---	---
S-3	1/6/2005	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<2.0	<2.0	<2.0	<5.0	---	---	---	327.40	14.08	313.32	---	---
S-3	4/14/2005	<50	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	<5.0	327.40	12.16	315.24	---	---
S-3	7/29/2005	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<2.0	<2.0	<2.0	<5.0	---	---	<50	327.40	15.29	312.11	---	---
S-3	10/20/2005	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<2.0	<2.0	<2.0	<5.0	---	---	<50	327.40	15.90	311.50	---	---
S-3	1/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<0.500	<0.500	<0.500	59.5	---	---	<50.0	327.40	15.00	312.40	---	---
S-3	4/24/2006	<50.0	0.610	0.640	<0.500	<0.500	---	<0.500	<0.500	<0.500	<0.500	13.0	---	---	<50.0	327.40	12.03	315.37	---	---
S-3	7/12/2006	<50.0	<0.500	<0.500	<0.500	<1.50	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	327.40	12.35	315.05	---	---
S-3	10/20/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	327.40	12.46	314.94	---	---
S-3	1/22/2007	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<1.0	<1.0	<1.0	<10	---	---	<150	327.40	13.05	314.35	---	---
S-3	4/13/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	327.40	12.50	314.90	---	---
S-3	7/9/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	327.40	12.04	315.36	---	---
S-3	10/22/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	327.40	13.02	314.38	---	---
S-3	1/9/2008	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	327.40	12.21	315.19	---	---
S-3	4/11/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	327.40	12.80	314.60	---	---
S-3	7/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	13	---	---	170	327.40	13.25	314.15	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-3	10/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	327.40	13.40	314.00	---	---
S-3	1/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	327.40	12.41	314.99	---	---
S-3	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	327.40	12.20	315.20	---	---
S-3	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	327.40	13.49	313.91	---	---
S-3	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	327.40	12.39	315.01	---	---
S-3	7/6/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	327.40	12.80	314.60	---	---
S-3	**1/21/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**<150**	**327.40**	**12.53**	**314.87**	**---**	**---**
S-4	2/14/1988	5,100	160	8	730	730	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	10/13/1988	530	24	1	25	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	1/31/1989	1,100	33	2	20	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	3/7/1989	650	37	1	35	27	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	6/26/1989	670	110	<1	85	71	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	9/8/1989	380	32	<1	36	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	12/14/1989	210	21	<0.5	30	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	3/5/1990	350	43	<0.5	24	47	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	6/14/1990	430	74	<0.5	71	46	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	10/2/1990	700	74	2.2	100	55	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	12/18/1990	1,400	180	2.9	280	230	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-4	3/20/1991	1,200	100	<2.0	210	130	---	---	---	---	---	---	---	---	---	328.53	---	---	---	---
S-4	6/26/1991	220	14	<0.5	34	17	---	---	---	---	---	---	---	---	---	328.53	---	---	---	---
S-4	9/5/1991	580	31	0.8	53	26	---	---	---	---	---	---	---	---	---	328.53	---	---	---	---
S-4	12/13/1991	370	24	0.9	1.3	46	---	---	---	---	---	---	---	---	---	328.53	15.20	313.33	---	---
S-4	3/11/1992	1,600	23	1.2	12	20	---	---	---	---	---	---	---	---	---	328.53	14.37	314.16	---	---
S-4	6/24/1992	480	48	<1.0	95	22	---	---	---	---	---	---	---	---	---	328.53	15.30	313.23	---	---
S-4	9/17/1992	260	35	1.2	51	7.8	---	---	---	---	---	---	---	---	---	328.53	14.17	314.36	---	---
S-4	12/11/1992	270	34	0.8	28	4.5	---	---	---	---	---	---	---	---	---	328.53	14.18	314.35	---	---
S-4	2/4/1993	1,100	12	<5.0	89	100	---	---	---	---	---	---	---	---	---	328.53	---	---	---	---
S-4	6/3/1993	210	48	1.1	42	4	---	---	---	---	---	---	---	---	---	328.53	---	---	---	---
S-4	9/15/1993	700	21	<1.0	110	91	---	---	---	---	---	---	---	---	---	328.53	13.86	314.67	---	---
S-4	12/9/1993	250	39	<0.5	3.8	2.6	---	---	---	---	---	---	---	---	---	328.53	14.16	314.37	---	---
S-4	3/4/1994	150	25	1.4	6.8	2.8	---	---	---	---	---	---	---	---	---	328.53	14.17	314.36	---	---
S-4 (D)	3/4/1994	140	28	0.8	7.9	3.2	---	---	---	---	---	---	---	---	---	328.53	14.17	314.36	---	---
S-4	6/16/1994	90	12	<0.5	1.8	2.4	---	---	---	---	---	---	---	---	---	328.53	14.14	314.39	---	---

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-4 (D)	6/16/1994	80	5.9	<0.5	1.5	0.9	---	---	---	---	---	---	---	---	---	328.53	14.14	314.39	---	---
S-4	9/13/1994	<50	23	<0.5	4.9	2.4	---	---	---	---	---	---	---	---	---	328.53	14.42	314.11	---	---
S-4 (D)	9/13/1994	<50	23	<0.5	4	2.3	---	---	---	---	---	---	---	---	---	328.53	14.42	314.11	---	---
S-4	6/21/1995	270	34	1.4	25	7.6	---	---	---	---	---	---	---	---	---	328.53	13.82	314.71	---	---
S-4 (D)	6/21/1995	280	35	2.1	26	8.4	---	---	---	---	---	---	---	---	---	328.53	13.82	314.71	---	---
S-4	6/12/1996	360	52	<0.5	<0.5	<0.5	92	---	---	---	---	---	---	---	---	328.53	13.64	314.89	---	---
S-4 (D)	6/12/1996	430	54	<1.2	72	21	96	---	---	---	---	---	---	---	---	328.53	13.64	314.89	---	---
S-4	6/25/1997	6,700	93	1,200	240	1,300	6,900	6,800	---	---	---	---	---	---	---	328.53	13.74	314.79	---	0.6
S-4	6/19/1998	3,500	56	15	140	670	2,100	---	---	---	---	---	---	---	---	328.53	12.55	315.98	---	0.8
S-4 (D)	6/19/1998	3,000	51	14	110	530	2,000	---	---	---	---	---	---	---	---	328.53	12.55	315.98	---	0.8
S-4	6/17/1999	1,510	28.4	9.84	176	132	1,780	---	---	---	---	---	---	---	---	328.53	13.24	315.29	---	4.8
S-4	6/15/2000	<500	12.0	<5.00	31.0	22.8	12,200	---	---	---	---	---	---	---	---	328.53	13.65	314.88	---	2.1
S-4	11/29/2000	<500	<5.00	<5.00	<5.00	<5.00	12,100	---	---	---	---	---	---	---	---	328.53	14.23	314.30	---	1.8
S-4	3/7/2001	<500	5.44	<5.00	6.49	<5.00	11,400	14,500	---	---	---	---	---	---	---	328.53	13.15	315.38	---	2.4
S-4	6/18/2001	<1,000	<10	<10	<10	<10	---	3,500	---	---	---	---	---	---	---	328.53	13.81	314.72	---	---
S-4	9/17/2001	<500	<5.0	<5.0	<5.0	<5.0	---	7,700	---	---	---	---	---	---	---	328.53	14.29	314.24	---	---
S-4	12/31/2001	<1,000	<10	<10	<10	<10	---	3,800	---	---	---	---	---	---	---	328.53	13.44	315.09	---	---
S-4	3/13/2002	<2,500	<25	<25	<25	<25	---	18,000	---	---	---	---	---	---	---	328.53	14.42	314.11	---	---
S-4	6/18/2002	<100	1.1	<1.0	<1.0	<1.0	---	530	---	---	---	---	---	---	---	328.53	15.19	313.34	---	---
S-4	9/27/2002	<200	<2.0	<2.0	<2.0	<2.0	---	1,100	---	---	---	---	---	---	---	328.11	14.32	313.79	---	---
S-4	12/27/2002	280	3.5	<2.5	17	4.7	---	390	<2.5	<2.5	<5.0	9,000	<2.5	<2.5	---	328.11	13.50	314.61	---	---
S-4	3/24/2003	<2,500	<25	<25	<25	<50	---	780	---	---	---	---	---	---	---	328.11	14.56	313.55	---	---
S-4	5/9/2003	<2,500	<25	<25	<25	<50	---	1,200	---	---	---	18,000	---	---	---	328.11	13.20	314.91	---	---
S-4	7/8/2003	<2,500	<25	<25	<25	<50	---	1,700	---	---	---	8,700	---	---	---	328.11	20.87	307.24	---	---
S-4	10/15/2003	<2,500	<25	<25	<25	<50	---	280	---	---	---	11,000	---	---	---	328.11	16.15	311.96	---	---
S-4	1/6/2004	3,500	<5.0	19	190	570	---	58	---	---	---	9,600	---	---	---	328.11	21.64	306.47	---	---
S-4	4/7/2004	<1,000	<10	<10	<10	<20	---	110	---	---	---	9,900	---	---	---	328.11	20.89	307.22	---	---
S-4	7/27/2004	<1,000	<10	<10	<10	<20	---	<10	<40	<40	<40	10,000	---	---	<1,000	328.11	20.78	307.33	---	---
S-4	10/29/2004	<1,000	<10	<10	<10	<20	---	110	<40	<40	<40	5,600	---	---	<1,000	328.11	20.53	307.58	---	---
S-4	1/6/2005	<1,000	<10	<10	<10	<20	---	<10	<40	<40	<40	6,500	---	---	---	328.11	20.44	307.67	---	---
S-4	4/14/2005	<250	<2.5	<2.5	3.1	<2.5	---	120	<2.5	<2.5	<2.5	6,000	---	---	<25	328.11	18.60	309.51	---	---
S-4	7/29/2005	<250	<2.5	<2.5	<2.5	<5.0	---	4.4	<10	<10	<10	3,100	---	---	<250	328.11	21.03	307.08	---	---
S-4	10/20/2005	<250	<2.5	<2.5	<2.5	<5.0	---	<2.5	<10	<10	<10	2,700	---	---	<250	328.11	21.62	306.49	---	---
S-4	1/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	0.950	<0.500	<0.500	<0.500	723	---	---	<50.0	328.11	21.10	307.01	---	---

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-4	4/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	79.4	<0.500	<0.500	<0.500	1,310	---	---	<50.0	328.11	13.24	314.87	---	---
S-4	7/12/2006	<50.0	4.42	<0.500	29.1	36.5	---	230	<0.500	<0.500	0.930	1,530	---	---	<50.0	328.11	13.45	314.66	---	---
S-4	10/20/2006	1,150	5.30	0.990	41.5	2.79	---	208	<0.500	<0.500	<0.500	2,160	---	---	<50.0	328.11	13.63	314.48	---	---
S-4	1/22/2007	550	4.8	<2.5	30	<5.0	---	130	<5.0	<5.0	<5.0	3,000	---	---	<750	328.11	14.32	313.79	---	---
S-4	4/13/2007	320 k,l	0.48 m	<1.0	3.3	<1.0	---	18	<2.0	<2.0	<2.0	390	---	---	<100	328.11	13.68	314.43	---	---
S-4	7/9/2007	240 k	1.5	0.32 m	6.9	<1.0	---	59	<2.0	<2.0	<2.0	1,900	---	---	<100	328.11	12.78	315.33	---	---
S-4	10/22/2007	170 k	1.3 m	<5.0	3.8 m	<5.0	---	36	<10	<10	<10	1,600	---	---	<500	328.11	14.26	313.85	---	---
S-4	1/9/2008	85 k	<2.5	<5.0	1.3 m	<5.0	---	26	<10	<10	<10	1,700	---	---	<500	328.11	13.40	314.71	---	---
S-4	4/11/2008	430	<2.5	<5.0	<5.0	<5.0	---	49	<10	<10	<10	3,100	---	---	<500	328.11	14.00	314.11	---	---
S-4	7/29/2008	190	1.1	<1.0	1.3	<1.0	---	24	<2.0	<2.0	<2.0	1,500	---	---	<100	328.11	14.64	313.47	---	---
S-4	10/29/2008	180	1.3	<1.0	5.7	<1.0	---	21	<2.0	<2.0	<2.0	1,700	---	---	<100	328.11	14.73	313.38	---	---
S-4	1/21/2009	940	4.6	<2.0	31	<2.0	---	38	<4.0	<4.0	<4.0	2,400	---	---	<200	328.11	13.66	314.45	---	---
S-4	4/16/2009	680	3.4	<5.0	14	<5.0	---	29	<10	<10	<10	2,200	---	---	<500	328.11	13.43	314.68	---	---
S-4	7/9/2009	280	<2.5	<5.0	<5.0	<5.0	---	17	<10	<10	<10	1,900	---	---	<500	328.11	15.04	313.07	---	---
S-4	1/11/2010	580	2.8	<2.0	6.0	<2.0	---	19	<4.0	<4.0	<4.0	1,500	---	---	<200	328.11	13.75	314.36	---	---
S-4	7/6/2010	490	1.8	<1.0	23	<1.0	---	11	---	---	---	890	---	---	<100	328.11	14.35	313.76	---	---
S-4	**1/21/2011**	**58**	**1.4**	**<0.50**	**<0.50**	**<1.0**	**---**	**13**	**<1.0**	**<1.0**	**<1.0**	**810**	**---**	**---**	**<150**	**328.11**	**13.85**	**314.26**	**---**	**---**
S-5	2/14/1988	1,000	40	86	180	180	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	10/13/1988	560	66	20	18	36	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	1/31/1989	180	27	8	9	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	3/7/1989	3,800	520	530	260	570	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	6/26/1989	<50	3.8	<1	2	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	9/8/1989	110	25	2	2	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	12/14/1989	1,700	300	86	67	140	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	3/5/1990	1,100	100	110	79	240	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	6/14/1990	600	94	36	40	62	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	10/2/1990	4,500	1,400	160	260	300	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	11/20/1990	16,000	4,600	720	790	1,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	12/18/1990	25,000	7,600	1,100	1,300	2,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5	3/20/1991	310	39	12	18	30	---	---	---	---	---	---	---	---	---	329.66	---	---	---	---
S-5	6/26/1991	1,300	250	62	120	180	---	---	---	---	---	---	---	---	---	329.66	---	---	---	---
S-5	9/5/1991	4,700	660	150	170	280	---	---	---	---	---	---	---	---	---	329.66	---	---	---	---
S-5	12/13/1991	1,400	580	19	110	80	---	---	---	---	---	---	---	---	---	329.66	17.48	312.18	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-5	3/11/1992	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	---	---	---	329.66	16.22	313.44	---	---
S-5	6/24/1992	1,800	380	52	120	180	---	---	---	---	---	---	---	---	---	329.66	17.47	312.19	---	---
S-5	9/17/1992	2,200	750	91	170	170	---	---	---	---	---	---	---	---	---	329.66	16.84	312.82	---	---
S-5	12/11/1992	8,700	1,600	66	48	340	---	---	---	---	---	---	---	---	---	329.66	16.37	313.29	---	---
S-5	2/4/1993	150	156	0.7	4.7	4	---	---	---	---	---	---	---	---	---	329.66	---	---	---	---
S-5	6/3/1993	480	140	3.4	17	14	---	---	---	---	---	---	---	---	---	329.66	---	---	---	---
S-5	9/15/1993	80	2.4	0.5	1.4	2.9	---	---	---	---	---	---	---	---	---	329.66	16.20	313.46	---	---
S-5	12/9/1993	120	0.56	<0.5	2.2	1.2	---	---	---	---	---	---	---	---	---	329.66	16.26	313.40	---	---
S-5	3/4/1994	70	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	329.66	16.25	313.41	---	---
S-5	6/16/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	329.66	16.04	313.62	---	---
S-5	9/13/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	329.66	11.52	318.14	---	---
S-5	6/21/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	329.66	14.50	315.16	---	---
S-5	6/12/1996	<500	6	<5.0	<5.0	<5.0	1,400	---	---	---	---	---	---	---	---	329.66	12.53	317.13	---	---
S-5	6/25/1997	<250	<2.5	<2.5	<2.5	<2.5	1,100	---	---	---	---	---	---	---	---	329.66	15.34	314.32	---	1.1
S-5	6/19/1998	<50	1	<0.50	<0.50	<0.50	61	---	---	---	---	---	---	---	---	329.66	13.71	315.95	---	3.6
S-5	6/17/1999	<50.0	1.44	<0.500	<0.500	<0.500	336	---	---	---	---	---	---	---	---	329.66	13.56	316.10	---	1.4
S-5	6/15/2000	<50.0	0.820	<0.500	<0.500	<0.500	221	---	---	---	---	---	---	---	---	329.66	15.00	314.66	---	2.7
S-5	11/29/2000	<50.0	<0.500	<0.500	<0.500	<0.500	183	---	---	---	---	---	---	---	---	329.66	16.29	313.37	---	0.7
S-5	3/7/2001	<50.0	<0.500	<0.500	<0.500	<0.500	7.55	---	---	---	---	---	---	---	---	329.66	15.49	314.17	---	2.5
S-5	6/18/2001	<50	<0.50	<0.50	<0.50	<0.50	---	11	---	---	---	---	---	---	---	329.66	15.50	314.16	---	---
S-5	9/17/2001	<50	<0.50	<0.50	<0.50	<0.50	---	17	---	---	---	---	---	---	---	329.66	16.35	313.31	---	---
S-5	12/31/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	329.66	12.80	316.86	---	---
S-5	3/13/2002	<50	<0.50	<0.50	<0.50	<0.50	---	93	---	---	---	---	---	---	---	329.66	16.32	313.34	---	---
S-5	6/18/2002	<50	<0.50	<0.50	<0.50	<0.50	---	130	---	---	---	---	---	---	---	329.66	17.00	312.66	---	---
S-5	9/27/2002	<50	0.88	<0.50	<0.50	<0.50	---	280	---	---	---	---	---	---	---	329.36	16.34	313.02	---	---
S-5	12/27/2002	<50	1.9	<0.50	<0.50	<0.50	---	87	<2.0	<2.0	<2.0	<50	<2.0	<2.0	---	329.36	15.45	313.91	---	---
S-5	3/24/2003	<250	2.5	<2.5	<2.5	<5.0	---	220	---	---	---	---	---	---	---	329.36	16.70	312.66	---	---
S-5	5/9/2003	<50	<0.50	<0.50	<0.50	<1.0	---	110	---	---	---	17	---	---	---	329.36	13.16	316.20	---	---
S-5	7/8/2003	<1,000	<10	<10	<10	<20	---	320	---	---	---	<100	---	---	---	329.36	19.00	310.36	---	---
S-5	10/15/2003	1,400 e	27	<2.5	<2.5	<5.0	---	180	---	---	---	51	---	---	---	329.36	19.08	310.28	---	---
S-5	1/6/2004	84,000	1,400	1,200	<25	17,000	---	140	---	---	---	<250	---	---	---	329.36	20.97	308.39	---	---
S-5	4/7/2004	20,000	70	<25	230	290	---	66	---	---	---	<250	---	---	---	329.36	20.81	308.55	---	---
S-5	7/27/2004	9,900	46	<25	74	<50	---	43	<100	<100	<100	<250	---	---	<2,500	329.36	20.93	308.46	0.04	---
S-5	8/4/2004	22,000	48	<10	63	38	---	---	---	---	---	---	---	---	---	329.36	20.97	308.46	0.09	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-5	10/29/2004	14,000	93	<25	96	94	---	<25	<100	<100	<100	<250	---	---	<2,500	329.36	18.59	310.77	---	---
S-5	1/6/2005	4,500	32	<10	47	86	---	<10	<40	<40	<40	<100	---	---	---	329.36	18.83	310.53	---	---
S-5	4/14/2005	1,700	1.0	<0.50	8.4	16	---	5.6	<0.50	<0.50	<0.50	8.1	---	---	<5.0	329.36	15.03	314.33	---	---
S-5	7/29/2005	3,900	8.9	<2.5	9.8	13	---	21	<10	<10	<40	<200	---	---	<1,000	329.36	19.71	309.65	---	---
S-5	10/20/2005	3,300	27	<2.5	9.1	14	---	6.0	<10	<10	<10	32	---	---	<250	329.36	21.90	307.46	---	---
S-5	11/11/2005	2,300	54	0.69	15	19	---	8.3	---	---	---	<5.0	---	---	---	329.36	22.17	307.19	---	---
S-5	1/26/2006	6,680	43.6	4.93	38.2	89.1	---	8.38	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	329.36	20.85	308.51	---	---
S-5	4/24/2006	1,930	1.43	<0.500	<0.500	12.1	---	2.76	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	329.36	14.40	314.96	---	---
S-5	7/12/2006	<50.0	4.24	<0.500	25.8	44.8	---	6.43	<0.500	<0.500	<0.500	35.3	---	---	<50.0	329.36	15.50	313.86	---	---
S-5	10/20/2006	2,890	17.5	0.760	55.1	106	---	3.78	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	329.36	15.55	313.81	---	---
S-5	1/22/2007	1,600	7.3	0.54	35	60	---	0.73 i	<1.0	<1.0	<1.0	<10	---	---	<150	329.36	15.74	313.62	---	---
S-5	4/13/2007	1,100 k	4.6	0.47 m	18	25.9	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	329.36	15.69	313.67	---	---
S-5	7/9/2007	440 k	3.0	0.29 m	13	19.7	---	2.8	<2.0	<2.0	<2.0	<10	---	---	<100	329.36	15.46	313.90	---	---
S-5	10/22/2007	6,300 k	3.1	0.41 m	21	28.3	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	329.36	15.87	313.49	---	---
S-5	1/9/2008	590 k	0.69	0.28 m	10	11.3	---	0.71 m	<2.0	<2.0	<2.0	<10	---	---	100	329.36	14.97	314.39	---	---
S-5	4/11/2008	470	0.76	<1.0	5.4	4.7	---	4.9	<2.0	<2.0	<2.0	18	---	---	<100	329.36	16.38	312.98	---	---
S-5	7/29/2008	350	1.1	<1.0	3.9	2.3	---	4.4	<2.0	<2.0	<2.0	18	---	---	<100	329.36	16.22	313.14	---	---
S-5	10/29/2008	630	5.7	<1.0	4.5	2.9	---	9.5	<2.0	<2.0	<2.0	23	---	---	<100	329.36	17.50	311.86	---	---
S-5	1/21/2009	1,200	14	<1.0	7.0	4.1	---	22	<2.0	<2.0	<2.0	46	---	---	<100	329.36	16.52	312.84	---	---
S-5	4/16/2009	280	1.3	<1.0	2.7	1.4	---	11	<2.0	<2.0	<2.0	35	---	---	<100	329.36	15.95	313.41	---	---
S-5	7/9/2009	500	4.3	<1.0	2.9	1.4	---	22	<2.0	<2.0	<2.0	32	---	---	<100	329.36	17.46	311.90	---	---
S-5	1/11/2010	370	5.0	<1.0	4.0	<1.0	---	26	<2.0	<2.0	<2.0	31	---	---	<100	329.36	16.68	312.68	---	---
S-5	7/6/2010	1,300	6.5	<1.0	8.5	<1.0	---	49	---	---	---	85	---	---	<100	329.36	16.20	313.16	---	---
S-5	**1/21/2011**	**330**	**1.4**	**<0.50**	**1.3**	**<1.0**	**---**	**21**	**<1.0**	**<1.0**	**<1.0**	**40**	**---**	**---**	**<150**	**329.36**	**16.27**	**313.09**	**---**	**---**
S-5B	11/8/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	332.25	43.71	288.54	---	---
S-5B	11/11/2005	<50	<0.50	<0.50	<0.50	<1.0	---	2.5	---	---	---	15	---	---	---	332.25	43.79	288.46	---	---
S-5B	1/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	1.63	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	332.25	38.21	294.04	---	---
S-5B	4/24/2006	<50.0	0.540	1.18	<0.500	<0.500	---	1.88	<0.500	<0.500	<0.500	12.2	---	---	<50.0	332.25	30.68	301.57	---	---
S-5B	7/12/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	1.63	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	332.25	30.05	302.20	---	---
S-5B	10/20/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	1.04	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	332.25	31.60	300.65	---	---
S-5B	1/22/2007	<50	0.33 i	0.36 i	0.27 i	<1.0	---	0.90 i	<1.0	<1.0	<1.0	<10	---	---	<150	332.25	27.79	304.46	---	---
S-5B	4/13/2007	<50 k	0.30 m	0.28 m	<1.0	<1.0	---	0.73 m	<2.0	<2.0	<2.0	<10	---	---	79 m	332.25	24.78	307.47	---	---
S-5B	7/9/2007	<50 k	0.37 m	<1.0	<1.0	<1.0	---	0.49 m	<2.0	<2.0	<2.0	<10	---	---	<100	332.25	31.12	301.13	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-5B	10/22/2007	66 k	0.33 m	<1.0	<1.0	<1.0	---	0.64 m	<2.0	<2.0	<2.0	5.7 m	---	---	<100	332.25	29.64	302.61	---	---
S-5B	1/9/2008	<50 k	0.29 m	<1.0	<1.0	<1.0	---	0.46 m	<2.0	<2.0	<2.0	<10	---	---	220	332.25	25.52	306.73	---	---
S-5B	4/11/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	332.25	25.32	306.93	---	---
S-5B	7/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	100	332.25	32.33	299.92	---	---
S-5B	10/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	332.25	34.51	297.74	---	---
S-5B	1/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	10	---	---	<100	332.25	32.27	299.98	---	---
S-5B	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	14	---	---	<100	332.25	29.30	302.95	---	---
S-5B	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	200	332.25	34.41	297.84	---	---
S-5B	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	200	332.25	37.45	294.80	---	---
S-5B	7/6/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	<10	---	---	<100	332.25	35.18	297.07	---	---
S-5B	**1/21/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**<150**	**332.25**	**36.52**	**295.73**	**---**	**---**
S-5C	11/8/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	332.33	43.69	288.64	---	---
S-5C	11/11/2005	55	<0.50	0.67	<0.50	<1.0	---	0.87	---	---	---	<5.0	---	---	---	332.33	43.65	288.68	---	---
S-5C	1/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	1.91	<0.500	<0.500	<0.500	41.2	---	---	<50.0	332.33	38.11	294.22	---	---
S-5C	4/24/2006	<50.0	0.740	<0.500	<0.500	<0.500	---	1.93	<0.500	<0.500	<0.500	17.8	---	---	<50.0	332.33	30.61	301.72	---	---
S-5C	7/12/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	1.42	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	332.33	30.07	302.26	---	---
S-5C	10/20/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	332.33	31.67	300.66	---	---
S-5C	1/22/2007	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<1.0	<1.0	<1.0	9.0 h,i	---	---	<150	332.33	27.90	304.43	---	---
S-5C	4/13/2007	<50 k	0.24 m	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	12	---	---	<100	332.33	24.90	307.43	---	---
S-5C	7/9/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	5.5 m	---	---	<100	332.33	31.22	301.11	---	---
S-5C	10/22/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	10	---	---	<100	332.33	29.59	302.74	---	---
S-5C	1/9/2008	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	8.8 m	---	---	<100	332.33	25.51	306.82	---	---
S-5C	4/11/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	332.33	25.51	306.82	---	---
S-5C	7/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	332.33	32.48	299.85	---	---
S-5C	10/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	332.33	36.39	295.94	---	---
S-5C	1/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	332.33	32.20	300.13	---	---
S-5C	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	332.33	29.29	303.04	---	---
S-5C	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	332.33	34.51	297.82	---	---
S-5C	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	332.33	37.45	294.88	---	---
S-5C	7/6/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	---	---	---	<10	---	---	<100	332.33	35.14	297.19	---	---
S-5C	**1/21/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**<150**	**332.33**	**36.42**	**295.91**	**---**	**---**
S-6	10/13/1988	1100	13.0	1	42	33	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-6	1/31/1989	340	3.8	<1	8	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-6	3/7/1989	190	3.8	<1	7	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-6	6/26/1989	480	15	<1	6	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-6	9/8/1989	270	1.3	1	7	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-6	12/15/1989	320	1.0	<0.5	2.6	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-6	3/6/1990	420	3.1	<0.5	14	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-6	6/14/1990	370	3.7	0.9	4.8	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-6	10/2/1990	190	6.6	1.6	1.9	2.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-6	12/18/1990	430	10	0.7	1.6	1.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-6	3/20/1991	130a	606	0.6	0.7	3	---	---	---	---	---	---	---	---	---	327.62	---	---	---	---
S-6	6/26/1991	120a	3.8	0.8	<0.5	1.7	---	---	---	---	---	---	---	---	---	327.62	---	---	---	---
S-6	9/5/1991	60	<0.5	0.8	<0.5	0.5	---	---	---	---	---	---	---	---	---	327.62	---	---	---	---
S-6	12/13/1991	150	2.3	<0.5	<0.5	150	---	---	---	---	---	---	---	---	---	327.62	15.11	312.51	---	---
S-6	3/11/1992	<30	<0.3	<0.3	<0.5	<0.3	---	---	---	---	---	---	---	---	---	327.62	16.35	311.27	---	---
S-6	6/24/1992	170	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.62	16.51	311.11	---	---
S-6	9/17/1992	190	<0.5	1.6	<0.5	1.2	---	---	---	---	---	---	---	---	---	327.62	14.33	313.29	---	---
S-6	12/11/1992	180	<0.5	0.8	<0.5	0.7	---	---	---	---	---	---	---	---	---	327.62	14.48	313.14	---	---
S-6	2/4/1993	290	<0.5	<0.5	<0.5	0.7	---	---	---	---	---	---	---	---	---	327.62	---	---	---	---
S-6	6/3/1993	100	1.2	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.62	---	---	---	---
S-6	9/15/1993	160	1.4	<0.5	0.9	2	---	---	---	---	---	---	---	---	---	327.62	14.16	313.46	---	---
S-6	12/9/1993	130	2.3	2.6	5.1	6.2	---	---	---	---	---	---	---	---	---	327.62	14.68	312.94	---	---
S-6	3/4/1994	220	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.62	14.42	313.20	---	---
S-6	6/16/1994	60	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.62	14.92	312.70	---	---
S-6	9/13/1994	<50	<0.5	6	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.62	14.72	312.90	---	---
S-6	6/21/1995	270	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.62	13.86	313.76	---	---
S-6	6/12/1996	200	2	<0.5	<0.5	<0.5	12	---	---	---	---	---	---	---	---	327.62	13.90	313.72	---	---
S-6	6/25/1997	180	<0.50	0.61	<0.50	0.77	28	---	---	---	---	---	---	---	---	327.62	13.64	313.98	---	1.8
S-6 (D)	6/25/1997	130	<0.50	<0.50	<0.50	<0.50	21	---	---	---	---	---	---	---	---	327.62	13.64	313.98	---	1.8
S-6	6/19/1998	100	7.6	<0.50	<0.50	<0.50	27	---	---	---	---	---	---	---	---	327.62	13.81	313.81	---	1.7
S-6	6/17/1999	114	4.14	<0.500	<0.500	<0.500	19.9	---	---	---	---	---	---	---	---	327.62	14.21	313.41	---	1.6
S-6	6/15/2000	367	17.5	<0.500	<0.500	<0.500	1,050	---	---	---	---	---	---	---	---	327.62	14.51	313.11	---	1.8
S-6	11/29/2000	154	0.754	16.4	<0.500	1.05	5,470	---	---	---	---	---	---	---	---	327.62	14.32	313.30	---	2.1
S-6	3/7/2001	183	0.971	25.1	0.636	0.996	6,830	---	---	---	---	---	---	---	---	327.62	15.39	312.23	---	1.7
S-6	6/18/2001	<2,000	<20	<20	<20	<20	---	8,200	---	---	---	---	---	---	---	327.62	14.72	312.90	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-6	09/17/2001 c	<50	<0.50	<0.50	<0.50	<0.50	---	5.7	<2.0	<2.0	<2.0	<50	---	---	<500	327.62	16.69	310.93	---	---
S-6	12/31/2001	260	<0.50	<0.50	<0.50	<0.50	---	11,000	---	---	---	---	---	---	---	327.62	13.99	313.63	---	---
S-6	3/13/2002	440	<2.5	<2.5	<2.5	<2.5	---	930	---	---	---	---	---	---	---	327.62	15.10	312.52	---	---
S-6	6/18/2002	340	<1.0	<1.0	<1.0	<1.0	---	560	---	---	---	---	---	---	---	327.62	15.24	312.38	---	---
S-6	9/27/2002	<250	<2.5	<2.5	<2.5	<2.5	---	580	---	---	---	---	---	---	---	327.26	14.34	312.92	---	---
S-6	12/27/2002	<500	<5.0	<5.0	<5.0	<5.0	---	230	<5.0	<5.0	<5.0	10,000	<5.0	<5.0	---	327.26	14.30	312.96	---	---
S-6	3/24/2003	<5,000	<50	<50	<50	<100	---	<500	---	---	---	---	---	---	---	327.26	14.37	312.89	---	---
S-6	5/9/2003	<2,500	<25	<25	<25	<50	---	140	---	---	---	12,000	---	---	---	327.26	14.25	313.01	---	---
S-6	7/8/2003	<2,500	<25	<25	<25	<50	---	100	---	---	---	8,400	---	---	---	327.26	15.37	311.89	---	---
S-6	10/15/2003	<1,000	<10	<10	<10	<20	---	63	---	---	---	10,000	---	---	---	327.26	17.69	309.57	---	---
S-6	1/6/2004	<500	<5.0	<5.0	<5.0	<10	---	27	---	---	---	7,600	---	---	---	327.26	17.19	310.07	---	---
S-6	4/7/2004	<500	<5.0	<5.0	<5.0	<10	---	15	---	---	---	2,900	---	---	---	327.26	16.72	310.54	---	---
S-6	7/27/2004	860 e	<5.0	<5.0	<5.0	<10	---	30	<20	<20	<20	5,700	---	---	<500	327.26	16.90	310.36	---	---
S-6	10/29/2004	<500	<5.0	<5.0	<5.0	<10	---	14	<20	<20	<20	2,500	---	---	<500	327.26	16.68	310.58	---	---
S-6	1/6/2005	<200	<2.0	<2.0	<2.0	<4.0	---	8.7	<8.0	<8.0	<8.0	1,200	---	---	---	327.26	16.75	310.51	---	---
S-6	4/14/2005	180	<0.90	<0.90	<0.90	<0.90	---	11	<0.90	<0.90	<0.90	2,300	---	---	<9.0	327.26	15.30	311.96	---	---
S-6	7/29/2005	270 g	<2.5	<2.5	<2.5	<5.0	---	17	<10	<10	<10	2,300	---	---	<250	327.26	16.77	310.49	---	---
S-6	10/20/2005	570	<2.5	<2.5	<2.5	<5.0	---	7.1	<10	<10	<10	1,200	---	---	<250	327.26	17.30	309.96	---	---
S-6	1/26/2006	808	<0.500	<0.500	<0.500	<0.500	---	5.07	<0.500	<0.500	<0.500	473	---	---	<50.0	327.26	17.00	310.26	---	---
S-6	4/24/2006	303	<0.500	<0.500	<0.500	<0.500	---	4.03	<0.500	<0.500	<0.500	212	---	---	<50.0	327.26	15.42	311.84	---	---
S-6	7/12/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	13.3	<0.500	<0.500	<0.500	609	---	---	<50.0	327.26	15.15	312.11	---	---
S-6	10/20/2006	850	<0.500	<0.500	<0.500	<0.500	---	26.4	<0.500	<0.500	<0.500	1,050	---	---	<50.0	327.26	13.98	313.28	---	---
S-6	1/22/2007	620	<2.0	<2.0	<2.0	<4.0	---	30	<4.0	<4.0	<4.0	2,000	---	---	<600	327.26	14.14	313.12	---	---
S-6	4/13/2007	490 k,l	<2.5	<5.0	<5.0	<5.0	---	21	<10	<10	<10	1,700	---	---	<500	327.26	14.35	312.91	---	---
S-6	7/9/2007	830 k,l	<0.50	<1.0	<1.0	<1.0	---	29	<2.0	<2.0	<2.0	2,300	---	---	<100	327.26	14.22	313.04	---	---
S-6	10/22/2007	810 k	<2.5	<5.0	<5.0	<5.0	---	26	<10	<10	<10	2,300	---	---	<500	327.26	14.72	312.54	---	---
S-6	1/9/2008	220 k	<2.5	<5.0	<5.0	<5.0	---	15	<10	<10	<10	1,100	---	---	<500	327.26	14.97	312.29	---	---
S-6	4/11/2008	590	<0.50	<1.0	<1.0	<1.0	---	13	<2.0	<2.0	<2.0	2,000	---	---	<100	327.26	14.70	312.56	---	---
S-6	7/29/2008	1,100	<2.5	<5.0	<5.0	<5.0	---	15	<10	<10	<10	1,700	---	---	<500	327.26	15.84	311.42	---	---
S-6	10/29/2008	1,000	<2.5	<5.0	<5.0	<5.0	---	14	<10	<10	<10	3,200	---	---	<500	327.26	16.29	310.97	---	---
S-6	1/21/2009	600	<2.5	<5.0	<5.0	<5.0	---	8.1	<10	<10	<10	1,900	---	---	<500	327.26	15.80	311.46	---	---
S-6	4/16/2009	840	<2.5	<5.0	<5.0	<5.0	---	13	<10	<10	<10	4,000	---	---	<500	327.26	14.35	312.91	---	---
S-6	7/9/2009	970	<2.5	<5.0	<5.0	<5.0	---	17	<10	<10	<10	7,100	---	---	<500	327.26	15.02	312.24	---	---
S-6	1/11/2010	880	<2.5	<5.0	<5.0	<5.0	---	8.7	<10	<10	<10	4,400	---	---	<500	327.26	14.61	312.65	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-6	7/6/2010	950	<0.50	<1.0	<1.0	<1.0	---	13	---	---	---	5,200	---	---	<100	327.26	14.41	312.85	---	---
S-6	**1/21/2011**	**490**	**<2.0**	**<2.0**	**<2.0**	**4.7**	**---**	**6.6**	**<4.0**	**<4.0**	**<4.0**	**3,500**	**---**	**---**	**<600**	**327.26**	**14.61**	**312.65**	**---**	**---**
S-7	10/13/1988	<50	0.6	1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-7	1/31/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-7	3/7/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-7	6/26/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-7	9/8/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-7	12/15/1989	<50	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-7	3/6/1990	<50	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-7	6/14/1990	<50	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-7	10/2/1990	<50	<0.5	0.6	<0.5	0.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-7	12/18/1990	<50	0.5	<0.5	<0.5	0.86	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-7	3/20/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.67	---	---	---	---
S-7	6/26/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.67	---	---	---	---
S-7	9/5/1991	<50	<0.5	0.6	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.67	---	---	---	---
S-7	12/13/1991	<50	<0.6	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.67	17.70	310.97	---	---
S-7	3/11/1992	<50	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	---	---	---	328.67	17.06	311.61	---	---
S-7	6/24/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.67	17.80	310.87	---	---
S-7	9/17/1992	<50	0.6	0.6	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.67	17.00	311.67	---	---
S-7	12/11/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.67	17.35	311.32	---	---
S-7	2/4/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.67	---	---	---	---
S-7	6/3/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.67	---	---	---	---
S-7	9/15/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	328.67	16.65	312.02	---	---
S-7	12/9/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	328.67	---	---	---	---
S-7	9/13/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	328.67	16.83	311.84	---	---
S-7	6/21/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.67	15.88	312.79	---	---
S-7	6/12/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	---	---	---	328.67	16.22	312.45	---	---
S-7	6/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	---	---	328.67	16.12	312.55	---	3
S-7	6/19/1998	<50	<0.50	<.050	<0.50	<0.50	<2.5	---	---	---	---	---	---	---	---	328.67	14.81	313.86	---	2.6
S-7	6/17/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	---	---	---	328.67	15.91	312.76	---	5.1
S-7	6/15/2000	<50.0	<0.500	<0.500	<0.500	<0.500	7.32	---	---	---	---	---	---	---	---	328.67	16.14	312.53	---	2.0
S-7	11/29/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	---	---	328.67	16.89	311.78	---	3.6
S-7	3/7/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	---	---	328.67	16.55	312.12	---	2.1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-7	6/18/2001	<50	<0.50	<0.50	<0.50	<0.50	---	2.5	---	---	---	---	---	---	---	328.67	16.30	312.37	---	---
S-7	09/17/2001 c	150	<0.50	55	<0.50	<0.50	---	8,300	---	---	---	---	---	---	---	328.67	14.23	314.44	---	---
S-7	12/31/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	328.67	16.28	312.39	---	---
S-7	3/13/2002	<50	<0.50	<0.50	<0.50	<0.50	---	5.9	---	---	---	---	---	---	---	328.67	17.41	311.26	---	---
S-7	6/18/2002	<50	<0.50	<0.50	<0.50	<0.50	---	12	---	---	---	---	---	---	---	328.67	17.63	311.04	---	---
S-7	9/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	10	---	---	---	---	---	---	---	328.41	16.96	311.45	---	---
S-7	12/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	22	<2.0	<2.0	<2.0	<50	4.1	<2.0	---	328.41	16.00	312.41	---	---
S-7	3/24/2003	<50	<0.50	<0.50	<0.50	<1.0	---	21	---	---	---	---	---	---	---	328.41	17.12	311.29	---	---
S-7	5/9/2003	<50	<0.50	<0.50	<0.50	<1.0	---	31	---	---	---	7.3	---	---	---	328.41	16.14	312.27	---	---
S-7	7/8/2003	<50	<0.50	<0.50	<0.50	<1.0	---	36	---	---	---	6.5	---	---	---	328.41	17.42	310.99	---	---
S-7	10/15/2003	<50	<0.50	<0.50	<0.50	<1.0	---	100	---	---	---	<5.0	---	---	---	328.41	15.49	312.92	---	---
S-7	1/6/2004	<100	<1.0	<1.0	<1.0	<2.0	---	200	---	---	---	20	---	---	---	328.41	18.93	309.48	---	---
S-7	4/7/2004	<250	<2.5	<2.5	<2.5	<5.0	---	380	---	---	---	130	---	---	---	328.41	18.93	309.48	---	---
S-7	7/27/2004	<250	<2.5	<2.5	<2.5	<5.0	---	240	<10	<10	<10	45	---	---	<250	328.41	18.91	309.50	---	---
S-7	10/29/2004	<250	<2.5	<2.5	<2.5	<5.0	---	270	<10	<10	<10	52	---	---	<250	328.41	18.65	309.76	---	---
S-7	1/6/2005	<250	<2.5	<2.5	<2.5	<5.0	---	160	<10	<10	<10	<25	---	---	---	328.41	18.52	309.89	---	---
S-7	4/14/2005	<50	<0.50	<0.50	<0.50	<0.50	---	230	<0.50	<0.50	<0.50	130	---	---	<5.0	328.41	16.22	312.19	---	---
S-7	7/29/2005	<2,000	<20	<20	<20	<40	---	170	<80	<80	<80	<200	---	---	<2,000	328.41	18.57	309.84	---	---
S-7	10/20/2005	<100	<1.0	<1.0	<1.0	<2.0	---	180	<4.0	<4.0	<4.0	32	---	---	<100	328.41	19.25	309.16	---	---
S-7	1/26/2006	75.9	<0.500	<0.500	<0.500	<0.500	---	172	<0.500	<0.500	<0.500	65.1	---	---	<50.0	328.41	19.05	309.36	---	---
S-7	4/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	199	<0.500	<0.500	<0.500	22.6	---	---	<50.0	328.41	16.91	311.50	---	---
S-7	7/12/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	122	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	328.41	16.42	311.99	---	---
S-7	10/20/2006	176	<0.500	<0.500	<0.500	0.720	---	73.5	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	328.41	16.66	311.75	---	---
S-7	1/22/2007	<50	<0.50	<0.50	<0.50	<1.0	---	62	<1.0	<1.0	<1.0	6.2 h,i	---	---	<150	328.41	17.24	311.17	---	---
S-7	4/13/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	6.5	<2.0	<2.0	<2.0	<10	---	---	<100	328.41	17.05	311.36	---	---
S-7	7/9/2007	52 k,l	<0.50	<1.0	<1.0	<1.0	---	39	<2.0	<2.0	<2.0	<10	---	---	<100	328.41	16.52	311.89	---	---
S-7	10/22/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	33	<2.0	<2.0	<2.0	<10	---	---	<100	328.41	17.03	311.38	---	---
S-7	1/9/2008	<50 k	<0.50	<1.0	<1.0	<1.0	---	28	<2.0	<2.0	<2.0	<10	---	---	<100	328.41	17.00	311.41	---	---
S-7	4/11/2008	370	<0.50	<1.0	1.2	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	328.41	16.71	311.70	---	---
S-7	7/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	21	<2.0	<2.0	<2.0	<10	---	---	<100	328.41	17.35	311.06	---	---
S-7	10/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	18	<2.0	<2.0	<2.0	<10	---	---	<100	328.41	17.85	310.56	---	---
S-7	1/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	17	<2.0	<2.0	<2.0	<10	---	---	<100	328.41	17.41	311.00	---	---
S-7	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	19	<2.0	<2.0	<2.0	<10	---	---	<100	328.41	16.72	311.69	---	---
S-7	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	20	<2.0	<2.0	<2.0	<10	---	---	<100	328.41	17.91	310.50	---	---

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-7	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	13	<2.0	<2.0	<2.0	<10	---	---	<100	328.41	17.41	311.00	---	---
S-7	7/6/2010	<50	<50	<1.0	<1.0	<1.0	---	11	---	---	---	<10	---	---	<100	328.41	17.11	311.30	---	---
S-7	**1/21/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**6.9**	**<1.0**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**<150**	**328.41**	**16.85**	**311.56**	**---**	**---**
S-8	3/7/1989	<50	1.2	1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-8	6/26/1989	<50	0.8	1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-8	9/8/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-8	12/14/1989	<50	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-8	3/5/1990	<50	<0.5	0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-8	6/14/1990	<50	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-8	10/2/1990	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-8	12/18/1990	<50	2.9	7.0	1.0	6.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-8	3/20/1991	<50a	0.8	1.8	2.6	5.2	---	---	---	---	---	---	---	---	---	327.00	---	---	---	---
S-8	6/26/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.00	---	---	---	---
S-8	9/5/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.00	---	---	---	---
S-8	12/13/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.00	15.73	311.27	---	---
S-8	3/11/1992	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	---	---	---	327.00	14.64	312.36	---	---
S-8	6/24/1992	<50	1.4	1.9	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.00	15.77	311.23	---	---
S-8	9/17/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.00	15.37	311.63	---	---
S-8	12/11/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.00	14.94	312.06	---	---
S-8	2/4/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.00	---	---	---	---
S-8	6/3/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.00	---	---	---	---
S-8	9/15/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	327.00	14.91	312.09	---	---
S-8	12/9/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	327.00	---	---	---	---
S-8	9/13/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	327.00	15.16	313.08	---	---
S-8	6/21/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	327.00	14.11	312.89	---	---
S-8	6/12/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	---	---	---	327.00	14.20	312.80	---	---
S-8	6/25/1997	170	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	---	---	327.00	14.42	312.58	---	0.5
S-8	6/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	---	---	327.00	13.49	313.51	---	2.2
S-8	6/17/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	---	---	---	327.00	14.07	312.93	---	0.9
S-8	6/15/2000	Well ina	---	---	---	---	---	---	---	---	---	---	---	---	---	327.00	---	---	---	---
S-8	6/21/2000	<50.0	<0.500	<0.500	<0.500	<0.500	21.0	---	---	---	---	---	---	---	---	327.00	14.43	312.57	---	---
S-8	11/29/2000	<50.0	<0.500	<0.500	<0.500	<0.500	9.46	---	---	---	---	---	---	---	---	327.00	14.44	312.56	---	2.2
S-8	3/7/2001	<50.0	<0.500	<0.500	<0.500	<0.500	4.21	---	---	---	---	---	---	---	---	327.00	13.69	313.31	---	2.1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-8	6/18/2001	<50	0.55	0.92	<0.50	0.51	---	13	---	---	---	---	---	---	---	327.00	14.60	312.40	---	---
S-8	9/17/2001	Unable t	---	---	---	---	---	---	---	---	---	---	---	---	---	327.00	15.07	311.93	---	---
S-8	9/18/2001	Unable t	---	---	---	---	---	---	---	---	---	---	---	---	---	327.00	---	---	---	---
S-8	12/31/2001	<50	1.1	1.4	<0.50	<0.50	---	8.4	---	---	---	---	---	---	---	327.00	14.02	312.98	---	---
S-8	3/13/2002	Unable t	---	---	---	---	---	---	---	---	---	---	---	---	---	327.00	14.92	312.08	---	---
S-8	6/18/2002	<50	<0.50	<0.50	<0.50	<0.50	---	19	---	---	---	---	---	---	---	327.00	15.37	311.63	---	---
S-8	9/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	19	---	---	---	---	---	---	---	326.14	14.60	311.54	---	---
S-8	12/27/2002	Well ina	---	---	---	---	---	---	---	---	---	---	---	---	---	326.14	---	---	---	---
S-8	1/7/2003	Well ina	---	---	---	---	---	---	---	---	---	---	---	---	---	326.14	---	---	---	---
S-8	3/24/2003	<50	<0.50	<0.50	<0.50	<1.0	---	25	---	---	---	---	---	---	---	326.14	14.58	311.56	---	---
S-8	5/9/2003	<50	<0.50	<0.50	<0.50	<1.0	---	24	---	---	---	<5.0	---	---	---	326.14	13.45	312.69	---	---
S-8	7/8/2003	<50	<0.50	<0.50	<0.50	<1.0	---	46	---	---	---	<5.0	---	---	---	326.14	15.19	310.95	---	---
S-8	10/15/2003	<50	<0.50	<0.50	<0.50	<1.0	---	42	---	---	---	<5.0	---	---	---	326.14	16.58	309.56	---	---
S-8	1/6/2004	<50	<0.50	<0.50	<0.50	<1.0	---	50	---	---	---	<5.0	---	---	---	326.14	16.27	309.87	---	---
S-8	4/7/2004	<50	<0.50	<0.50	<0.50	<1.0	---	33	---	---	---	<5.0	---	---	---	326.14	16.12	310.02	---	---
S-8	7/27/2004	<50	<0.50	<0.50	<0.50	<1.0	---	18	<2.0	<2.0	<2.0	<5.0	---	---	<50	326.14	16.26	309.88	---	---
S-8	10/29/2004	<50	<0.50	<0.50	<0.50	<1.0	---	25	<2.0	<2.0	<2.0	<5.0	---	---	<50	326.14	15.93	310.21	---	---
S-8	1/6/2005	<50	<0.50	<0.50	<0.50	<1.0	---	21	<2.0	<2.0	<2.0	<5.0	---	---	---	326.14	15.79	310.35	---	---
S-8	4/14/2005	<50	<0.50	<0.50	<0.50	<0.50	---	11	<0.50	<0.50	<0.50	<5.0	---	---	<5.0	326.14	14.78	311.36	---	---
S-8	7/29/2005	<50	<0.50	<0.50	<0.50	<1.0	---	13	<2.0	<2.0	<2.0	<5.0	---	---	<50	326.14	16.51	309.63	---	---
S-8	10/20/2005	<50	<0.50	<0.50	<0.50	<1.0	---	11	<2.0	<2.0	<2.0	<5.0	---	---	<50	326.14	17.38	308.76	---	---
S-8	1/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	9.65	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	326.14	16.55	309.59	---	---
S-8	4/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	5.94	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	326.14	14.18	311.96	---	---
S-8	7/12/2006	<50.0	<0.500	<0.500	<0.500	<1.50	---	7.00	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	326.14	14.52	311.62	---	---
S-8	10/20/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	8.54	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	326.14	14.30	311.84	---	---
S-8	1/22/2007	<50	<0.50	<0.50	<0.50	<1.0	---	11	<1.0	<1.0	<1.0	<10	---	---	<150	326.14	15.07	311.07	---	---
S-8	4/13/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	9.0	<2.0	<2.0	<2.0	<10	---	---	<100	326.14	14.31	311.83	---	---
S-8	7/9/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	12	<2.0	<2.0	<2.0	<10	---	---	<100	326.14	14.38	311.76	---	---
S-8	10/22/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	22	<2.0	<2.0	<2.0	<10	---	---	<100	326.14	14.50	311.64	---	---
S-8	1/9/2008	<50 k	<0.50	<1.0	<1.0	<1.0	---	14	<2.0	<2.0	<2.0	<10	---	---	180	326.14	13.88	312.26	---	---
S-8	4/11/2008	51	<0.50	<1.0	<1.0	<1.0	---	25	<2.0	<2.0	<2.0	<10	---	---	<100	326.14	14.46	311.68	---	---
S-8	7/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	14	<2.0	<2.0	<2.0	<10	---	---	<100	326.14	15.45	310.69	---	---
S-8	10/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	12	<2.0	<2.0	<2.0	<10	---	---	<100	326.14	15.69	310.45	---	---
S-8	1/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	8.7	<2.0	<2.0	<2.0	<10	---	---	<100	326.14	14.91	311.23	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-8	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	8.1	<2.0	<2.0	<2.0	<10	---	---	<100	326.14	14.95	311.19	---	---
S-8	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	9.7	<2.0	<2.0	<2.0	<10	---	---	<100	326.14	15.36	310.78	---	---
S-8	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	6.7	<2.0	<2.0	<2.0	<10	---	---	<100	326.14	14.98	311.16	---	---
S-8	7/6/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	326.14	14.75	311.39	---	---
S-8	**1/21/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**1.2**	**---**	**5.3**	**<1.0**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**<150**	**326.14**	**14.53**	**311.61**	**---**	**---**
S-9	3/7/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	6/26/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	9/8/1989	<50	1.7	2	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	12/15/1989	<50	0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	3/6/1990	<50	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	6/14/1990	<50	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	10/2/1990	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	12/18/1990	<50	20	27	7.1	35	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	3/7/1989	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	6/26/1989	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	9/8/1989	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	12/15/1989	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	3/6/1990	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	6/14/1990	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	12/2/1990	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	12/18/1990	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-9	3/20/1991	70a	0.7	0.7	<0.5	1	---	---	---	---	---	---	---	---	---	328.24	---	---	---	---
S-9	6/26/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	---	---	---	---
S-9	9/5/1991	<50	<0.5	0.8	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	---	---	---	---
S-9	12/13/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	18.18	310.06	---	---
S-9	3/11/1992	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	---	---	---	328.24	17.37	310.87	---	---
S-9	6/24/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	18.45	309.79	---	---
S-9	9/17/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	17.88	310.36	---	---
S-9	12/11/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	17.34	310.90	---	---
S-9	2/4/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	---	---	---	---
S-9	6/3/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	---	---	---	---
S-9	9/15/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	328.24	17.42	310.82	---	---
S-9	12/9/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	16.89	311.35	---	---

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-9	3/4/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	17.22	311.02	---	---
S-9	6/16/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	17.46	310.78	---	---
S-9	9/13/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	17.59	310.65	---	---
S-9	6/21/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	328.24	17.03	311.21	---	---
S-9	6/12/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	---	---	---	328.24	16.76	311.48	---	---
S-9	6/25/1997	<50	<0.50	<0.50	<0.50	<0.50	2.8	---	---	---	---	---	---	---	---	328.24	16.89	311.35	---	1
S-9	6/19/1998	<50	<0.50	<0.50	<0.50	<0.50	7.1	---	---	---	---	---	---	---	---	328.24	15.59	312.65	---	3.8
S-9	6/17/1999	<50.0	<0.500	<0.500	<0.500	<0.500	15.3	---	---	---	---	---	---	---	---	328.24	16.47	311.77	---	1.9
S-9	6/15/2000	<50.0	<0.500	<0.500	<0.500	<0.500	57.2	---	---	---	---	---	---	---	---	328.24	16.11	312.13	---	1.1
S-9	11/29/2000	<50.0	<0.500	<0.500	<0.500	<0.500	76.5	---	---	---	---	---	---	---	---	328.24	17.30	310.94	---	1.1
S-9	3/7/2001	<50.0	<0.500	<0.500	<0.500	<0.500	84.9	---	---	---	---	---	---	---	---	328.24	19.42	308.82	---	1.1
S-9	6/18/2001	<50	<0.50	<0.50	<0.50	<0.50	---	86	---	---	---	---	---	---	---	328.24	17.22	311.02	---	---
S-9	9/17/2001	<50	<0.50	<0.50	<0.50	<0.50	---	130	---	---	---	---	---	---	---	328.24	17.66	310.58	---	---
S-9	12/31/2001	<50	<0.50	<0.50	<0.50	<0.50	---	120	---	---	---	---	---	---	---	328.24	17.65	310.59	---	---
S-9	3/13/2002	<50	<0.50	<0.50	<0.50	<0.50	---	130	---	---	---	---	---	---	---	328.24	17.75	310.49	---	---
S-9	6/18/2002	<50	<0.50	<0.50	<0.50	<0.50	---	160	---	---	---	---	---	---	---	328.24	19.59	308.65	---	---
S-9	9/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	180	---	---	---	---	---	---	---	327.85	17.65	310.20	---	---
S-9	12/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	180	<2.0	<2.0	<2.0	<50	2.8	<2.0	---	327.85	18.45	309.40	---	---
S-9	3/24/2003	<250	<2.5	<2.5	<2.5	<5.0	---	230	---	---	---	---	---	---	---	327.85	17.97	309.88	---	---
S-9	5/9/2003	<250	<2.5	<2.5	<2.5	<5.0	---	240	---	---	---	<25	---	---	---	327.85	17.68	310.17	---	---
S-9	7/8/2003	<250	<2.5	<2.5	<2.5	<5.0	---	250	---	---	---	<25	---	---	---	327.85	17.65	310.20	---	---
S-9	10/15/2003	<100	<1.0	<1.0	<1.0	<2.0	---	210	---	---	---	<10	---	---	---	327.85	19.49	308.36	---	---
S-9	1/6/2004	<100	<1.0	<1.0	<1.0	<2.0	---	290	---	---	---	<10	---	---	---	327.85	20.51	307.34	---	---
S-9	4/7/2004	<100	<1.0	<1.0	<1.0	<2.0	---	250	---	---	---	<10	---	---	---	327.85	20.02	307.83	---	---
S-9	7/27/2004	<250	<2.5	9.1	2.7	9.8	---	270	<10	<10	<10	<25	---	---	<250	327.85	19.89	307.96	---	---
S-9	10/29/2004	<100	<1.0	<1.0	<1.0	<2.0	---	240	<4.0	<4.0	<4.0	<10	---	---	<100	327.85	19.17	308.68	---	---
S-9	1/6/2005	<250	<2.5	<2.5	<2.5	<5.0	---	340	<10	<10	<10	<25	---	---	---	327.85	19.65	308.20	---	---
S-9	4/14/2005	<50	<0.50	<0.50	<0.50	<0.50	---	250	<0.50	<0.50	1.4	<5.0	---	---	<5.0	327.85	17.38	310.47	---	---
S-9	7/29/2005	<100	<1.0	<1.0	<1.0	<2.0	---	250	<4.0	<4.0	<4.0	<10	---	---	<100	327.85	20.09	307.76	---	---
S-9	10/20/2005	<100	<1.0	<1.0	<1.0	<2.0	---	200	<4.0	<4.0	<4.0	<10	---	---	<100	327.85	21.89	305.96	---	---
S-9	11/11/2005	<100	<1.0	<1.0	<1.0	<2.0	---	220	---	---	---	25	---	---	---	327.85	20.41	307.44	---	---
S-9	1/26/2006	55.7	<0.500	<0.500	<0.500	<0.500	---	174	<0.500	<0.500	2.50	<10.0	---	---	<50.0	327.85	20.56	307.29	---	---
S-9	4/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	202	<0.500	<0.500	2.29	<10.0	---	---	<50.0	327.85	18.39	309.46	---	---
S-9	7/12/2006	<50.0	<0.500	<0.500	<0.500	<1.50	---	158.00	<0.500	<0.500	2.06	<10.0	---	---	<50.0	327.85	18.60	309.25	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-9	10/20/2006	212	<0.500	<0.500	<0.500	<0.500	---	151	<0.500	<0.500	1.25	<10.0	---	---	<50.0	327.85	18.75	309.10	---	---
S-9	1/22/2007	82 j	<0.50	<0.50	<0.50	<1.0	---	150	<1.0	<1.0	1.4	20 h	---	---	<150	327.85	17.92	309.93	---	---
S-9	4/13/2007	70 k,l	<0.50	<1.0	<1.0	<1.0	---	140	<2.0	<2.0	1.0 m	26	---	---	<100	327.85	18.14	309.71	---	---
S-9	7/9/2007	70 k,l	<0.50	<1.0	<1.0	<1.0	---	120	<2.0	<2.0	1.2 m	<10	---	---	<100	327.85	18.37	309.48	---	---
S-9	10/22/2007	59 k,l	<0.50	<1.0	<1.0	<1.0	---	110	<2.0	<2.0	<2.0	8.2 m	---	---	<100	327.85	18.08	309.77	---	---
S-9	1/9/2008	<50 k	<0.50	<1.0	<1.0	<1.0	---	73	<2.0	<2.0	<2.0	<10	---	---	130	327.85	17.20	310.65	---	---
S-9	4/11/2008	73	<0.50	<1.0	<1.0	<1.0	---	55	<2.0	<2.0	<2.0	<10	---	---	<100	327.85	17.74	310.11	---	---
S-9	7/29/2008	85	<0.50	<1.0	<1.0	<1.0	---	45	<2.0	<2.0	<2.0	<10	---	---	230	327.85	18.33	309.52	---	---
S-9	10/29/2008	58	<0.50	<1.0	<1.0	<1.0	---	40	<2.0	<2.0	<2.0	<10	---	---	<100	327.85	18.89	308.96	---	---
S-9	1/21/2009	51	<0.50	<1.0	<1.0	<1.0	---	35	<2.0	<2.0	<2.0	<10	---	---	<100	327.85	18.21	309.64	---	---
S-9	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	27	<2.0	<2.0	<2.0	<10	---	---	<100	327.85	17.48	310.37	---	---
S-9	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	28	<2.0	<2.0	<2.0	<10	---	---	<100	327.85	18.60	309.25	---	---
S-9	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	22	<2.0	<2.0	<2.0	<10	---	---	<100	327.85	19.18	308.67	---	---
S-9	7/6/2010	<50	<0.50	<1.0	<1.0	<1.0	---	16	---	---	---	<10	---	---	<100	327.85	17.81	310.04	---	---
S-9	**1/21/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**1.8**	**---**	**13**	**<1.0**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**<150**	**327.85**	**17.79**	**310.06**	**---**	**---**
S-9B	11/8/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	330.47	43.12	287.35	---	---
S-9B	11/11/2005	<50	<0.50	2.0	<0.50	<1.0	---	23	---	---	---	<5.0	---	---	---	330.47	45.25	285.22	---	---
S-9B	1/26/2006	<50.0	<0.500	1.68	<0.500	<0.500	---	20.6	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	330.47	38.19	292.28	---	---
S-9B	4/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	10.5	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	330.47	30.31	300.16	---	---
S-9B	7/12/2006	<50.0	<0.500	<0.500	<0.500	<1.50	---	4.98	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	330.47	29.01	301.46	---	---
S-9B	10/20/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	5.89	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	330.47	31.25	299.22	---	---
S-9B	1/22/2007	<50	<0.50	<0.50	<0.50	<1.0	---	4.9	<1.0	<1.0	<1.0	<10	---	---	<150	330.47	26.78	303.69	---	---
S-9B	4/13/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	3.5	<2.0	<2.0	<2.0	<10	---	---	<100	330.47	23.51	306.96	---	---
S-9B	7/9/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	3.0	<2.0	<2.0	<2.0	<10	---	---	<100	330.47	30.15	300.32	---	---
S-9B	10/22/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	5.8	<2.0	<2.0	<2.0	<10	---	---	<100	330.47	28.44	302.03	---	---
S-9B	1/9/2008	<50 k	<0.50	<1.0	<1.0	<1.0	---	2.9	<2.0	<2.0	<2.0	<10	---	---	190	330.47	24.22	306.25	---	---
S-9B	4/11/2008	<50	<0.50	<1.0	<1.0	<1.0	---	3.1	<2.0	<2.0	<2.0	<10	---	---	<100	330.47	24.20	306.27	---	---
S-9B	7/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	4.1	<2.0	<2.0	<2.0	<10	---	---	<100	330.47	31.69	298.78	---	---
S-9B	10/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	4.1	<2.0	<2.0	<2.0	<10	---	---	<100	330.47	35.86	294.61	---	---
S-9B	1/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	3.7	<2.0	<2.0	<2.0	<10	---	---	<100	330.47	31.31	299.16	---	---
S-9B	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	3.1	<2.0	<2.0	<2.0	<10	---	---	<100	330.47	28.10	302.37	---	---
S-9B	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	3.8	<2.0	<2.0	<2.0	<10	---	---	<100	330.47	33.76	296.71	---	---
S-9B	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	4.7	<2.0	<2.0	<2.0	<10	---	---	<100	330.47	36.93	293.54	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-9B	7/6/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	330.47	34.49	295.98	---	---
S-9B	**1/21/2011**	**<50**	**<0.50**	**0.73**	**0.58**	**3.2**	**---**	**2.9**	**<1.0**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**<150**	**330.47**	**35.85**	**294.62**	**---**	**---**
S-9C	11/8/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	330.77	40.80	289.97	---	---
S-9C	11/11/2005	<50	<0.50	<0.50	<0.50	<1.0	---	10	---	---	---	<5.0	---	---	---	330.77	42.87	287.90	---	---
S-9C	1/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	7.05	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	330.77	37.40	293.37	---	---
S-9C	4/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	4.86	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	330.77	28.04	302.73	---	---
S-9C	7/12/2006	<50.0	<0.500	<0.500	<0.500	<1.50	---	1.94	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	330.77	28.96	301.81	---	---
S-9C	10/20/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	1.06	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	330.77	30.47	300.30	---	---
S-9C	1/22/2007	<50	<0.50	<0.50	<0.50	<1.0	---	0.64 i	<1.0	<1.0	<1.0	<10	---	---	<150	330.77	26.52	304.25	---	---
S-9C	4/13/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	0.54 m	<2.0	<2.0	<2.0	<10	---	---	<100	330.77	23.70	307.07	---	---
S-9C	7/9/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	0.34 m	<2.0	<2.0	<2.0	<10	---	---	<100	330.77	30.28	300.49	---	---
S-9C	10/22/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	0.33 m	<2.0	<2.0	<2.0	<10	---	---	<100	330.77	17.03	313.74	---	---
S-9C	1/9/2008	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	150	330.77	24.20	306.57	---	---
S-9C	4/11/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	330.77	24.25	306.52	---	---
S-9C	7/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	330.77	31.55	299.22	---	---
S-9C	10/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	330.77	35.54	295.23	---	---
S-9C	1/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	330.77	31.11	299.66	---	---
S-9C	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	330.77	28.29	302.48	---	---
S-9C	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	330.77	33.62	297.15	---	---
S-9C	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	330.77	36.55	294.22	---	---
S-9C	7/6/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	330.77	34.34	296.43	---	---
S-9C	**1/21/2011**	**<50**	**<0.50**	**1.0**	**0.79**	**4.2**	**---**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**<150**	**330.77**	**35.59**	**295.18**	**---**	**---**
S-10	8/11/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-10	9/8/1989	<50	<0.5	<1	<1	<3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-10	12/15/1989	<50	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-10	3/6/1990	<50	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-10	6/14/1990	<50	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-10	10/2/1990	<50	<0.5	<0.5	<0.5	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-10	12/18/1990	<50	<0.5	<0.5	<0.5	1.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-10	3/20/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	326.55	---	---	---	---
S-10	6/26/1991	50	1.8	5.8	1.9	13	---	---	---	---	---	---	---	---	---	326.55	---	---	---	---
S-10	9/5/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	326.55	---	---	---	---

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-10	12/13/1991	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	326.55	14.77	311.78	---	---
S-10	3/11/1992	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	---	---	---	326.55	14.16	312.39	---	---
S-10	6/24/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	326.55	14.83	311.72	---	---
S-10	9/17/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	326.55	13.85	312.70	---	---
S-10	12/11/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	326.55	13.90	312.65	---	---
S-10	2/4/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	326.55	---	---	---	---
S-10	6/3/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	326.55	---	---	---	---
S-10	9/15/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	326.55	13.66	312.89	---	---
S-10	12/9/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	326.55	---	---	---	---
S-10	9/13/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	326.55	13.84	312.71	---	---
S-10	6/21/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	326.55	13.08	313.47	---	---
S-10	6/12/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	---	---	---	326.55	13.34	313.21	---	---
S-10	6/25/1997	<50	<0.50	<0.50	<0.50	<0.50	2.8	---	---	---	---	---	---	---	---	326.55	13.28	313.27	---	2.4
S-10	6/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	---	---	326.55	12.41	314.14	---	1.8
S-10	6/17/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	---	---	---	326.55	12.81	313.74	---	2.0
S-10	6/15/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	---	---	326.55	13.27	313.28	---	2.1
S-10	11/29/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	---	---	326.55	13.98	312.57	---	2.4
S-10	3/7/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	---	---	---	326.55	13.40	313.15	---	2.5
S-10	6/18/2001	<50	<0.50	<0.50	<0.50	<0.50	---	3.7	---	---	---	---	---	---	---	326.55	13.29	313.26	---	---
S-10	9/17/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	326.55	13.61	312.94	---	---
S-10	12/31/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	326.55	13.48	313.07	---	---
S-10	3/13/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	326.55	14.66	311.89	---	---
S-10	6/18/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	326.55	14.59	311.96	---	---
S-10	9/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	325.87	13.21	312.66	---	---
S-10	12/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	<2.0	<2.0	<2.0	<50	<2.0	<2.0	---	325.87	13.50	312.37	---	---
S-10	3/24/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<5.0	---	---	---	---	---	---	---	325.87	16.60	309.27	---	---
S-10	5/9/2003	<50	<0.50	<0.50	<0.50	<1.0	---	1.7	---	---	---	<5.0	---	---	---	325.87	13.07	312.80	---	---
S-10	7/8/2003	<50	<0.50	<0.50	<0.50	<1.0	---	1.7	---	---	---	<5.0	---	---	---	325.87	14.10	311.77	---	---
S-10	10/15/2003	<50	<0.50	<0.50	<0.50	<1.0	---	0.69	---	---	---	<5.0	---	---	---	325.87	14.75	311.12	---	---
S-10	1/6/2004	<50	<0.50	<0.50	<0.50	<1.0	---	0.51	---	---	---	<5.0	---	---	---	325.87	15.28	310.59	---	---
S-10	4/7/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	<5.0	---	---	---	325.87	15.39	310.48	---	---
S-10	7/27/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<2.0	<2.0	<2.0	<5.0	---	---	<50	325.87	15.25	310.62	---	---
S-10	10/29/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<2.0	<2.0	<2.0	<5.0	---	---	<50	325.87	15.23	310.64	---	---
S-10	1/6/2005	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<2.0	<2.0	<2.0	<5.0	---	---	---	325.87	15.47	310.40	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-10	4/14/2005	<50	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	<5.0	325.87	13.24	312.63	---	---
S-10	7/29/2005	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<2.0	<2.0	<2.0	<5.0	---	---	<50	325.87	15.08	310.79	---	---
S-10	10/20/2005	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<2.0	<2.0	<2.0	<5.0	---	---	<50	325.87	15.45	310.42	---	---
S-10	1/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	325.87	14.85	311.02	---	---
S-10	4/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	325.87	13.90	311.97	---	---
S-10	7/12/2006	<50.0	<0.500	<0.500	<0.500	<1.50	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	325.87	13.00	312.87	---	---
S-10	10/20/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	325.87	13.15	312.72	---	---
S-10	1/22/2007	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<1.0	<1.0	<1.0	<10	---	---	<150	325.87	14.45	311.42	---	---
S-10	4/13/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	325.87	15.49	310.38	---	---
S-10	7/9/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	325.87	14.00	311.87	---	---
S-10	10/22/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	325.87	14.11	311.76	---	---
S-10	1/9/2008	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	325.87	14.08	311.79	---	---
S-10	4/11/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	325.87	14.38	311.49	---	---
S-10	7/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	14	---	---	320	325.87	14.50	311.37	---	---
S-10	10/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	325.87	14.80	311.07	---	---
S-10	1/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	325.87	14.53	311.34	---	---
S-10	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	325.87	13.92	311.95	---	---
S-10	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	325.87	14.84	311.03	---	---
S-10	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	325.87	14.35	311.52	---	---
S-10	7/6/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	325.87	14.40	311.47	---	---
S-10	**1/21/2011**	**<50**	**<0.50**	**1.1**	**0.78**	**3.7**	**---**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**<150**	**325.87**	**13.90**	**311.97**	**---**	**---**
S-11	9/23/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	16.93	---	---	---
S-11	9/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	---	16.95	---	---	---
S-11	12/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	<2.0	<2.0	<2.0	<50	<2.0	<2.0	---	327.48	16.40	311.08	---	---
S-11	3/24/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<5.0	---	---	---	---	---	---	---	327.48	17.25	310.23	---	---
S-11	5/9/2003	<50	<0.50	<0.50	<0.50	<1.0	---	0.54	---	---	---	<5.0	---	---	---	327.48	16.37	311.11	---	---
S-11	7/8/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	<5.0	---	---	---	327.48	17.17	310.31	---	---
S-11	10/15/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	<5.0	---	---	---	327.48	18.01	309.47	---	---
S-11	1/6/2004	<50	<0.50	1.4	<0.50	<1.0	---	1.1	---	---	---	<5.0	---	---	---	327.48	18.25	309.23	---	---
S-11	4/7/2004	<50	<0.50	<0.50	<0.50	<1.0	---	1.4	---	---	---	<5.0	---	---	---	327.48	18.48	309.00	---	---
S-11	7/27/2004	<50	<0.50	<0.50	<0.50	<1.0	---	2.3	<2.0	<2.0	<2.0	<5.0	---	---	<50	327.48	18.49	308.99	---	---
S-11	10/29/2004	<50	<0.50	<0.50	<0.50	<1.0	---	9.7	<2.0	<2.0	<2.0	<5.0	---	---	<50	327.48	18.22	309.26	---	---
S-11	1/6/2005	<50	<0.50	<0.50	<0.50	<1.0	---	15	<2.0	<2.0	<2.0	<5.0	---	---	---	327.48	18.07	309.41	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-11	4/14/2005	<50	<0.50	<0.50	<0.50	<0.50	---	10	<0.50	<0.50	<0.50	<5.0	---	---	<5.0	327.48	16.28	311.20	---	---
S-11	7/29/2005	<50	<0.50	<0.50	<0.50	<1.0	---	19	<2.0	<2.0	<2.0	<5.0	---	---	<50	327.48	17.98	309.50	---	---
S-11	10/20/2005	<50	<0.50	<0.50	<0.50	<1.0	---	24	<2.0	<2.0	<2.0	<5.0	---	---	<50	327.48	18.45	309.03	---	---
S-11	1/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	27.7	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	327.48	18.50	308.98	---	---
S-11	4/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	41.0	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	327.48	16.61	310.87	---	---
S-11	7/12/2006	<50.0	<0.500	<0.500	<0.500	<1.50	---	33.3	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	327.48	16.44	311.04	---	---
S-11	10/20/2006	53.5	<0.500	<0.500	<0.500	<0.500	---	38.2	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	327.48	16.61	310.87	---	---
S-11	1/22/2007	<50	<0.50	<0.50	<0.50	<1.0	---	61	<1.0	<1.0	<1.0	6.1 h,i	---	---	<150	327.48	17.27	310.21	---	---
S-11	4/13/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	60	<2.0	<2.0	<2.0	<10	---	---	<100	327.48	6.88	320.60	---	---
S-11	7/9/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	59	<2.0	<2.0	<2.0	<10	---	---	<100	327.48	16.84	310.64	---	---
S-11	10/22/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	60	<2.0	<2.0	<2.0	6.2 m	---	---	<100	327.48	17.11	310.37	---	---
S-11	1/9/2008	<50 k	<0.50	<1.0	<1.0	<1.0	---	52	<2.0	<2.0	<2.0	<10	---	---	<100	327.48	16.85	310.63	---	---
S-11	4/11/2008	<50	<0.50	<1.0	<1.0	<1.0	---	36	<2.0	<2.0	<2.0	<10	---	---	<100	327.48	16.78	310.70	---	---
S-11	7/29/2008	58	<0.50	<1.0	<1.0	<1.0	---	31	<2.0	<2.0	<2.0	<10	---	---	<100	327.48	17.31	310.17	---	---
S-11	10/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	22	<2.0	<2.0	<2.0	<10	---	---	<100	327.48	17.85	309.63	---	---
S-11	1/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	20	<2.0	<2.0	<2.0	<10	---	---	<100	327.48	17.66	309.82	---	---
S-11	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	20	<2.0	<2.0	<2.0	<10	---	---	<100	327.48	16.93	310.55	---	---
S-11	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	17	<2.0	<2.0	<2.0	<10	---	---	<100	327.48	17.74	309.74	---	---
S-11	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	13	<2.0	<2.0	<2.0	<10	---	---	<100	327.48	17.61	309.87	---	---
S-11	7/6/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	327.48	17.17	310.31	---	---
S-11	**1/21/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**11**	**<1.0**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**<150**	**327.48**	**17.21**	**310.27**	**---**	**---**
S-12	9/23/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	14.74	---	---	---
S-12	9/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	---	17.95	---	---	---
S-12	12/27/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	<2.0	<2.0	<2.0	<50	<2.0	<2.0	---	322.76	16.92	305.84	---	---
S-12	3/24/2003	<50	<0.50	<0.50	<0.50	<1.0	---	<5.0	---	---	---	---	---	---	---	322.76	16.53	306.23	---	---
S-12	5/9/2003	<50	<0.50	<0.50	<0.50	<1.0	---	1.5	---	---	---	<5.0	---	---	---	322.76	17.73	305.03	---	---
S-12	7/8/2003	<50	<0.50	<0.50	<0.50	<1.0	---	1.2	---	---	---	<5.0	---	---	---	322.76	17.18	305.58	---	---
S-12	10/15/2003	<50	<0.50	<0.50	<0.50	<1.0	---	1.1	---	---	---	<5.0	---	---	---	322.76	17.54	305.22	---	---
S-12	1/6/2004	<50	<0.50	1.1	<0.50	<1.0	---	1.1	---	---	---	<5.0	---	---	---	322.76	17.45	305.31	---	---
S-12	4/7/2004	<50	<0.50	<0.50	<0.50	<1.0	---	0.76	---	---	---	<5.0	---	---	---	322.76	16.85	305.91	---	---
S-12	7/27/2004	<50	<0.50	<0.50	<0.50	<1.0	---	0.65	<2.0	<2.0	<2.0	<5.0	---	---	<50	322.76	17.89	304.87	---	---
S-12	10/29/2004	<50 f	<0.50	<0.50	<0.50	<1.0	---	1.3	<2.0	<2.0	<2.0	<5.0	---	---	<50	322.76	17.84	304.92	---	---
S-12	1/6/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	322.76	---	---	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-12	4/14/2005	<50	<0.50	<0.50	<0.50	<0.50	---	0.79	<0.50	<0.50	<0.50	<5.0	---	---	<5.0	322.76	15.98	306.78	---	---
S-12	7/29/2005	<50	<0.50	<0.50	<0.50	<1.0	---	0.69	<2.0	<2.0	<2.0	<5.0	---	---	<50	322.76	17.32	305.44	---	---
S-12	10/20/2005	<50	<0.50	<0.50	<0.50	<1.0	---	0.66	<2.0	<2.0	<2.0	<5.0	---	---	<50	322.76	16.58	306.18	---	---
S-12	1/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	322.76	15.94	306.82	---	---
S-12	4/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	0.740	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	322.76	17.31	305.45	---	---
S-12	7/12/2006	<50.0	<0.500	<0.500	<0.500	<1.50	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	322.76	16.70	306.06	---	---
S-12	10/20/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	0.520	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	322.76	17.63	305.13	---	---
S-12	1/22/2007	<50	<0.50	<0.50	<0.50	<1.0	---	0.70 i	<1.0	<1.0	<1.0	<10	---	---	<150	322.76	17.05	305.71	---	---
S-12	4/13/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	0.70 m	<2.0	<2.0	<2.0	<10	---	---	<100	322.76	17.12	305.64	---	---
S-12	7/9/2007	51 k,l	<0.50	<1.0	<1.0	<1.0	---	0.59 m	<2.0	<2.0	<2.0	<10	---	---	<100	322.76	16.85	305.91	---	---
S-12	10/22/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	0.92	<2.0	<2.0	<2.0	<10	---	---	<100	322.76	16.40	306.36	---	---
S-12	1/9/2008	<50 k	<0.50	<1.0	<1.0	<1.0	---	0.67 m	<2.0	<2.0	<2.0	<10	---	---	<100	322.76	16.50	306.26	---	---
S-12	4/11/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	322.76	16.30	306.46	---	---
S-12	7/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	140	322.76	17.00	305.76	---	---
S-12	10/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	322.76	17.61	305.15	---	---
S-12	1/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	322.76	17.59	305.17	---	---
S-12	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	322.76	16.74	306.02	---	---
S-12	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	322.76	17.25	305.51	---	---
S-12	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	322.76	16.88	305.88	---	---
S-12	7/6/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	322.76	17.65	305.11	---	---
S-12	**1/21/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**<150**	**322.76**	**17.08**	**305.68**	**---**	**---**
S-14	11/8/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	324.90	17.45	307.45	---	---
S-14	11/11/2005	<50 f	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	<5.0	---	---	---	324.90	17.63	307.27	---	---
S-14	4/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	324.90	15.56	309.34	---	---
S-14	7/12/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	324.90	16.77	308.13	---	---
S-14	10/20/2006	<50.0	0.560	1.08	<0.500	0.630	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	324.90	17.26	307.64	---	---
S-14	1/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	324.90	17.54	307.36	---	---
S-14	4/13/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	324.90	17.10	307.80	---	---
S-14	10/22/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	324.90	17.56	307.34	---	---
S-14	1/9/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	324.90	---	---	---	---
S-14	4/11/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	324.90	17.23	307.67	---	---
S-14	7/29/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	324.90	18.30	306.60	---	---
S-14	10/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	324.90	18.62	306.28	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-14	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	324.90	17.40	307.50	---	---
S-14	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	324.90	18.46	306.44	---	---
S-14	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	324.90	18.45	306.45	---	---
S-14	7/6/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	324.90	18.62	306.28	---	---
S-14	**1/21/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**1.6**	**---**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**<150**	**324.90**	**17.80**	**307.10**	**---**	**---**
S-15	4/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	---	24.00	---	---	---
S-15	7/12/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	23.85	---	---	---
S-15	10/20/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	---	23.87	---	---	---
S-15	1/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	26.03	---	---	---
S-15	4/13/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	---	24.29	---	---	---
S-15	10/22/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	---	24.34	---	---	---
S-15	1/9/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-15	4/11/2008	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<2.0	<2.0	<2.0	<10	---	---	<100	---	23.90	---	---	---
S-15	7/29/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	23.91	---	---	---
S-15	10/29/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	24.02	---	---	---
S-15	4/16/2009	Insufficient water			---	---	---	---	---	---	---	---	---	---	---	---	24.42	---	---	---
S-15	7/9/2009	Insufficient water			---	---	---	---	---	---	---	---	---	---	---	---	23.98	---	---	---
S-15	1/11/2010	Insufficient water			---	---	---	---	---	---	---	---	---	---	---	---	23.91	---	---	---
S-15	7/6/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	23.90	---	---	---
S-15	**1/21/2011**	**Insufficient water**			**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**23.00**	**---**	**---**	**---**
SR-1	10/11/1989	200	100	<1	<10	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-1	12/14/1989	500	210	<0.5	16	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-1	3/5/1990	64	20	<0.5	1.5	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-1	6/14/1990	60	17	<0.5	1.9	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-1	10/2/1990	<50	5.0	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-1	12/18/1990	<50	28	5.5	4.5	4.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-1	3/4/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	329.78	16.34	313.44	---	---
SR-1	6/16/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	329.78	16.72	313.06	---	---
SR-1	12/31/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	329.78	15.31	314.47	---	---
SR-1	03/11/2002 d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	329.13	---	---	---	---
SR-1	09/22/2003 d	---	---	---	---	---	---	---	---	---	---	---	---	---	---	328.33	---	---	---	---
SR-1	4/7/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	328.33	30.79	297.54	---	---

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
SR-1	7/27/2004	<500	<5.0	<5.0	<5.0	11	---	44	<20	<20	<20	3,000	---	---	<500	328.33	30.72	297.61	---	---
SR-1	8/4/2004	62	<0.50	<0.50	2.6	13	---	---	---	---	---	---	---	---	---	328.33	30.77	297.56	---	---
SR-1	10/29/2004	<500	<5.0	<5.0	<5.0	<10	---	11	<20	<20	<20	1,400	---	---	<500	328.33	30.85	297.48	---	---
SR-1	1/6/2005	<250	<2.5	<2.5	6.8	31	---	20	<10	<10	<10	2,800	---	---	---	328.33	30.92	297.41	---	---
SR-1	4/14/2005	170	12	<0.90	11	1.5	---	190	<0.90	<0.90	<0.90	2,200	---	---	<9.0	328.33	30.73	297.60	---	---
SR-1	7/29/2005	<100	<1.0	<1.0	<1.0	3.7	---	7.6	<4.0	<4.0	<4.0	1,500	---	---	<100	328.33	24.53	303.80	---	---
SR-1	10/20/2005	190	<1.0	<1.0	5.4	35	---	4.3	<4.0	<4.0	<4.0	1,200	---	---	<100	328.33	31.00	297.33	---	---
SR-1	1/26/2006	<50.0	4.65	<0.500	1.79	18.8	---	4.25	<0.500	<0.500	<0.500	556	---	---	<50.0	328.33	30.89	297.44	---	---
SR-1	4/24/2006	<50.0	2.76	<0.500	1.36	<0.500	---	42.8	<0.500	<0.500	<0.500	180	---	---	<50.0	328.33	14.94	313.39	---	---
SR-1	7/12/2006	<50.0	0.950	<0.500	<0.500	<1.50	---	3.24	<0.500	<0.500	<0.500	171	---	---	<50.0	328.33	14.71	313.62	---	---
SR-1	10/20/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	<0.500	<0.500	<0.500	<10.0	---	---	<50.0	328.33	15.84	312.49	---	---
SR-1	1/22/2007	<50	0.48 i	<0.50	0.60	<1.0	---	0.70 i	<1.0	<1.0	<1.0	46	---	---	<150	328.33	15.25	313.08	---	---
SR-1	4/13/2007	61 k	0.43 m	<1.0	0.26 m	<1.0	---	9.4	<2.0	<2.0	<2.0	62	---	---	<100	328.33	14.78	313.55	---	---
SR-1	7/9/2007	<50 k	0.44 m	<1.0	0.69 m	<1.0	---	3.5	<2.0	<2.0	<2.0	19	---	---	<100	328.33	14.44	313.89	---	---
SR-1	10/22/2007	<50 k	<0.50	<1.0	0.56 m	<1.0	---	9.6	<2.0	<2.0	<2.0	31	---	---	<100	328.33	15.31	313.02	---	---
SR-1	1/9/2008	53 k	<0.50	<1.0	3.5	2.6	---	5.6	<2.0	<2.0	<2.0	12	---	---	<100	328.33	14.39	313.94	---	---
SR-1	4/11/2008	<50	<0.50	<1.0	<1.0	<1.0	---	4.7	<2.0	<2.0	<2.0	16	---	---	<100	328.33	15.00	313.33	---	---
SR-1	7/29/2008	100	<0.50	<1.0	1.7	<1.0	---	4.4	<2.0	<2.0	<2.0	23	---	---	<100	328.33	15.70	312.63	---	---
SR-1	10/29/2008	54	<0.50	<1.0	<1.0	<1.0	---	8.3	<2.0	<2.0	<2.0	61	---	---	<100	328.33	16.05	312.28	---	---
SR-1	1/21/2009	68	<0.50	<1.0	<1.0	<1.0	---	26	<2.0	<2.0	<2.0	310	---	---	<100	328.33	15.02	313.31	---	---
SR-1	4/16/2009	62	<0.50	<1.0	<1.0	<1.0	---	8.0	<2.0	<2.0	<2.0	38	---	---	<100	328.33	14.69	313.64	---	---
SR-1	7/9/2009	87	<0.50	<1.0	<1.0	<1.0	---	26	<2.0	<2.0	<2.0	150	---	---	<100	328.33	15.91	312.42	---	---
SR-1	1/11/2010	<50	<0.50	<1.0	<1.0	<1.0	---	12	<2.0	<2.0	<2.0	230	---	---	<100	328.33	15.25	313.08	---	---
SR-1	7/6/2010	<50	<0.50	<1.0	<1.0	<1.0	---	15	---	---	---	300	---	---	<100	328.33	15.28	313.05	---	---
SR-1	**1/21/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**3.2**	**<1.0**	**<1.0**	**<1.0**	**85**	**---**	**---**	**<150**	**328.33**	**15.02**	**313.31**	**---**	**---**
SR-2	10/11/1989	880	<10	1.0	29	33	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-2	12/14/1989	1100	17	<0.5	100	67	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-2	3/5/1990	140	3.0	<0.5	12	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-2	6/14/1990	<50	<0.5	<0.5	2.6	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-2	10/2/1990	<50	<0.5	<0.5	0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-2	12/18/1990	<50	1.6	1.4	1.6	2.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-2	3/4/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	328.35	14.39	313.96	---	---
SR-2	6/16/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	328.35	14.48	313.87	---	---

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
SR-2	12/31/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	328.35	13.62	314.73	---	---
SR-2	9/27/2002	<1,000	<10	<10	<10	<10	---	5,000	---	---	---	---	---	---	---	327.91	14.20	313.71	---	---
SR-2	12/27/2002	<1,000	<10	<10	<10	<10	---	4,800	<10	<10	<10	1,600	<10	<10	---	327.91	13.33	314.58	<10	---
SR-2	3/24/2003	<5,000	<50	<50	<50	<100	---	10,000	---	---	---	---	---	---	---	327.91	13.75	314.16	---	---
SR-2	5/9/2003	<5,000	<50	<50	80	290	---	13,000	---	---	---	6,100	---	---	---	327.91	13.40	314.51	---	---
SR-2	7/8/2003	<5,000	<50	<50	<50	<100	---	12,000	---	---	---	4,800	---	---	---	327.31	30.48	296.83	---	---
SR-2	10/15/2003	<500	<5.0	<5.0	<5.0	20	---	1,200	---	---	---	9,800	---	---	---	327.31	15.38	311.93	---	---
SR-2	1/6/2004	<1,300	<13	<13	<13	<25	---	500	---	---	---	17,000	---	---	---	327.31	31.47	295.84	---	---
SR-2	4/7/2004	<1,300	<13	<13	<13	<25	---	280	---	---	---	10,000	---	---	---	327.31	31.54	295.77	---	---
SR-2	7/27/2004	<1,300	<13	<13	<13	<25	---	63	<50	<50	<50	9,500	---	---	<1,300	327.31	31.35	295.96	---	---
SR-2	10/29/2004	<1,300	<13	<13	<13	<25	---	47	<50	<50	<50	7,600	---	---	<1,300	327.31	30.50	296.81	---	---
SR-2	1/6/2005	<1,300	<13	<13	<13	<25	---	23	<50	<50	<50	6,000	---	---	---	327.31	31.38	295.93	---	---
SR-2	4/14/2005	<150	<1.5	<1.5	<1.5	1.7	---	27	<1.5	<1.5	<1.5	6,300	---	---	<15	327.31	31.28	296.03	---	---
SR-2	7/29/2005	<500	<5.0	<5.0	<5.0	<10	---	14	<20	<20	<20	5,400	---	---	<500	327.31	22.71	304.60	---	---
SR-2	10/20/2005	<500	<5.0	<5.0	<5.0	<10	---	<5.0	<20	<20	<20	3,600	---	---	<500	327.31	31.31	296.00	---	---
SR-2	1/26/2006	<50.0	<0.500	<0.500	1.56	7.72	---	6.37	<0.500	<0.500	<0.500	1,620	---	---	<50.0	327.31	31.60	295.71	---	---
SR-2	4/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	13.1	<0.500	<0.500	<0.500	544	---	---	<50.0	327.31	12.86	314.45	---	---
SR-2	7/12/2006	<50.0	0.950	<0.500	<0.500	<1.50	---	3.00	<0.500	<0.500	<0.500	941	---	---	<50.0	327.31	12.65	314.66	---	---
SR-2	10/20/2006	96.0	<0.500	<0.500	<0.500	<0.500	---	9.56	<0.500	<0.500	<0.500	881	---	---	<50.0	327.31	14.10	313.21	---	---
SR-2	1/22/2007	<50	<0.50	<0.50	<0.50	<1.0	---	2.8	<1.0	<1.0	<1.0	1,100	---	---	<150	327.31	13.47	313.84	---	---
SR-2	4/13/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	6.9	<2.0	<2.0	<2.0	520	---	---	<100	327.31	12.89	314.42	---	---
SR-2	7/9/2007	58 k,l	0.14 m	<1.0	<1.0	<1.0	---	21	<2.0	<2.0	<2.0	720	---	---	<100	327.31	12.03	315.28	---	---
SR-2	10/22/2007	<50 k	<0.50	<1.0	<1.0	<1.0	---	2.0	<2.0	<2.0	<2.0	69	---	---	<100	327.31	13.51	313.80	---	---
SR-2	1/9/2008	<50 k	0.17 M	<1.0	<1.0	<1.0	---	8.7	<2.0	<2.0	<2.0	100	---	---	<100	327.31	13.63	313.68	---	---
SR-2	4/11/2008	<50	<0.50	<1.0	<1.0	<1.0	---	8.3	<2.0	<2.0	<2.0	280	---	---	<100	327.31	13.21	314.10	---	---
SR-2	7/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	1.2	<2.0	<2.0	<2.0	22	---	---	<100	327.31	14.81	312.50	---	---
SR-2	10/29/2008	<50	<0.50	<1.0	<1.0	<1.0	---	1.6	<2.0	<2.0	<2.0	21	---	---	<100	327.31	15.10	312.21	---	---
SR-2	1/21/2009	<50	<0.50	<1.0	<1.0	<1.0	---	1.6	<2.0	<2.0	<2.0	70	---	---	<100	327.31	12.79	314.52	---	---
SR-2	4/16/2009	<50	<0.50	<1.0	<1.0	<1.0	---	2.3	<2.0	<2.0	<2.0	73	---	---	<100	327.31	12.64	314.67	---	---
SR-2	7/9/2009	<50	<0.50	<1.0	<1.0	<1.0	---	4.0	<2.0	<2.0	<2.0	63	---	---	<100	327.31	14.07	313.24	---	---
SR-2	1/11/2010	83	<0.50	<1.0	<1.0	<1.0	---	4.8	<2.0	<2.0	<2.0	220	---	---	<100	327.31	13.04	314.27	---	---
SR-2	7/6/2010	2100	28	<2.0	21	<2.0	---	38	---	---	---	820	---	---	<200	327.31	14.43	312.88	---	---
SR-2	7/6/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	327.31	13.19	314.12	---	---
SR-2	**1/21/2011**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**1.3**	**<1.0**	**<1.0**	**<1.0**	**53**	**---**	**---**	**<150**	**327.31**	**13.04**	**314.27**	**---**	**---**

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
SR-3	12/11/1989	500	92	10	43	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-3	12/14/1989	2,400	310	27	170	340	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-3	3/5/1990	70	15	0.8	5.8	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-3	6/14/1990	470	59	2.3	35	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-3	10/2/1990	1,700	91	6.2	7.0	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-3	12/18/1990	140	10	0.8	7.5	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SR-3	3/4/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	329.11	14.66	314.45	---	---
SR-3	6/16/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	329.11	14.96	314.15	---	---
SR-3	12/31/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	329.11	13.60	315.51	---	---
SR-3	9/27/2002	<2,500	<25	<25	<25	<25	---	11,000	---	---	---	---	---	---	---	328.65	14.75	313.90	---	---
SR-3	12/27/2002	<2,000	<20	<20	<20	<20	---	5,100	<20	<20	<20	4,600	<20	<20	---	328.65	13.65	315.00	---	---
SR-3	3/24/2003	<2,500	<25	<25	<25	<50	---	3,700	---	---	---	---	---	---	---	328.65	13.52	315.13	---	---
SR-3	5/9/2003	<1,000	15	<10	19	48	---	3,700	---	---	---	8,400	---	---	---	328.65	12.15	316.50	---	---
SR-3	7/8/2003	<1,000	<10	<10	<10	<20	---	2,800	---	---	---	8,300	---	---	---	327.50	30.00	297.50	---	---
SR-3	10/15/2003	310	3.2	<2.5	9.1	30	---	240	---	---	---	3,600	---	---	---	327.50	15.39	312.11	---	---
SR-3	1/6/2004	<500	<5.0	<5.0	<5.0	<10	---	26	---	---	---	3,300	---	---	---	327.50	30.29	297.21	---	---
SR-3	4/7/2004	<50	<0.50	<0.50	<0.50	<1.0	---	4.4	---	---	---	370	---	---	---	327.50	15.49	312.01	---	---
SR-3	7/27/2004	<50	<0.50	<0.50	<0.50	<1.0	---	9.0	<2.0	<2.0	<2.0	390	---	---	<50	327.50	15.34	312.16	---	---
SR-3	10/29/2004	<100	<1.0	<1.0	<1.0	<2.0	---	15	<4.0	<4.0	<4.0	780	---	---	<100	327.50	15.22	312.28	---	---
SR-3	1/6/2005	<50	<0.50	<0.50	<0.50	<1.0	---	6.3	<2.0	<2.0	<2.0	250	---	---	---	327.50	15.08	312.42	---	---
SR-3	4/14/2005	58	0.76	<0.50	1.5	<0.50	---	46	<0.50	<0.50	<0.50	2,200	---	---	<5.0	327.50	30.53	296.97	---	---
SR-3	7/29/2005	<50	<0.50	<0.50	<0.50	<1.0	---	6.7	<2.0	<2.0	<2.0	490	---	---	<50	327.50	21.81	305.69	---	---
SR-3	10/20/2005	<50	<0.50	<0.50	<0.50	<1.0	---	3.3	<2.0	<2.0	<2.0	76	---	---	<50	327.50	29.19	298.31	---	---
SR-3	1/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	3.34	<0.500	<0.500	<0.500	84.9	---	---	<50.0	327.50	31.00	296.50	---	---
SR-3	4/24/2006	<50.0	1.67	<0.500	0.640	<0.500	---	36.4	<0.500	<0.500	<0.500	315	---	---	<50.0	327.50	12.42	315.08	---	---
SR-3	7/12/2006	<50.0	0.950	<0.500	<0.500	<1.50	---	9.73	<0.500	<0.500	<0.500	724	---	---	<50.0	327.50	12.75	314.75	---	---
SR-3	10/20/2006	73.3	<0.500	<0.500	<0.500	<0.500	---	5.64	<0.500	<0.500	<0.500	847	---	---	<50.0	327.50	13.93	313.57	---	---
SR-3	1/22/2007	56	<2.0	<2.0	<2.0	<4.0	---	5.6	<4.0	<4.0	<4.0	1,300	---	---	<600	327.50	13.31	314.19	---	---
SR-3	4/13/2007	66 k,l	<5.0	<10	<10	<10	---	16	<20	<20	<20	2,400	---	---	<1,000	327.50	13.61	313.89	---	---
SR-3	7/9/2007	150 k,l	0.97	<1.0	0.33 m	<1.0	---	19	<2.0	<2.0	<2.0	1,300	---	---	<100	327.50	11.87	315.63	---	---
SR-3	10/22/2007	51 k	<0.50	<1.0	<1.0	<1.0	---	8.3	<2.0	<2.0	<2.0	950	---	---	<100	327.50	13.40	314.10	---	---
SR-3	1/9/2008	<50 k	<0.50	<1.0	<1.0	<1.0	---	5.2	<2.0	<2.0	<2.0	610	---	---	<100	327.50	13.61	313.89	---	---
SR-3	4/11/2008	66	<0.50	<1.0	<1.0	<1.0	---	9.3	<2.0	<2.0	<2.0	830	---	---	<100	327.50	14.11	313.39	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
SR-3	7/29/2008	60	<0.50	<1.0	<1.0	<1.0	---	7.1	<2.0	<2.0	<2.0	570	---	---	<100	327.50	14.85	312.65	---	---
SR-3	10/29/2008	52	<0.50	<1.0	<1.0	<1.0	---	4.6	<2.0	<2.0	<2.0	390	---	---	<100	327.50	14.94	312.56	---	---
SR-3	1/21/2009	320	4.0	<1.0	1.8	<1.0	---	11	<2.0	<2.0	<2.0	760	---	---	<100	327.50	12.47	315.03	---	---
SR-3	4/16/2009	80	0.59	<1.0	<1.0	<1.0	---	5.8	<2.0	<2.0	<2.0	320	---	---	<100	327.50	12.49	315.01	---	---
SR-3	7/9/2009	54	<0.50	<1.0	<1.0	<1.0	---	4.5	<2.0	<2.0	<2.0	250	---	---	<100	327.50	13.87	313.63	---	---
SR-3	1/11/2010	190	1.7	<1.0	<1.0	<1.0	---	7.2	<2.0	<2.0	<2.0	390	---	---	<100	327.50	12.73	314.77	---	---
SR-3	7/6/2010	100	<0.50	<1.0	<1.0	<1.0	---	2.3	---	---	---	110	---	---	<100	327.50	13.14	314.36	---	---
SR-3	**1/21/2011**	**63**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**1.8**	**<1.0**	**<1.0**	**<1.0**	**85**	**---**	**---**	**<150**	**327.50**	**12.74**	**314.76**	**---**	**---**
T-1	6/18/2002	<5,000	<50	<50	<50	<50	---	20,000	---	---	---	---	---	---	---	---	12.31	---	---	---
T-2	9/17/2001	<5,000	<25	<25	<25	<25	---	29,000	---	---	---	---	---	---	---	---	11.48	---	---	---
T-2	12/31/2001	<5,000	<50	<50	<50	<50	---	31,000	---	---	---	---	---	---	---	---	4.96	---	---	---
T-2	3/13/2002	<5,000	<50	<50	<50	<50	---	48,000	---	---	---	---	---	---	---	---	9.76	---	---	---
T-2	6/18/2002	<20,000	<200	<200	<200	<200	---	100,000	---	---	---	---	---	---	---	---	12.58	---	---	---
T-2	9/27/2002	240	0.55	2.8	1.8	2.6	---	39	---	---	---	---	---	---	---	---	8.15	---	---	---
T-2	12/27/2002	2,100	7.8	17	<0.50	11	---	790	<2.0	<2.0	2.7	1,200	<2.0	<2.0	---	---	6.75	---	---	---
T-2	3/24/2003	550	<2.5	<2.5	<2.5	<5.0	---	310	---	---	---	---	---	---	---	---	11.68	---	---	---
T-2	5/9/2003	220	0.66	0.55	<0.50	1.8	---	100	---	---	---	92	---	---	---	---	6.40	---	---	---
T-2	7/8/2003	<500	13	7.4	<5.0	22	---	990	---	---	---	120	---	---	---	---	8.16	---	---	---
T-2	10/15/2003	220 e	<0.50	<0.50	<0.50	<1.0	---	13	---	---	---	23	---	---	---	---	11.15	---	---	---
T-2	1/6/2004	710	<0.50	<0.50	<0.50	1.2	---	14	---	---	---	9.2	---	---	---	---	9.10	---	---	---
T-2	4/7/2004	570 e	5.4	<0.50	<0.50	1.2	---	5.6	---	---	---	11	---	---	---	---	10.54	---	---	---
T-2	7/27/2004	270	17	1.2	<0.50	2.0	---	2.9	<2.0	<2.0	<2.0	7.9	---	---	<50	---	9.89	---	---	---
T-2	10/29/2004	180	<0.50	<0.50	<0.50	<1.0	---	4.2	<2.0	<2.0	<2.0	23	---	---	<50	---	9.42	---	---	---
T-2	1/6/2005	1,100	0.83	<0.50	<0.50	3.5	---	3.0	<2.0	<2.0	<2.0	12	---		---	---	7.98	---	---	---
T-3	6/18/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Dry	---	---	---
T-4	6/18/2002	<10,000	<100	<100	<100	<200	---	97,000	---	---	---	---	---	---	---	---	13.50	---	---	---
T-4	12/27/2002	550	5.3	16	0.60	39	---	140	<2.0	<2.0	<2.0	120	<2.0	<2.0	---	---	7.65	---	---	---
T-4	3/24/2003	1,400	<0.50	1.0	1.2	3.6	---	15	---	---	---	---	---	---	---	---	12.88	---	---	---
T-4	5/9/2003	<50	<0.50	<0.50	<0.50	1.6	---	14	---	---	---	5.2	---	---	---	---	7.59	---	---	---
T-4	7/8/2003	730	26	8.9	10	19	---	1,000	---	---	---	150	---	---	---	---	9.33	---	---	---
T-4	10/15/2003	1,200	15	6.1	2.8	11	---	310	---	---	---	980	---	---	---	---	11.80	---	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
T-4	1/6/2004	68	1.1	<0.50	<0.50	<1.0	---	12	---	---	---	<5.0	---	---	---	---	9.78	---	---	---
T-4	4/7/2004	1,600	5.1	0.57	<0.50	2.3	---	6.1	---	---	---	<5.0	---	---	---	---	11.15	---	---	---
T-4	7/27/2004	590	5.3	0.83	0.52	2.2	---	4.8	<2.0	<2.0	<2.0	7.5	---	---	<50	---	10.93	---	---	---
T-4	10/29/2004	83	<0.50	<0.50	<0.50	<1.0	---	1.2	<2.0	<2.0	<2.0	<5.0	---	---	<50	---	10.06	---	---	---
T-4	1/6/2005	430 g	<0.50	<0.50	<0.50	<1.0	---	9.6	<2.0	<2.0	<2.0	<5.0	---	---	---	---	8.69	---	---	---
C-1	5/9/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	28.50	302.83	---	---
C-1	7/8/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	28.50	302.83	---	---
C-1	10/15/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	28.52	302.81	---	---
C-1	1/6/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	28.21	303.12	---	---
C-1	4/7/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	28.54	302.79	---	---
C-1	7/27/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	28.58	302.75	---	---
C-1	10/29/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	28.58	302.75	---	---
C-1	1/6/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	28.55	302.78	---	---
C-1	4/14/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	28.55	302.78	---	---
C-1	7/29/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	28.54	302.79	---	---
C-1	10/20/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	31.11	300.22	---	---
C-1	1/26/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	31.15	300.18	---	---
C-1	4/24/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	32.07	299.26	---	---
C-1	7/12/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	29.30	302.03	---	---
C-1	10/20/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	31.64	299.69	---	---
C-1	1/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	30.03	301.30	---	---
C-1	4/13/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	30.21	301.12	---	---
C-1	7/9/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	33.38	297.95	---	---
C-1	10/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	33.18	298.15	---	---
C-1	1/9/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	28.21	303.12	---	---
C-1	4/11/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	33.52	297.81	---	---
C-1	7/29/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	30.91	300.42	---	---
C-1	10/29/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	31.02	300.31	---	---
C-1	1/21/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	30.54	300.79	---	---
C-1	4/16/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	30.61	300.72	---	---
C-1	7/9/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	30.74	300.59	---	---
C-1	1/11/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	30.83	300.50	---	---
C-1	7/6/2010	920	230	<5	150	150	---	---	---	---	---	---	---	---	---	331.33	30.92	300.41	---	---

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
C-1	1/21/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	331.33	34.46	296.87	---	---

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 18, 2001, analyzed by EPA Method 8015.
BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 18, 2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260
EDB = 1,2-dibromoethane analyzed by EPA Method 8260
TOB = Top of Well box Elevation
TOC = Top of Casing Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
DO = Dissolved Oxygen
ppm = Parts per million
ug/L = Parts per billion
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
--- = Not applicable
(D) = Duplicate sample

Notes:
a = Compounds detected within the chromatographic range of gasoline but not characteristic of the standard gasoline pattern.
b = This sample was analyzed outside of the EPA recommended holding time.
c = Samples for wells S-6 and S-7 may have been switched.
d = Survey date only.
e = Hydrocarbon does not match pattern of laboratory's standard.
f = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.
g = Quantity of unknown hydrocarbon(s) in sample based on gasoline.
h = Due to the low levels of analyte found in the sample, the analyte was qualitatively identified based on the compound's retention time and the presence of a single mass ion.

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)

i = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
j = Hydrocarbon result partly due to individual peak(s) in quantitation range.
k = Analyzed by EPA Method 8015B (M).
l = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
m = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
Ethanol analyzed by EPA Method 8260.
Corrected groundwater elevation when SPH is present = Top of Casing Elevation - Depth to Water + (0.8 x Hydrocarbon Thickness).
Well T-2 is a backfill well.
Beginning September 23, 2002 depth to water referenced to Top of Casing.
All wells except S-11, S-12, and T-1 through T-4 surveyed March 11, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.
Survey data for wells S-11 and S-12 provided by Cambria Environmental Technology, Inc.
C-1 surveyed March 18, 2003 by Virgil Chavez Land Surveying of Vallejo, CA.
Wells SR-1, SR-2, and SR-3 surveyed September 22, 2003 by Virgil Chavez Land Surveying of Vallejo, CA.
4Q05 survey data for wells S-5B, S-5C, S-9B, S-9C, and S-14 provided by Delta Environmental Consultants, Inc.

TABLE 4

HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	Date	Depth (fbg)	O&G	TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	Other OXYs	1,2-DCA	EDB	Chlorinated Hydro-carbons	Cd	Cr	Pb	Ni	Zn	Benzoic Acid	PCP	PCBs
CPT-1-66	7/26/2002	66	—	—	<50	<0.50	1.6	<0.50	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—	—
CPT-1-79	7/26/2002	79	—	—	<50	<0.50	1.6	<0.50	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—	—
CPT-2@26[a]	11/25/2002	26	—	—	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—	—
CPT-2@42[a]	11/25/2002	42	—	—	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—	—
CPT-2@50[a]	11/25/2002	50	—	—	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—	—
CPT-2@68[a]	11/25/2002	68	—	—	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—	—
CPT-2@88[a]	11/25/2002	88	—	—	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-5-W	10/8/2004		—	—	**3,300**	**14**	1.1	**150**	7.9	**45**	**290**	—	—	—	—	—	—	—	—	—	—	—	—
SB-7-W	10/8/2004		—	—	**900**	**15**	<5.0	**46**	<10	**67**	**1600**	—	—	—	—	—	—	—	—	—	—	—	—
SB-9-W	10/7/2004		—	—	**13,000**	**17**	5.2	**91**	**57**	**390**	**3,000**	—	—	—	—	—	—	—	—	—	—	—	—
SB-12-W	10/6/2004		—	—	**17,000**	**37**	<25	**460**	<50	**2,600**	**9,500**	—	—	—	—	—	—	—	—	—	—	—	—
SB-13-W	10/7/2004		—	—	**30,000**	<100	<100	**3,300**	<200	**10,000**	**8,200**	—	—	—	—	—	—	—	—	—	—	—	—
CPT-4	2/16/2005	55-60	—	—	<50	1.2	<0.50	3.0	3.0	0.54	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-4	2/16/2005	70-74	—	—	<50	<0.50	<0.50	1.1	1.3	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-5	2/18/2005	59.62	—	—	**150**	0.64	<0.50	1.7	1.3	1.2	6.8	—	—	—	—	—	—	—	—	—	—	—	—
CPT-5	2/18/2005	76-80	—	—	**620**	16	0.66	**32**	14	**19**	**39**	—	—	—	—	—	—	—	—	—	—	—	—
CPT-6	2/18/2005	59-63	—	—	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-6	2/18/2005	75-78	—	—	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-7	2/16/2005	20-35	—	—	<50	<0.50	<0.50	<0.50	<1.0	**160**	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-7	2/16/2005	60-63	—	—	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-7	2/16/2005	75-80	—	—	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-8	2/16/2005	60-63	—	—	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-8	2/16/2005	75-80	—	—	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-9	2/18/2005	58-62	—	—	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-9	2/18/2005	74-77	—	—	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—

TABLE 4

HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*O&G*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*Other OXYs*	*1,2-DCA*	*EDB*	*Chlorinated Hydro-carbons*	*Cd*	*Cr*	*Pb*	*Ni*	*Zn*	*Benzoic Acid*	*PCP*	*PCBs*
CPT-10	2/17/2005	20-38	—	—	<100	<1.0	<1.0	<1.0	<2.0	**200**	11	—	—	—	—	—	—	—	—	—	—	—	—
CPT-10	2/17/2005	62-64	—	—	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-10	2/17/2005	76-80	—	—	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-11	2/17/2005	63	—	—	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-11	2/17/2005	70-74	—	—	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-5A@65'	9/9/2005	61-64	—	—	<50	0.84	<0.5	1.4	2.8	1.4	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
CPT-5A@78'	9/9/2005	74-78	—	—	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0	—	—	—	—	—	—	—	—	—	—	—	—
WO-W	2/14/2007		<4,700	<480	<50	0.67	0.75	0.73	<1.0	1.6	<10	ND	<2.0	<0.50	ND	<5.0	47	**9.4**	**130**	**500**	32	<20	<0.94
Groundwater ESL [b]:			NA	100	100	1.0	40	30	20	5.0	12	NA	0.50	0.050	Various	1.1	50	2.5	8.2	81	NA	1.0	0.014

Notes:

All results in micrograms per liter (µg/l) unless otherwise indicated.
fbg = Feet below grade
O&G = Oil and grease as hexane extractable material by EPA Method 1664 A (Modified)
TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015 (Modified)
TPHg = Total petroleum hydrocarbons as gasoline; analyzed by EPA Method 8260B
Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
Other OXYs = Di-isopropyl ether, ethyl tertiary-butyl ether, and tertiary-amyl methyl ether by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane by EPA Method 8260B
EDB = 1,2-Dibromoethane by EPA Method 8260B
Chlorinated hydrocarbons by EPA Method 8260B; see laboratory analytical report for a complete list of specific constituents
Cd = Cadmium by EPA Method 6010B
Cr = Chromium by EPA Method 6010B
Pb = Lead by EPA Method 6010B
Ni = Nickel by EPA Method 6010B
Zn = Zinc by EPA Method 6010B
Benzoic Acid by EPA Method 8270C. No other polynuclear aromatics detected; see laboratory analytical report for a complete list of specific constituents
PCP = Pentachlorophenol by EPA Method 8270C
PCBs = Polychlorinated biphenyls by EPA Method 8082; see laboratory analytical report for a complete list of specific constituents

TABLE 4

HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*O&G*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*Other OXYs*	*1,2-DCA*	*EDB*	*Chlorinated Hydro-carbons*	*Cd*	*Cr*	*Pb*	*Ni*	*Zn*	*Benzoic Acid*	*PCP*	*PCBs*

<x = Not detected at reporting limit x
ND = Not detected; see laboratory analytical report for constituent-specific reporting limits
-- = Not applicable
<x = Not detected at reporting limit x
NA = No applicable ESL
Shading indicates that sample location subsequently over-excavated, results are not representative of residual soil.
ESL = Environmental screening level

a = Labeled as CPT-1 in laboratory reports
b = San Francisco Bay Regional Water Quality Control Board Environmental Screening Level for groundwater where groundwater is a potential source of drinking water (Tables A and C of*Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

TABLE 5

SOIL VAPOR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
3790 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*
T-2	4/29/2002	<5.0	<0.050	<0.050	<0.050	0.083	<0.10
T-3	4/29/2002	<5.0	<0.050	0.120	<0.050	0.12	<0.10
T1-N	7/18/2002	6,000	1.8	<1.0	<1.0	<1.0	360
T2-E	7/18/2002	10,000	4.2	1.0	<1.0	1.2	460
T3-S	7/18/2002	7,100	1.3	<1.0	<1.0	<1.0	780
T4-W	7/18/2002	3,800	<1.0	<1.0	<1.0	<1.0	170

Notes:

All results in parts per million by volume (ppmv).
TPHg = Total petroleum hydrocarbons as gasoline; analyzed by EPA Method 8260B
Benzene, toluene, ethylbenzene, and xylenes EPA Method 8260B
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
<x = Not detected at reporting limit x

APPENDIX A

SITE HISTORY

SITE HISTORY

1986 Subsurface Investigation: In January 1986 Emcon Associates (Emcon) advanced five soil borings (S-A through S-E) to profile soil impacts for soil disposal during anticipated underground storage tank (UST) replacement activities. A soil sample from boring S-A located adjacent to the waste oil UST at 7 to 8.5 feet below grade (fbg) was analyzed for waste oil only, and no waste oil was detected. Borings S-B through S-E were drilled in the vicinity of the three fuel USTs. Soil samples collected from these borings contained up to 5,100 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg), 14 mg/kg benzene, 130 mg/kg toluene, and 1,200 mg/kg xylenes. A temporary well was installed in boring S-C. A 1/16-inch film of separate phase hydrocarbon was found in the well 9 days after the temporary well was installed. Emcon's March 21, 1986 report details this investigation.

1987 Subsurface Investigation: In October 1987, Pacific Environmental Group, Inc. (PEG) installed two UST backfill wells (ST-1 and ST-2) and two groundwater monitoring wells (S-1 and S-2). Soil samples contained up to 57 mg/kg TPHg and 6.7 mg/kg benzene. PEG's December 4, 1987 report provides well installation details.

January 1988 Subsurface Investigation: PEG installed wells S-3 through S-5 at the site. Soil samples collected from the well borings contained up to 4,700 mg/kg TPHg, 50 mg/kg benzene, 170 mg/kg toluene, and 900 mg/kg xylenes. PEG's March 10, 1988 report provides well installation details.

April 1988 Subsurface Investigation: Woodward-Clyde Consultants (Woodward-Clyde) conducted a soil investigation prior to removal of the fuel USTs.

1988 UST Removal: In August 1988, three gasoline USTs were removed from the site. Kaprealian Engineering, Inc. (Kaprealian) collected six soil samples (A-1, A-2, B-1, B-2, C-1, and C-2) beneath the tanks at 14 fbg. The soil samples contained up to 2,100 mg/kg TPHg, 13 mg/kg benzene, 110 mg/kg toluene, 72 mg/kg ethylbenzene, and 350 mg/kg xylenes. The UST excavation was then over-excavated up to 20.5 fbg, and Kaprealian collected four additional soil samples (A1X, A2X, B2X, and C-1X) at 16 to 20.5 fbg. These soil samples contained up to 80 mg/kg TPHg, 1.3 mg/kg benzene, 2.6 mg/kg toluene, 3.4 mg/kg ethylbenzene, and 16 mg/kg xylenes. In addition, well S-1 was properly destroyed due to the construction. A new UST pit was excavated, and

three fuel USTs were subsequently installed. Three soil samples (A5, A-10, and A-15) were collected during the tank pit excavation. These soil samples contained up to 4.4 mg/kg TPHg and 1.3 mg/kg benzene.

October 1988 Subsurface Investigation: Woodward-Clyde installed two groundwater monitoring wells (S-6 and S-7) to further delineate groundwater impacts down gradient. Soil samples collected from the well borings contained up to 9 mg/kg TPHg, 0.05 mg/kg benzene, and 0.1 mg/kg ethylbenzene. Woodward-Clyde's January 18, 1989 *Environmental Assessment Report* provides well installation details.

February 1989 Subsurface Investigation: Woodward-Clyde installed two groundwater monitoring wells (S-8 and S-9). Soil samples collected from the well borings did not contain TPHg or BTEX. Woodward-Clyde's May 11, 1989 report presents well installation details.

August and September 1989 Subsurface Investigation: Geostrategies Inc. (Geostrategies) installed a monitoring well (S-10) and three extraction wells (SR-1 through SR-3). No TPHg or benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected in soil samples collected from well S-10. Soil samples from the recovery well borings contained up to 67 mg/kg TPHg and 5.4 kg/kg benzene. Geostrategies December 4, 1989 *Quarterly Report July -September 1989* details the well installations.

1990 Aquifer Test: In February 1990, Geostrategies conducted a constant-rate pump test on well SR-3 at the site, and slug tests on wells SR-3, S-2, S-3, S-5, and S-7 through S-10. Calculated hydraulic conductivity values ranged from 1.0 to 10.5 feet per day based on SR-3 pump test results, and from 3.2 to 58.2 feet per day based on slug test results. Geostrategies May 25, 1990 *Aquifer Test Report* presents pump test and slug test results.

1997 Risk Assessment: In January 1997, Cambria Environmental Technology, Inc. (Cambria) submitted a risk evaluation for the site noting that the site met criteria for a low-risk groundwater site. Cambria's January 15, 1997 report provides details of the risk assessment.

1998 Fuel System Upgrades: In June 1988, Gettler-Ryan added secondary containment to the gasoline UST fill ports and removed the waste oil remote fill piping. Cambria inspected the UST pit, stockpiled pea gravel, and waste oil UST remote fill piping removal. No field indications of hydrocarbons, such as

staining or odor, were observed during the site visit. Cambia's September 22, 1998 *1998 Upgrade Site Inspection Report* presents inspection details.

2001-2003 Mobile Groundwater Extraction (GWE): In May 2001, Advanced Cleanup Technologies Inc. (ACT) conducted three weekly 8-hour mobile GWE events using site monitoring wells S-2 and S-4 and tank backfill well T-2. In August 2001, ACT conducted three additional GWE events. In April 2002, Onyx Industrial Service (Onyx) initiated twice-monthly events extracting from tank backfill well T-2. Between June 2002 and September 2002, Onyx also extracted groundwater from well S-4. Extraction from well S-4 was discontinued due to low extraction volumes. Tank backfill well T-4 was added to the twice-monthly extraction events in October 2002. Through the end of February 2003, an estimated 0.96 pounds of TPHg and 9.31 pounds of methyl tertiary-butyl ether (MTBE) were removed via GWE. Mobile GWE details are provided in Cambria's groundwater monitoring reports for this period.

2002-2003 Sensitive Receptor Survey: In April 2002, Cambria submitted a sensitive receptor survey for the site. Based on a review of Department of Water Resources records, six wells were identified within a ½-mile radius of the site, including one active municipal well (Hopyard 6), one destroyed municipal well (Hopyard 1), one abandoned irrigation well (which could not subsequently be located), one destroyed irrigation well, and two wells of unknown use. The active municipal well is located approximately ¼-mile south of the site. The nearest surface water body identified is the Arroyo Mocho Canal located approximately 400 feet south of the site. Based on utility survey results, utilities in the site vicinity are not expected to affect groundwater flow or to provide preferential groundwater migration pathways. Cambria's April 9, 2002 *Sensitive Receptor Survey Report* summarizes the survey data. Cambria's March 28, 2003 *Subsurface Investigation Report* provides a revised utility survey.

2002 Soil Vapor Investigation: In April and July 2002, Cambria conducted a soil gas survey in the UST backfill wells (T-1 through T-4). Soil vapor samples contained up to 10,000 parts per million by volume (ppmv) TPHg, 4.2 ppmv benzene, 1.0 ppmv toluene, 1.2 ppmv xylenes, and 780 ppmv MTBE. Ethylbenzene was not detected in the soil vapor samples.

2002 Dispenser and Piping Upgrades: In July 2002, Paradiso Mechanical, Inc. (Paradiso) replaced and upgraded the fuel dispensers and product, vapor, and vent lines. Additionally, Paradiso added dispenser pans under the new

dispensers and replaced the UST fuel fill port sumps and all associated piping in the tank pit area above the USTs. Cambria collected three piping samples (P-1 through P-3) and four dispenser samples (D-1 through D-4). Soil samples contained up to 260 mg/kg TPHg and 0.079 mg/kg benzene. MTBE was not detected in the soil samples. Cambria's January 21, 2003 *Dispenser and Piping Upgrade Soil Sampling Report* summarizes soil sampling results.

2002 Subsurface Investigation: Between July 2002 and September 2002, Cambria installed two down-gradient groundwater monitoring wells (S-11 and S-12) and drilled two cone penetrometer test (CPT) borings (CPT-1 and CPT-2). Soil samples from the well borings did not contain TPHg, BTEX, or MTBE. Grab groundwater samples from CPT borings did not contain TPHg, BTEX, or MTBE with the exception of 1.6 micrograms per liter (µg/L) toluene detected in samples from CPT-1. Cambria's March 28, 2003 *Subsurface Investigation Report* provides well installation and CPT boring data.

2003-2006 GWE: From July 2003 until May 2006, Cambria and then Delta Consultants (Delta; beginning in February 2005) operated a GWE system using three groundwater recovery wells (SR-1 through SR-3) and one UST backfill well (T-3). The GWE system extracted and treated an estimated 3,142,212 gallons of water containing an estimated 15.7 pounds of MTBE. Delta's July 15, 2006 *Second Quarter 2006 Quarterly Monitoring and Remediation Status Report* summarizes GWE operation details.

2003 Agency Response, Site Conceptual Model (SCM), and Work Plan: Cambria's April 29, 2003 *Site Investigation Work Plan* included responses to the ACEH's February 27, 2003 letter, an SCM, and a corrective action plan.

2004 Agency Response, Revised SCM, and Modified Work Plan: Cambria's June 30, 2004 *Agency Response, Revised SCM, and Modified Work Plan* responded to the ACEH's May 5, 2004 letter, provided a revised SCM, and provided a modified work plan. The SCM included a discussion of the occurrence of tertiary-butyl alcohol (TBA) as a biodegradation byproduct of MTBE.

2004 Subsurface Investigation: In October 2004, Cambria drilled 13 soil borings (SB-1 through SB-5, SB-7 through SB-9, and SB-11 through SB-15) to assess the vertical extent of soil and groundwater impacts on site. Soil samples from the borings contained up to 950 mg/kg TPHg, 5.0 mg/kg benzene, 4.1 mg/kg MTBE, and 14 mg/kg TBA. Grab groundwater samples collected from borings SB-5, SB-7, SB-9, SB-12, and SB-13 contained up to 30,000 µg/l TPHg, 37 µg/l

benzene, 10,000 µg/l MTBE, and 9,500 µg/l TBA. Cambria's February 8, 2005 *Subsurface Investigation Report* provides investigation details.

February 2005 Subsurface Investigation: Delta drilled nine CPT borings to further investigate the vertical extent of groundwater impacts. Grab groundwater samples collected from the CPT borings contained up to 620µg/l TPHg, 16 µg/l benzene, 200 µg/l MTBE, and 38 µg/l TBA. In addition, soil samples were collected from borings CPT-3 and CPT-5. These samples contained up to 0.018 mg/kg ethylbenzene, 0.020 mg/kg xylenes, and 0.56 mg/kg TBA. No TPHg, benzene, toluene, or MTBE were detected in the soil samples. Delta's March 24, 2005 *CPT Soil and Groundwater Investigation Report* provides details of this investigation.

September and October 2005 Subsurface Investigation: In September 2005, Delta drilled one CPT boring (CPT-5A) and in October 2005, Delta installed six groundwater monitoring wells (S-5B, S-5C, S-9B, S-9C, S-14 and S-15) to further investigate the vertical extent of groundwater impacts. Grab groundwater samples collected from boring CPT-5A contained up to 0.84 µg/l benzene and 1.4 µg/l MTBE. No TPHg, toluene, or TBA was detected in the grab groundwater samples. Delta's November 21, 2005 *Well Installation Report* provides details of this investigation.

2007 Waste Oil UST Removal: In February 2007, Wayne Perry, Inc. (Wayne Perry) removed one 550-gallon single-wall fiberglass waste oil UST. Cambria observed the UST removal and collected soil and grab groundwater samples from the UST excavation. The soil sample (WO-1-9) collected from the UST excavation contained 0.88 mg/kg TPHg, 0.0017 mg/kg toluene, 0.010 mg/kg ethylbenzene, 0.057 mg/kg total xylenes, 52 mg/kg chromium, 8.0 mg/kg lead, 53 mg/kg nickel, and 56 mg/kg zinc. The grab water sample (WO-W) collected from the UST excavation contained 0.67 (µg/l) benzene, 0.75 µg/l toluene, 0.73 µg/l ethylbenzene, 1.6 µg/l MTBE, 47 µg/l chromium, 9.4 µg/l lead, 130 µg/l nickel, 500 µg/l zinc, and 32 µg/l benzoic acid. Based on these concentrations, Shell submitted an Underground Storage Tank Unauthorized Release (Leak)/Site Contamination Report (Unauthorized Release Report) on March 7, 2007. Cambria's May 23, 2007 *UST Removal Report* presents the UST removal details.

2010 Subsurface Investigation: In May and June 2010, Delta drilled two soil borings (SB-17 and SB-18) to further define the source area. Soil samples collected from the borings contained up to 1,100 mg/kg TPHg. No BTEX,

MTBE, or TBA was detected in the soil samples. Delta's July 16, 2010 *Second Quarter 2010 Quarterly Feasibility Study and Site Investigation Report* provides details of this investigation.

2010 Magnesium Sulfate ($MgSO_4$) Injection Feasibility Study: In May and August 2010, Delta conducted a $MgSO_4$ injection feasibility study on wells S-2 and S-4. Approximately 75 gallons of $MgSO_4$ solution were gravity-fed into each well during each event. Based on subsequent groundwater sampling, Delta concluded that the $MgSO_4$ injections were of limited effectiveness. Delta's November 15, 2010 *Third Quarter 2010 Semiannual Groundwater Monitoring Report & FS Report* presents $MgSO_4$ injection details.

1987-Present Groundwater Monitoring: Groundwater monitoring was initiated in November 1987 and is currently conducted semiannually during the first and third quarters. Historical depth to shallow groundwater has typically ranged between 12 and 19 fbg, and groundwater flow direction is generally south-southeast to southeast.

APPENDIX B

CROSS SECTIONS AND EXPLORATORY BORING LOGS

EXPLANATION

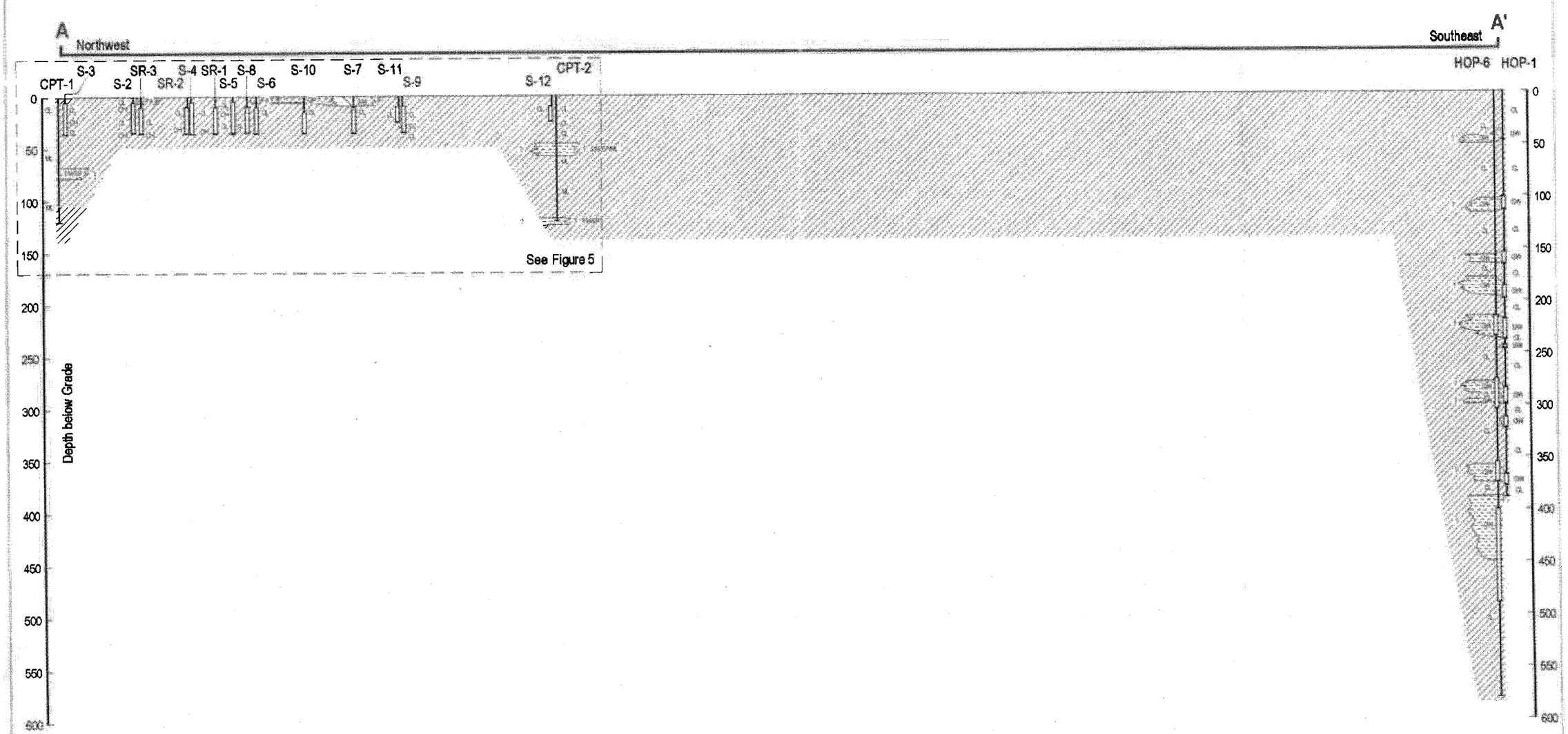
- Active municipal well
- Destroyed municipal well
- Inactive municipal well

Municipal Well Location Map

CAMBRIA

Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California
Incident #98995842

FIGURE
3



EXPLANATION

- = Low Permeability Soils CL, ML, CH
- = Moderate Permeability Soils SM, SC
- = High Permeability Soils GW, GP, SP
- = Fill (Tank Pit)

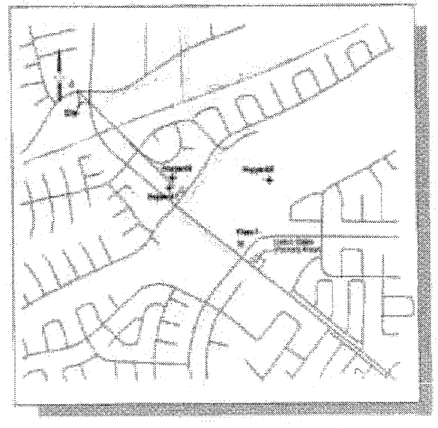
S-2 Well / Boring ID

Groundwater Monitoring Well

Well Screen Interval

Bottom of boring

- **CH** = Inorganic Clay
- **CL** = Clay
- **GP** = Poorly Graded Gravel
- **GW** = Well Graded Gravel
- **ML** = Clayey Silt
- **SC** = Clayey Sand
- **SM** = Silty Sand
- **SP** = Poorly Graded Sand



100

Approximate Scale (ft)

0 120

FIGURE

4

Geologic Cross Section A - A'

Shell-branded Service Station

3790 Hopyard Road

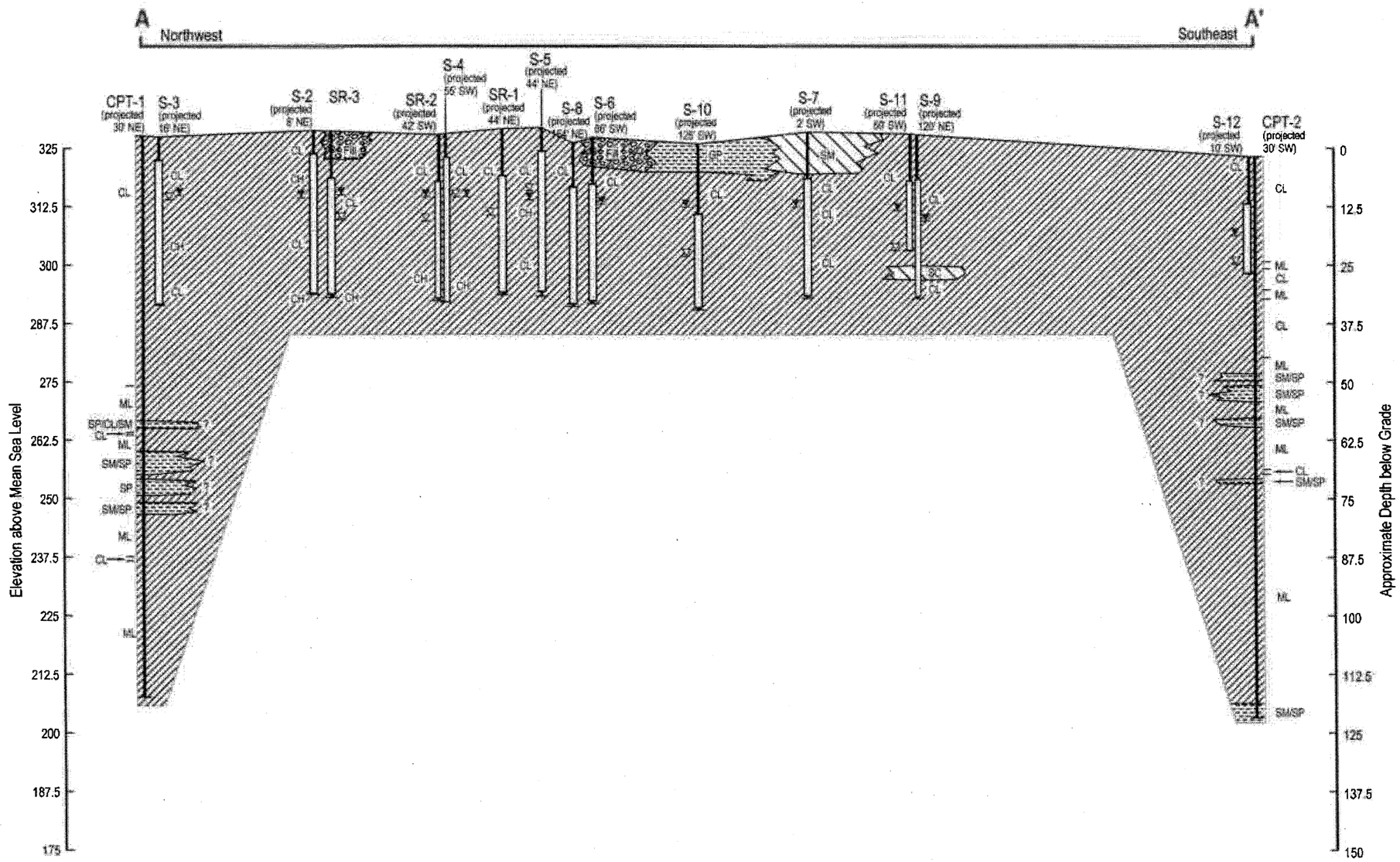
Pleasanton, California

Incident #98995842

CAMBRIA

G:\PLEASANTON 3790 HOPYARD\FIGURES\X-SECTION-A.DWG

03/19/03



EXPLANATION

- = Low Permeability Soils CL, ML, CH
- = Moderate Permeability Soils SM, SC
- = High Permeability Soils GW, GP, SP
- = Fill

S-2 Well / Boring ID

- Groundwater Monitoring Well
- Well Screen Interval
- Bottom of boring
- Initial Groundwater depth
- Depth of Groundwater on December 27, 2002

- CH = Inorganic Clay
- CL = Clay
- GP = Poorly Graded Gravel
- GW = Well Graded Gravel
- ML = Clayey Silt
- SC = Clayey Sand
- SM = Silty Sand
- SP = Poorly Graded Sand

Approximate Scale (ft)
25
0
60

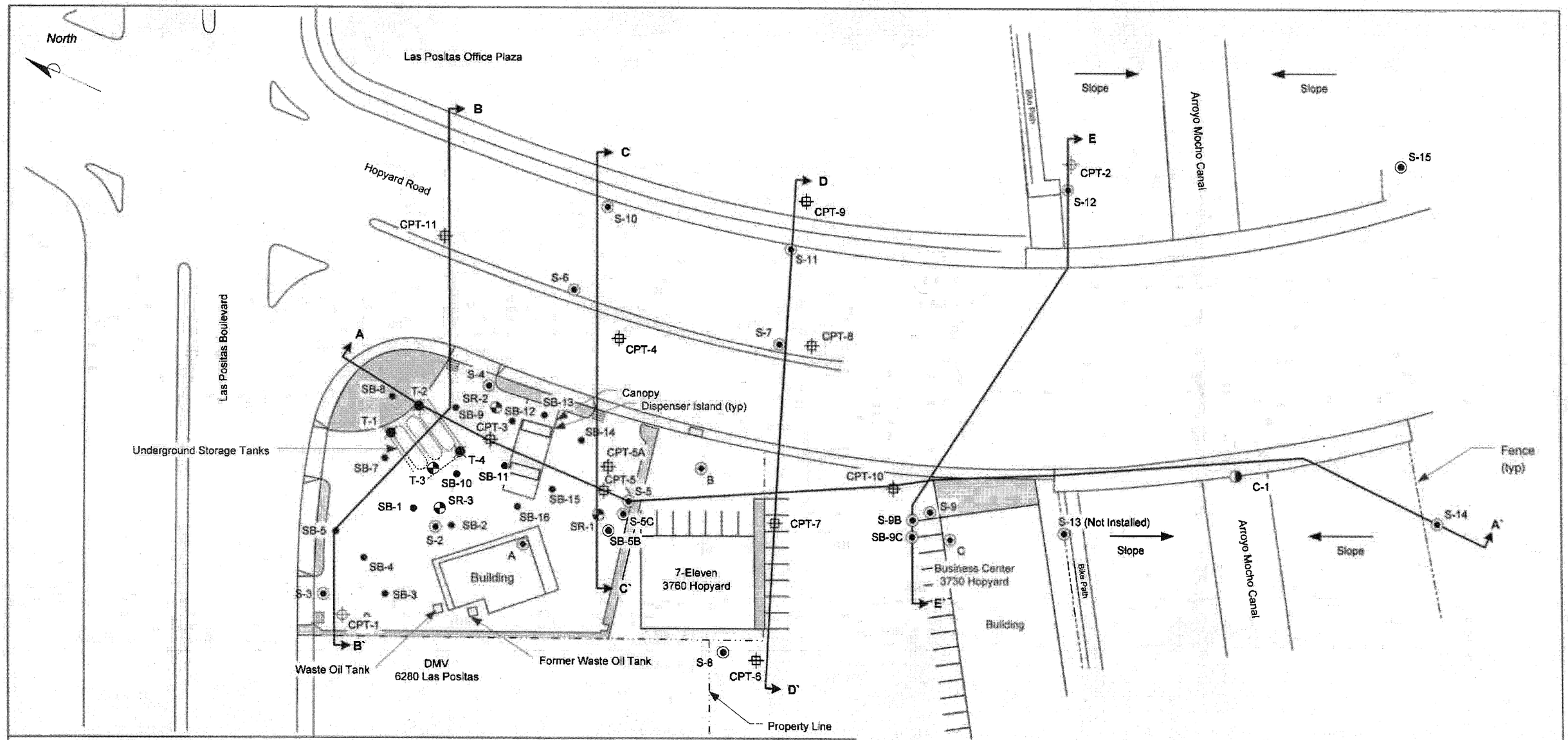
FIGURE
5

Onsite Detail of Geological Cross Section A - A'

CAMBRIA

Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California
Incident #98995842

G:\PLEASANTON\3790 HOPYARD\FIGURES\X-SECTION-AA.DWG



LEGEND

SB-3	•	SOIL BORING LOCATION (OCTOBER 2004)
S-5	◉	GROUNDWATER MONITORING WELL
SR-1	◕	GROUNDWATER RECOVERY WELL
T-1	✖	TANK BACKFILL WELL
C-1	◑	CREEK GAUGING LOCATION
CPT-1	⌖	CPT SAMPLING LOCATION (CPT-1 7/26/02, CPT-2 11/25/02)
CPT-5	⌖	CPT SAMPLING LOCATION
C C`		CROSS SECTION LINE AND DESIGNATION
	⊕	APPROXIMATE LOCATION OF ABANDONED IRIGATION WELL 3S/1E-7Q1
A	•	LOCATION FROM ZONE 7 WATER AGENCY WELL LOCATION MAP, DATED 5/1/02
B	•	LOCATION BASED ON USGS DUBLIN 7 ½ MINUTE TOPOGRAPHIC QUADRANGLE
C	•	LOCATION BASED ON DESCRIPTION FROM CALIFORNIA DEPARTMENT OF WATER RESOURCES, WELL DATA FORM, DATED 10/22/59

0 60 FT

APPROX. SCALE

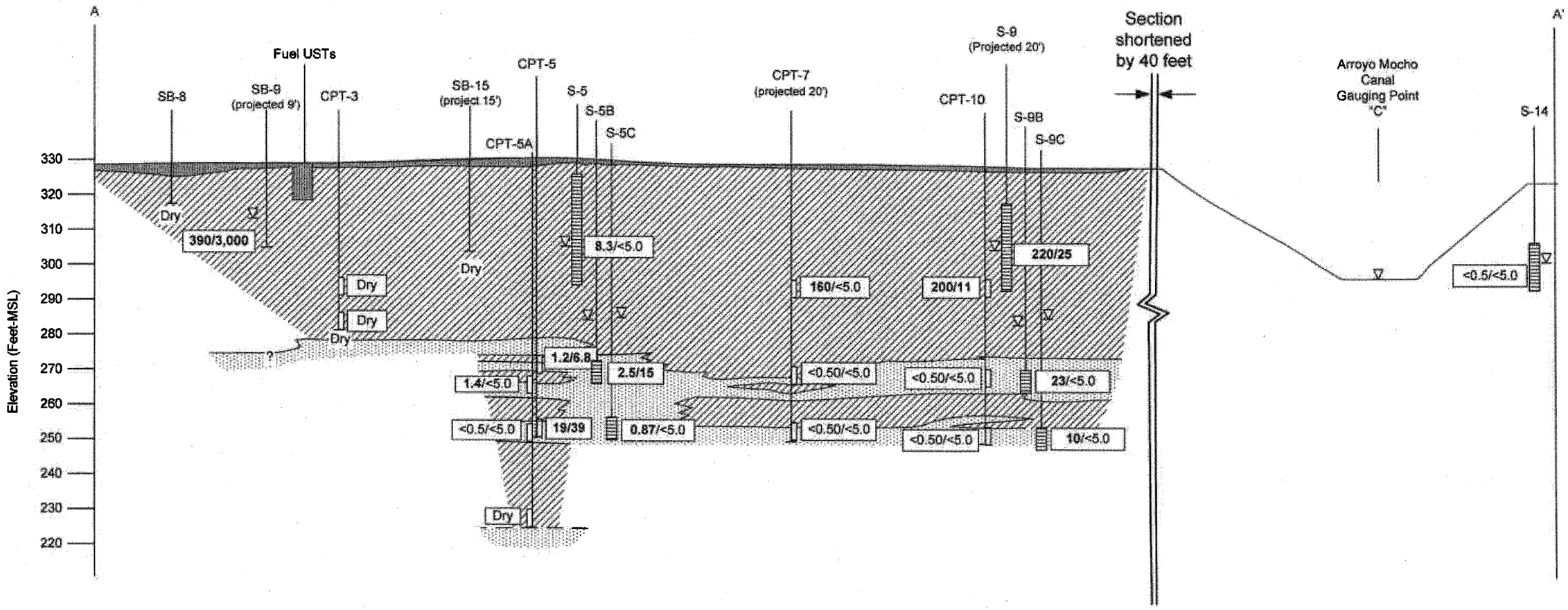
FIGURE 2

BORING AND WELL LOCATION MAP

SHELL-BRANDED SERIVCE STATION
3790 Hopyard Road
Pleasanton, California

PROJECT NO. SJ37-90H-1.2005	DRAWN BY JL 11/11/05
FILE NO. SJ37-90H-1.2005	PREPARED BY JL
REVISION NO. 2	REVIEWED BY

Delta Environmental Consultants, Inc



LEGEND

- CLAY AND/OR SILT
- SAND
- SURFACE MATERIALS (FILL, ASPHALT, ETC.)
- GROUNDWATER LEVEL
- NA — NOT ANALYZED
- Dry — BOREHOLE WAS DRY OR CONTAINED INSUFFICIENT WATER FOR SAMPLE COLLECTION
- WELL
- SCREENED INTERVAL
- BORING
- GROUNDWATER SAMPLE
- <10/<100 — MTBE/TBA CONCENTRATIONS IN GROUNDWATER (ug/L) (**SEE EXPLANATION FOR SAMPLING DATES)

**SB Borings Drilled and Sampled October 2004
CPT Borings CPT-3 through CPT 11 Drilled and Sampled February 2005
CPT Boring CPT-5A Drilled and Sampled September 2005
Wells S-5, S-5B, S-5C, S-9, S-9B, S-9C, S-14 Sampled November 11, 2005

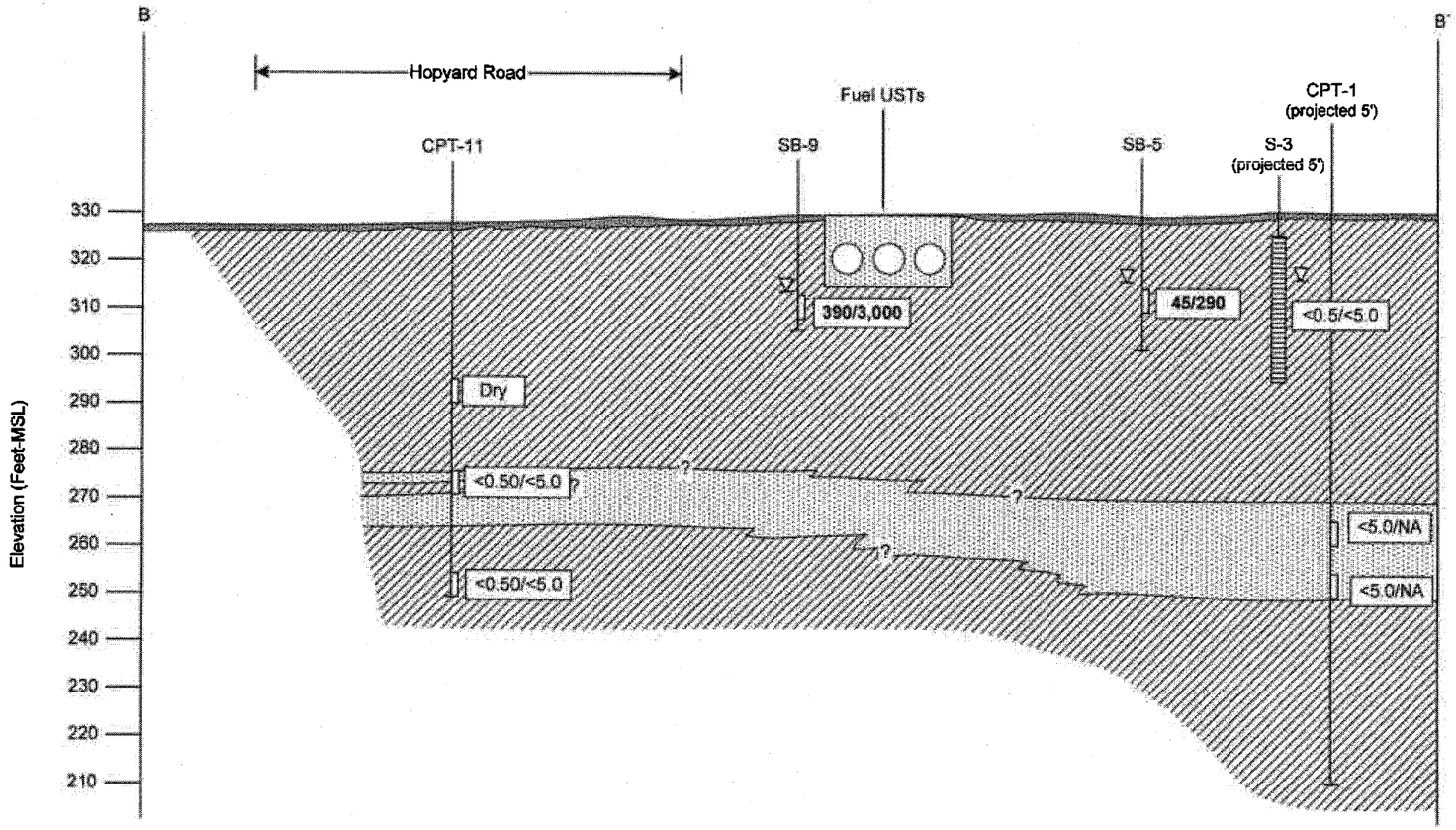
0 40 FT
APPROX. SCALE

FIGURE 3
CROSS SECTION A TO A`

SHELL-BRANDED SERVICE STATION
3790 Hopyard Road
Pleasanton, California

PROJECT NO. SJ37-90H-1.2005	DRAWN BY JL 11/11/05
FILE NO. SJ37-90H-1.2005	PREPARED BY L.G.
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.



LEGEND

- CLAY AND/OR SILT
- SAND
- SURFACE MATERIALS (FILL, ASPHALT, ETC.)
- ▽ GROUNDWATER LEVEL
- NA NOT ANALYZED
- Dry BOREHOLE WAS DRY OR CONTAINED INSUFFICIENT WATER FOR SAMPLE COLLECTION
- BORING
- GROUNDWATER SAMPLE
- <10/<100 MTBE/TBA CONCENTRATIONS IN GROUNDWATER (ug/L): SB BORINGS DRILL OCTOBER 2004, CPT BORINGS DRILLED FEBRUARY 2005
- WELL
- SCREENED INTERVAL
- <10/<100 MTBE/TBA CONCENTRATIONS IN GROUNDWATER (ug/L), WELL SAMPLED 07/29/05

0 40 FT

APPROX. SCALE

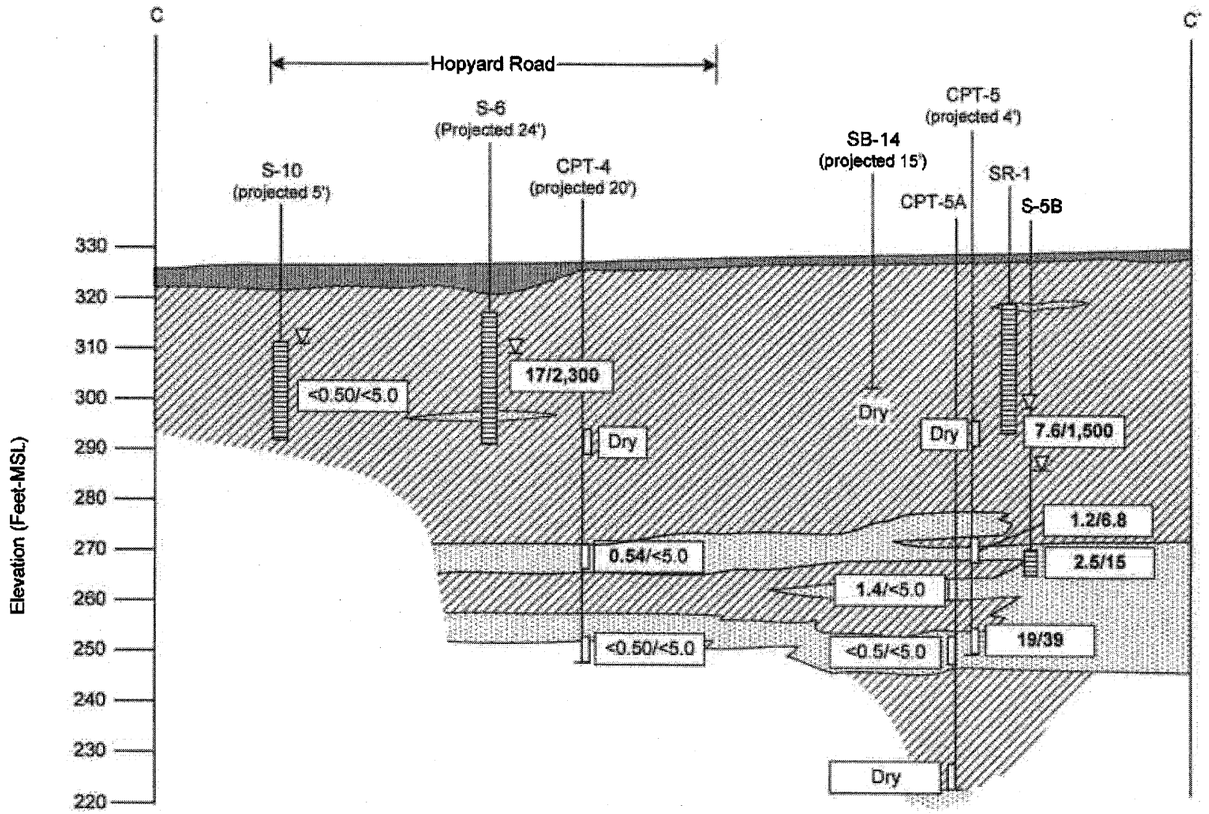
FIGURE 4

CROSS SECTION B TO B'

SHELL-BRANDED SERVICE STATION
3790 Hopyard Road
Pleasanton, California

PROJECT NO. SJ37-90H-1.2005	DRAWN BY JL 11/11/05
FILE NO. SJ37-90H-1.2005	PREPARED BY L. D.
REVISION NO. 2	REVIEWED BY

Delta Environmental Consultants, Inc.



LEGEND

- CLAY AND/OR SILT
- SAND
- SURFACE MATERIALS (FILL, ASPHALT, ETC.)
- ▽ GROUNDWATER LEVEL
- NA NOT ANALYZED
- Dry BOREHOLE WAS DRY OR CONTAINED INSUFFICIENT WATER FOR SAMPLE COLLECTION

BORING

GROUNDWATER SAMPLE

<10/<100

MTBE/TBA CONCENTRATIONS IN GROUNDWATER (ug/L); SB BORINGS DRILL OCTOBER 2004, CPT BORINGS DRILLED FEBRUARY 2005 (WITH THE EXCEPTION OF CPT-5A (9/05))

WELL

SCREENED INTERVAL

<10/<100

MTBE/TBA CONCENTRATIONS IN GROUNDWATER (ug/L), WELLS S-6 AND S-10 SAMPLED 7/29/05; WELL S-5B SAMPLED 11/11/05

0 40 FT

APPROX. SCALE

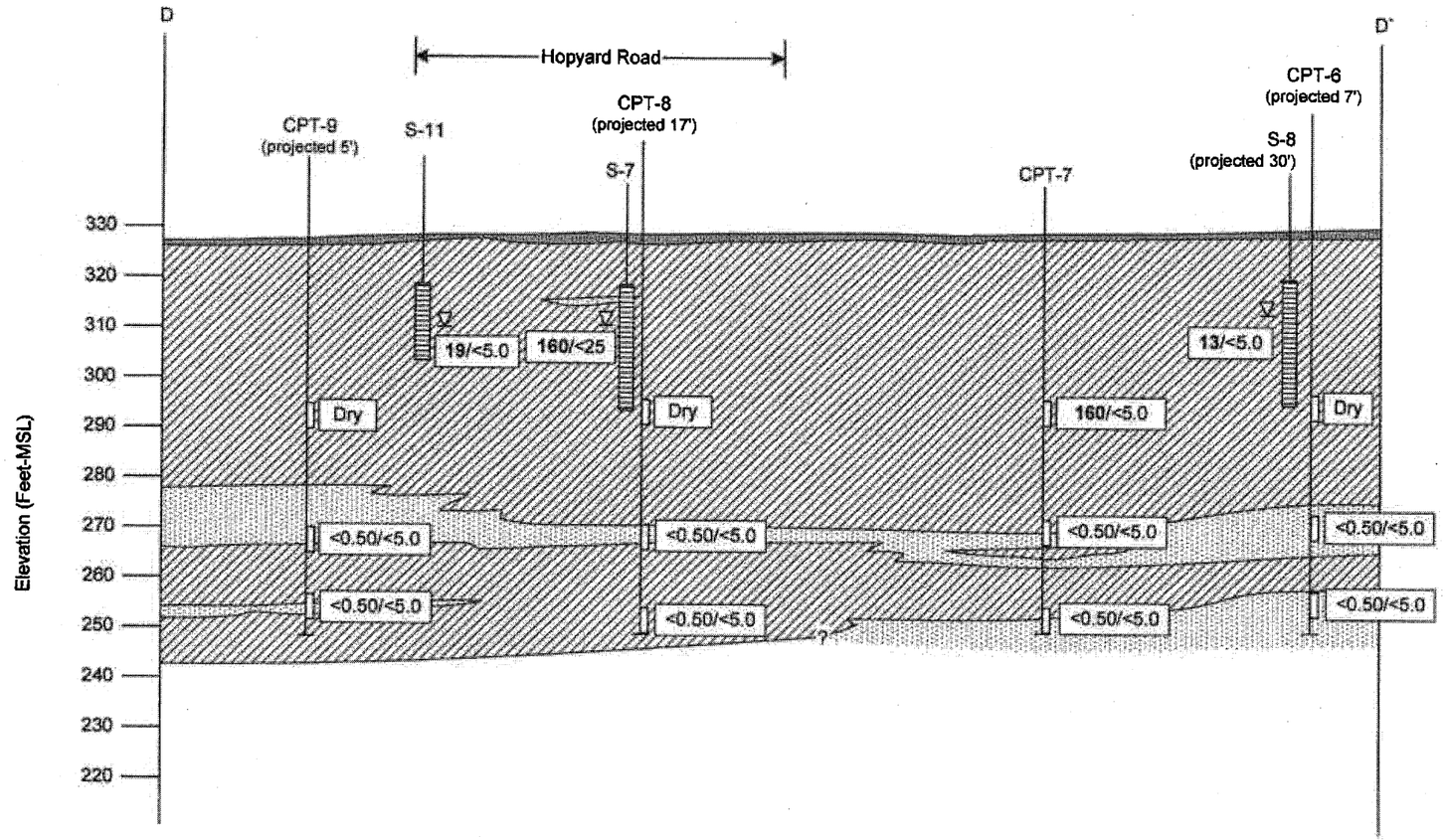
FIGURE 5

CROSS SECTION C TO C'

SHELL-BRANDED SERVICE STATION
3790 Hopyard Road
Pleasanton, California

PROJECT NO. SJ37-90H-1.2005	DRAWN BY JL 11/11/05
FILE NO. SJ37-90H-1.2005	PREPARED BY LG
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc



LEGEND

- CLAY AND/OR SILT
- SAND
- SURFACE MATERIALS (FILL, ASPHALT, ETC.)
- GROUNDWATER LEVEL
- NA — NOT ANALYZED
- Dry — BOREHOLE WAS DRY OR CONTAINED INSUFFICIENT WATER FOR SAMPLE COLLECTION
- BORING
- GROUNDWATER SAMPLE
- <10/<100 — MTBE/TBA CONCENTRATIONS IN GROUNDWATER (ug/L); SB BORINGS DRILL OCTOBER 2004, CPT BORINGS DRILLED FEBRUARY 2005
- WELL
- SCREENED INTERVAL
- <10/<100 — MTBE/TBA CONCENTRATIONS IN GROUNDWATER (ug/L), 07/29/05

0 40 FT

APPROX. SCALE

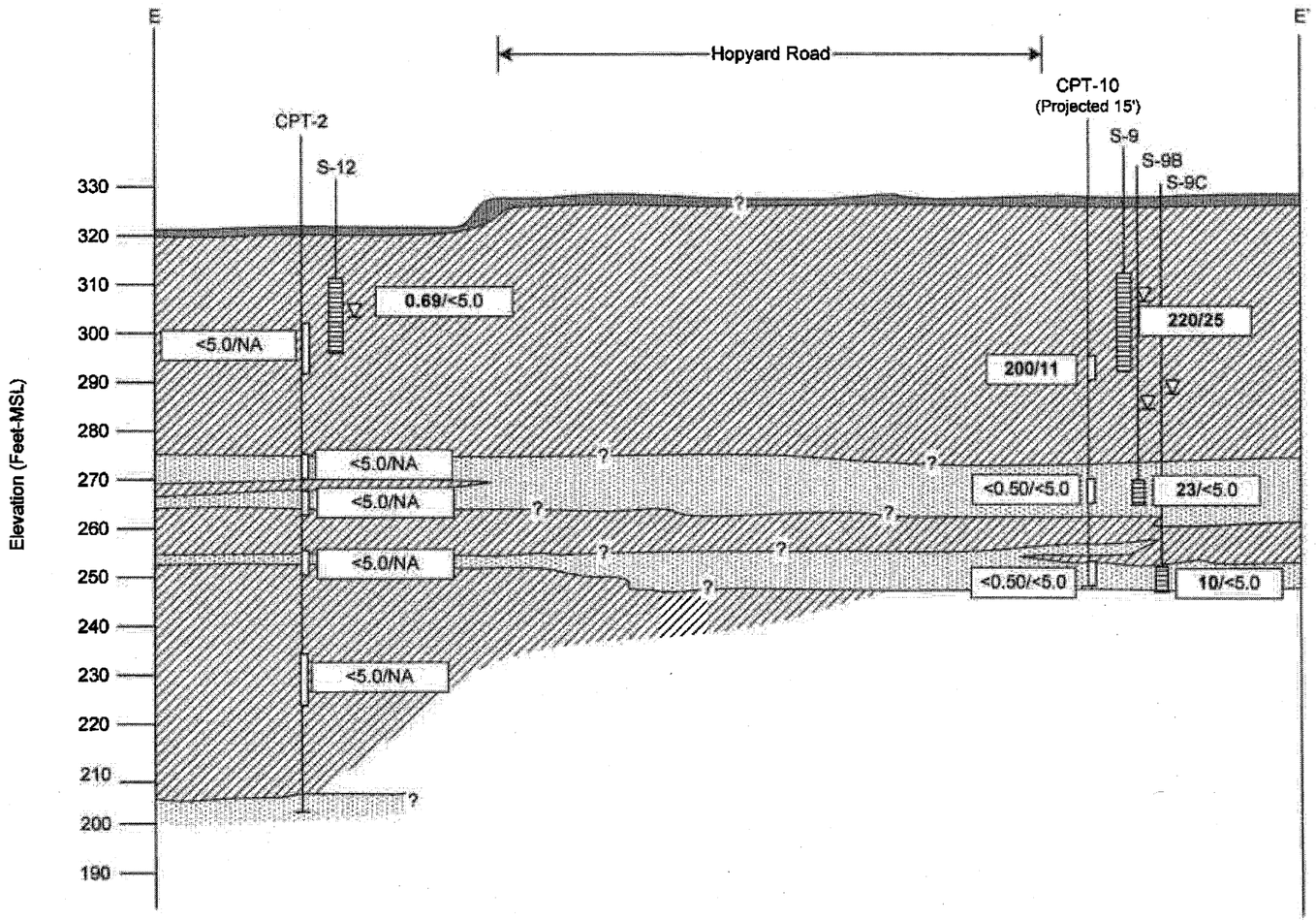
FIGURE 6

CROSS SECTION D TO D'

SHELL-BRANDED SERVICE STATION
3790 Hopyard Road
Pleasanton, California

PROJECT NO. SJ37-90H-1.2005	DRAWN BY JL 11/11/05
FILE NO. SJ37-90H-1.2005	PREPARED BY L.D.
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc



LEGEND

- CLAY AND/OR SILT
- SAND
- SURFACE MATERIALS (FILL, ASPHALT, ETC.)
- ▽ GROUNDWATER LEVEL
- NA NOT ANALYZED
- Dry BOREHOLE WAS DRY OR CONTAINED INSUFFICIENT WATER FOR SAMPLE COLLECTION

BORING
GROUNDWATER SAMPLE

<10/<100 MTBE/TBA CONCENTRATIONS IN GROUNDWATER (ug/L); SB BORINGS DRILL OCTOBER 2004, CPT BORINGS DRILLED FEBRUARY 2005

WELL
SCREENED INTERVAL

<10/<100 MTBE/TBA CONCENTRATIONS IN GROUNDWATER (ug/L), S12 - 07/29/05; S-9, S-9B AND S-9C - 11/11/05

0 40 FT
APPROX. SCALE

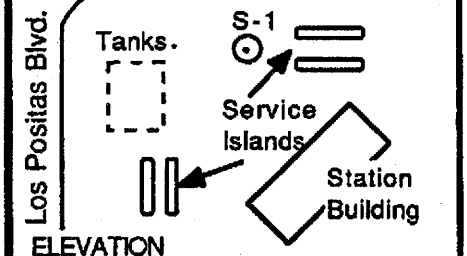
FIGURE 7
CROSS SECTION E TO E'

SHELL-BRANDED SERVICE STATION
3790 Hopyard Road
Pleasanton, California

PROJECT NO. SJ37-90H-1.2005	DRAWN BY JL 11/11/05
FILE NO. SJ37-90H-1.2005	PREPARED BY L.D.
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

LOCATION MAP Hopyard Rd.



PACIFIC ENVIRONMENTAL GROUP, INC.

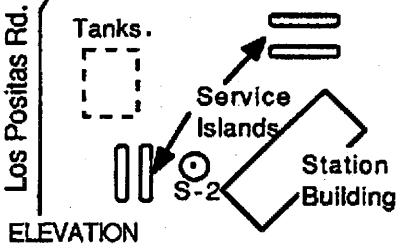
WELL / BORING NO. S-1
PAGE 1 OF 1

PROJECT NO. 101-08.01
LOGGED BY: E.L.
DRILLING METHOD: HSA
SAMPLING METHOD: CAL. MOD.
CASING TYPE: SHC. #40 PVC
SLOT SIZE: 0.020
GRAVEL PACK: 12 X 20 SAND

CLIENT: G-R/SHELL
DATE DRILLED: 10/28/87
LOCATION: Hopyard & Los Positas
HOLE DIAMETER: 8"
HOLE DEPTH: 35'
WELL DEPTH: 35'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	TIP	PENETRATION RESISTANCE (BLOW/FT)	DEPTH (feet)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Concrete				0				ASPHALT & BASEROCK FILL
				2			CL	CLAY; gray; trace silt; moderate plasticity; 5-10% fine sand; trace medium sand to fine gravel; faint product odor.
	Dp	31.5	P	4				@ 5'; as above; thin (1") interbed of fine sand; gravel saturated with black product; strong product odor.
				6				
				8			CH	CLAY; black; high plasticity; trace fine sand; very stiff; faint product odor.
	Dp	85.0	27	10				
12 X 20 Sand				12				
	Dp	454	6	14			CL	CLAY; black; moderate plasticity; trace silt; 5-10% organics; hydrogen sulfide odor; rootlets; medium stiff; faint product odor.
				16				
				18				
	Wt	597	9	20				@ 19'; as above; stiff; no product odor.
				22				
	Wt	2.0	9	24				@ 24'; as above; occasional 1"-2" thick peaty clay interbeds; hydrogen sulfide odor; stiff; no product odor.
				26				
Caved				28				
	Wt	64.5	11	30				@ 29'; as above; peat absent; stiff; no product odor.
				32				
	Wt	4.0	9	34				@ 33.5'; as above; trace fine to medium sand; 5-10% coarse sand to fine gravel; stiff; no product odor.
				36				BOTTOM OF BORING AT 35 FEET
				38				
				40				
				42				
				44				

LOCATION MAP Hopyard Rd.



ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

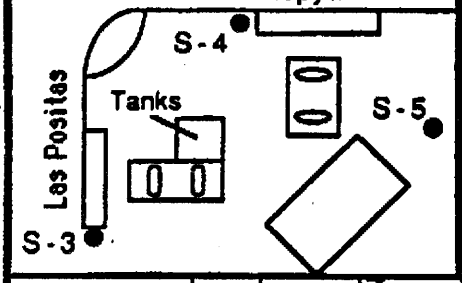
WELL / BORING NO. S-2
PAGE 1 OF 1

PROJECT NO. 101-08.01
LOGGED BY: E.L.
DRILLING METHOD: HSA
SAMPLING METHOD: CAL. MOD.
CASING TYPE: SHC. #40 PVC
SLOT SIZE: 0.020
GRAVEL PACK: 12 X 20 SAND

CLIENT: G-R/SHELL
DATE DRILLED: 10/28/87
LOCATION: Hopyard & Los Positas
HOLE DIAMETER: 8"
HOLE DEPTH: 35'
WELL DEPTH: 35'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	TIP	PENETRATION RESISTANCE (BLOW/FT)	DEPTH (feet)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Concrete				0				ASPHALT & BASEROCK FILL
				2			CL	CLAY; gray; moderate plasticity; silty; trace fine to coarse sand; faint product odor.
Bentonite	Dp	4.5	P	4				@3.5'; as above; 5-10% coarse sand to fine gravel; moderate product odor.
				6				
				8				
	Dp	83.5	11	10			CH	CLAY; gray; high plasticity; trace coarse gravel; rootholes; stiff; faint product odor.
				12				
12 X 20 Sand	Dp	314	6	14			CL	CLAY; gray; moderate plasticity; trace fine sand; roots; occasional peaty interbeds; 5-15% organics; hydrogen sulfide odor; medium stiff; faint product odor.
				16				
				18				
	Wt	333	3	20				@ 19'; as above; soft; no product odor.
				22				
	Wt	20.5	7	24				@ 24'; as above; peat absent; medium stiff; no product odor.
				26				
				28				
Caved	Wt	5.5	10	30				@29'; as above; no product odor.
				32				
	Wt	11.5	12	34			CH	CLAY; gray; high plasticity; trace silt; stiff; no product odor.
				36				BOTTOM OF BORING AT 35 FEET
				38				
				40				
				42				
				44				

LOCATION MAP



P...CIFIC ENVIRONMENTAL GRC..P, INC.

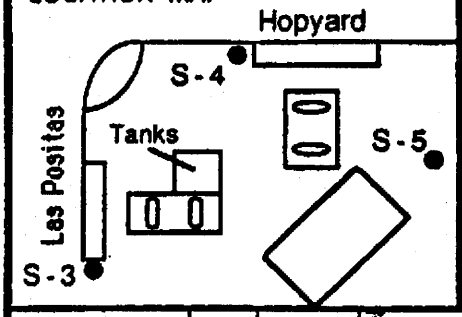
WELL / S-3
BORING NO.
PAGE 1 OF 1

PROJECT NO. 101-08.02
LOGGED BY: C.P.
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020
GRAVEL PACK: 12 X 20 SAND

CLIENT: G.R. Shell
DATE DRILLED: 1-26-88
LOCATION: Hopyard & Las Positas
HOLE DIAMETER: 8"
HOLE DEPTH: 36'
WELL DEPTH: 36'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CONCRETE				2				ASPHALT & BASEROCK - FILL
							CL	CLAY; dark olive gray; moderate plasticity; trace coarse sand; roots; firm; no product odor.
	Dp	0.6	PUSH	4				
BENTONITE				6				
				8				
	Dp	3.0	13	10				@9'; as above; ; stiff; no product odor.
				12				
	Dp	2.0	4	14				@14'; as above; medium olive gray; rootholes; soft; no product odor.
				16				
12 X 20 SAND				18				
	Mst	0.0	5	20			CH	CLAY; mottled olive and gray; high plasticity; trace-5% organics; soft; no product odor.
				22				
	Mst	4.0	7	24				@24'; as above; mottled olive gray and black; trace organics; iron oxide staining; firm; no product odor.
				26				
				28				
	Mst	0.3	10	30			CL	CLAY; low plasticity; mottled olive and gray; 10-15% coarse sand; stiff; no product odor.
				32				
	Mst	0.0	11	34				@34'; as above; olive; trace organics; no sand; no product odor.
				36				BOTTOM OF BORING AT 36'
				38				
				40				
				42				
				44				

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

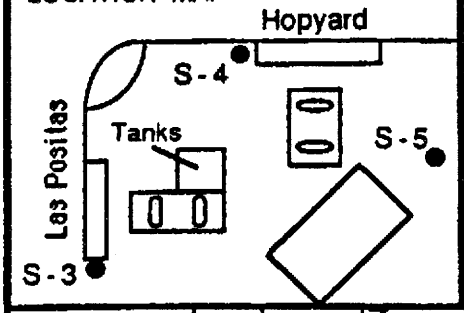
WELL / S-4
BORING NO.
PAGE 1 OF 1

PROJECT NO. 101-08.02
LOGGED BY: C.P.
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020
GRAVEL PACK: 12 X 20 SAND

CLIENT: G.R. Shell
DATE DRILLED: 1-26-88
LOCATION: Hopyard & Las Positas
HOLE DIAMETER: 8"
HOLE DEPTH: 36'
WELL DEPTH: 36'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CONCRETE								ASPHALT, GRAVEL, & BRICK.
				2			CL	CLAY; olive gray; low plasticity; trace coarse sand; trace organics; trace coarse gravel; firm; no product odor.
	Dp	12.2	PUSH	4				
BENTONITE				6				
				8				
	Dp	20	14	10				@9'; as above; moderate plasticity; no gravel; stiff; no product odor.
				12				
	Dp	78	5	14				@14'; as above; mottled medium brown and olive; low plasticity; trace medium sand; iron oxide staining; charcoal; roots; low plasticity; firm; no product odor; peat lens @14 1/2'.
12 X 20 SAND				16				
				18				
	Dp	188	8	20				@19'; as above; mottled green & olive; 5-10% silt; rootholes; firm; moderate product odor.
				22				
	Mst	110	12	24				@24'; as above; black; moderate plasticity; stiff; no product odor.
				26				
				28				
	Mst	22	14	30			CH	CLAY; dark gray; trace fine gravel; trace fine sand; no product odor.
				32				
				34				@34'; as above; olive; high plasticity; rootholes; trace organics; stiff; no prodcut odor.
	Mst	2.2	10	36				BOTTOM OF BORING AT 36'
				38				
				40				
				42				
				44				

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / S-5
BORING NO.
PAGE 1 OF 1

PROJECT NO. 101-08.02
LOGGED BY: C.P.
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020
GRAVEL PACK: 12 X 20 SAND

CLIENT: G.R. Shell
DATE DRILLED: 1-26-88
LOCATION: Hopyard & Las Positas
HOLE DIAMETER: 8"
HOLE DEPTH: 36'
WELL DEPTH: 35 1/2'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
								ASPHALT & BASEROCK/GRAVEL
CONCRETE				2			CL	CLAY; dark olive gray; 10-15% fine gravel; medium plasticity; trace organics; trace medium sand; firm; no product odor.
BENTONITE	Dp	5.9	PUSH	4				
				6				
				8				
	Dp	42	14	10				@9'; as above; dark olive silty; no gravel; trace medium to coarse sand; clay sheared through center of sampler; stiff; faint product odor.
				12				
				14				
	Dp	35	8	16			CH	CLAY; dark bluish gray; medium to high plasticity; trace coarse sand; peaty; 10-15% organics; stiff; moderate product odor (oil).
				18				
12 X 20 SAND	Dp	254	9	20			CL	CLAY; medium brownish gray; moderate plasticity; trace-5% organics; iron oxide staining; rootholes; stiff; visible product sheen; strong product odor.
				22				
	Dp	50	7	24				@24'; as above; mottled gray and olive brown; firm; moderate product odor.
				26				
				28				
	Dp	58	8	30				@29'; as above; dark olive; trace organics; trace medium sand; firm; faint product odor.
				32				@30.5; silt lens.
CAVED				34				
	Dp	8.0	10					@34'; as above; medium olive gray; firm; thin lens of silty clay; no product odor.
				36				BOTTOM OF BORING AT 36'
				38				
				40				
				42				
				44				

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-5c
Logged By:	Heather Buckingham	Location:	3790 Hopyard Road	Page 1 of 4
Driller:	Gregg	Date Drilled:	10/31/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split-Shoe	Hole Depth:	77.5 feet	
Casing Type:	Sched. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	77 feet	
Gravel Pack:	#3	Casing Stickup:	n/a	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout				air knifed & hand augered				AF	3 to 4 inch asphalt with approx. 2 inches of base rock
					1				
					2			CL	**Sandy Lean CLAY**: dark brown, 5-15% gravels up to ~3mm b-axis diameter, 30-40% medium grained sand, low to moderate plasticity, some small roots
					3				
					4				
					5				**Sandy Lean CLAY**: same as above, darker brown to black, 30-40%medium grained sand
					6				Encountered 2-3" asphalt layer
					7				
					8				
				6					
		damp	68.6	13	9			CL	**Lean CLAY**: medium grey, ~10% fine grained sand, low plasticity, very stiff
				15	10				
					11				
					12				
					13				
				4					
		damp	60.4	8	14				(same as above, trace fine grained sand, moderate plastictiy, stiff)
				11	15				
					16				
					17				
					18				
				7					
		damp	1,305	6	19			CL	**Sandy Lean CLAY**: light grey with medium grey mottling, 30-35% fine grained sand, moderate plasticity, stiff
				11	20				
					21				
					22				

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-5c
Logged By:	Heather Buckingham	Location:	3790 Hopyard Road	Page 2 of 4
Driller:	Gregg	Date Drilled:	10/31/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split-Shoe	Hole Depth:	77.5 feet	
Casing Type:	Sched. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	77 feet	
Gravel Pack:	#3	Casing Stickup:	n/a	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout					23				
				8	24				
		damp	10.3	8				CL	**Lean CLAY**: dark grey with some black mottling, ~10%
				9	25				fine grained sands, moderate plasticity, stiff
					26				
					27				
					28				
				8	29				
		wet	0.3	13					(same as above, no dark grey mottling, very stiff)
			0.3	13	30				
					31				
					32				
					33				
				6	34				
		damp	0.1	8				CL	**Sandy Lean CLAY**: greyish brown, 30-35% fine to medium
		moist		9	35				grained sand, moderate to high plasticity, stiff
					36				
					37				
					38				
				7	39				
		moist	0.1	8				CL	**Lean CLAY**: medium brown, medium to high plasticity, stiff
				10	40				
					41				
					42				
					43				
				5	44				
		moist		5					

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-5c
Logged By:	Heather Buckingham	Location:	3790 Hopyard Road	Page 3 of 4
Driller:	Gregg	Date Drilled:	10/31/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split-Shoe	Hole Depth:	77.5 feet	
Casing Type:	Sched. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	77 feet	
Gravel Pack:	#3	Casing Stickup:	n/a	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing / Grout)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
	▼	moist	0.1	5 6	45			CL	**Lean CLAY**: same as above
					46				
					47				
					48				
				7	49				
		moist	0.1	11 13	50			CL	**Lean CLAY with Sand**: light brown mottled with light grey, 15-25% fine grained sand, moderate plasticity, stiff
					51				
					52				
					53				
				40 50 for 5"	54			SC	**Fine Grained SAND with Clay**: medium brown, 15-25% clay, very dense
		damp	0.3	27 54	55				
				16 16	56			SP	**Poorly Graded Medium Grained SAND**: dark tan, medium dense
		wet		40 11 50 for 5"	57 58			SW	**Well Graded SAND**: tan and medium brown, ~10% fines, medium dense
					59				No recovery (sluff)
					60				No recovery (sluff)
					61				
		wet		8 13 36	62 63			GW	**Well Graded GRAVEL with sand**: grey, 1/4 to 1.5" gravel, 10-20% well graded sand, dense
					64				
			0.3		65				
					66				

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-5c
Logged By:	Heather Buckingham	Location:	3790 Hopyard Road	Page 4 of 4
Driller:	Gregg	Date Drilled:	10/31/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split-Shoe	Hole Depth:	77.5 feet	
Casing Type:	Sched. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	77 feet	
Gravel Pack:	#3	Casing Stickup:	n/a	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout / Bentonite / Sand					67				
					68				
		wet		16	69			SP	**Poorly Graded Coarse Grained SAND**: ~10% 1/4" gravel, 10-20% clay, medium dense
			0.1	50 for 4"	70				
				16					
				50 for 4"	71				
				50 for 6"	72				
		wet			73			SC	**Clayey SAND**: medium brown, 40-45% clay, 55-60% fine grained sand, low plasticity, dense
				15					
				16	74				
				28					
					75			SW	**Coarse Grained SAND**: same as above
			0.1						
		wet			76			SC	**Clayey SAND**: same as above, grey
					77				
				50 for 5"					
					78				Boring terminated at 77.5 feet below ground surface
					79				
					80				
					81				
					82				
					83				
					84				
					85				
					86				
					87				
					88				

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Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-5b
Logged By:	Heather Buckingham	Location:	3790 Hopyard Road	Page 1 of 3
Driller:	Gregg	Date Drilled:	10/28/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split-Shoe	Hole Depth:	62.5 feet	
Casing Type:	Sched. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	62 feet	
Gravel Pack:	#3	Casing Stickup:	n/a	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					0			AF	3 to 4 inch asphalt with approx. 2 inches of base rock
				air knifed & hand augered	1				
					2			CL	**Sandy Lean CLAY**: dark brown, 5-15% gravels up to ~3mm b-axis diameter, 30-40% medium grained sand, low to moderate plasticity, some small roots
					3				
					4				
					5				**Sandy Lean CLAY**: same as above, darker brown to black, 30-40%medium grained sand
					6				Encountered 2-3" asphalt layer
					7				
					8				
				6	9				
		damp	68.6	13				CL	**Lean CLAY**: medium grey, ~10% fine grained sand, low plasticity, very stiff
				15	10				
Grout					11				
					12				
					13				
				4	14				
		damp	60.4	8					(same as above, trace fine grained sand, moderate plastictiy, stiff)
				11	15				
					16				
					17				
					18				
				7	19				
		damp	1,305	6				CL	**Sandy Lean CLAY**: light grey with medium grey mottling, 30-35% fine grained sand, moderate plasticity, stiff
				11	20				
					21				
					22				

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-5b
Logged By:	Heather Buckingham	Location:	3790 Hopyard Road	Page 2 of 3
Driller:	Gregg	Date Drilled:	10/28/2005	Location Map
Drilling Method:	HSA	Hole Diameter:	10 inch	Please see site map
Sampling Method:	CA Mod. Split-Shoe	Hole Depth:	62.5 feet	
Casing Type:	Sched. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	62 feet	
Gravel Pack:	#3	Casing Stickup:	n/a	
Elevation		Northing		Easting

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing / Grout					23				
		damp	10.3	8 8 9	24 25			CL	**Lean CLAY**: dark grey with some black mottling, ~10% fine grained sands, moderate plasticity, stiff
					26 27 28				
		wet	0.3 0.3	8 13 13	29 30 31 32				(same as above, no dark grey mottling, very stiff)
		damp moist	0.1	6 8 9	33 34 35 36 37 38			CL	**Sandy Lean CLAY**: greyish brown, 30-35% fine to medium grained sand, moderate to high plasticity, stiff
		moist	0.1	7 8 10	39 40 41 42 43			CL	**Lean CLAY**: medium brown, medium to high plasticity, stiff
		moist		5 5	44				

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-5b	
Logged By:	Heather Buckingham	Location:	3790 Hopyard Road	Page 3 of 3	
Driller:	Gregg	Date Drilled:	10/28/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	10 inch	Please see site map	
Sampling Method:	CA Mod. Split-Shoe	Hole Depth:	62.5 feet		
Casing Type:	Sched. 40 PVC	Well Diameter:	4 inch		
Slot Size:	0.02	Well Depth:	62 feet		
Gravel Pack:	#3	Casing Stickup:	n/a		
Elevation		Northing		Easting	

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing	▼	moist	0.1	5 6	45			CL	**Lean CLAY**: same as above
					46				
					47				
					48				
				7	49				
Grout		moist	0.1	11 13	50			CL	**Lean CLAY with Sand**: light brown mottled with light grey, 15-25% fine grained sand, moderate plasticity, stiff
					51				
					52				
					53				
				40 50 for 5"	54			SC	**Fine Grained SAND with Clay**: medium brown, 15-25% clay, very dense
		damp			55				
Bentonite			0.3	27 54	56			SP	**Poorly Graded Medium Grained SAND**: dark tan, medium dense
				16 16	57				
		wet		40 11	58			SW	**Well Graded SAND**: tan and medium brown, ~10% fines, medium dense
Sand				50 for 5"	59				No recovery (sluff)
					60				No recovery (sluff)
					61				
		wet			62			GW	**Well Graded GRAVEL with sand**: grey, 1/4 to 1.5" gravel, 10-20% well graded sand, dense
					63				Boring terminated at 62.5 feet below grade
					64				
					65				
					66				

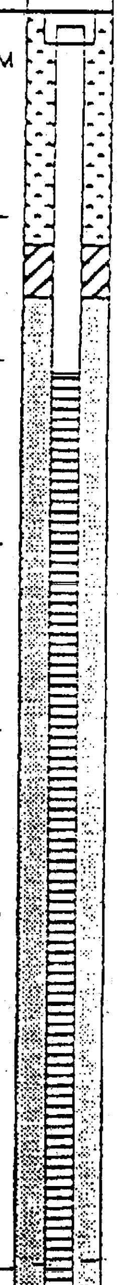
Woodward-Clyde Consultants

PROJECT NAME GETTLER-RYAN NO. 8820011A

MONITORING WELL LOCATION	Los Positas and Hopyard, Pleasanton, CA [illegible]			ELEVATION AND DATUM	
DRILLING AGENCY	Bay Land Drilling Co.	DRILLER	Kurt	DATE STARTED / DATE FINISHED	10/4/88
DRILLING EQUIPMENT	Truck mounted CME - 75			COMPLETION DEPTH 35'	SAMPLER Modified California
DRILLING METHOD	8" Hollow stem augers	DRILL BIT		NO. OF SAMPLES: DIST. 7	UNDIST.
SIZE AND TYPE OF CASING	3" PVC Threaded	FROM 35 TO 0 FT.		WATER LEVEL: FIRST	COMPL. 12.1' / 24 HRS.
TYPE OF PERFORATION	0.020" Slot	FROM 35 TO 10 FT.		LOGGED BY: K. Stevens	CHECKED BY: M. Bonkowski
SIZE AND TYPE OF PACK	2/12 Lonestar Sand	FROM 35 TO 8 FT.			
TYPE OF SEAL NO. 1	Bentonite	FROM 8 TO 6.5 FT.			
TYPE OF SEAL NO. 2	Concrete	FROM 6.5 TO 0 FT.			

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION		USCS
0			Asphalt and Gravel Base		SM
5	1	[illegible] @ 230 [illegible]	SILTY SAND silty sand with some gravel, loose, poorly sorted, dry	HNu = 0.5 ppm No Hydrocarbon odor	CL
10	2	3, 4, 7	CLAY dark gray clay, trace silt, very stiff, plastic	HNu = 5.5 ppm No Hydrocarbon odor	CL
15	3	[illegible]	dark gray with trace gravel, very stiff, plastic, dry to damp	HNu = 6 ppm No Hydrocarbon odor	CL
20	4	2, [illegible], 5	dark gray with layer fine silt, medium stiff, damp	HNu = 130 ppm Hydrocarbon odor	CL
25	5	2, [illegible], 7	mottled brown, black, gray clay with occasional gravel, stiff, plastic, damp	HNu = 4 ppm No Hydrocarbon odor	CL
30	6	4, 4, 6	dark gray clay, very stiff, plastic		CL
			GRAVEL layer coarse gravel and some coarse sand, poorly sorted, wet	HNu = 4.5 ppm No Hydrocarbon odor	GP
35					

Well Construction



PROJECT NAME GETTLER-RYAN NO. 8820011A

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION	USCS	Well Construction
35	7	4 5 7	CLAY dark gray clay with trace gravel, soft, plastic, wet H.N.U. = 1.5 ppm No Hydrocarbon odor	CL	

Total Depth = 35.5 feet

* = Lab Sample

40 45 50 55 60 65 70 75 80

Woodward-Clyde Consultants

PROJECT NAME GETTLER-RYAN NO. 8820011A

MONITORING WELL LOCATION	Los Positas and Hopyard, Pleasanton, CA	ELEVATION AND DATUM	
DRILLING AGENCY	Bay Land Drilling Co.	DRILLER Kurt	DATE STARTED / DATE FINISHED 10/4/88
DRILLING EQUIPMENT	Truck mounted CME - 75	COMPLETION DEPTH 35	SAMPLER Modified California
DRILLING METHOD	8" Hollow stem augers	DRILL BIT	NO. OF SAMPLES 7 DIST. UNDIST.
SIZE AND TYPE OF CASING	3" PVC Threaded	FROM 35 TO 0 FT.	WATER LEVEL FIRST COMPL. 15.8 24 HRS.
TYPE OF PERFORATION	0.020" Slot	FROM 35 TO 10 FT.	LOGGED BY: K. Stevens
SIZE AND TYPE OF PACK	2/12 Lonestar Sand	FROM 35 TO 8 FT.	CHECKED BY: M. Borkowski
TYPE OF SEAL NO. 1	Bentonite	FROM 8 TO 6.5 FT.	
TYPE OF SEAL NO. 2	Concrete	FROM 6.5 TO 0 FT.	

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION		USCS	Well Construction
			Asphalt and Gravel Base			
5	1		SAND silty sand with some gravel, loose, poorly sorted, dry	H Nu = 0 ppm No Hydrocarbon odor	SM	
10	2		CLAY dark gray clay with some gravel, stiff, plastic, damp	H Nu = 0 ppm No Hydrocarbon odor	CL	
15	3	2 3 3	CLAYEY SAND clayey sand with little gravel, loose, poorly sorted, moist	H Nu = 0 ppm No Hydrocarbon odor	SC	
			CLAY dark gray clay with black mottling, trace sand and gravel, medium stiff, low plasticity		CL	
20	4	3 3 4	PEAT peat with trace clay, root material, moist	H Nu = 0 ppm No Hydrocarbon odor	PT	
			CLAY dark gray clay, trace roots and root impressions, stiff, plastic		CL	
25	5	2 4 7	dark gray clay	H Nu = 0 ppm No Hydrocarbon odor		
30	6	4 6 7	mottled brown, black, gray clay with occasional gravel, moist to wet, soft, with occasional streaks of white	H Nu = 0 ppm No Hydrocarbon odor		
35						

PROJECT NAME GETTLER-RYAN NO. 8820011A

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION	USCS	Well Construction
35	7		dark green clay with trace gravel, soft, plastic, moist to wet R.N.U. = 0 ppm No Hydrocarbon odor	CL	

Total Depth = 35.5 feet

* = Lab Sample

40 45 50 55 60 65 70 75 80

LOG OF MONITORING WELL NO. S-7 SHEET 2 OF 2

Woodward-Clyde Consultants

PROJECT NAME GETTLER - RYAN NO. 8820011A/0118

MONITORING WELL LOCATION 3790 Hopyard Rd. Pleasanton, CA (S-8)		ELEVATION AND DATUM 100.00' site datum	
DRILLING AGENCY Baylands	DRILLER K. Voss	DATE STARTED 2/24/89 DATE FINISHED 2/24/89	
DRILLING EQUIPMENT Truck-mounted CME-75		COMPLETION DEPTH 35'	SAMPLER Modified California
DRILLING METHOD 8" hollow stem auger	DRILL BIT CME Carbide	NO. OF SAMPLES DIST. ____	UNDIST. 7
SIZE AND TYPE OF CASING 3" PVC	FROM 34.5 TO 0.5 FT.	WATER LEVEL FIRST 16' Approx.	COMPL. ____ 24 HRS. ____
TYPE OF PERFORATION 020 slotted	FROM 34.5 TO 9.5 FT.	LOGGED BY: C. Parten	CHECKED BY: M. Bonkowski
SIZE AND TYPE OF PACK 8 X 16	FROM 35.0 TO 7.5 FT.		
TYPE OF SEAL NO. 1 Bentonite	FROM 7.5 TO 6.5 FT.		
NO. 2 Grout	FROM 6.5 TO surface FT.		

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION	USCS	Well Construction
			3" Asphalt; base, gray brown SANDY CLAY with SAND	CL	
5	1	50 psi push	SILTY CLAY grayish brown, damp, medium firm, some roots	CL	
10	2	4 5 7	SILTY CLAY gray brown mottled, medium firm HNu = 0 ppm	CL	
15	3	3 4 6	SILTY CLAY as above HNu = 0 ppm ▼	CL	
20	4	3 4 5	SILTY CLAY gray and brown mottling, orange speckles (look like brick), roots, damp, medium firm HNu = 0 ppm	CL	
25	5	3 5 5	SILTY CLAY gray and brown mottling, damp, medium firm HNu = 0 ppm	CL	
30	6	3 4 5	SILTY CLAY as above HNu = 0 ppm	CL	
35	7	3 5 6	SILTY CLAY gray and brown mottling, damp to moist, medium firm	CL	

Total Depth = 35.0 feet

Woodward-Clyde Consultants

PROJECT NAME GETTLER - RYAN NO. 8820011A/0118

MONITORING WELL LOCATION 3790 Hopyard Rd, Pleasanton, CA (S-9)			ELEVATION AND DATUM 101.24' site datum
DRILLING AGENCY Baylands	DRILLER K. Voss		DATE STARTED 2/24/89 DATE FINISHED 2/24/89
DRILLING EQUIPMENT Truck-mounted CME-75			COMPLETION DEPTH 35.0' / SAMPLER California Modified
DRILLING METHOD 8" Hollow-stem auger	DRILL BIT CME Carbide		NO. OF SAMPLES / DIST. — / UNDIST. 7
SIZE AND TYPE OF CASING 3" PVC	FROM 34.5 TO 0.5 FT.		WATER LEVEL / FIRST — / COMPL. — / 24 HRS. —
TYPE OF PERFORATION 020 slotted	FROM 34.5 TO 0.5 FT.		LOGGED BY: C. Parten / CHECKED BY: M. Bonkowski
SIZE AND TYPE OF PACK 8 X 16	FROM 35 TO 7.5 FT.		
TYPE OF SEAL NO. 1 Bentonite pellets	FROM 7.5 TO 6.5 FT.		
NO. 2 Grout	FROM 6.5 TO surface FT.		

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION	USCS	Well Construction
			Asphalt (3" thick), base, silty clay fill		
5	1	150 Push 250	SILTY CLAY with GRAVEL gray brown, medium firm, damp, gravel to 1/2" sandy in upper portion of sample — HNu = 0 ppm	CL	
10	2	4 4 7	SILTY CLAY to SANDY CLAY gray brown to greenish brown, medium firm, damp — HNu = 0 ppm	CL	
15	3	2 2 3	SILTY CLAY gray brown with black mottling, soft, moist, some charcoal — HNu = 0 ppm	CL	
20	4		SILTY CLAY gray brown mottling, soft, brick fragments and roots — HNu = 0 ppm	CL	
25	5		SILTY CLAY gray brown mottling, medium firm, damp — HNu = 0 ppm		
30	6		SANDY CLAY to CLAYEY SAND silty clay at bottom of sampler — HNu = 0 ppm	CL-SC	
35	7	6 6 7	SILTY CLAY gray brown mottled, medium firm, damp — HNu = 0 ppm	CL	

Total Depth = 35.0 feet

LOG OF MONITORING WELL NO. S-9 SHEET 1 OF 1

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-9b
Logged By:	Heather Buckingham	Location:	3730 Hopyard Road	Page 1 of 3
Driller:	Gregg	Date Drilled:	10/26/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	61 feet	
Casing Type:	Sch. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	61 feet	
Gravel Pack:	#3	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing								AF	3 to 4 inch asphalt with approx. 2 inches of base rock
				air knifed & hand augered	1				
					2			CL	**Lean CLAY**: dark greyish brown, trace coarse grained sand, gravels up to ~5mm b-axis diameter, medium plasticity
					3			SC	**Clayey SAND**: dark brown, fine to medium grained sand, 20-30% clay
					4			CL	**Lean CLAY**: dark brown, 5-15% gravels up to ~5mm b-axis diameter, medium plasticity
			0.1		5				
					6			SC	**Clayey SAND**: brown to yellowish brown, fine to medium grained sand, 15-25% clay
					7				
					8				
				5	9				
		slight	0.1	8				CL	**Lean CLAY with Sand**: dark grey, sand pockets ~0.5cm with fine to medium grained sand (10-15%), low to moderate plasticity, 2-3" clayey sand layer within fine grained sand, stiff
Grout		damp		12	10				
					11				
					12				
					13				
				6	14				
		damp	0.1	8				CL	**Lean CLAY**: dark green with brown mottling, trace fine grained sand, medium to high plasticity, stiff
				9	15				
					16				
					17				
					18				
				6	19				
			0.1	7					(same as above, orange mottling, ~10% fine grained sand, medium to high plasticity)
				7	20				
					21				
					22				

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-9b
Logged By:	Heather Buckingham	Location:	3730 Hopyard Road	Page 2 of 3
Driller:	Gregg	Date Drilled:	10/26/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	61 feet	
Casing Type:	Sch. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	61 feet	
Gravel Pack:	#3	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion: Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout					23			**Lean CLAY** (continued)
		damp	0.9	6 8 9	24 25		CL	**Lean CLAY with Sand**: dark brown with red brown mottling (end at 15') dark grey with light grey sand pockets, 10-20% fine grained sand, moderate plasticity, very stiff
					26 27			
		damp	0.5	9 11 12	28 29 30		CL	**Sandy Lean CLAY**: medium grey, 30-35% fine grained sand, moderate plasticity, very stiff
					31 32 33			
	▼	damp	0.3	7 9 13	34 35			
					36 37 38			
		damp	0.2	8 15 16	39 40			
					41 42 43			
		damp		11 9	44			

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Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-9b
Logged By:	Heather Buckingham	Location:	3730 Hopyard Road	Page 3 of 3
Driller:	Gregg	Date Drilled:	10/26/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	61 feet	
Casing Type:	Sch. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	61 feet	
Gravel Pack:	#3	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing / Grout / Bentonite / Sand		damp	0.1	9, 7	45			CL	**Sandy Lean CLAY** (continued)
					46				
					47				
					48				
					49				
		wet	0.2	7, 10, 11	50, 51			CL	**Lean CLAY with Sand**: grey, 15-20% fine grained sand, moderate plasticity, very stiff
		damp		7, 9, 8, 9	52, 53				(same as above, grey mottling)
		damp		12, 18, 7	54, 55				
		damp	0.1	11, 18, 5	56			SC	**Poorly Graded Fine Grained SAND with Clay**: grey, 80-85% fine grained sand, 15-20% fines, medium dense
		wet		17, 11, 15	57, 58			SP	**Poorly Graded Medium to Coarse Grained SAND with Gravel**: grey, 10-15% gravel, trace fine grained sand, dense
		wet		25, 33, 7	59				**Poorly Graded Fined Grained Sand with Clay**: same
			0.8	17, 18	60			SC	as above, dense
		wet		27	61			SP	**Poorly Graded Medium to Coarse Grained SAND with Gravel**: same as above, very dense
					62				
					63				
					64				
					65				
					66				

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-9c
Logged By:	Heather Buckingham	Location:	3730 Hopyard Road	Page 1 of 4
Driller:	Gregg	Date Drilled:	10/25/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	79 feet	
Casing Type:	Sch. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	79 feet	
Gravel Pack:	#3	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing				air knifed & hand augered				AF	3 to 4 inch asphalt with approx. 2 inches of base rock
					1				
					2			CL	**Lean CLAY**: dark greyish brown, trace coarse grained sand, gravels up to ~5mm b-axis diameter, medium plasticity
					3			SC	**Clayey SAND**: dark brown, fine to medium grained sand, 20-30% clay
					4			CL	**Lean CLAY**: dark brown, 5-15% gravels up to ~5mm b-axis diameter, medium plasticity
			0.1		5				
					6			SC	**Clayey SAND**: brown to yellowish brown, fine to medium grained sand, 15-25% clay
					7				
					8				
				5	9				
		slight	0.1	8				CL	**Lean CLAY with Sand**: dark grey, sand pockets ~0.5cm with fine to medium grained sand (10-15%), low to moderate plasticity, 2-3" clayey sand layer within fine grained sand, stiff
Grout		damp		12	10				
					11				
					12				
					13				
				6	14				
		damp	0.1	8				CL	**Lean CLAY**: dark green with brown mottling, trace fine grained sand, medium to high plasticity, stiff
				9	15				
					16				
					17				
					18				
				6	19				
			0.1	7					(same as above, orange mottling, ~10% fine grained sand, medium to high plasticity)
				7	20				
					21				
					22				

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-9c
Logged By:	Heather Buckingham	Location:	3730 Hopyard Road	Page 2 of 4
Driller:	Gregg	Date Drilled:	10/25/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	79 feet	
Casing Type:	Sch. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	79 feet	
Gravel Pack:	#3	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout									**Lean CLAY** (continued)
					23				
				6					
		damp	0.9	8	24			CL	**Lean CLAY with Sand**: dark brown with red brown
				9	25				mottling (end at 15') dark grey with light grey sand pockets, 10-20% fine grained sand, moderate plasticity,
					26				very stiff
					27				
					28				
				9	29				
		damp	0.5	11				CL	**Sandy Lean CLAY**: medium grey, 30-35% fine grained
				12	30				sand, moderate plasticity, very stiff
					31				
					32				
					33				
				7	34				
		damp	0.3	9					
				13	35				
					36				
					37				
	▼				38				
				8	39				
		damp	0.2	15					
				16	40				
					41				
					42				
					43				
				11	44				
		damp		9					

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Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-9c
Logged By:	Heather Buckingham	Location:	3730 Hopyard Road	Page 3 of 4
Driller:	Gregg	Date Drilled:	10/25/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	79 feet	
Casing Type:	Sch. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	79 feet	
Gravel Pack:	#3	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout		damp	0.1	9				CL	**Sandy Lean CLAY** (continued)
				7	45				
					46				
					47				
					48				
					49				
					50				
		wet	0.2	7					
				10	51			CL	**Lean CLAY with Sand**: grey, 15-20% fine grained sand, moderate plasticity, very stiff
				11					
		damp		7	52				
				9					
				8	53				(same as above, grey mottling)
				9					
				12	54				
		damp		18					
				7	55				
			0.1	11					
		damp		18	56			SC	**Poorly Graded Fine Grained SAND with Clay**: grey, 80-85% fine grained sand, 15-20% fines, medium dense
				5					
		wet		17	57				
				11					
				15	58			SP	**Poorly Graded Medium to Coarse Grained SAND with Gravel**: grey, 10-15% gravel, trace fine grained sand, dense
				25					
		wet		33	59				
				7					
			0.8	17	60			SC	**Poorly Graded Fined Grained Sand with Clay**: same as above, dense
				18					
		wet		27	61			SP	**Poorly Graded Medium to Coarse Grained SAND with Gravel**: same as above, very dense
				50 for 5"					
				17	62				
		wet		33					
				40	63			SC	**Poorly Graded Fine Grained SAND with Clay**: same as above, very dense
				17					
				19	64			SW	**Well Graded Coarse Grained SAND with Gravel**: grey, 35-40% 1/4" gravel, trace large gravels up to 1", 60-65% sand, dense
		wet		30					
				12	65				
			0.1	19					**Graded SAND, CLAY and GRAVEL with Fine Grained**
		wet		20	66			GC	**Sand**: grey, ~15-20% fine grained sands, ~25-30% fines,
				12				CL	50-55% gravel up to 1", dense

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-9c
Logged By:	Heather Buckingham	Location:	3730 Hopyard Road	Page 4 of 4
Driller:	Gregg	Date Drilled:	10/25/2005	Location Map
Drilling Method:	HSA	Hole Diameter:	10 inch	Please see site map
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	79 feet	
Casing Type:	Sch. 40 PVC	Well Diameter:	4 inch	
Slot Size:	0.02	Well Depth:	79 feet	
Gravel Pack:	#3	Casing Stickup:	NA	
Elevation		Northing		Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout / Bentonite / Sand		dry		12	67			CL	**Lean CLAY with Sand**: same as above, grey with brown mottling, medium dense
		dry		12					
		slight		14					
		damp		19	68				
				11					
				7	69				
				7					
				7	70				
		dry	0.1	6					
		slight		8	71				(same as above, brown with tan mottling, very stiff)
		damp		11					
				13	72				
				8					
		damp		11	73				
				4					
				12	74				
				18					
		moist	0.1	14	75			SC	**Poorly Graded Fine Grained SAND**: medium brown, 10-15% fines, dense
				14					
				28	76				
				28					
				28	77				
				50 for 5"				SC	**Poorly Graded SAND with Clay**: medium brown, 15-20% fines, 80-85% fine grained sand, slight plasticity, dense
				18	78				
				33				SW	**Well Graded SAND**: tannish brown, trace gravel (~5%)
				25	79				Boring terminated at 79 feet below ground surface
					80				
					81				
					82				
					83				
					84				
					85				
					86				
					87				
					88				

Field location of boring:

(See Plate 2)

Project No.:	7632	Date: 08/09/89	Boring No: S-10
Client:	Shell Oil Company		
Location:	3790 Hopyard Road		
City:	Pleasanton, California		Sheet 1 of 2
Logged by:	J. Vargas	Driller: Bayland	

Drilling method: Hollow-Stem Auger

Hole diameter: 8-inches

Casing installation data: See Well Construction Detail

Top of Box Elevation: Datum:

Water Level	12.93			
Time				
Date	08/11/89			

PID (ppm)	Blows/ft. or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
				0				
				1				PAVEMENT SECTION - 2 feet
				2				
				3				GRAVEL with SAND (GP) - olive gray (5Y 4/2), loose, damp; 60% gravel; 30-40% sand; 5% clay.
				4				
	250	S&H		5				
	150	push						
NS	150			6				
				7				CLAY with SILT (CL) - very dark gray (5Y 3/1), medium stiff, damp; 70% clay; 20% silt; 10% sand; medium plasticity; no chemical odor.
				8				
				9				
	150	S&H		10				gravel and sand stringers; no chemical odor.
	150	push						
NS	150			11				
				12				
				13				
				14				
	2	S&H		15				stiff; roots; black organics; mottled brown; no chemical odor.
	3							
0	5		S-10-15	16				
				17				
				18				
				19				

Remarks: NS = no sample

GeoStrategies Inc.

Log of Boring

BORING NO. S-10

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7632	CMP CEG 1262	08/89		

Field location of boring:

(See Plate 2)

Project No.: 7632	Date: 08/09/89	Boring No: S-10	
Client: Shell Oil Company			
Location: 3790 Hopyard Road			
City: Pleasanton, California		Sheet 2 of 2	
Logged by: J. Vargas	Driller: Bayland		

Drilling method: Hollow-Stem Auger

Hole diameter: 8-inches

Casing installation data: See Well Construction Detail

Top of Box Elevation: Datum:

Water Level			
Time			
Date			

PID (ppm)	Blows/ft. or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
	2	S&H		20				
	4							
0	7		S-10-20					
				21				
				22				
				23				
				24		▽		saturated at 24 feet; interbedded lamina of fine sand;
	3	S&H						trace coarse sand; no chemical odor.
	5			25				
0	8		S-10-25					
				26				
				27				
				28				
				29				
	4	S&H						damp; no chemical odor.
	5			30				
0	7		S-10-30					
				31				
				32				
				33				CLAY with SILT (CL) - dark gray (5Y 4/1), stiff, damp;
								80% clay; 20% silt; high plasticity; brown oxidation
				34				stains; no chemical odor.
	5	S&H						
	5			35				
0	7		S-10-35					
				36				Bottom of boring at 35.5 feet.
								Bottom of sample at 35.5 feet.
				37				08/09/89
				38				
				39				

Remarks:

GSI GeoStrategies Inc.

Log of Boring

BORING NO. S-10

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7632	CWP CEG 1262	08/89		

Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	S-11
JOB/SITE NAME	Shell-branded service station	**DRILLING STARTED**	26-Aug-02
LOCATION	3790 Hopyard Road, Pleasanton, California	**DRILLING COMPLETED**	26-Aug-02
PROJECT NUMBER	244-0497	**WELL DEVELOPMENT DATE (YIELD)**	23-Sep-02
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	328.04
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	327.48 ft
BORING DIAMETER	8"	**SCREENED INTERVAL**	10 to 25 ft bgs
LOGGED BY	S. Dalie	**DEPTH TO WATER (First Encountered)**	25.0 ft (26-Aug-02)
REVIEWED BY	M. Derby, PE# 55475	**DEPTH TO WATER (Static)**	16.9 ft (23-Sep-02)
REMARKS	Hand augered to 5' bgs. Located in East side of Hopyard Road, south of well S-10.		

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
								ASPHALT	0.5
								FILL; Sandy GRAVEL; gray; moist.	
					5				5.0
	<1.0		S-11-5.5					**CLAY**; (CL); black; dry; 95% clay, 5% silt; high plasticity.	
								@ 6.0 fbg - olive gray; 80% clay, 5% silt, 5% sand, 10% gravel; medium plasticity.	
					10				
	<1.0		S-11-10.5					@ 10.0 fbg - dark gray; damp; 80% clay, 20% silt.	
					15	CL			
	<1.0		S-11-15.5					@ 15.0 fbg - black; 90% clay, 10% silt.	
					20				
	<1.0		S-11-20.5						
	<1.0		S-11-24.5		25				25.0

WELL DIAGRAM

- Portland Type I/II
- Bentonite Seal
- Monterey Sand #2/12
- 2"-diam., 0.010" Slotted Schedule 40 PVC
- Bottom of Boring @ 25 ft

WELL LOG (PID/TPHG) G:\PLEASANTON 3790 HOPYARD\GINT\PLE3790.GPJ DEFAULT.GDT 3/5/03

Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	S-12
JOB/SITE NAME	Shell-branded service station	**DRILLING STARTED**	19-Sep-02
LOCATION	3790 Hopyard Road, Pleasanton, California	**DRILLING COMPLETED**	19-Sep-02
PROJECT NUMBER	244-0497	**WELL DEVELOPMENT DATE (YIELD)**	23-Sep-02
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	323.20
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	322.76 ft
BORING DIAMETER	8"	**SCREENED INTERVAL**	10 to 25 ft bgs
LOGGED BY	J.Gerke	**DEPTH TO WATER (First Encountered)**	23.0 ft (19-Sep-02) ▽
REVIEWED BY	M. Derby, PE# 55475	**DEPTH TO WATER (Static)**	14.7 ft (23-Sep-02) ▼
REMARKS	Hand augered to 5' bgs. Located in north side of the Arroyo Mocho Canal Creek bank, east of Hopyard Road.		

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								FILL; Sandy CLAY with gravel; light brown; damp.	1.0	
								Silty CLAY; (CL); brown; damp; 55% clay, 35% silt, 10% fine grained sand, high plasticity.		
					5					Portland Type I/II
	<1.0		S-12-5.5					@ 5.0 fbg - dark brown; 75% clay, 25% silt.		Bentonite Seal
										Monterey Sand #2/12
	<1.0		S-12-10.5		10			@ 10.0 fbg - 65% clay, 35% silt; medium plasticity.		
						CL				
					15					
	<1.0		S-12-15.5					@ 15.0 fbg - olive gray; 75% clay, 25% silt.		2"-diam., 0.010" Slotted Schedule 40 PVC
					20					
	<1.0		S-12-20.5					@ 20.0 fbg - 80% clay, 20% silt.		
	<1.0		S-12-24.5		25				25.0	Bottom of Boring @ 25 ft

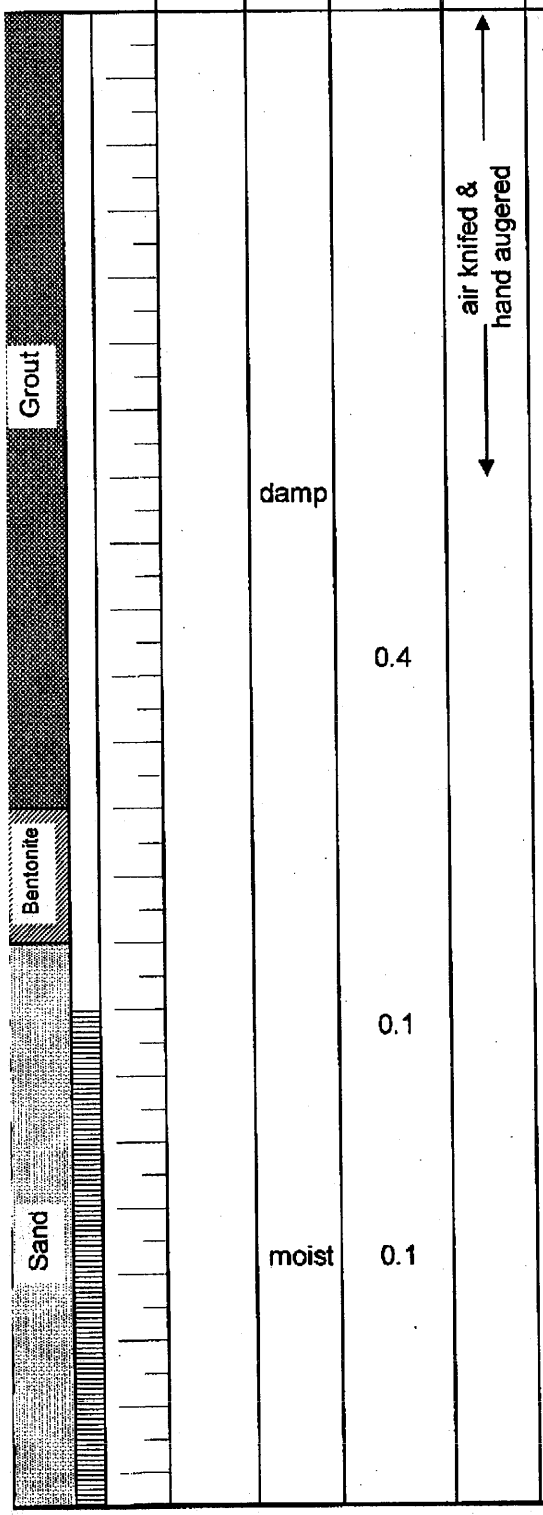
WELL LOG (PID/TPHG) G:\PLEASANTON 3790 HOPYARD\GINT\PLE3790.GPJ DEFAULT.GDT 3/5/03

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-14
Logged By:	Heather Buckingham	Location:	Trailgate # 7 & 8	Page 1 of 2
Driller:	Gregg	Date Drilled:	10/28/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	Geoprobe	Hole Depth:	25 feet	
Casing Type:	PVC	Well Diameter:	4 inch	
Slot Size:	0.01	Well Depth:	25 feet	
Gravel Pack:	#2/12	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map



Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
			air knifed & hand augered	1				
				2			CL	**Lean CLAY with Gravel**: dark brown, 15-25% gravel (up to 10mm b-axis), trace medium grained sands, medium plasticity
				3				
				4				
				5				**Lean CLAY**: dark brown, 10-20% medium grained sand, medium plasticity
				6				
	damp			7			CL	**Lean CLAY**: brown with orangish brown mottling, ~10% fine grained sand, medium to high plasticity
				8				
				9				
		0.4		10				(same as above, 10-20% organics)
				11				(same as above, root holes)
				12				
				13				
				14				
		0.1		15				
				16				
				17				
				18				
	moist	0.1		19			CL	**Lean CLAY with Sand**: dark grey mottled with tan, 15-25% medium to fine grained sand, moderate to high plasticity
				20				
				21				
				22				

Delta
Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-14
Logged By:	Heather Buckingham	Location:	Trailgate # 7 & 8	Page 2 of 2
Driller:	Gregg	Date Drilled:	10/28/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	Geoprobe	Hole Depth:	25 feet	
Casing Type:	PVC	Well Diameter:	4 inch	
Slot Size:	0.01	Well Depth:	25 feet	
Gravel Pack:	#2/12	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

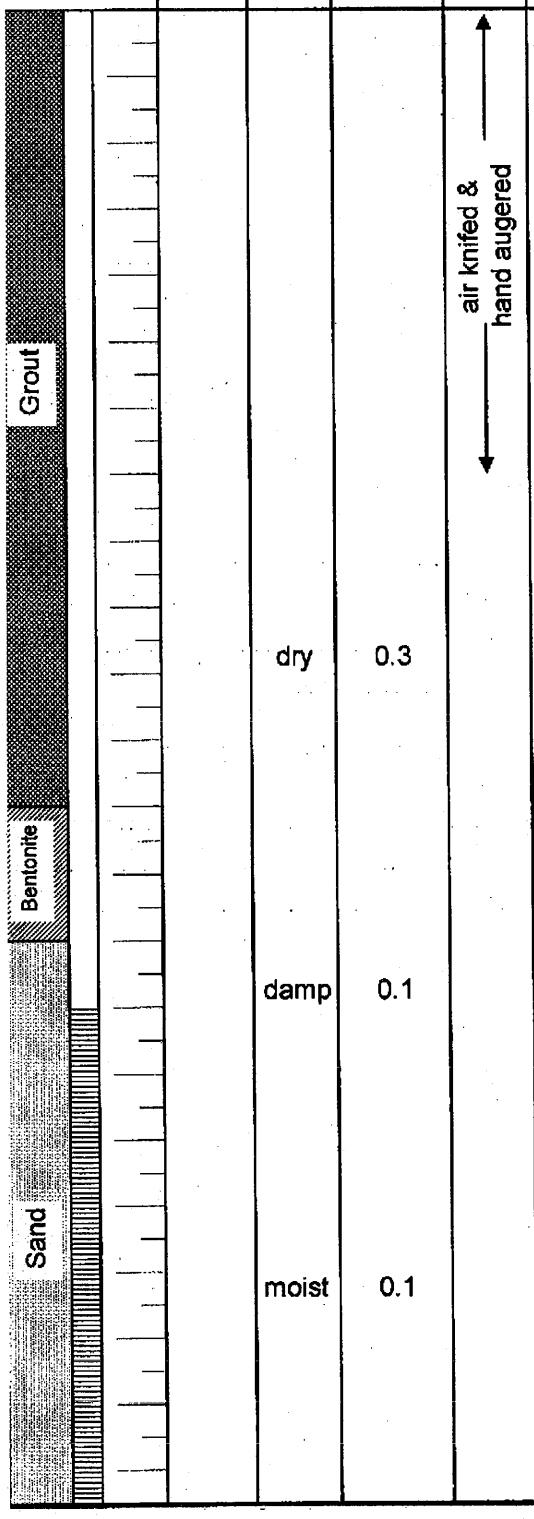
Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand	▼	moist	0.4		23			CL	**Sandy Lean CLAY**: light grey, 25-35% fine grained sand, medium to high plasticity
					24				
					25				Boring terminated at 25 feet below ground surface
					26				
					27				
					28				
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

Delta

Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-15	
Logged By:	Heather Buckingham	Location:	trailgate #7 and #8	Page 1 of 2	
Driller:	Gregg	Date Drilled:	10/28/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	10 inch	Please see site map	
Sampling Method:	Geoprobe	Hole Depth:	25 feet		
Casing Type:	PVC	Well Diameter:	4 inch		
Slot Size:	0.01	Well Depth:	25 feet		
Gravel Pack:	#2/12	Casing Stickup:	NA		
Elevation		Northing		Easting	



Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
			air knifed & hand augered	1				
				2			SC	**Clayey SAND**: light brown, loosley packed. 70-80% medium to fine grained sand, 5-10% gravels up to 15mm b-axis, 10-25% fines, no plasticity
				3				
				4				
				5				slightly less gravel
				6				
				7				
				8				
				9				
	dry	0.3		10			CL	**Lean CLAY**: dark brown mottled with orangish brown, moderate to high plasticity
				11				
				12				
				13				
				14				
	damp	0.1		15				
				16				
				17				
				18			CL	**Lean CLAY**: same as above, dark brown mottled with medium grey
				19				
	moist	0.1		20				
				21				**Lean CLAY with Sand**: dark brown mottled with light brown, 10-25% fine grained sand, moderate plasticity
				22			CL	

Delta

Environmental Consultants, Inc.

Project No:	SJ37-90H-1	Client:	Shell Oil Products US	Well No: S-15
Logged By:	Heather Buckingham	Location:	trailgate #7 and #8	Page 2 of 2
Driller:	Gregg	Date Drilled:	10/28/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	Geoprobe	Hole Depth:	25 feet	
Casing Type:	PVC	Well Diameter:	4 inch	
Slot Size:	0.01	Well Depth:	25 feet	
Gravel Pack:	#2/12	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand			0.1		23–25				Boring terminated at 25 feet below ground surface
					26–44				

(See Plate 2)

Project No.: 7632	Date: 08/09/89	Boring No.: [redacted]	
Client: Shell Oil Company			
Location: 3790 Hopyard Road			
City: Pleasanton, California		Sheet 1 of 2	
Logged by: J. Vargas	Driller: Bayland		

Drilling method: Hollow-Stem Auger
Hole diameter: 12-inches
Casing installation data: See Well Construction Detail
Top of Box Elevation: Datum:

Water Level			
Time			
Date			

PID (ppm)	Blows/ft. or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
				0				
				1				PAVEMENT SECTION - 1.0 foot
				2				CLAY with SILT (CL) - dark olive gray (5Y 3/2), stiff, damp; medium plasticity; 20% silt; 10-15% fine to coarse sand; trace organics, trace fine gravel, mottled brown; green staining; no chemical odor.
				3				
				4				
	250	S&H		5				COLOR CHANGE to black (5Y 2.5/1) at 4.5 feet.
	250	push						
0	400		SR-1-5					CLAYEY SAND (SC) - dark gray (5Y 4/1), medium dense, damp; 60% fine sand; 40% clay; no chemical odor.
				6				CLAY with SILT (CL) - black (5Y 2.5/1), very stiff, damp; medium plasticity; 80% clay; 20% silt; no chemical odor.
				7				
				8				
				9				COLOR CHANGE to olive (5Y 4/4) at 9.0 feet.
	400	S&H	SR-1-9					COLOR CHANGE to black (5Y 2.5) at 9.5 feet; no chemical odor.
	400	push		10				
NS	450							
				11				
				12				
				13				
				14				
	3	S&H						
	5			15				stiff; no chemical odor.
0	10		SR-1-15					
				16				
				17				
				18				

Remarks: Drilled with 8-inch Hollow-Stem Augers on 08/09/89.
Completed on 9/20/89 with 12-inch Hollow-Stem Augers.

GSI GeoStrategies Inc.

Log of Boring

BORING NO. SR-1

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7632	CWD CEG 12/92	08/89		

Field location of boring:

(See Plate 2)

Project No.: 7632	Date: 08/09/89	Boring No: SR-1	
Client: Shell Oil Company			
Location: 3790 Hopyard Road			
City: Pleasanton, California		Sheet 2 of 2	
Logged by: J. Vargas	Driller: Bayland		

Drilling method: Hollow-Stem Auger

Hole diameter: 12-inches

Casing installation data: See Well Construction Detail

Top of Box Elevation: Datum:

Water Level				
Time				
Date				

PID (ppm)	Blow/ft. or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
	3	S&H		20				SANDY CLAY (CL) - olive gray (5Y 4/2), stiff, saturated; medium plasticity; 60% clay; 40% sand; brown-gray mottling; roots; moderate chemical odor.
	5							
13.6	8		SR-1-20					
				21				
				22				
				23				
				24				
	0	S&H		25				CLAY with SILT (CL) - black (5Y 2.5/1), soft, damp, medium plasticity; 10-20% silt; trace organics; roots; burrows; no chemical odor.
	1							
0	4		SR-1-25					
				26				
				27				moist clay to sand interbed at 24 feet.
				28				
				29				
	4	S&H		30				stiff; saturated sandy lamina at 29.5 feet. Increased sand, mottled; no chemical odor.
	4							
0	6		SR-1-30					
				31				
				32				
				33				
				34				
	3	S&H		35				saturated at 34.5 to 35 feet; no chemical odor.
	5							
0	7		SR-1-35					
				36				
				37				Bottom of boring at 35.5 feet.
								Bottom of sample at 35.5 feet.
				38				09/20/89
				39				

Remarks:

GeoStrategies Inc.

Log of Boring

BORING NO. SR-1

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7632	CEG 1262	08/89		

Field location of boring: (See Plate 2)	Project No.: 7632	Date: 09/20/89	Boring No: [redacted]
	Client: Shell Oil Company		
	Location: 3970 Hopyard Road		
	City: Pleasanton, California		Sheet 2 of 2
	Logged by: D. Ferreira	Driller: Bayland	
Drilling method: Hollow-Stem Auger	Casing installation data: See Well Construction Detail		
Hole diameter: 12-inches	Top of Box Elevation:	Datum:	
	Water Level		
	Time		
	Date		

PID (ppm)	Blows/ft. or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
	3	S&H		20				COLOR CHANGE to dark gray (2.5Y N4/), stiff,
	4							saturated, low plasticity; trace very fine sand; trace silt;
81	5		SR-2-20					trace organics; weak sulfur odor.
				21				
				22				
				23				
				24				
	2	S&H						COLOR CHANGE to very dark gray (5Y 3/1), moist, low
	5			25				plasticity; trace very fine sand; trace silt; trace organics;
73	6		SR-2-25					trace wood fragments; rootholes filled with silty clay;
				26				weak sulfer odor
				27				
				28				
				29				
	3	S&H						CLAY (CH) - dark gray (5Y4/1) - stiff, moist, high
	6			30				plasticity; trace very fine to fine sand; trace silt; trace
45	9		SR-2-30					organics; oxidation filling rootholes; moderate sulfur
				31				odor.
				32				
				33				
				34				
	6	S&H						moderate to high plasticity.
	6			35				
4	9		SR-2-35					Bottom of boring at 35.5 feet.
				36				Bottom of sample at 35.5 feet.
								09/20/89
				37				
				38				
				39				

Remarks:

GeoStrategies Inc.

Log of Boring

BORING NO. SR-2

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7632	[illegible] CEG 11262	09/89		

Field location of boring: (See Plate 2)	Project No.: 7632	Date: 09/20/89	Boring No.: SR-2
	Client: Shell Oil Company		
	Location: 3970 Hopyard Road		
	City: Pleasanton, California		Sheet 1 of 2
	Logged by: D. Ferreira	Driller: Bayland	
Drilling method: Hollow-Stem Auger	Casing installation data: See Well Construction Detail		
Hole diameter: 12-inches	Top of Box Elevation:	Datum:	
	Water Level		
	Time		
	Date		

PID (ppm)	Blows/ft. or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
				0				
				1				PAVEMENT SECTION - 0.6 feet
				2				
				3				CLAY with GRAVEL (CL) - brown (10YR 5/4), stiff, damp, low plasticity; 15% gravel; 10% sand; no chemical odor.
				4				SANDY CLAY (CL) - dark gray (5Y 4/1), stiff, damp, low plasticity; increasing sand to 30%; no chemical odor.
	100	S&H						
	100	push		5				
0	100		SR-2-5					
				6				CLAY (CL) - very dark gray (5Y 3/1), medium stiff, damp, low plasticity; 5% fine sand; 5% silt; trace organics; trace pebbles; roots; weak chemical odor.
				7				
				8				
				9				
	150	S&H						
	150	push		10				COLOR CHANGE to dark gray (5Y 4/1); medium plasticity; no chemical odor.
5	150		SR-2-10					
				11				
				12				
				13				
				14				
	0	S&H						
	2			15				COLOR CHANGE to very dark gray (5Y 3/1), low plasticity; 10% silt; weak chemical odor.
12	4		SR-2-15					
				16				
				17				
				18				
				19		▽		

Remarks: Boring drilled with 8-inch Hollow-Stem Augers 09/20/89.
Completed 09/20/89 with 12-inch Hollow-Stem Augers.

GSI GeoStrategies Inc.

Log of Boring

BORING NO. SR-2

JOB NUMBER	REVIEWED BY PG/CEG	DATE	REVISED DATE	REVISED DATE
7632	CWP CEG 1262	08/89		

Field location of boring:	Project No.: 7632	Date: 09/19/89	Boring No:
(See Plate 2)	Client: Shell Oil Company		SR-3
	Location: 3970 Hopyard Road		Sheet 2
	City: Pleasanton, California		of 2
	Logged by: D. Ferreira	Driller: Bayland	
Drilling method: Hollow-Stem Auger	Casing installation data: See Well Construction Detail		
Hole diameter: 12-inches	Top of Box Elevation:	Datum:	

	Water Level			
	Time			
	Date			

PID (ppm)	Blows/ft. or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
	0	S&H						COLOR CHANGE to dark gray (5Y 4/1), medium stiff,
	2			20				saturated; trace fossils; trace calcium nodules; no
235	5		SR3-20					chemical odor.
				21				
				22				
				23				
				24				
	6	S&H		25				stiff, moist, medium plasticity; trace silt; trace organics;
	5							weak H_2S odor.
284	7		SR3-25	26				
				27				
				28				
				29				
	3	S&H		30				COLOR CHANGE to gray (10YR 5/1), damp, medium to
	6							high plasticity, saturated rootholes; small mollusk fossils;
115	6		SR3-30	31				red oxidation at 30 feet; no chemical odor.
				32				
				33				
				34				
	4	S&H						
	5			35				CLAY (CH) - dark gray (10YR 4/1), stiff, moist, high
135	7		SR-3-35					plasticity; saturated rootholes; 10% organic matter; trace
				36				sand; trace silt; trace cobbles; no chemical odor.
				37				Bottom of sample at 35.5 feet.
								Bottom of boring at 35.5 feet.
				38				09/19/89
				39				

Remarks:

GeoStrategies Inc.

Log of Boring

BORING NO. SR-3

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7632	CEG 1262	9/89		

Field location of boring:

(See Plate 2)

Project No.: 7632	Date: 09/19/89	Boring No: SR-3	
Client: Shell Oil Company			
Location: 3970 Hopyard Road			
City: Pleasanton, California		Sheet 1 of 2	
Logged by: D. Ferreira	Driller: Bayland		

Drilling method: Hollow-Stem Auger

Hole diameter: 12-inches

Casing installation data: See Well Construction Detail

Top of Box Elevation: Datum:

Water Level				
Time				
Date				

PID (ppm)	Blows/ft. or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
				0				PAVEMENT SECTION - 0.8 feet
				1				FILL - Clay (CL) - very dark gray (2.5Y N3/), stiff, damp, medium to high plasticity; no chemical odor.
				2				10% gravel; cobbles at 2 feet; trace sand; oxidation stains at 2.5 feet in rootholes.
				3				
				4				
	150	S&H		5				FILL - Gravel (GP) - dark gray (2.5Y N4/), medium dense, saturated (perched zone); asphalt fragments; asphalt odor.
	250	push						
50	150		SR-3-10	6				
				7				
				8				
				9				
	100	S&H		10				CLAY (CL) - very dark gray (5Y 3/1), medium stiff, damp, medium plasticity; trace silt; weak chemical odor.
	100	push						
50	150		SR-3-10	11				
				12				
				13				
				14				
	2	S&H		15				CLAY (CL-CH) - black (2.5Y N2/), stiff, moist, medium to high plasticity; trace silt; slightly mottled; rootholes; moderate H_2S odor.
	3							
220	6		SR-3-15	16				
				17				
				18				
				19	▽			

Remarks: Boring drilled 09/19/89 with 8-inch Hollow-Stem Augers.
Completed on 09/19/89 with 12-inch Hollow-Stem Augers.

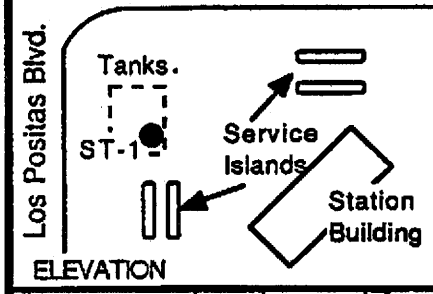
GeoStrategies Inc.

Log of Boring

BORING NO. SR-3

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7632	CEG 1262	08/89		

LOCATION MAP Hopyard Rd.



PACIFIC ENVIRONMENTAL GROUP, INC.

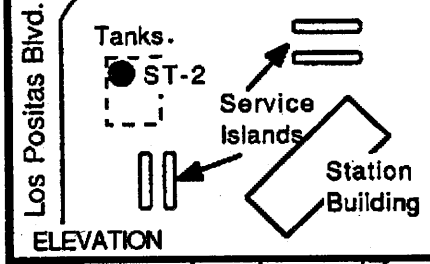
WELL / BORING NO. ST-1
PAGE 1 OF 1

PROJECT NO. 101-08.01
LOGGED BY: E.L.
DRILLING METHOD: HSA
SAMPLING METHOD: CAL. MOD.
CASING TYPE: SHC. #40 PVC
SLOT SIZE: 0.020
GRAVEL PACK: 12 X 20 SAND

CLIENT: G-R/SHELL
DATE DRILLED: 10/28/87
LOCATION: Hopyard & Los Positas
HOLE DIAMETER: 8"
HOLE DEPTH: 14.5'
WELL DEPTH: 14.5'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	TIP	PENETRATION RESISTANCE (BLOW/FT)	DEPTH (feet)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Concrete Over Bentonite / Pea Gravel								CONCRETE FILL
	Dp			2			SW	SAND FILL; gray; 5-10% fines; fine to coarse grained; 20-30% fine gravel; no product odor.
				4	☒			
				6				
	Dp			8				
				10	☒			@ 10'; as above; 5-10% fine gravel; strong product odor; product sheen in sample.
				12				
	Mst	120	5	14	■		CL	CLAY; black; moderate plasticity; trace organics; rootlets; soft; faint product odor.
				16				BOTTOM OF BORING AT 14.5 FEET
				18				
				20				
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

LOCATION MAP Hopyard Rd.



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / BORING NO. ST-2
PAGE 1 OF 1

PROJECT NO. 101-08.01
LOGGED BY: E.L.
DRILLING METHOD: HSA
SAMPLING METHOD: CAL. MOD.
CASING TYPE: SHC. #40 PVC
SLOT SIZE: 0.020
GRAVEL PACK: 12 X 20 SAND

CLIENT: G-R/SHELL
DATE DRILLED: 10/28/87
LOCATION: Hopyard & Los Positas
HOLE DIAMETER: 8"
HOLE DEPTH: 14.5'
WELL DEPTH: 14.5'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	TIP	PENETRATION RESISTANCE (BLOW/FT)	DEPTH (feet)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Concrete Seal								CONCRETE & FILL
Pea Gravel	Mst			2			SC	CLAYEY SAND FILL; gray; 15-20% low plasticity fines; fine to coarse grained; 10-20% fine gravel; faint product odor.
				4				
				6				
				8				
	Mst			10				@ 10'; as above; faint product odor.
				12				
	Mst	1789	7	14			CL	CLAY; black mottled gray; moderate plasticity; 5-10% organics; faint hydrogen sulfide odor; rootlets; medium stiff; faint product odor.
				16				BOTTOM OF BORING AT 14.5 FEET
				18				
				20				
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

LOG OF EXPLORATORY BORING

PROJECT NUMBER 800-02.01 BORING NO. S-A

PROJECT NAME Gettler-Ryan, Shell, W. Las Positas Ave. and Hopyard Rd., Pleasanton PAGE 1 OF 1

BY JDB DATE 1/22/86 SURFACE ELEV. 320±

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION
				0			ASPHALT and GRAVEL - FILL.
						CL	CLAY; very dark grayish brown (2.5Y, 3/2); 5-10% fine to coarse sand; slightly silty; stiff; very moist; no product odor.
				5			@4': dark gray (5Y, 4/1); 10-15% fine to coarse gravel; very stiff; moist; slight product odor.
	2.5	21	▽		1		@7': very stiff; moist to wet; no product odor.
				10			
				15	2		@14': wet; no product odor.
	3.0	24					
							@18½': stiff; wet; no product odor.
	1.25	16		20	3		BOTTOM OF BORING AT 20 FEET.

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

EMKON ASSOCIATES

PLATE A

LOG OF EXPLORATORY BORING

PROJECT NUMBER 800-02.01 BORING NO. S-B

PROJECT NAME Gettler-Ryan, Shell, W. Las Positas Ave. and Hopyard Rd., Pleasanton PAGE 1 OF 1

BY JDB DATE 1/22/86 SURFACE ELEV. 320±

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION
				0			CONCRETE and GRAVEL - FILL.
					SW		SAND - FILL; dark olive gray (5Y, 3/2); fine to coarse grained; dense; moist.
				5	SC 1		CLAYEY SAND - FILL; gray (5Y, 5/1); 15-25% fines; fine to coarse sand; 20-30% fine to medium gravel; moist; very slight gasoline odor.
	1.75	16	▽		CL 2		CLAY; dark gray (5Y, 4/1); slightly silty; stiff; moist to wet; no gasoline odor.
				10			
	1.0	10			3		@11½': stiff; wet; no gasoline odor
							@13': no gasoline odor.
							BOTTOM OF BORING AT 13 FEET.
				15			
				20			

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

EMCON ASSOCIATES

PLATE B

LOG OF EXPLORATORY BORING

PROJECT NUMBER 800-02.01 BORING NO. S-C

PROJECT NAME Gettler-Ryan, Shell, W. Las Positas Ave. and Hopyard Rd., Pleasanton PAGE 1 OF 1

BY JDB DATE 1/22/86 SURFACE ELEV. 320±

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION
				0		SW	CONCRETE and GRAVEL - FILL. SAND - FILL; dark gray (5Y, 4/1); fine to coarse sand; 20-30% coarse gravel; loose; moist; no gasoline odor.
		9		5	1		
		12	▽		2		@7': medium dense; wet; strong gasoline odor.
				10		CL	CLAY; dark gray (5Y, 4/1); slightly silty; stiff; wet; no gasoline odor.
	2.0	7			3		BOTTOM OF BORING AT 13 FEET.
				15			
				20			

REMARKS Drilled by 8-inch continuous-flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler. Borehole converted to a temporary monitoring well with the installation of 2-inch PVC screens from 12½ feet to the surface; well backfilled with sand cuttings to ½-foot, concrete to the surface.

emcon ASSOCIATES

PLATE C

LOG OF EXPLORATORY BORING

PROJECT NUMBER 800-02.01 BORING NO. S-D

PROJECT NAME Gettler-Ryan, Shell, W. Las Positas Ave. and Hopyard Rd., Pleasanton PAGE 1 OF 1

BY JDB DATE 1/23/86 SURFACE ELEV. 320±

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION
				0			CONCRETE and GRAVEL - FILL.
						SW	SAND - FILL; dark gray (5Y, 4/1); fine-to coarse-grained; loose; moist; no gasoline odor.
		8		5	1		
					2		@7': moderate gasoline odor.
		14	▽				@9': medium dense; wet; moderate gasoline odor.
				10			
					3		@11½': slight gasoline odor.
							BOTTOM OF BORING AT 13 FEET.
				15			
				20			

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

EMCON ASSOCIATES

PLATE D

LOG OF EXPLORATORY BORING

PROJECT NUMBER 800-02.01 BORING NO. S-E

PROJECT NAME Gettler-Ryan, Shell, W. Las Positas Ave. and Hopyard Rd., Pleasanton PAGE 1 OF 1

BY JDB DATE 1/23/86 SURFACE ELEV. 320±

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/FT.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION
				0			CONCRETE and GRAVEL - FILL.
						SW	SAND - FILL; dark gray (5Y, 4/1); fine to coarse sand; 10-20% fine to coarse gravel; loose; moist; no gasoline odor.
				5	1		
							@7': slight gasoline odor.
		6	▽		2	CL	CLAY; dark gray (5Y, 4/1); slightly silty; stiff; wet; no gasoline odor.
				10			
							@11½': no gasoline odor.
	1.5	12			3		BOTTOM OF BORING AT 13 FEET.
				15			
				20			

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

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PLATE E

Cambria Environmental Technology, Inc.
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BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-1
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	04-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	08-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	NA

REMARKS Sample Tube Moist at 12 fbg; No Groundwater Recharged in Temporary Casing Left Overnight.

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.7	
99	<1.0		SB-1-2.5					**CLAY** (CL); gray; stiff; dry to moist; 75% clay, 20% silt, 5% gravel; low to medium plasticity.		
21	<1.0		SB-1-5.0		5			**CLAY** (CL); gray; stiff; dry to moist; 95% clay, 5% silt; low to medium plasticity.		
19	2.4		SB-1-10.5		10	CL		**CLAY** (CL); dark gray; very stiff; dry; 100% clay; low plasticity.		Portland Type I/II
9	<4.2		SB-1-15.5		15			**CLAY** (CL); dark gray; very stiff; moist; 100% clay; low plasticity.		
147	300		SB-1-19.5		20			**CLAY** (CL); dark gray; hard; dry; 100% clay; low plasticity.		
2									24.2	Bottom of Boring @ 24.2 ft

WELL LOG (PID/TPHG) G:\PLEASA~4\GINT\3790HO~1.GPJ DEFAULT.GDT 2/1/05

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-2
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	04-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	08-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	NA
REMARKS	No Groundwater Recharge		

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.7	
								CLAY (CL); gray; stiff; dry to moist; 80% clay, 20% silt; low plasticity.		
99	<1.0		SB-2-2.5							
21	<1.0		SB-2-5.0		5			**CLAY** (CL); gray; stiff; dry-moist; 85% clay, 15% silt; low to medium plasticity.		
12	<1.0		SB-2-10.0		10	CL		**CLAY** (CL); gray; very stiff; dry; 100% clay; no to low plasticity.		Portland Type I/II
11	<1.0		SB-2-15.0		15			**CLAY** (CL); gray; very stiff; dry; 100% clay; low to medium plasticity.		
194	890		SB-2-19.5		20			**CLAY** (CL); gray; very stiff; dry; 100% clay; low to medium plasticity.		
2	<4.5		SB-2-25.0		25			**CLAY** (CL); gray; very stiff; dry; 100% clay; low plasticity.	26.2	Bottom of Boring @ 26.2 ft

WELL LOG (PID/TPHG) G:\PLEASA~4\GINT\3790HD~1.GPJ DEFAULT.GDT 2/1/05

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-3
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	05-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	08-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	NA
REMARKS	No Groundwater Recharge		

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.6	
682	950		SB-3-2.5					CLAY (CL); gray; stiff; dry-moist; 95% clay, 5% silt; medium plasticity.		
791	270		SB-3-5.0		5			CLAY (CL); gray; stiff; dry-moist; 95% clay, 5% silt; medium plasticity.		
132										
19	11		SB-3-10.0		10	CL		CLAY (CL); gray; stiff; moist; 100% clay; medium plasticity.		Portland Type I/II
119	1.5		SB-3-15.5		15			CLAY (CL); gray; stiff; moist; 100% clay; medium plasticity.		
2	<1.0		SB-3-19.5		20			CLAY (CL); gray with some brown mottling ; stiff; moist; 100% clay; medium plasticity.		
27									22.0	
3						CH		CLAY (CL); gray with some brown mottling; stiff; moist; 100% clay; medium to high plasticity.		
	4.5		SB-3-25.0		25					
18									26.1	Bottom of Boring @ 26.1 ft

WELL LOG (PID/TPHG) G:\PLEASA~4\GINT\3790HO~1.GPJ DEFAULT.GDT 2/1/05

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-4
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	04-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	08-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	NA
REMARKS	No Groundwater Recharge		

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.5	
						SM		Silty SAND (SM); gray; dry; 30% silt, 70% sand; no plasticity.		
353	350		SB-4-2.5						4.0	
					5			CLAY (CL); gray stiff; dry-moist; 70% clay, 30% silt; medium plasticity.		
90	1.3		SB-4-5.0							
56										
5	1.1		SB-4-10.0		10	CL		CLAY (CL); dark gray; very stiff; dry; 100% clay; no to low plasticity;		Portland Type I/II
1	<1.0		SB-4-15.0		15			CLAY (CL); dark gray; very stiff; dry; 100% clay; low plasticity;		
									17.5	
1	<1.0		SB-4-19.5		20	CH		CLAY (CH); dark gray with some brown brown mottling; stiff; dry; 100% clay; medium to high plasticity.		
0	<1.0		SB-4-19		25			CLAY (CH); brownish gray; stiff; dry; 100% clay; medium to high plasticity.	26.2	Bottom of Boring @ 26.2 ft

WELL LOG (PID/TPHG) G:\PLEASA~4\GINT\3790HO~1.GPJ DEFAULT.GDT 2/1/05

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-5
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	04-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	08-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	14.7 ft (08-Oct-04)
REMARKS			

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
								CONCRETE	0.3
4	<1.0		SB-5-2.5			ML		Silty SAND (ML); brown; dry-moist; 5% clay, 30% silt, 60% sand, 5% gravel; no to low plasticity.	4.0
57	1.0		SB-5-5.0		5	CL		CLAY (CL); gray; dry to moist; 70% clay, 25% silt, 5% sand; medium plasticity.	
14	1.6		SB-5-9.5		10			CLAY (CL); dark gray; stiff; dry; 100% clay; low to medium plasticity.	12.0
46	80		SB-5-15.0		15			CLAY (CH); dark gray; stiff; moist; 100% clay; medium to high plasticity.	
7	6.1		SB-5-19.5		20	CH		CLAY (CH); dark gray; stiff; dry to moist; 100% clay; medium to high plasticity.	
			SB-5-25.0		25			CLAY (CH); brown; very stiff.	27.9

WELL DIAGRAM: Portland Type I/II; Bottom of Boring @ 27.8 ft

WELL LOG (PID/TPHG) G:\PLEASA~4\GINT\3790HO~1.GPJ DEFAULT.GDT 2/1/05

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-7
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	05-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	08-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	22.3 ft (08-Oct-04)
REMARKS			

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.6	
7	<1.0		SB-7-2.5			CH		**CLAY** (CH); gray; stiff; dry; 95% clay, 5% silt; medium plasticy.		
7	<1.0		SB-7-5.0		5				7.5	
								CLAY (CL); gray; very stiff; dry; 100% clay; non to low plasticy.		
10	2.8		SB-7-10.0		10					
	11		SB-7-15.0		15	CL		**CLAY** (CL); dark gray; very stiff; dry; 100% clay; low plasticity.		Portland Type I/II
135	15		SB-7-19.5		20			**CLAY** (CL); dark gray; very stiff; dry; 100% clay; low to medium plasticity.		
77										
52										
3.8	1.7		SB-7-25.0		25			**CLAY** (CL); dark gray; very stiff; dry; 100% clay; low to medium plasticity.		
									28.0	Bottom of Boring @ 27.9 ft
										TEST

WELL LOG (PID/TPHG) G:\PLEASA~4\GINT\3790HO~1.GPJ; DEFAULT.GDT 2/1/05

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-8
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	08-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	08-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	4"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	NA

REMARKS Due to Rig Access Difficulties, Boring Was Extended Using Hand Auger; Refusal of Hand Auger at 10 fbg.

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								TOPSOIL brownish gray; 90% clay, 10% sand; low to medium plasticity.		
									3.3	
								CLAY (CL); brownish gray; very stiff; dry; 100% clay; low to medium plasticity.		
0	<1.0		SB-8-5.0		5					Portland Type I/II
4						CL				
5.4	<1.0		SB-8-10.0		10			**CLAY** (CL); brownish gray; very stiff; dry; 100% clay; low to medium plasticity.	11.0	Bottom of Boring @ 11 ft

WELL LOG (PID/TPHG) G:\PLEASA-4\GINT\3790HO~1.GPJ DEFAULT.GDT 2/1/05

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-9
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	05-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	07-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	23.0 ft (07-Oct-04)
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	15.9 ft (07-Oct-04)
REMARKS			

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.6	
								FILL gravels with silt matrix	1.0	
								CLAY with gravel (CL); brownish gray; stiff; dry to moist; 80% clay, 5% silt, 15% gravel; low to medium plasticity.		
1.6	<1.0		SB-9-2.5							
1.7	<1.0		SB-9-5.0		5			**CLAY** (CL); gray; stiff; dry to moist; 95% clay, 5% silt; medium plasticity.		
14	<4.7		SB-9-10.0		10	CL		**CLAY** (CL); gray; stiff; dry to moist; 100% clay; low plasticity.		Portland Type I/II
36	96		SB-9-15.5		15			**CLAY** (CL); gray; stiff; dry to moist; 100% clay; low plasticity.		
6	<4.1		SB-9-21.0		20			**CLAY** (CL); gray; stiff; moist; 100% clay; medium plasticity.	24.0	Bottom of Boring @ 24 ft

WELL LOG (PID/TPHG) G:\PLEASA~4\GINT\3790HO~1.GPJ DEFAULT.GDT 2/1/05

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-11
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	05-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	07-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	NA
REMARKS	No Groundwater Recharge		

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.6	
						ML		**Sandy SILT** (ML); gray; dry; 65% silt, 30% sand, 5% gravels; no plasticity.		
	<1.0		SB-11 -2.5						4.0	
276	220		SB-11 -5.0		5			**CLAY** (CL); gray; stiff; dry to moist; 85% clay, 10% sand; 5% gravel; low to medium plasticity.		
7.9										
8	<1.0		SB-11 -10.0		10			**CLAY** (CL); gray; stiff; dry; 95% clay, 5% silt; low plasticity.		Portland Type I/II
37	<50.0		SB-11 -15.5		15	CL		**CLAY** (CL); gray; stiff; dry; 100% clay; low plasticity.		
116	2.6		SB-11 -20.0		20			**CLAY** (CL); dark gray; stiff; dry; 100% clay; low plasticity.		
10										
103	3.2		SB-11 -25.0		25			**CLAY** (CL); dark gray; stiff; dry; 100% clay; low to medium plasticity.		
									28.1	Bottom of Boring @ 28.1 ft

WELL LOG (PID/TPHG) G:\PLEASA~4\GINT\3790HC~1.GPJ DEFAULT.GDT 2/1/05

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-12
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	06-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	06-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	23.0 ft (06-Oct-04)
REMARKS			

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								CONCRETE	0.6	
								GRAVEL with Sand	1.0	
0	<1.0		SB-12 -2.5			GC		**Sandy GRAVEL with Clay** (GC); brownish gray; loose; dry; 15% clay, 35% sand, 50% gravel, no plasticity.	4.0	
1.4	<1.0		SB-12 -5.0		5			**CLAY** (CL); gray; stiff; dry; 95% clay, 5% gravels; medium plasticity.		
11	<1.0		SB-12 -10.0		10			**CLAY** (CL); gray; very stiff; dry; 100% clay; no to low plasticity.		Portland Type I/II
89	<5.0		SB-12 -15.0		15	CL		**CLAY** (CL); gray; very stiff; dry; 100% clay; no to low plasticity.		
266	430		SB-12 -20.0		20			**CLAY** (CL); gray; very stiff; dry; 100% clay; medium plasticity.		
21	<4.7		SB-12 -24.5		25			**CLAY** (CL); gray; very stiff; dry; 100% clay; medium plasticity.		
110	280		SB-12 -26.0					**CLAY** (CL); gray; very stiff; dry; 100% clay; medium plasticity.	27.0	Bottom of Borin @ 27 ft

WELL LOG (PID/TPHG) G:\PLEASA~4\GINT\3790HO~1.GPJ DEFAULT.GDT 2/1/05

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-13
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	05-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	07-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	18.1 ft (07-Oct-04)
REMARKS	Temporay Well Casing Left Open Overnight For Groundwater Recharge		

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
						CONCRETE	0.6
						CLAY (CL); brownish gray; stiff; dry; 90% clay, 10% silt; medium plasticity.	
2	<1.0		SB-13 -3.0				
	<1.0		SB-13 -5.0	5		CLAY (CL); gray; stiff; 95% clay, 5% gravels; medium plasticity.	
27	3.6		SB-13 -10.0	10	CL	CLAY (CL); dark gray; very stiff; dry; 100% clay; low plasticity.	
17	2.7		SB-13 -15.0	15		CLAY (CL); dark gray; very stiff; dry; 100% clay; low plasticity.	
298 101	<1.0		SB-13 -20.0	20		CLAY (CL); dark gray; very stiff; dry; 100% clay; low plasticity.	24.0

WELL DIAGRAM: Portland Type I/II; Bottom of Boring @ 24 ft

WELL LOG (PID/TPHG) G:\PLEASA~4\GINT\3790HO~1.GPJ DEFAULT.GDT 2/1/05

Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-14
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	05-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	07-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	NA
REMARKS	No Groundwater Recharge		

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
						CONCRETE	0.6	
						CLAY (CL); brown; 70% clay, 20%silt, 5% sand, 5% gravel; medium plasticity.		
2	<1.0		SB-14 -2.5			**CLAY with gravel** (CL); gray; stiff; dry; 90% clay, 10% gravel; medium plasticity.		
	<1.0		SB-14 -5.0	5		**CLAY** (CL); gray; very stiff; dry to moist; 100% clay; no to low plasticity.		
21	1.9		SB-14 -10.0	10	CL	**CLAY** (CL); gray; very stiff; dry to moist; 100% clay; no to low plasticity.		Portland Type I/II
113	8.2		SB-14 -15.0	15		**CLAY** (CL); gray; very stiff; dry to moist; 100% clay; no to low plasticity.		
						CLAY (CL); gray; very stiff; dry to moist; 100% clay; low to medium plasticity.		
144	<50		SB-14 -20.0	20		**CLAY** (CL); gray; very stiff; dry to moist; 100% clay; low to medium plasticity.		
						Light Green Staining	25.0	
5	2.3		SB-14 -25.0	25	CH	**CLAY** (CL); gray; very stiff; dry to moist; 100% clay; medium to high plasticity.	26.5	Bottom of Boring @ 26.5 ft

WELL LOG (PID/TPHG) G:\PLEASA~1\GINT\3790HC~1.GPJ DEFAULT.GDT 2/1/05

Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	**BORING/WELL NAME**	SB-15
JOB/SITE NAME	3790 Hopyard, Pleasanton	**DRILLING STARTED**	05-Oct-04
LOCATION	3790 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	07-Oct-04
PROJECT NUMBER	246-0497	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vironex	**GROUND SURFACE ELEVATION**	
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	Ron Barone	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	Ana Friel	**DEPTH TO WATER (Static)**	NA
REMARKS	No Groundwater Recharge		

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
						SW		CONCRETE	0.5	
						SW		SAND with gravel(SW); brown.	1.0	
								CLAY with gravel(CL); brownish gray; loose; dry; 75% clay, 5% silt, 20% gravel; low plasticity.		
5	<1.0		SB-15 -2.5			CL				
172	5.9		SB-15 -5.0		5			CLAY with gravel(CL); brownish gray; loose; dry; 55% clay, 45% gravel; no plasticity.		
								NO RECOVERY	8.0	
					10				12.0	
						CL		CLAY (CL); dark gray; very stiff; dry; 100% clay; low plasticity.		Portland Type I/II
120	1.2		SB-15 -15.0		15					
260	470		SB-15 -20.0		20			CLAY (CL); dark gray; very stiff; dry; 95% clay, 5% silt; low to medium plasticity.		
								Grey and red staining		
62	<3.1		SB-15 -25.0		25			CLAY (CL); dark gray; very stiff; dry; 95% clay, 5% silt; low to medium plasticity.	26.4	Bottom of Borir @ 26.4 ft

WELL LOG (PID/TPHG) G:\PLEASA~1\GINT\3790HO~1.GPJ DEFAULT.GDT 2/1/05

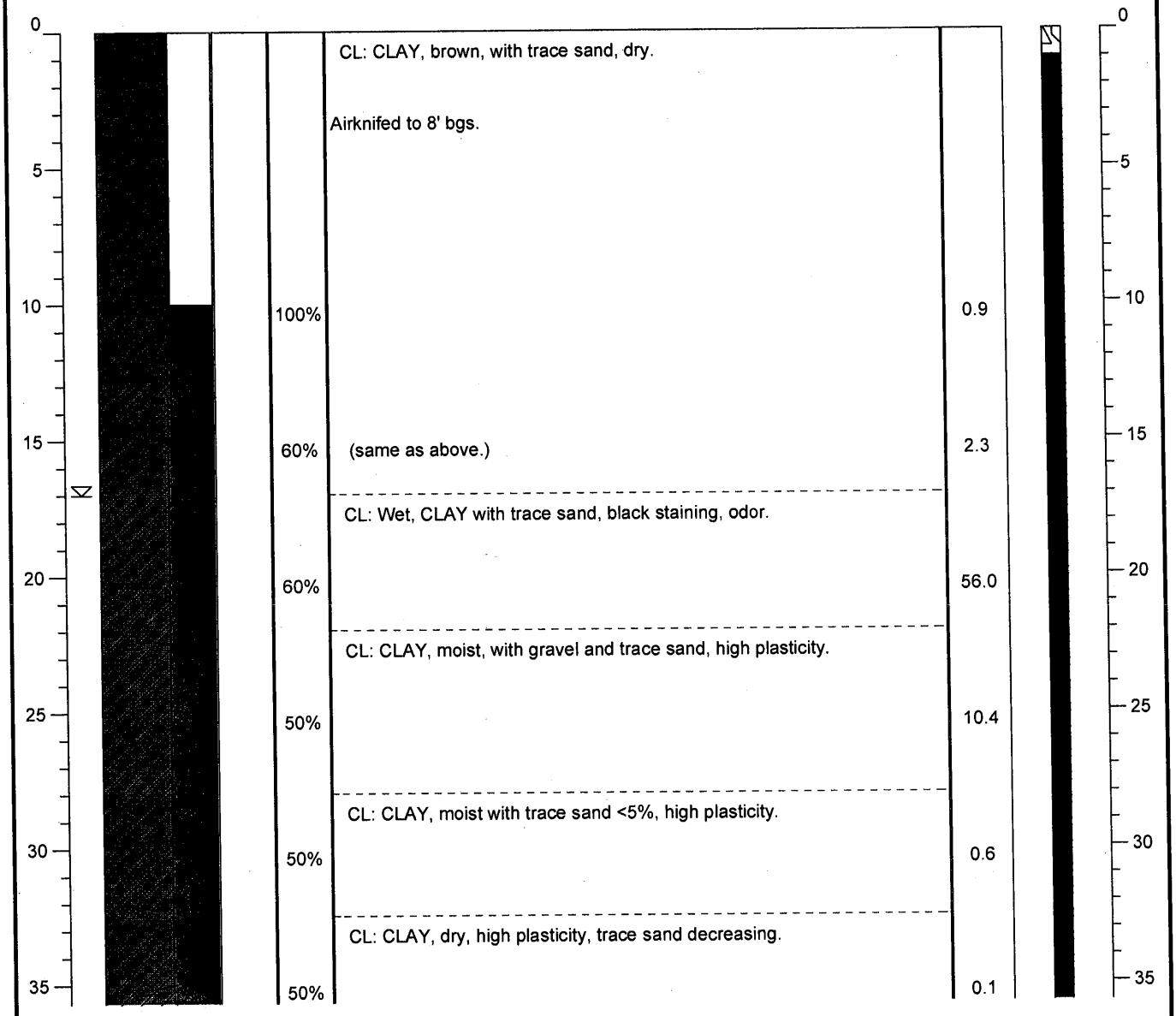
BORING LOG

DELTA Xinogen

Client **Shell Oil Products**
Project Number **SCA3790H1D**

Boring No. SB-17

Address: **3790 Hopyard Road** **Pleasanton, CA** Logged By: **Cora Olson**	Drilling Date(s): **6/8/2010** Drilling Company: **Cascade** Drilling Method: **Direct Push** Boring Depth (ft): **60**	Boring diameter (in.): **2** Sampling Method: **Direct Push** Well Depth (ft.): **NA** Casing Diameter (in.): **NA**	Casing Material: **NA** Screen Interval: **NA** Screen slot size: **NA** Sand Pack: **NA**



BORING LOG

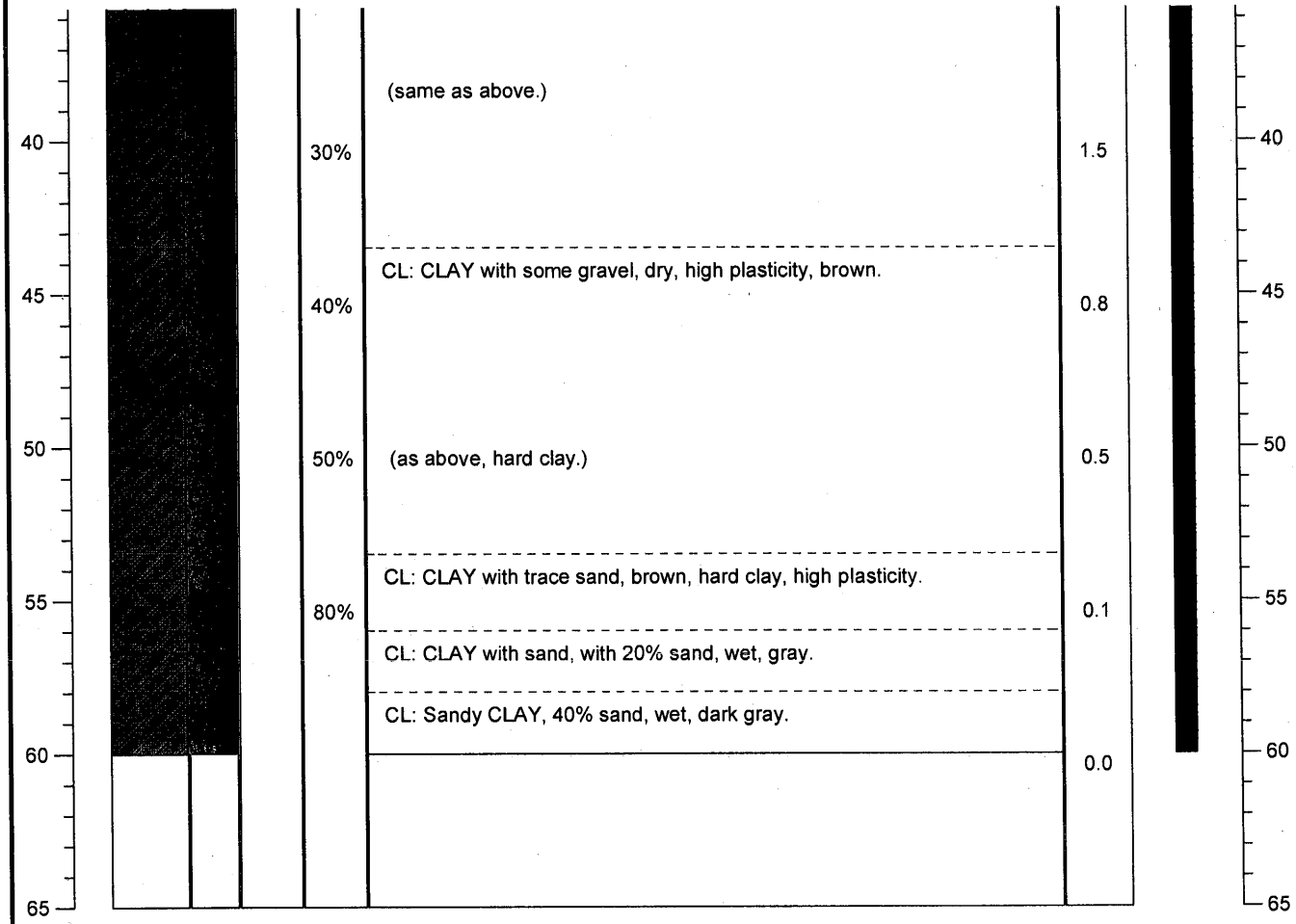
DELTA Xinogen

Client **Shell Oil Products**

Project Number **SCA3790H1D**

Boring No. **SB-17**

Address: **3790 Hopyard Road** **Pleasanton, CA** Logged By: **Cora Olson**	Drilling Date(s): **6/8/2010** Drilling Company: **Cascade** Drilling Method: **Direct Push** Boring Depth (ft): **60**	Boring diameter (in.): **2** Sampling Method: **Direct Push** Well Depth (ft.): **NA** Casing Diameter (in.): **NA**	Casing Material: **NA** Screen Interval: **NA** Screen slot size: **NA** Sand Pack: **NA**



BORING LOG

DELTA Xinogen

Client **Shell Oil Products**
Project Number **SCA3790H1D**

Boring No. SB-18

Address: **3790 Hopyard Road** **Pleasanton, CA** Logged By: **Matt Lambert**	Drilling Date(s): **5/21/2010** Drilling Company: **Cascade** Drilling Method: **Direct Push** Boring Depth (ft): **60**	Boring diameter (in.): **2** Sampling Method: **Direct Push** Well Depth (ft.): **NA** Casing Diameter (in.): **NA**	Casing Material: **NA** Screen Interval: **NA** Screen slot size: **NA** Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
0						SC: Clayey SAND with gravel, dark gray, fine grained, wet.			0
						Airknifed to 8' bgs on 5/20/2010.			
5									5
							0.7		
10					100%	CL: CLAY with sand, dark gray, medium plasticity, moist.	24		10
						CL: CLAY, trace sand, dark gray, low to medium plasticity, moist.	25.6		
						(as above, dark gray with light gray patches.)			
15					100%	(as above, dark gray with green patches.)	48.7		15
						(as above, trace sand and gravel dark gray to black.)	10.5		
						(as above, trace sand and gravel dark gray to black.)	150.2		
20					100%	(as above, trace sand and roots, very moist.)	10.2		20
						(as above, greenish gray, trace medium grained sand and roots.)	3.1		
						(as above, black with green and iron oxide mottling.)			
25					100%	GC: Clayey GRAVEL, light brown with black and green, very moist.	3.3		25
						CL: CLAY, trace gravel, trace fine grained sand, dark brown and green, medium plasticity, very moist.	30.8		
						(as above, with trace iron oxide, medium to high plasticity.)			
30					100%	(as above, with trace medium grained sand, wet.)	1.1		30
						(as above, increasing medium to coarse grained sand, wet.)	4.5		
							1.0		
35					100%	CL: CLAY with sand, trace gravel, dark brown with light green, medium			35

BORING LOG

DELTA Xinogen

Client **Shell Oil Products**

Project Number **SCA3790H1D**

Boring No. **SB-18**

Address: **3790 Hopyard Road** **Pleasanton, CA** Logged By: **Matt Lambert**	Drilling Date(s): **5/21/2010** Drilling Company: **Cascade** Drilling Method: **Direct Push** Boring Depth (ft): **60**	Boring diameter (in.): **2** Sampling Method: **Direct Push** Well Depth (ft.): **NA** Casing Diameter (in.): **NA**	Casing Material: **NA** Screen Interval: **NA** Screen slot size: **NA** Sand Pack: **NA**

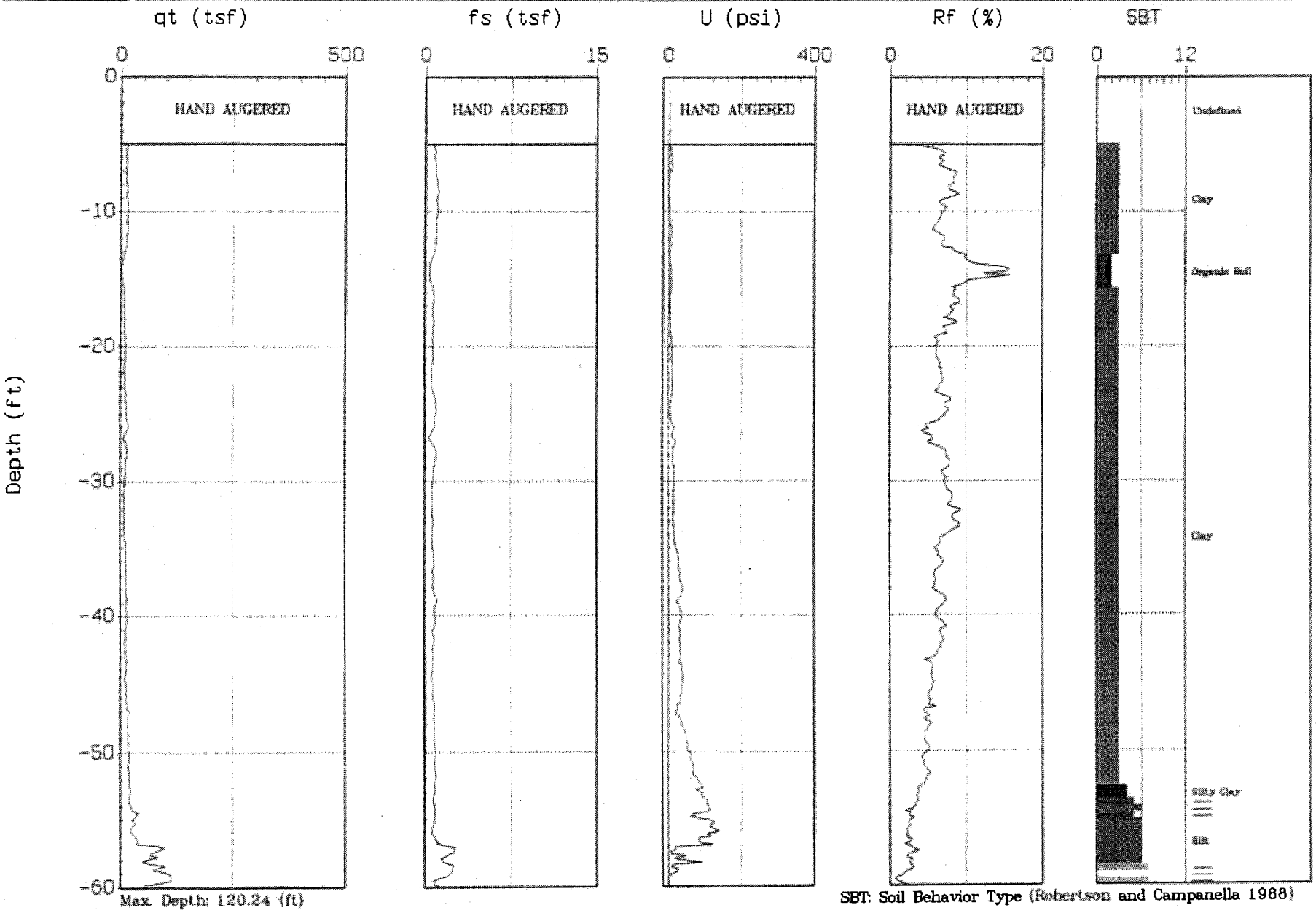
Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
40					100%	to high plasticity, moist. (as above, dark gray, medium high plasticity, wet.) (as above, increasing fine sand, gray with green and black specks.)	20.4 1.4 11.5 2.8 0.3		40
45					100%	CL: CLAY, trace fine sand. (as above, increasing plasticity.)	5.5 1.8		45
50					100%		0.4		50
55					100%	CL: CLAY with sand, light brown, wet. (as above, dark gray increasing, medium grained sand.)	2.5 0.3 1.3		55
60					100%	(as above, light brown and gray.) End of boring at 60' bgs.	1.7 0.3		60
65									65

GREGG

CAMBRIA

Site : SHELL
Location : CPT-01

Geologist : J. GERKE
Date : 07:26:02 09:03



Max. Depth: 120.24 (ft)

Depth Inc.: 0.164 (ft)

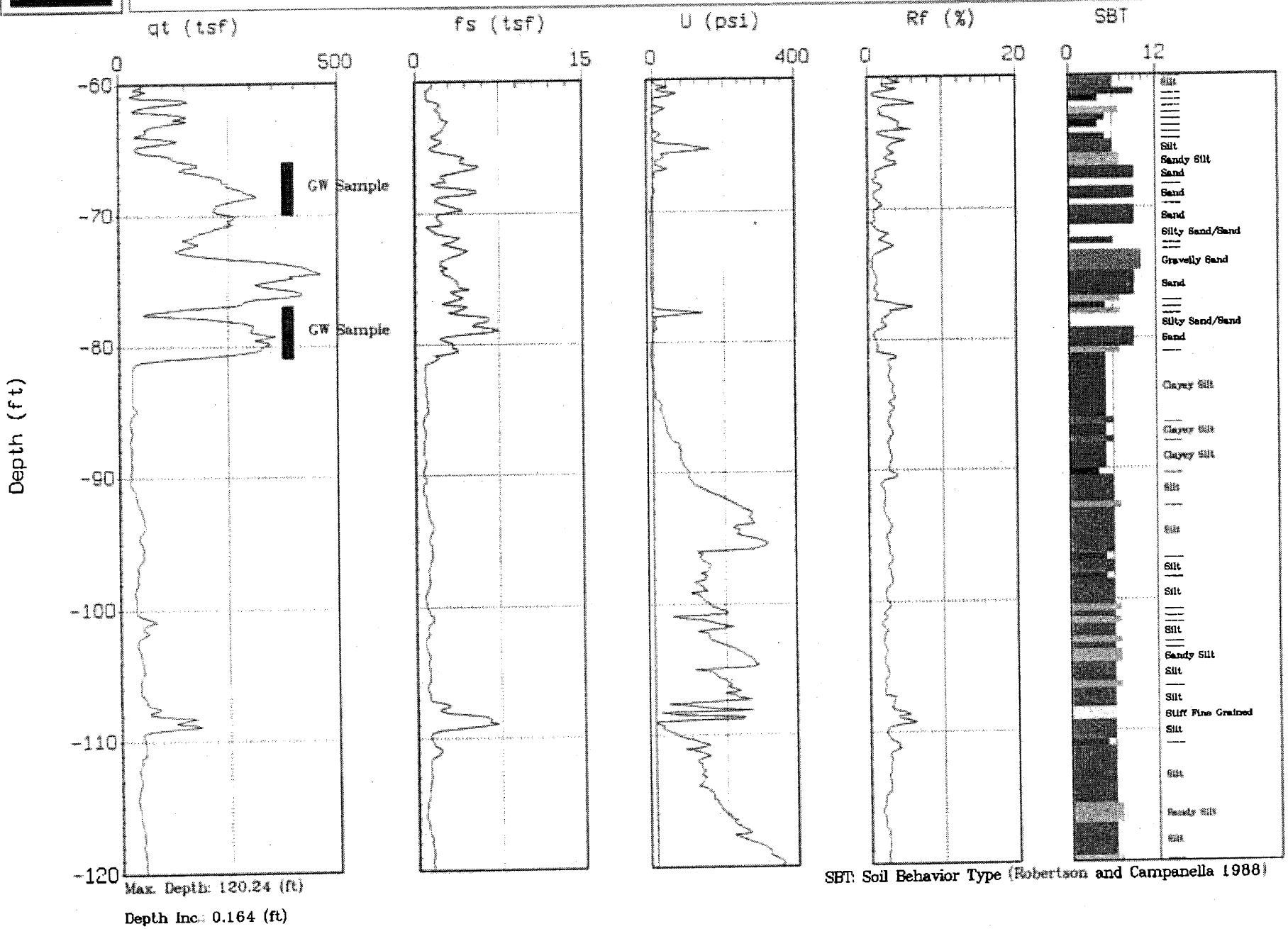
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

CAMBRIA

Site : SHELL
Location : CPT-01

Geologist : J. GERKE
Date : 07:26:02 09:03



Max. Depth: 120.24 (ft)

Depth Inc.: 0.164 (ft)

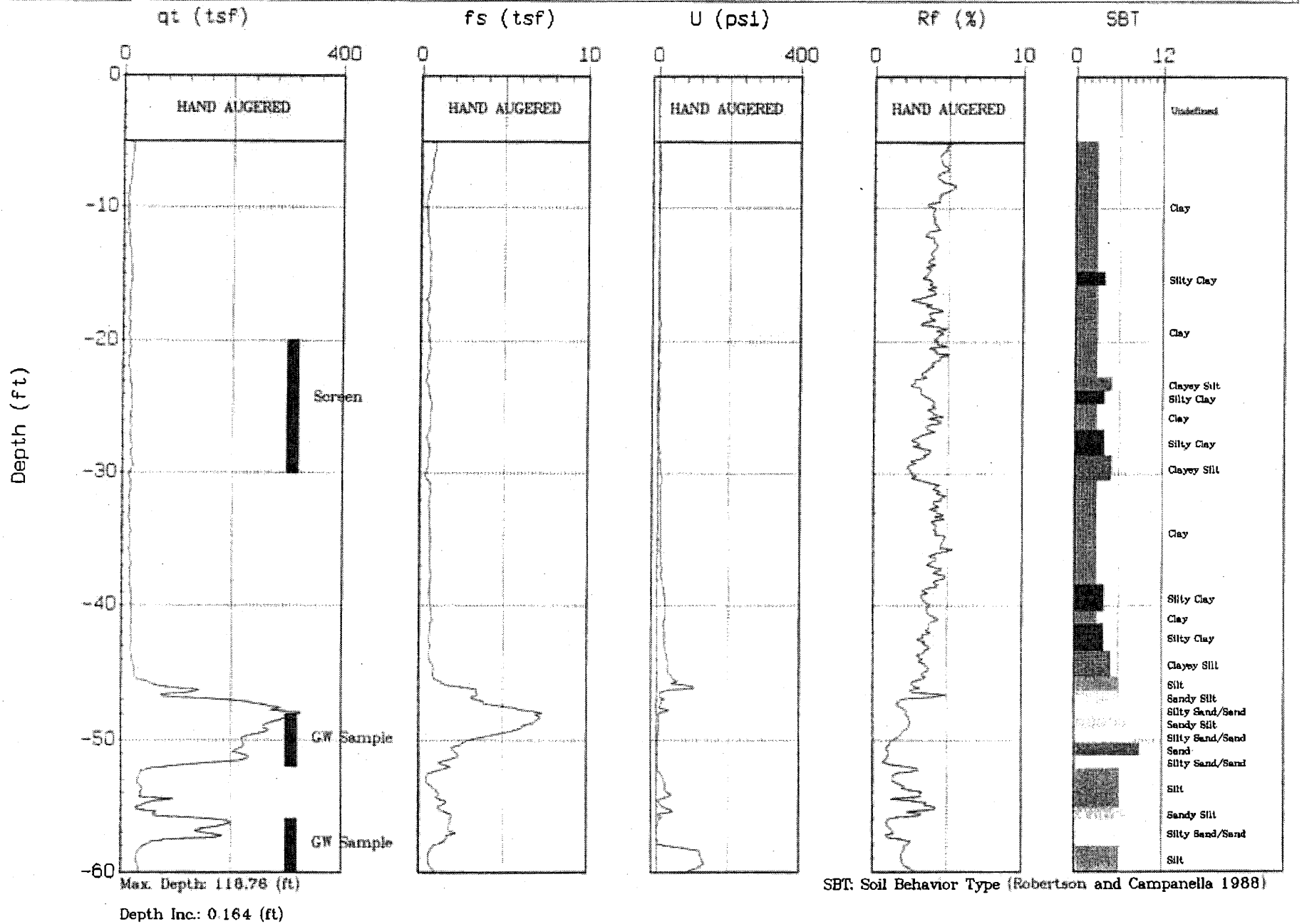
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

CAMBRIA

Site : 3790 HOPYARD
Location : CPT-02

Geologist : S. DALIE
Date : 11:25:02 09:47



Max. Depth: 118.76 (ft)

Depth Inc.: 0.164 (ft)

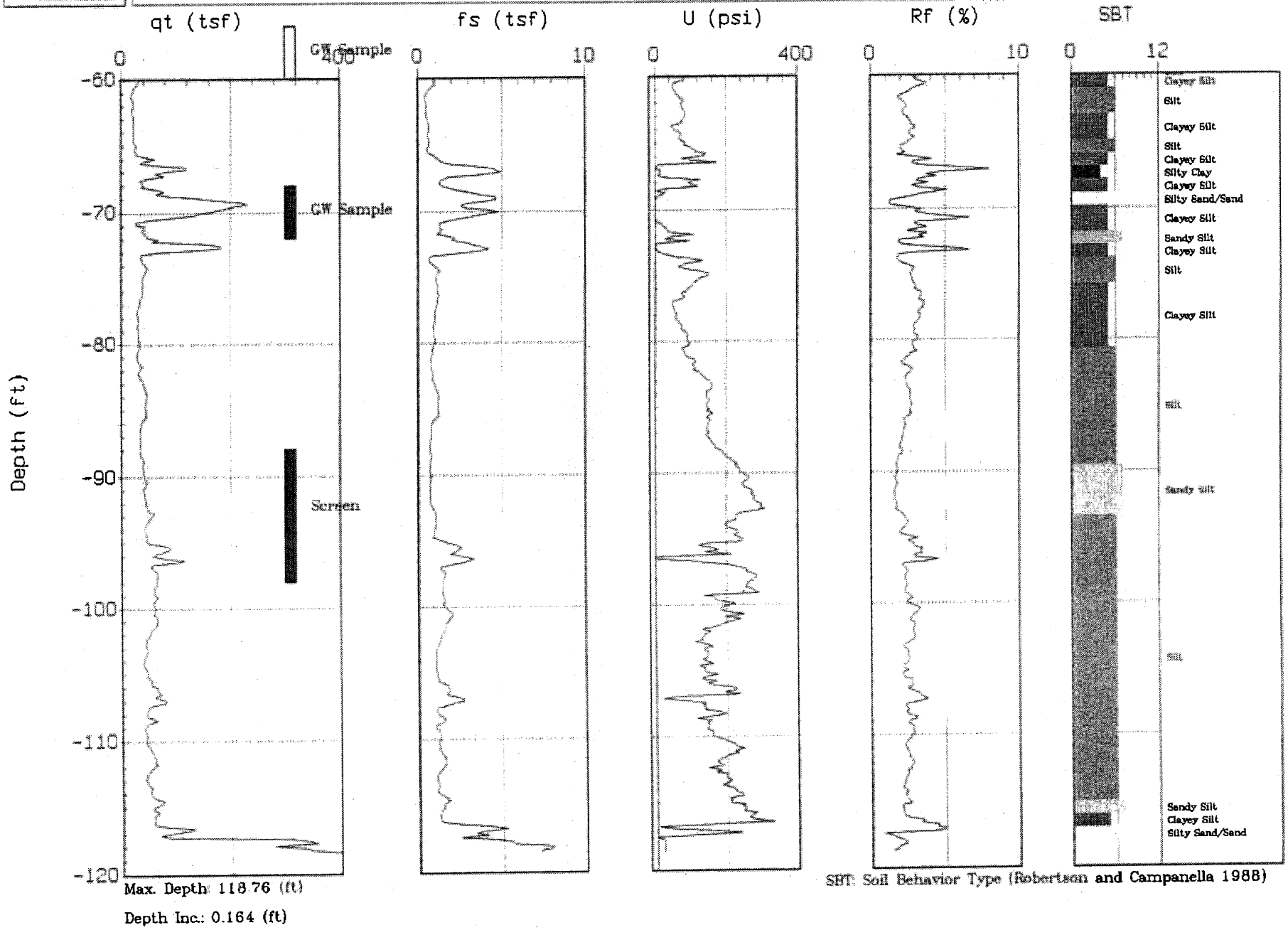
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

CAMBRIA

Site : 3790 HOPYARD
Location : CPT-02

Geologist : S. DALIE
Date : 11:25:02 09:47



Max. Depth: 118.76 (ft)

Depth Inc.: 0.164 (ft)

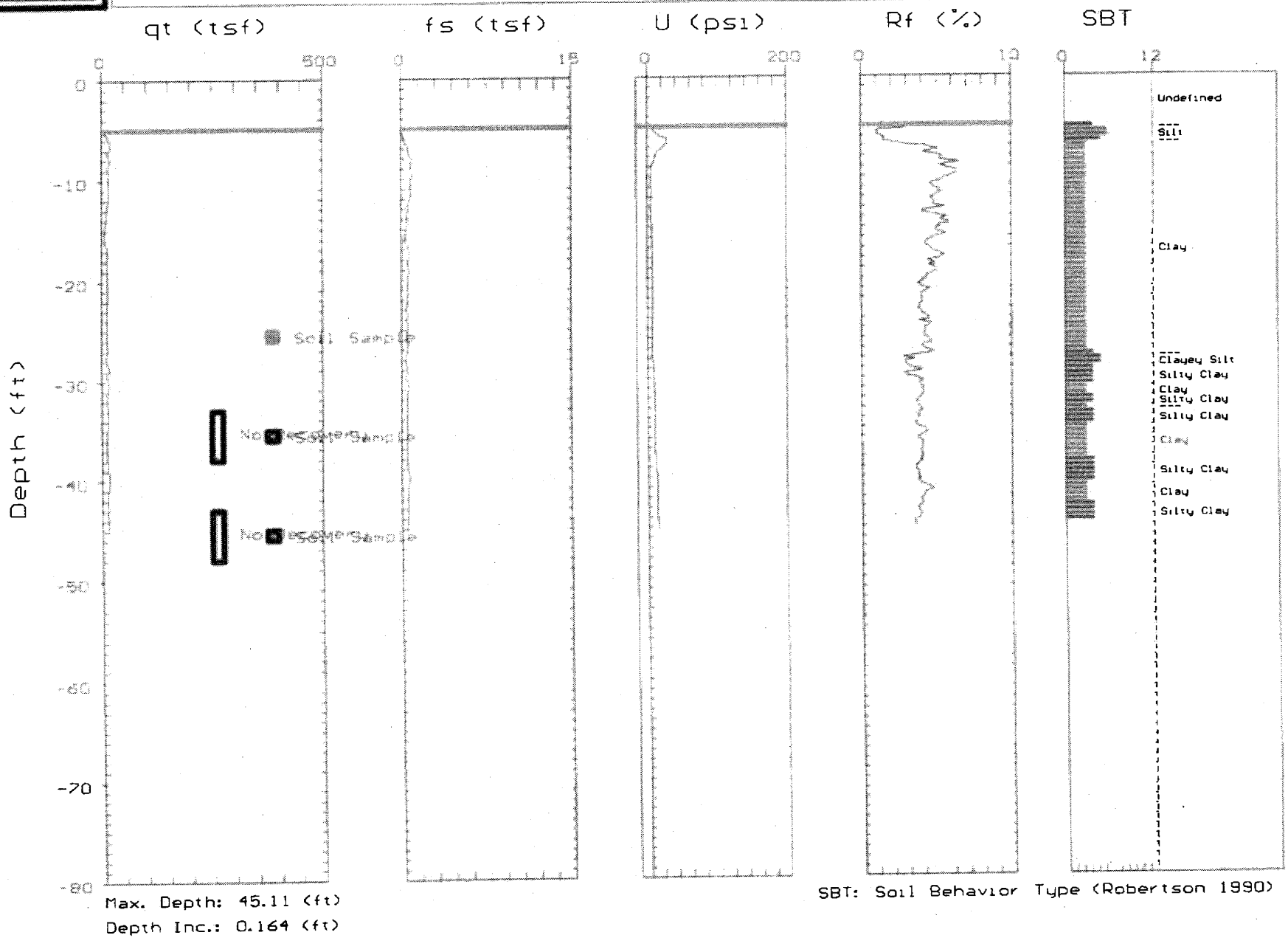
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

DELTA ENVIRONMENTAL

Site: 3790 HOPYARD
Location: CPT-03

Geologist: L. DOOLEY
Date: 02:15:05 09:05



Max. Depth: 45.11 (ft)
Depth Inc.: 0.164 (ft)

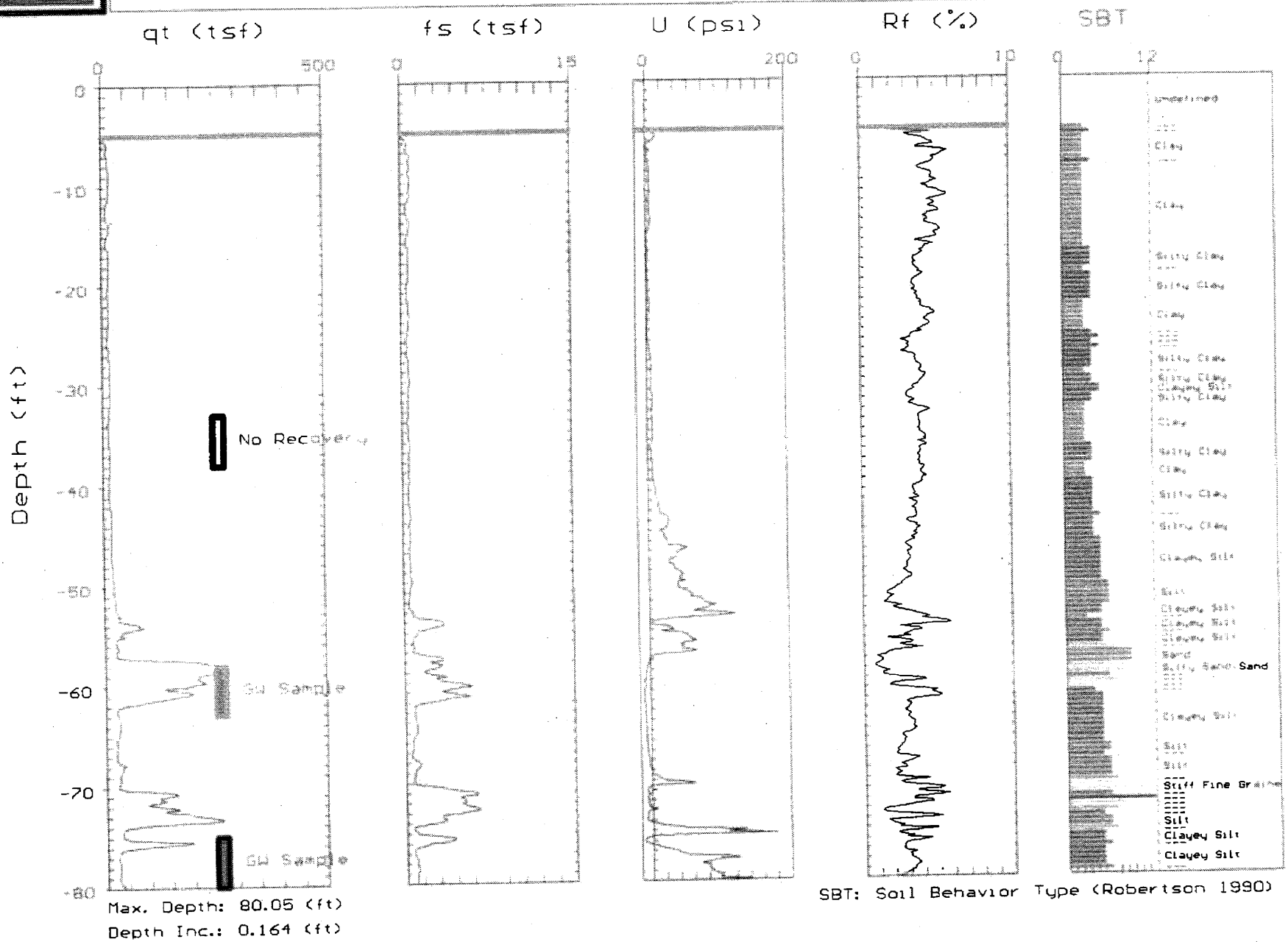
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA ENVIRONMENTAL

Site: 3790 HOPYARD
Location: CPT-04

Geologist: L. DOOLEY
Date: 02:15:05 12:43



Max. Depth: 80.05 (ft)
Depth Inc.: 0.164 (ft)

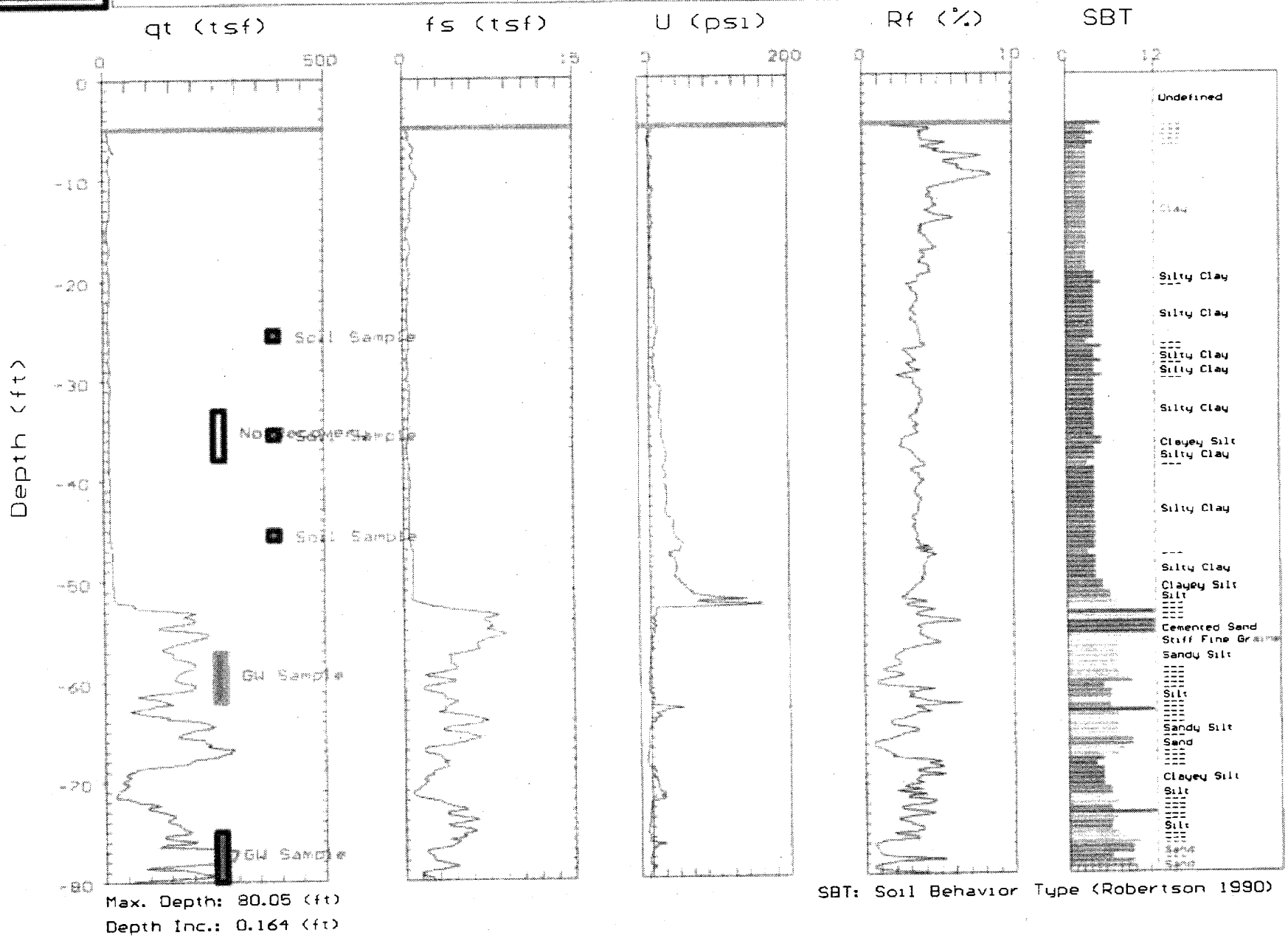
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA ENVIRONMENTAL

Site: 3790 HOPYARD
Location: CPT-05

Geologist: L. DOOLEY
Date: 02:15:05 14:12



Max. Depth: 80.05 (ft)
Depth Inc.: 0.164 (ft)

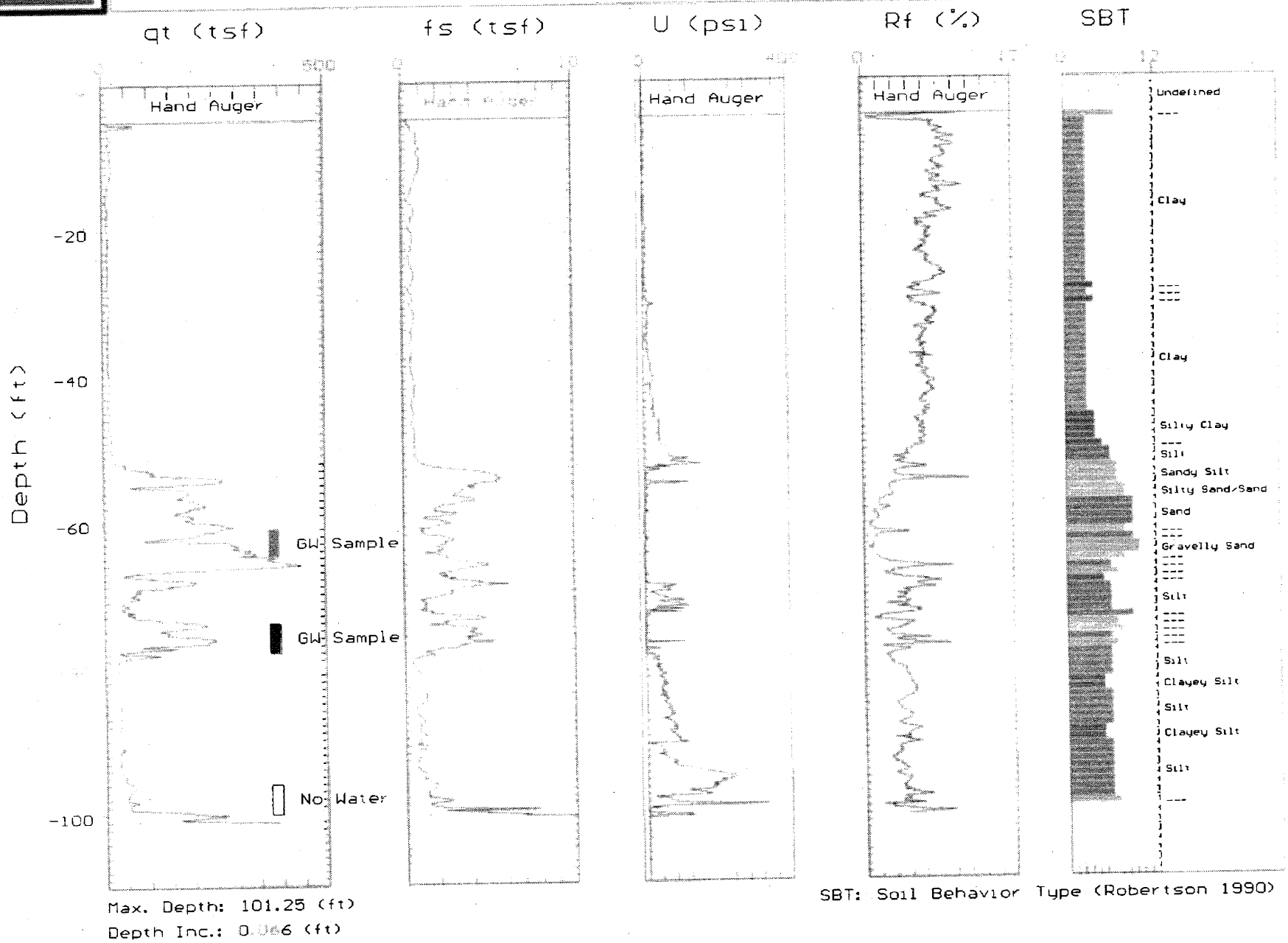
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA ENV.

Site: 3790 HOPYARD RD.
Location: CPT-05a

Engineer: H.BUCKINGHAM
Date: 09:09:05 10:15



Max. Depth: 101.25 (ft)
Depth Inc.: 0.066 (ft)

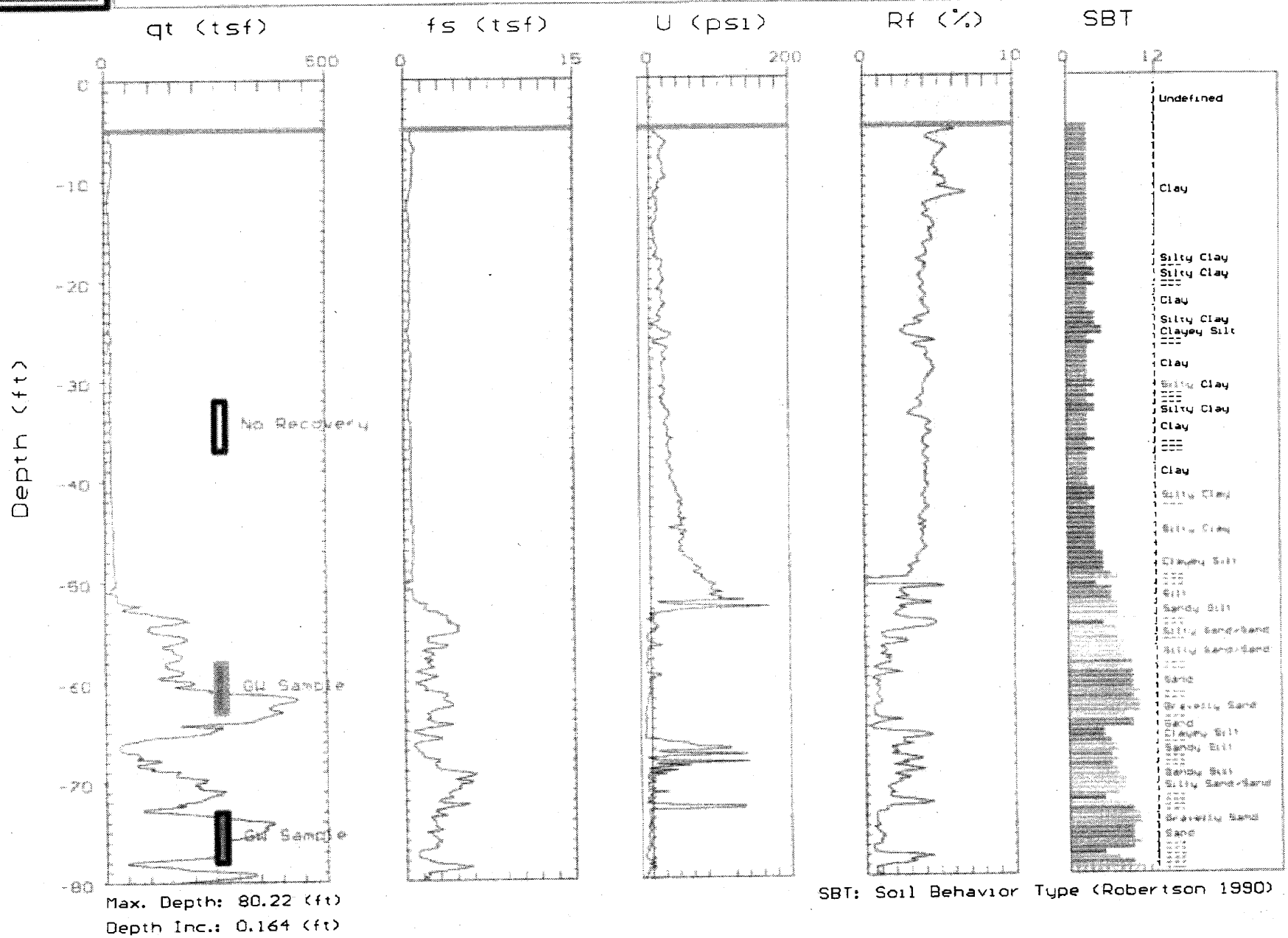
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA ENVIRONMENTAL

Site: 3790 HOPYARD
Location: CPT-06

Geologist: L. DOOLEY
Date: 02:18:05 10:01



Max. Depth: 80.22 (ft)
Depth Inc.: 0.164 (ft)

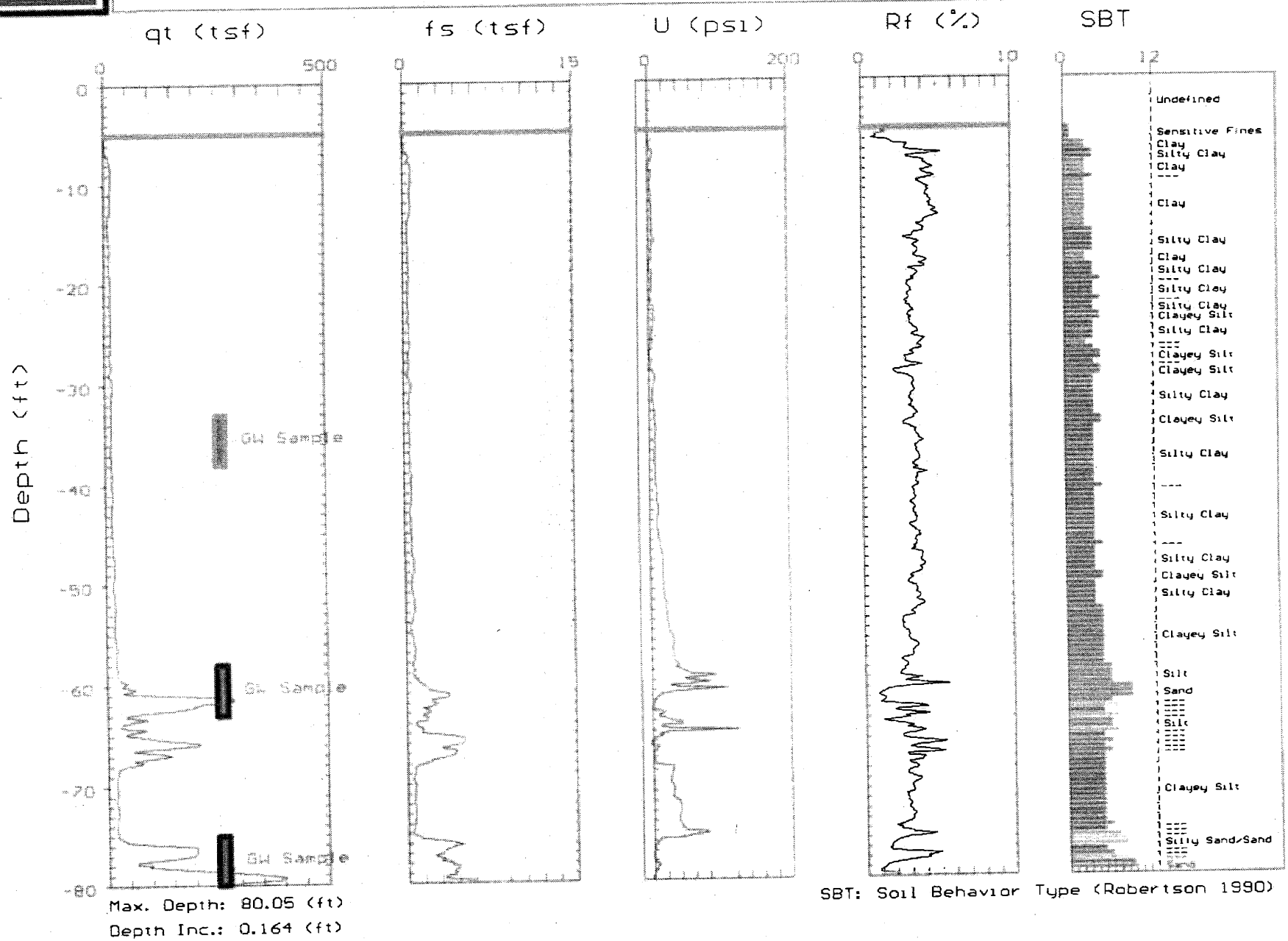
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA ENVIRONMENTAL

Site: 3790 HOPYARD
Location: CPT-07

Geologist: L. DOOLEY
Date: 02:16:05 08:20



Max. Depth: 80.05 (ft)
Depth Inc.: 0.164 (ft)

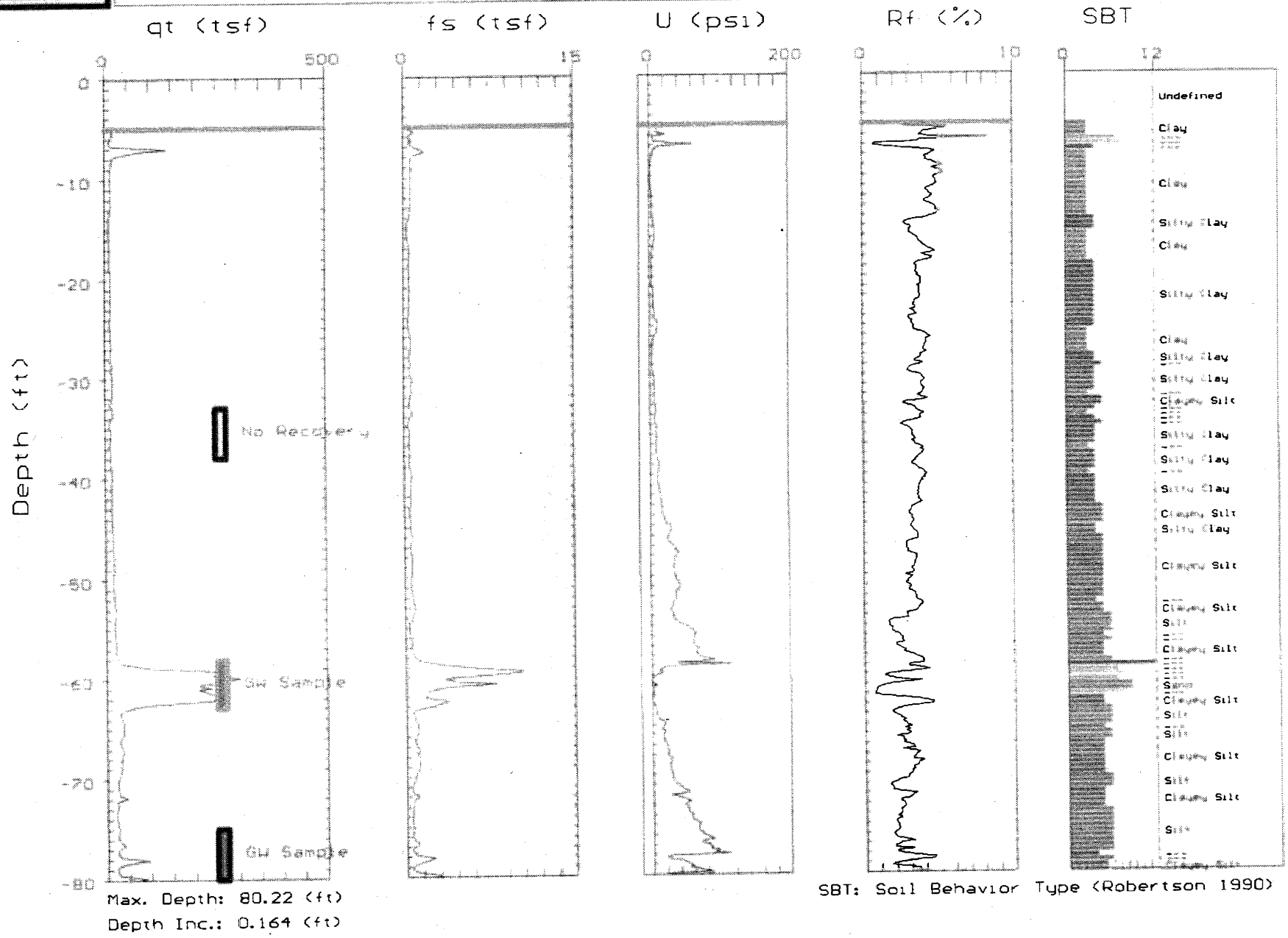
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA ENVIRONMENTAL

Site: 3790 HOPYARD
Location: CPT-08

Geologist: L. DOOLEY
Date: 02:16:05 11:51



Max. Depth: 80.22 (ft)
Depth Inc.: 0.164 (ft)

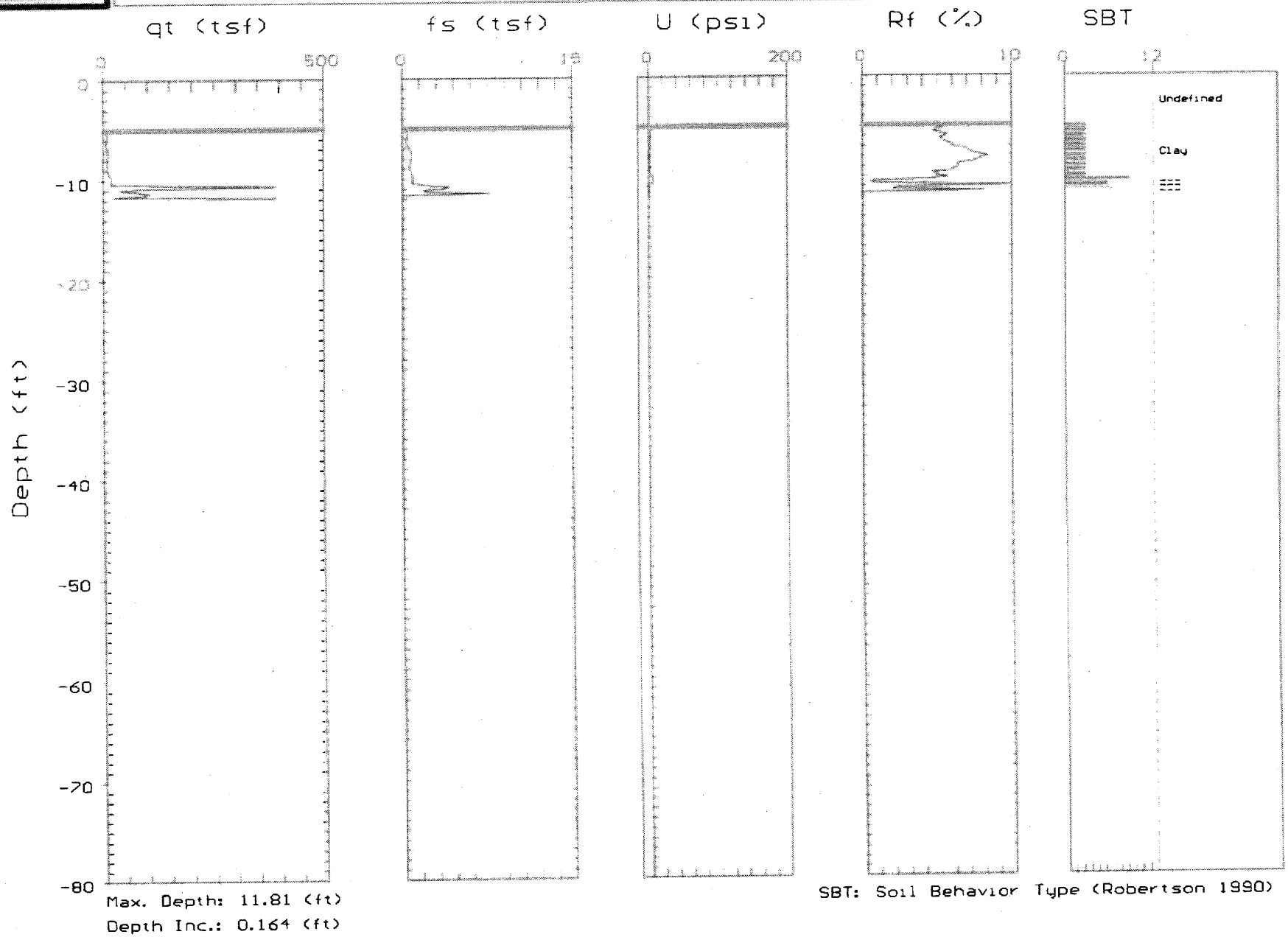
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA ENVIRONMENTAL

Site: 3790 HOPYARD
Location: CPT-09

Geologist: L. DOOLEY
Date: 02:17:05 15:27



Max. Depth: 11.81 (ft)
Depth Inc.: 0.164 (ft)

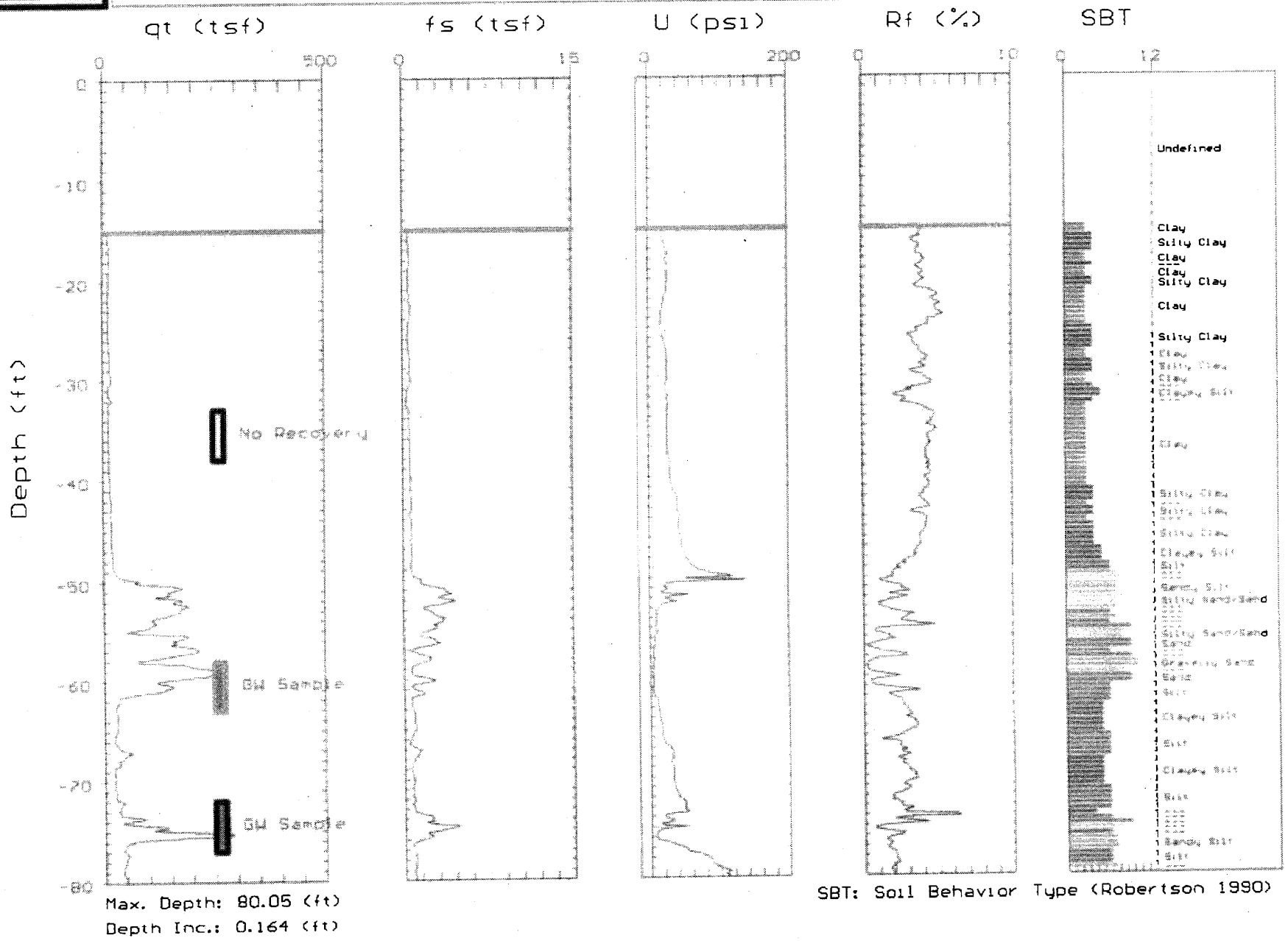
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA ENVIRONMENTAL

Site: 3790 HOPYARD
Location: CPT-09A

Geologist: L. DOOLEY
Date: 02:17:05 16:04



Max. Depth: 80.05 (ft)
Depth Inc.: 0.164 (ft)

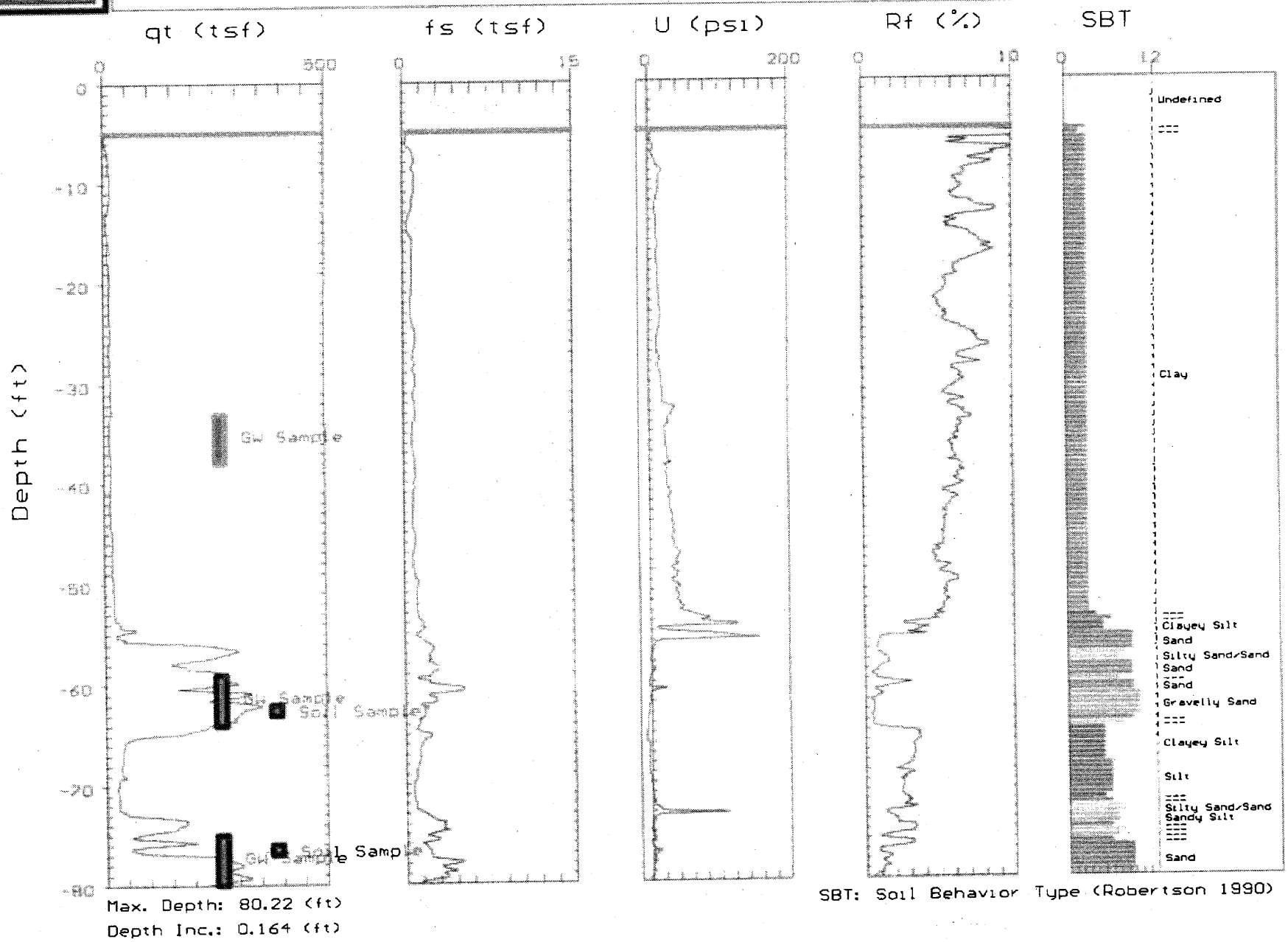
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA ENVIRONMENTAL

Site: 3790 HOPYARD
Location: CPT-10

Geologist: L. DOOLEY
Date: 02:17:05 08:25



Max. Depth: 80.22 (ft)
Depth Inc.: 0.164 (ft)

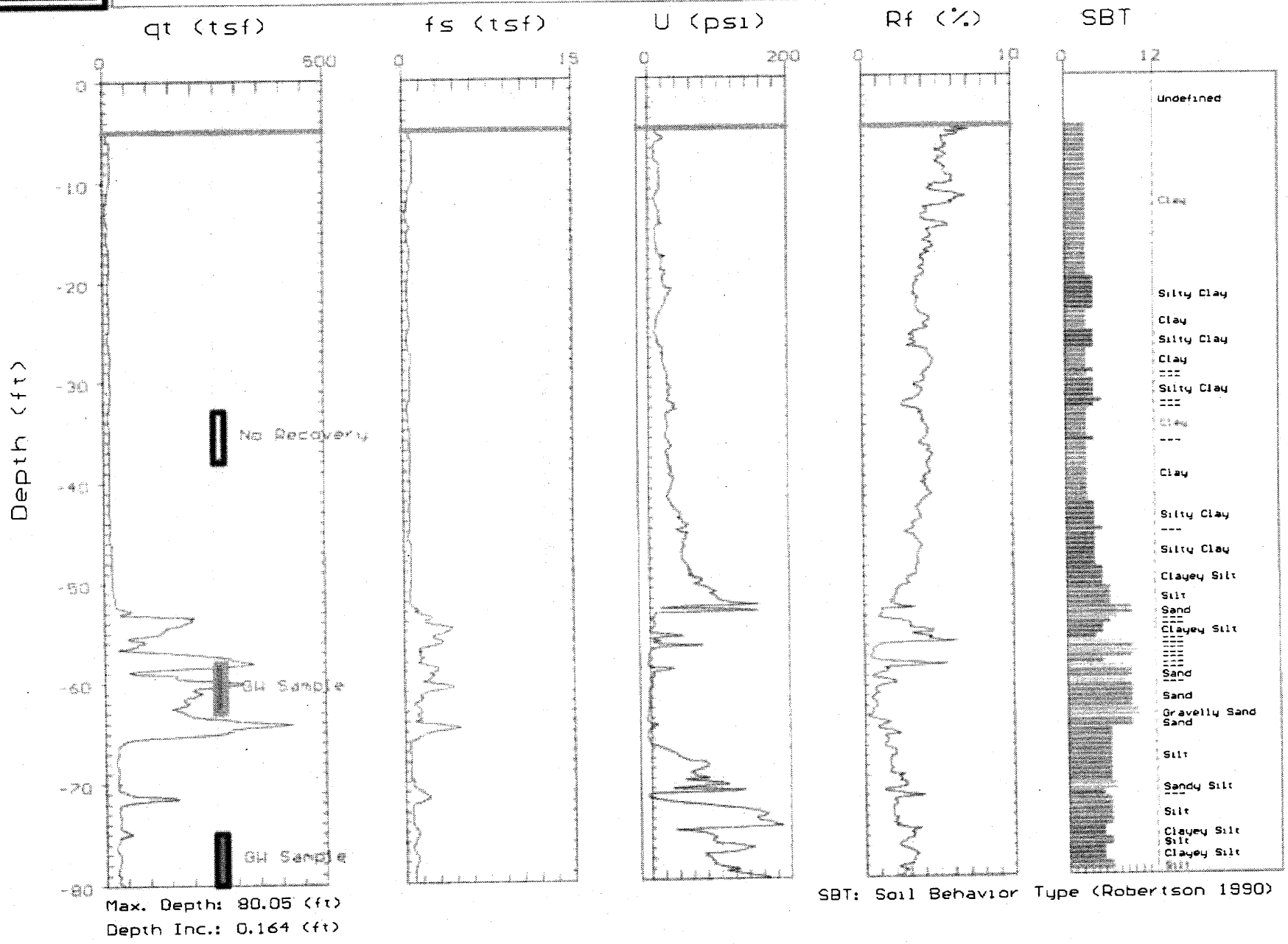
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA ENVIRONMENTAL

Site: 3790 HOPYARD
Location: CPT-11

Geologist: L. DOOLEY
Date: 02:17:05 09:50



Max. Depth: 80.05 (ft)
Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

APPENDIX C

WELL SURVEY TABLE

Table 1. Well Survey Results - Shell-branded Service Station, 3790 Hopyard Road, Pleasanton, California. Incident # 98995842

Number	Well ID	Installation Date	Location	Use	Depth (ft bgs)	Screened Interval (ft bgs)	Sealed Interval (ft bgs)
1	3S/1E-7R2	Sept. 1943	On NW corner of Hopyard Rd. and Pleasanton Canal intersection	UNK	205.0	96-104, 108-122, 140-148, 167-184	UNK
2	3S/1E-71	Aug. 10, 1949	On SW corner of Hopyard Rd. and Pleasanton Canal intersection	UNK	205.0	95-103, 106-120, 139-147, 166-183	UNK
3	3S/1E-7R1	March 10, 1962	0.4 mi from Hopyard Rd. along Arroyo Mocho	DEST IRR	324.0	Formerly 143-158, 192-208, 240-309	DEST
4	3S/1E-7Q1	unknown	--	ABD	172.0	--	--
5	3S/1E-18A6	February 1943	Parkside and Hopyard Rd.	MUN	--	215-235, 275-305, 355-375, 400-490	--
6	3S/1E-18A1	October 1943	Parkside and Hopyard Rd.	DEST MUN	--	Formerly 101-114, 154-166, 186-199	DEST

Notes and Abbreviations:

Number = Column number refers to map location on Figure 2.
Well ID = California State well identification number as recorded by the Department of Water Resources in Sacramento, California.
UNK = Unknown.
IRR = Irrigation
DEST= Destroyed
ABD = Abandoned
MUN = Municipal

APPENDIX D

REMEDIATION DATA TABLES

TABLE 1

Groundwater Extraction - System Analytical Results

Shell-branded Service Station, Incident #98995842

3790 Hopyard Road, Pleasanton, California

Sample Date (mm/dd/yy)	INFLUENT TPH-G Conc. (ppb)	INFLUENT TPH-D Conc. (ppb)	INFLUENT Benzene Conc (ppb)	INFLUENT MTBE Conc. (ppb)	INFLUENT TBA Conc. (ppb)	MID-1 TPH-G Conc. (ppb)	MID-1 TPH-D Conc. (ppb)	MID-1 Benzene Conc. (ppb)	MID-1 MTBE Conc. (ppb)	MID-2 TPH-G Conc. (ppb)	MID-2 TPH-D Conc. (ppb)	MID-2 Benzene Conc. (ppb)	MID-2 MTBE Conc. (ppb)	EFFLUENT TPH-G Conc. (ppb)	EFFLUENT TPH-D Conc. (ppb)	EFFLUENT Benzene Conc (ppb)	EFFLUENT MTBE Conc. (ppb)
07/01/03	<2,500	810 [1]	<25	3,400	NA	<50	–	<0.50	<0.50	<50	–	<0.50	<0.50	<50	200 [1]	<0.50	<0.50
07/21/03	<2,500	67 [1]	<25	5,400	NA	<500	–	<5.0	160	<250	–	<2.5	<2.5	<50	<50	<0.50	<0.50
08/01/03	<1,300	57 [1]	<13	3,700	NA	<250	–	<2.5	190	54 [2]	–	<0.50	<0.50	<50	<50	<0.50	<0.50
08/15/03	<1,000	470 [1]	<10	2,200	NA	<250	–	<2.5	380	<100	–	<1.0	<1.0	<50	76 [1]	<0.50	<0.50
09/11/03	<1,000	<50	<10	2,400	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
09/25/03	<1,000	NA	<10	2,600	NA	<250	–	<2.5	<25	<250	–	<2.5	<25	<50	NA	<0.50	<5.0
10/10/03	<5,000	67 [1]	<50	1,800	NA	<100	–	<1.0	85	<100	–	<10	<10	<100	<10	<1.0	<10
10/24/03	<500	NA	<5.0	1,500	NA	<500	–	<5.0	75	<500	–	<5.0	<5.0	<500	NA	<5.0	<5.0
11/21/03	<1,000	<50 [3]	<10	1,300	NA	<250	–	<2.5	25	<250	–	<2.5	<2.5	<50	<50 [3]	<0.50	<0.50
12/05/03	<1,000	<50	<10	1,200	NA	<250	–	<2.5	110	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
12/19/03	<1,000	NA	<10	950	NA	<250	–	<2.5	150	<50	–	<0.50	<5.0	<50	NA	<0.50	<5.0
01/16/04	<50	220 [1]	<0.50	57	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
01/30/04	<500	NA	<5.0	460	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	NA	<0.50	<5.0
02/06/04	<500	56 [1]	<5.0	350	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
03/05/04	<500	<50	<5.0	370	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
04/02/04	<1,000	230 [1]	<10	200	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
05/14/04	<1,000	<50	<10	110	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
06/04/04	<1,000	<50	<10	<100	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
07/16/04	<1,000	<50	<10	<100	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
08/06/04	<1,000	<50	<10	<100	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
09/03/04	<1,000	<50	<10	<100	NA	75 [4]	–	<0.50	9.0	170 [4]	–	<0.50	<5.0	57	<50	<0.50	<5.0
10/08/04	<50	<50	<0.50	29	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
11/05/04	<50	110 [1]	<0.50	5.2	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
12/03/04	<250	<50	<2.5	<25	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
01/07/05	150	170 [1]	0.95	18	NA	<50	–	<0.50	<5.0	<50	–	<0.50	<5.0	<50	<50	<0.50	<5.0
02/28/05	100	560	<0.50	<0.50	NA	57	<210	<0.50	<5.0	<50	<50	<0.50	<0.50	<50	54	<0.50	<5.0
03/09/05	<50	<50	<0.50	<0.50	NA	<50	<50	<0.50	<5.0	<50	<50	<0.50	<0.50	<50	<50	<0.50	<5.0

TABLE 1

Groundwater Extraction - System Analytical Results

Shell-branded Service Station, Incident #98995842

3790 Hopyard Road, Pleasanton, California

Sample Date (mm/dd/yy)	INFLUENT TPH-G Conc. (ppb)	INFLUENT TPH-D Conc. (ppb)	INFLUENT Benzene Conc (ppb)	INFLUENT MTBE Conc. (ppb)	INFLUENT TBA Conc. (ppb)	MID-1 TPH-G Conc. (ppb)	MID-1 TPH-D Conc. (ppb)	MID-1 Benzene Conc. (ppb)	MID-1 MTBE Conc. (ppb)	MID-2 TPH-G Conc. (ppb)	MID-2 TPH-D Conc. (ppb)	MID-2 Benzene Conc. (ppb)	MID-2 MTBE Conc. (ppb)	EFFLUENT TPH-G Conc. (ppb)	EFFLUENT TPH-D Conc. (ppb)	EFFLUENT Benzene Conc (ppb)	EFFLUENT MTBE Conc. (ppb)
04/08/05	120	490	2.0	310	NA	<50	<50	<0.50	<5.0	<50	<50	<0.50	<0.50	<50	<50	<0.50	<5.0
04/27/05	<50	<50	<0.50	31	760	<50	<50	<0.50	<5.0	<50	<50	<0.50	<0.50	<50	<50	<0.50	<5.0
05/11/05	<50	<50	<0.50	28	1800	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50
06/03/05	<50	<50	<0.50	12	30	92	<50	<0.50	<0.50	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50
07/01/05	<50	<50 [1]	<0.50	11	NA	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50
07/29/05	<50	<50	<0.50	10	NA	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50
8/5/2005[5]	<50	<50	<0.50	6.6	1400 [6]	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50
09/01/05	<50	<50 [1]	<0.50	4.9	880	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50
10/07/05	<50	<50 [1]	<0.50	4.2	1200	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50
11/04/05	<50	70 [1]	<0.50	2.9	180	<50	<50	<0.50	0.54	<50	<50	<0.50	<0.5	<50	<50	<0.50	<0.50
12/13/05	230	61	2.1	3.0	700	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50
01/06/06	<50	<50	1.1	3.7	460	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50
02/02/06	<50	130	1.1	5.6	590	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50
03/03/06	55	<50	0.6	2.9	510	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50
04/10/06	<50	<417	<0.50	6.90	483	<50	<417	<0.50	<0.50	<50	<417	<0.50	<0.50	<50	<417	<0.50	<0.50
05/04/06	53	<50	1.7	25	310	<50	<50	<0.50	1.3	<50	<50	<0.50	<0.50	<50	<50	<0.50	<0.50

Abbreviations & Notes:

TPH-G/D = Total purgeable hydrocarbons as gasoline/diesel
MTBE = Methyl tert-butyl ether
ppb = parts per billion
TPH-G, benzene and MTBE analyzed by EPA Method 8260
TPH-D analyzed by EPA Method 8015M.
Discharge Limits: TPH-G & TPH-D = 15.0 mg/L, BTEX = 1.00 mg/L, MTBE = not applicable
"--" - No Data Provided
NA = Not analyzed
1 = Hydrocarbon reported does not match the laboratory standard diesel pattern
2 = Hydrocarbon reported as gasoline does not match the laboratory gasoline standard
3 = The initial analysis failed QA/QC. A second analysis was conducted outside of hold time for which QA/QC passed. Both analyses reported similar results (<50ppb).
4 = The sample contains discrete peaks in the gasoline range.
5 = Influent samples were extracted out of hold time due to re-analysis. Initial analysis used higher reporting limits than required.

TABLE 1

Groundwater Extraction - System Analytical Results

Shell-branded Service Station, Incident #98995842

3790 Hopyard Road, Pleasanton, California

Sample Date (mm/dd/yy)	INFLUENT TPH-G Conc. (ppb)	INFLUENT TPH-D Conc. (ppb)	INFLUENT Benzene Conc (ppb)	INFLUENT MTBE Conc. (ppb)	INFLUENT TBA Conc. (ppb)	MID-1 TPH-G Conc. (ppb)	MID-1 TPH-D Conc. (ppb)	MID-1 Benzene Conc. (ppb)	MID-1 MTBE Conc. (ppb)	MID-2 TPH-G Conc. (ppb)	MID-2 TPH-D Conc. (ppb)	MID-2 Benzene Conc. (ppb)	MID-2 MTBE Conc. (ppb)	EFFLUENT TPH-G Conc. (ppb)	EFFLUENT TPH-D Conc. (ppb)	EFFLUENT Benzene Conc (ppb)	EFFLUENT MTBE Conc. (ppb)

6 =Estimated Value. The concentration exceeded calibration of analysis.

TABLE 2

Groundwater Extraction - Mass Removal Data
Shell-branded Service Station, Incident #98995842
3790 Hopyard Road, Pleasanton, California

Site Visit (mm/dd/yy)	Flow Meter Reading (gal)	Period Volume (gal)	Flow Rate (gpm)	Flow Rate (gpd)	Cumulative Volume (gal)	TPH-G Conc. (ppb)	TPH-G Period Removal (pounds)	TPH-G Cumulative Removal (pounds)	Benzene Conc. (ppb)	Benzene Period Removal (pounds)	Benzene Cumulative Removal (pounds)	MTBE Conc. (ppb)	MTBE Period Removal (pounds)	MTBE Cumulative Removal (pounds)
07/01/03	447	0	0	0	0	<2,500	0.000	0.000	<25	0.000	0.000	3,400	0.000	0.000
07/21/03	104,080	103,633	3.60	5,182	103,633	<2,500	1.081	1.081	<25	0.011	0.011	5,400	4.670	4.670
08/01/03	157,301	53,221	3.36	4,838	156,854	<1,300	0.289	1.370	<13	0.003	0.014	3,700	1.643	6.313
08/15/03	172,392	15,091	0.75	1,078	171,945	<1,000	0.063	1.433	<10	0.001	0.014	2,200	0.277	6.590
08/29/03	221,836	49,444	2.45	3,532	221,389	NS	0.206	1.639	NS	0.002	0.016	NS	0.908	7.498
09/11/03	286,780	64,944	3.47	4,996	286,333	<1,000	0.271	1.910	<10	0.003	0.019	2,400	1.301	8.798
09/25/03	352,750	65,970	3.27	4,712	352,303	<1,000	0.275	2.185	<10	0.003	0.022	2,600	1.431	10.229
10/10/03	420,240	67,490	3.12	4,499	419,793	<5,000	1.408	3.593	<50	0.014	0.036	1,800	1.014	11.243
10/24/03	423,410	3,170	0.16	226	422,963	<500	0.007	3.600	<5.0	0.000	0.036	1,500	0.040	11.283
11/12/03	514,680	91,270	3.34	4,804	514,233	NS	0.190	3.790	NS	0.002	0.038	NS	1.142	12.425
11/21/03	556,306	41,626	3.21	4,625	555,859	<1,000	0.174	3.964	<10	0.002	0.040	1,300	0.452	12.877
12/05/03	618,906	62,600	3.11	4,471	618,459	<1,000	0.261	4.225	<10	0.003	0.042	1,200	0.627	13.503
12/19/03	680,821	61,915	3.07	4,423	680,374	<1,000	0.258	4.483	<10	0.003	0.045	950	0.491	13.994
01/06/04	745,460	64,639	2.49	3,591	745,013	NS	0.270	4.753	NS	0.003	0.048	NS	0.512	14.507
01/16/04	784,010	38,550	2.68	3,855	783,563	<50	0.008	4.761	<0.50	0.000	0.048	57	0.018	14.525
01/30/04	848,580	64,570	3.20	4,612	848,133	<500	0.135	4.896	<5.0	0.001	0.049	460	0.248	14.773
02/06/04	879,575	30,995	3.07	4,428	879,128	<500	0.065	4.960	<5.0	0.001	0.050	350	0.091	14.863
02/20/04	929,280	49,705	2.47	3,550	928,833	NS	0.104	5.064	NS	0.001	0.051	NS	0.145	15.009
03/05/04	973,690	44,410	2.20	3,172	973,243	<500	0.093	5.157	<5.0	0.001	0.052	370	0.137	15.146
03/19/04	1,008,001	34,311	1.70	2,451	1,007,554	NS	0.072	5.228	NS	0.001	0.052	NS	0.106	15.252
04/02/04	1,030,183	22,182	1.10	1,584	1,029,736	<1,000	0.093	5.321	<10	0.001	0.053	200	0.037	15.289
04/16/04	1,052,225	22,042	1.09	1,574	1,051,778	NS	0.092	5.413	NS	0.001	0.054	NS	0.037	15.325
04/30/04	1,085,954	33,729	1.67	2,409	1,085,507	NS	0.141	5.553	NS	0.001	0.056	NS	0.056	15.382
05/14/04	1,118,933	32,979	1.64	2,356	1,118,486	<1,000	0.138	5.691	<10	0.001	0.057	110	0.030	15.412
05/24/04	1,142,083	23,150	1.61	2,315	1,141,636	NS	0.097	5.788	NS	0.001	0.058	NS	0.021	15.433
06/04/04	1,168,145	26,062	1.65	2,369	1,167,698	<1,000	0.109	5.896	<10	0.001	0.059	<100	0.011	15.444
06/18/04	1,200,909	32,764	1.63	2,340	1,200,462	NS	0.137	6.033	NS	0.001	0.060	NS	0.014	15.458
06/29/04	1,228,340	27,431	1.73	2,494	1,227,893	NS	0.114	6.147	NS	0.001	0.061	NS	0.011	15.469
07/16/04	1,265,550	37,210	1.52	2,189	1,265,103	<1,000	0.155	6.303	<10	0.002	0.063	<100	0.016	15.485
07/30/04	1,299,040	33,490	1.66	2,392	1,298,593	NS	0.140	6.442	NS	0.001	0.064	NS	0.014	15.499
08/06/04	1,315,300	16,260	1.61	2,323	1,314,853	<1,000	0.068	6.510	<10	0.001	0.065	<100	0.007	15.505
08/20/04	1,347,870	32,570	1.62	2,326	1,347,423	NS	0.136	6.646	NS	0.001	0.066	NS	0.014	15.519
09/03/04	1,380,520	32,650	1.62	2,332	1,380,073	<1,000	0.136	6.782	<10	0.001	0.068	<100	0.014	15.533
09/17/04	1,380,520	0	0.00	0	1,380,073	NS	0.000	6.782	NS	0.000	0.068	NS	0.000	15.533
10/01/04	1,413,915	33,395	1.66	2,385	1,413,468	NS	0.139	6.922	NS	0.001	0.069	NS	0.014	15.547
10/08/04	1,430,142	16,227	1.61	2,318	1,429,695	<50	0.003	6.925	<0.50	0.000	0.069	29	0.004	15.551
10/22/04	1,430,888	746	0.04	53	1,430,441	NS	0.000	6.925	NS	0.000	0.069	NS	0.000	15.551
11/05/04	1,458,650	27,762	1.38	1,983	1,458,203	<50	0.006	6.931	<0.50	0.000	0.069	5.2	0.001	15.552
11/19/04	1,493,299	34,649	1.72	2,475	1,492,852	NS	0.007	6.938	NS	0.000	0.069	NS	0.002	15.553
12/03/04	1,525,750	32,451	1.61	2,318	1,525,303	<250	0.034	6.972	<2.5	0.000	0.070	<25	0.003	15.557

TABLE 2

Groundwater Extraction - Mass Removal Data

Shell-branded Service Station, Incident #98995842

3790 Hopyard Road, Pleasanton, California

Site Visit (mm/dd/yy)	Flow Meter Reading (gal)	Period Volume (gal)	Flow Rate (gpm)	Flow Rate (gpd)	Cumulative Volume (gal)	TPH-G Conc. (ppb)	TPH-G Period Removal (pounds)	TPH-G Cumulative Removal (pounds)	Benzene Conc. (ppb)	Benzene Period Removal (pounds)	Benzene Cumulative Removal (pounds)	MTBE Conc. (ppb)	MTBE Period Removal (pounds)	MTBE Cumulative Removal (pounds)
12/17/04	1,559,338	33,588	1.67	2,399	1,558,891	NS	0.035	7.007	NS	0.000	0.070	NS	0.004	15.560
01/07/05	1,614,590	55,252	1.83	2,631	1,614,143	150	0.069	7.076	0.95	0.000	0.071	18	0.008	15.569
02/28/05	1,616,214	1,624	0.02	31	1,615,767	100	0.002	7.078	<0.50	0.000	0.071	<0.50	0.000	15.569
03/04/05	1,616,492	278	0.05	69	1,616,045	NS	0.000	7.079	NS	0.000	0.071	NS	0.000	15.569
03/08/05	1,623,641	7,149	1.24	1,787	1,623,194	<50	0.001	7.080	<0.50	0.000	0.071	<0.50	0.000	15.569
03/24/05	1,658,851	35,210	1.53	2,201	1,658,404	NS	0.007	7.087	NS	0.000	0.071	NS	0.000	15.569
03/28/05	1,670,077	11,226	1.95	2,806	1,669,630	NS	0.002	7.090	NS	0.000	0.071	NS	0.000	15.569
04/08/05	1,673,205	3,128	0.20	284	1,672,758	<50	0.001	7.090	<0.50	0.000	0.071	<0.50	0.000	15.569
04/13/05	1,673,618	414	0.06	83	1,673,171	NS	0.000	7.091	NS	0.000	0.071	NS	0.000	15.569
04/15/05	1,686,550	12,932	4.49	6,466	1,686,103	NS	0.003	7.093	NS	0.000	0.071	NS	0.000	15.569
04/21/05	1,719,745	33,195	3.84	5,533	1,719,298	NS	0.007	7.100	NS	0.000	0.071	NS	0.000	15.569
04/27/05	1,751,546	31,801	3.68	5,300	1,751,099	<50	0.007	7.107	<0.50	0.000	0.071	31.0	0.008	15.577
05/11/05	1,752,139	593	0.03	42	1,751,692	<50	0.000	7.107	<0.50	0.000	0.071	28.0	0.000	15.577
05/20/05	1,795,728	43,589	3.36	4,843	1,795,281	NS	0.009	7.116	NS	0.000	0.071	NS	0.010	15.588
06/03/05	1,864,820	69,092	3.43	4,935	1,864,373	<50	0.014	7.130	<0.50	0.000	0.071	12.0	0.007	15.595
06/06/05	1,874,014	9,194	2.13	3,065	1,873,567	NS	0.002	7.132	NS	0.000	0.071	NS	0.001	15.596
06/17/05	1,874,045	30	0.00	3	1,873,598	NS	0.000	7.132	NS	0.000	0.071	NS	0.000	15.596
06/28/05	1,924,672	50,627	3.20	4,602	1,924,225	NA	0.011	7.143	NA	0.000	0.071	NA	0.005	15.601
07/01/05	1,939,227	14,555	3.37	4,852	1,938,780	<50	0.003	7.146	<0.50	0.000	0.071	11	0.001	15.602
07/15/05	1,994,064	54,837	2.72	3,917	1,993,617	NS	0.011	7.157	NS	0.000	0.071	NS	0.005	15.607
07/29/05	2,057,260	63,196	3.13	4,514	2,056,813	<50	0.013	7.171	<0.50	0.000	0.071	10	0.005	15.612
08/05/05	2,089,074	31,814	3.16	4,545	2,088,627	<50	0.007	7.177	<0.50	0.000	0.072	6.6	0.002	15.614
08/22/05	2,161,402	72,328	2.95	4,255	2,160,955	NS	0.015	7.192	NS	0.000	0.072	NS	0.004	15.618
09/01/05	2,203,738	42,336	2.94	4,234	2,203,291	<50	0.009	7.201	<0.50	0.000	0.072	4.9	0.002	15.620
09/13/05	2,253,618	49,880	2.89	4,157	2,253,171	NS	0.010	7.212	NS	0.000	0.072	NS	0.002	15.622
10/07/05	2,324,668	71,050	2.06	2,960	2,324,221	<200	0.015	7.226	<2.0	0.001	0.072	4.2	0.002	15.624
10/24/05	2,396,125	71,457	2.92	4,203	2,395,678	NS	0.015	7.241	NS	0.001	0.073	NS	0.003	15.627
11/04/05	2,440,441	44,316	2.80	4,029	2,439,994	<50	0.009	7.251	<0.50	0.000	0.073	2.9	0.001	15.628
11/20/05	2,505,320	64,879	2.82	4,055	2,504,873	NS	0.014	7.264	NS	0.000	0.073	NS	0.002	15.629
12/13/05	2,594,353	89,033	2.69	3,871	2,593,906	230	0.085	7.350	2.1	0.002	0.075	3.0	0.002	15.632
01/06/06	2,693,473	99,119	2.87	4,130	2,693,026	<50	0.021	7.370	1.1	0.001	0.076	3.7	0.003	15.635
01/19/06	2,751,512	58,040	3.10	4,465	2,751,065	NS	0.012	7.382	NS	0.001	0.076	NS	0.002	15.636
02/02/06	2,812,400	60,887	3.02	4,349	2,811,953	<50	0.013	7.395	1.1	0.001	0.077	5.6	0.003	15.639
02/16/06	2,871,764	59,365	2.94	4,240	2,871,317	NS	0.012	7.407	NS	0.001	0.077	NS	0.003	15.642
03/03/06	2,935,534	63,770	2.95	4,251	2,935,087	55	0.029	7.437	0.6	0.000	0.078	2.9	0.002	15.644
03/21/06	3,012,130	76,596	2.96	4,255	3,011,683	NS	0.035	7.472	NS	0.000	0.078	NS	0.002	15.645
04/10/06	3,065,491	53,361	1.85	2,668	3,065,044	<50	0.011	7.483	<0.50	0.000	0.078	6.90	0.003	15.649

TABLE 2

Groundwater Extraction - Mass Removal Data
Shell-branded Service Station, Incident #98995842
3790 Hopyard Road, Pleasanton, California

Site Visit (mm/dd/yy)	Flow Meter Reading (gal)	Period Volume (gal)	Flow Rate (gpm)	Flow Rate (gpd)	Cumulative Volume (gal)	TPH-G Conc. (ppb)	TPH-G Period Removal (pounds)	TPH-G Cumulative Removal (pounds)	Benzene Conc. (ppb)	Benzene Period Removal (pounds)	Benzene Cumulative Removal (pounds)	MTBE Conc. (ppb)	MTBE Period Removal (pounds)	MTBE Cumulative Removal (pounds)
04/14/06	3,080,381	14,890	2.59	3,723	3,079,934	NS	0.003	7.486	NS	0.000	0.078	NS	0.001	15.649
04/18/06	3,102,176	21,795	1.89	5,449	3,101,729	NS	0.005	7.491	NS	0.000	0.078	NS	0.001	15.651
05/04/06	3,142,659	40,483	1.41	2,530	3,142,212	53	0.018	7.508	1.7	0.001	0.079	25	0.008	15.659
Reporting Period:			**Total Gallons Extracted:**		**130,529**	**Total Pounds Removed:**		**0.04**	**Total Pounds Removed:**		**0.001**	**Total Pounds Removed:**		**0.014**
Overall:			**Total Gallons Extracted:**		**3,142,212**	**Total Pounds Removed:**		**7.51**	**Total Pounds Removed:**		**0.079**	**Total Pounds Removed:**		**15.7**
						Total Gallons Removed:		**1.23**	**Total Gallons Removed:**		**0.011**	**Total Gallons Removed:**		**2.54**

Abbreviations & Notes:

TPH-G = Total purgeable hydrocarbons as Gasoline
MTBE = Methyl tert-butyl ether
Conc. = Concentration
ppb = Parts per billion, equivalent to ug/L
ug/L = Micrograms per liter
L = Liter
gal = Gallon
g = Gram
NS = Not Sampled
NA = Sample results are not available at this time
TPH-G, benzene and MTBE analyzed by EPA Method 8260
Mass removed based on the formula: volume extracted (gal) x Concentration (mg/L) x (g/10^6mg) x (pound/453.6g) x (3.785 L/gal)
When constituents are not detected, the concentration is assumed to be equal to half the detection limit in subsequent calculations.
Volume removal data based on the formula: mass (pounds) x $(\text{density})^{-1}$ (cc/g) x 453.6 (g/pound) x (L/1000 cc) * (gal/3.785 L)
Density inputs: TPH-G = 0.73 g/cc, benzene = 0.88 g/cc, MTBE = 0.74 g/cc

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995842, 3790 Hopyard Road, Pleasanton, California

					TPPH			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
05/17/01	S-2	20	20	03/07/01	<500	0.00004	0.00004	14.7	0.00000	0.00000	8,610	0.00144	0.00144
05/22/01	S-2	100	120	03/07/01	<500	0.00021	0.00025	14.7	0.00001	0.00001	8,610	0.00718	0.00862
05/29/01	S-2	75	195	03/07/01	<500	0.00016	0.00041	14.7	0.00001	0.00002	8,610	0.00539	0.01401
08/08/01	S-2	50	245	06/18/01	<2,000	0.00042	0.00082	<20	0.00000	0.00003	**7,100**	0.00296	0.01697
08/17/01	S-2	20	265	06/18/01	<2,000	0.00017	0.00099	<20	0.00000	0.00003	**7,100**	0.00118	0.01816
08/31/01	S-2	250	515	06/18/01	<2,000	0.00209	0.00308	<20	0.00002	0.00005	**7,100**	0.01481	0.03297
05/17/01	S-4	100	100	03/07/01	<500	0.00021	0.00021	5.44	0.00000	0.00000	**14,500**	0.01210	0.01210
05/22/01	S-4	150	250	03/07/01	<500	0.00031	0.00052	5.44	0.00001	0.00001	**14,500**	0.01815	0.03025
05/29/01	S-4	125	375	03/07/01	<500	0.00026	0.00078	5.44	0.00001	0.00002	**14,500**	0.01512	0.04537
08/08/01	S-4	50	425	06/18/01	<1,000	0.00021	0.00099	<10	0.00000	0.00002	**3,500**	0.00146	0.04683
08/17/01	S-4	40	465	06/18/01	<1,000	0.00017	0.00116	<10	0.00000	0.00002	**3,500**	0.00117	0.04800
08/31/01	S-4	500	965	06/18/01	<1,000	0.00209	0.00324	<10	0.00002	0.00004	**3,500**	0.01460	0.06260
06/26/02	S-4	1,669	2,634	06/18/02	<100	0.00070	0.00394	1.1	0.00001	0.00005	**530**	0.00738	0.06998
07/10/02	S-4	100	2,734	06/18/02	<100	0.00004	0.00398	1.1	0.00000	0.00005	**530**	0.00044	0.07043
07/24/02	S-4	0	2,734	06/18/02	<100	0.00000	0.00398	1.1	0.00000	0.00005	**530**	0.00000	0.07043
08/12/02	S-4	0	2,734	06/18/02	<100	0.00000	0.00398	1.1	0.00000	0.00005	**530**	0.00000	0.07043
09/09/02	S-4	100	2,834	06/18/02	<100	0.00004	0.00402	1.1	0.00000	0.00005	**530**	0.00044	0.07087
05/17/01	T-2	2,300	2,300	NA	NA	0.00000	0.00000	NA	0.00000	0.00000	NA	0.00000	0.00000
05/22/01	T-2	0	2,300	NA	NA	0.00000	0.00000	NA	0.00000	0.00000	NA	0.00000	0.00000
05/29/01	T-2	0	2,300	NA	NA	0.00000	0.00000	NA	0.00000	0.00000	NA	0.00000	0.00000
08/08/01	T-2	1,300	3,600	09/17/01	<5,000	0.02712	0.02712	<25	0.00014	0.00014	**29,000**	0.31458	0.31458
08/17/01	T-2	10	3,610	09/17/01	<5,000	0.00021	0.02733	<25	0.00000	0.00014	**29,000**	0.00242	0.31700
08/31/01	T-2	2,000	5,610	09/17/01	<5,000	0.04172	0.06905	<25	0.00021	0.00035	**29,000**	0.48397	0.80097
04/11/02	T-2	2,465	8,075	03/13/02	<5,000	0.05142	0.12047	<50	0.00051	0.00086	**48,000**	0.98730	1.78828
04/24/02	T-2	2,074	10,149	03/13/02	<5,000	0.04327	0.16374	<50	0.00043	0.00129	**48,000**	0.83070	2.61898
05/15/02	T-2	2,410	12,559	03/13/02	<5,000	0.05027	0.21401	<50	0.00050	0.00179	**48,000**	0.96528	3.58425
05/29/02	T-2	2,408	14,967	03/13/02	<5,000	0.05023	0.26424	<50	0.00050	0.00230	**48,000**	0.96447	4.54873

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995842, 3790 Hopyard Road, Pleasanton, California

06/12/02	T-2	2,338	17,305	03/13/02	<5,000	0.04877	0.31302	<50	0.00049	0.00278	**48,000**	0.93644	5.48516
06/26/02	T-2	1,000	18,305	06/18/02	<20,000	0.08344	0.39646	<200	0.00083	0.00362	**100,000**	0.83444	6.31960
07/10/02	T-2	1,025	19,330	06/18/02	<20,000	0.08553	0.48199	<200	0.00086	0.00447	**100,000**	0.85530	7.17489
07/24/02	T-2	0	19,330	06/18/02	<20,000	0.00000	0.48199	<200	0.00000	0.00447	**100,000**	0.00000	7.17489
08/12/02	T-2	0	19,330	06/18/02	<20,000	0.00000	0.48199	<200	0.00000	0.00447	**100,000**	0.00000	7.17489
09/09/02	T-2	2,336	21,666	06/18/02	<20,000	0.19492	0.67692	<200	0.00195	0.00642	**100,000**	1.94924	9.12414
09/30/02	T-2	2,295	23,961	09/27/02	240	0.00460	0.68151	0.55	0.00001	0.00643	**39**	0.00075	9.12488
10/07/02	T-2	2,312	26,273	09/27/02	240	0.00463	0.68614	0.55	0.00001	0.00645	**39**	0.00075	9.12564
10/21/02	T-2	2,355	28,628	09/27/02	240	0.00472	0.69086	0.55	0.00001	0.00646	**39**	0.00077	9.12640
11/05/02	T-2	2,532	31,160	09/27/02	240	0.00507	0.69593	0.55	0.00001	0.00647	**39**	0.00082	9.12723
11/19/02	T-2	2,439	33,599	09/27/02	240	0.00488	0.70081	0.55	0.00001	0.00648	**39**	0.00079	9.12802
12/06/02	T-2	2,362	35,961	09/27/02	240	0.00473	0.70554	0.55	0.00001	0.00649	**39**	0.00077	9.12879
12/28/02	T-2	2,005	37,966	12/27/02	2,100	0.03513	0.74068	7.8	0.00013	0.00662	**790**	0.01322	9.14201
01/17/03	T-2	1,770	39,736	12/27/02	2,100	0.03102	0.77169	7.8	0.00012	0.00674	**790**	0.01167	9.15367
01/29/03	T-2	2,096	41,832	12/27/02	2,100	0.03673	0.80842	7.8	0.00014	0.00687	**790**	0.01382	9.16749
02/12/03	T-2	2,353	44,185	12/27/02	2,100	0.04123	0.84965	7.8	0.00015	0.00702	**790**	0.01551	9.18300
02/26/03	T-2	2,012	46,197	12/27/02	2,100	0.03526	0.88491	7.8	0.00013	0.00716	**790**	0.01326	9.19626
03/12/03	T-2	200	46,397	12/27/02	2,100	0.00350	0.88841	7.8	0.00001	0.00717	**790**	0.00132	9.19758
09/09/02	T-4*	0	0	09/27/02	240	0.00000	0.00000	0.55	0.00000	0.00000	**39**	0.00000	0.00000
09/09/02	T-4*	2,264	2,264	09/27/02	240	0.00453	0.00453	0.55	0.00001	0.00001	**39**	0.00074	0.00074
10/21/02	T-4*	2,329	4,593	09/27/02	240	0.00466	0.00920	0.55	0.00001	0.00002	**39**	0.00076	0.00149
11/05/02	T-4*	2,657	7,250	09/27/02	240	0.00532	0.01452	0.55	0.00001	0.00003	**39**	0.00086	0.00236
11/05/02	T-4*	2,657	9,907	09/27/02	240	0.00532	0.01984	0.55	0.00001	0.00005	**39**	0.00086	0.00322
12/06/02	T-4*	1,657	11,564	09/27/02	240	0.00332	0.02316	0.55	0.00001	0.00005	**39**	0.00054	0.00376
12/28/02	T-4	2,175	13,739	12/27/02	550	0.00998	0.03314	5.3	0.00010	0.00015	**140**	0.00254	0.00630
01/17/03	T-4	1,664	15,403	12/27/02	550	0.00764	0.04078	5.3	0.00007	0.00022	**140**	0.00194	0.00825
01/29/03	T-4	1,679	17,082	12/27/02	550	0.00771	0.04848	5.3	0.00007	0.00030	**140**	0.00196	0.01021
02/12/03	T-4	2,276	19,358	12/27/02	550	0.01045	0.05893	5.3	0.00010	0.00040	**140**	0.00266	0.01287
02/26/03	T-4	1,969	21,327	12/27/02	550	0.00904	0.06796	5.3	0.00009	0.00048	**140**	0.00230	0.01517
03/12/03	T-4	308	21,635	12/27/02	550	0.00141	0.06938	5.3	0.00001	0.00050	**140**	0.00036	0.01553
Total Gallons Extracted:			**71,381**		**Total Pounds Removed:**		**0.96489**			**0.00777**			**9.31695**
					Total Gallons Removed:		**0.15818**			**0.00106**			**1.50273**

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995842, 3790 Hopyard Road, Pleasanton, California

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline
MtBE = Methyl tert-butyl ether
ppb = Parts per billion
gal = Gallon
* = Concentrations for tank backfill well T-4 taken from nearest sampled tank backfill well, T-2.
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x ($g/10^6 \mu g$) x (pound/453.6g) x (3.785 L/gal)
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)
TPPH, benzene analyzed by EPA Method 8015/8020
MTBE analyzed by EPA Method 8260 in bold font, all other MTBE analyzed by EPA Method 8020
Concentrations based on most recent groundwater monitoring results
Groundwater extracted by vacuum trucks provided by ACTI. Water disposed of at a Martinez Refinery.

TABLE 3
MgSO4 FEASIBILITY PILOT STUDY MONITORING DATA
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California

Well ID	Date	Depth to Water (feet below TOC)	pH (pH units)	Sulfate (mg/L)	Ferrous Iron (Fe+2) (mg/L)	Ferric Iron (Fe+3) (mg/L)	TPH-g (ug/L)	BTEX Compounds				Ethanol (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)
								B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)						
Observation Wells																	
SR-2	5/7/10 11:35 AM	11.70	6.83*	13	0.8	ND(<0.10)	180	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<100)	18	530	ND(<2.0)	ND(<2.0)	ND(<2.0)
SR-2	5/28/10 2:00 PM	NR	NA	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR-2	6/4/10 10:25 AM	13.98	7.12	12	0.4	ND(<0.10)	180	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	15	420	ND(<2.0)	ND(<2.0)	ND(<2.0)
SR-2	6/29/10 12:30 PM	NR	6.7	11	0.0	0.48	210	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	14	590	ND(<2.0)	ND(<2.0)	ND(<2.0)
SR-2	8/10/10 11:20 AM	15.00	7.52	7.6	2.0	ND(<0.10)	710	1.2	ND(<1.0)	1.3	ND(<1.0)	ND(<100)	19	820	ND(<2.0)	ND(<2.0)	ND(<2.0)
SR-2	8/26/10 10:25 AM	NR	NA	7.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR-2	9/8/10 10:30 AM	14.95	6.65	4.6	2.4	ND(<0.10)	490	1.9	ND(<1.0)	1.9	ND(<1.0)	ND(<100)	24	720	ND(<2.0)	ND(<2.0)	ND(<2.0)
SR-2	10/6/10 10:40 AM	14.95	6.73	2.1	2.6	ND(<0.10)	750	2.3	ND(<1.0)	2.0	ND(<1.0)	ND(<100)	21	940	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-3	5/7/10 11:00 AM	11.73	6.66*	130	0.4	ND(<0.10)	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<100)	ND(<1.0)	ND(<10)	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-3	6/29/10 11:00 AM	NR	6.6	110	0.0	0.10	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<10)	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-3	8/10/10 10:20 AM	13.50	7.42	190	4.6	ND(<0.10)	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	210	ND(<1.0)	ND(<10)	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-3	10/6/10 12:45 PM	13.65	6.39	150	0.8	ND(<0.10)	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<100)	ND(<1.0)	ND(<10)	ND(<2.0)	ND(<2.0)	ND(<2.0)
SR-3	5/7/10 10:10 AM	11.95	6.79*	1.1	3.6	0.19	3,800	24	1.7	2.6	3.9	ND(<100)	24	1,300	ND(<2.0)	ND(<2.0)	ND(<2.0)
SR-3	5/28/10 1:40 PM	NR	NA	ND(<1.0)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR-3	6/4/10 9:45 AM	13.48	6.98	ND(<1.0)	3.2	ND(<0.10)	2,100	21	1.5	1.4	3.6	NA	24	1,300	ND(<2.0)	ND(<2.0)	ND(<2.0)
SR-3	6/29/10 12:00 PM	NR	6.7	ND(<1.0)	2.6	2.00	2,100	19	1.3	1.6	2.6	NA	18	1,700	ND(<2.0)	ND(<2.0)	ND(<2.0)
SR-3	8/10/10 12:10 PM	15.71	7.48	2.0	4.6	2.30	2,700	21	1.6	2.6	2.9	ND(<100)	20	1,800	ND(<2.0)	ND(<2.0)	ND(<2.0)
SR-3	8/26/10 10:50 AM	NR	NA	ND(<5.0)**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR-3	9/8/10 11:00 AM	14.66	6.57	ND(<1.0)	6.2	0.81	2,000	24	ND(<2.0)	4.5	3.7	ND(<200)	19	1,100	ND(<4.0)	ND(<4.0)	ND(<4.0)
SR-3	10/6/10 11:45 AM	15.39	6.58	ND(<1.0)	2.8	3.29	1,800	21	ND(<2.0)	3.2	3.6	ND(<200)	19	1,600	ND(<4.0)	ND(<4.0)	ND(<4.0)
S-6	5/7/10 8:50 AM	13.61	6.68*	20	0.2	2.84	ND(<50)	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<100)	4.9	110	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-6	6/4/10 8:30 AM	13.70	6.54	55	0.0	19	53	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	5.6	210	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-6	6/29/10 9:30 AM	NR	6.7	10	4.0	0.29	170	ND(<0.50)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	8.2	1,600	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-6	8/10/10 9:30 AM	15.55	7.47	2.4	4.6	4.81	430	ND(<2.5)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND (<500)	12	3,700	ND(<10)	ND(<10)	ND(<10)
S-6	9/8/10 9:15 AM	15.49	6.55	8.5	3.4	3.41	1,100	ND(<2.5)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<500)	15	4,100	ND(<10)	ND(<10)	ND(<10)
S-6	10/6/10 9:30 AM	15.02	6.51	5.6	3.4	5.38	870	ND(<2.5)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<500)	11	4,400	ND(<10)	ND(<10)	ND(<10)

TABLE 3
MgSO4 FEASIBILITY PILOT STUDY MONITORING DATA
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California

Well ID	Date	Depth to Water (feet below TOC)	pH (pH units)	Sulfate (mg/L)	Ferrous Iron (Fe+2) (mg/L)	Ferric Iron (Fe+3) (mg/L)	TPH-g (ug/L)	BTEX Compounds				Ethanol (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)
								B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)						
Application Points																	
S-2	5/7/10 9:50 AM a	13.23	6.61*	ND(<1.0)	5.0	1.15	13,000	62	3.4	67	17	ND(<100)	56	920	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-2	5/7/10 6:20 PM	NR	NA	59,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-2	5/28/10 1:35 PM	NR	NA	1,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-2	6/4/10 9:10 AM	13.95	6.65	1,700	7.2	10	8,300	84	4.0	110	20	NA	81	910	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-2	6/29/10 11:30 AM	NR	6.7	350	5.6	5.70	12,000	74	ND(<5.0)	88	12	NA	51	1,300	ND(<10)	ND(<10)	ND(<10)
S-2	8/10/10 11:50 AM	15.35	7.62	280	4.6	4.61	9,800	60	2.8	85	12	ND(<200)	48	990	ND(<4.0)	ND(<4.0)	ND(<4.0)
S-2	8/11/10 4:15 PM b	15.30	NA	62,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-2	8/26/10 10:40 AM	NR	NA	5,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-2	9/8/10 11:30 AM	14.74	6.38	2,600	5.8	24.3	10,000	80	ND(<5.0)	120	18	ND(<500)	56	1,200	ND(<10)	ND(<10)	ND(<10)
S-2	10/6/10 11:25 AM	15.46	6.55	1,200	4	11.1	8,700	66	ND(<5.0)	100	15	ND(<500)	39	1,100	ND(<10)	ND(<10)	ND(<10)
S-4	5/7/10 12:00 PM a	12.86	6.71*	ND(<1.0)	2.4	3.29	5,200	4.6	ND(<2.0)	35	3.2	ND(<200)	17	960	ND(<4.0)	ND(<4.0)	ND(<4.0)
S-4	5/7/10 8:35 PM	NR	NA	49,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-4	5/28/10 2:05 PM	NR	NA	16,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-4	6/4/10 8:50 AM	13.96	6.71	14,000	6.1	10.7	2,100	2.5	ND(<1.0)	35	1.5	NA	8.4	410	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-4	6/29/10 1:00 PM	NR	6.7	8,200	4.0	11.9	1,400	2.4	ND(<1.0)	13	ND(<1.0)	NA	7.8	390	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-4	8/10/10 11:00 AM	14.95	7.51	4,400	4.8	7.4	1,700	2.9	ND(<1.0)	55	ND(<1.0)	ND(<100)	10	550	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-4	8/11/10 4:30 PM b	15.02	NA	13,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-4	8/26/10 10:20 AM	NR	NA	7,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-4	9/8/10 10:00 AM	14.80	6.3	3,600	5.2	6.6	2,100	5.4	1.2	57	4.6	ND(<100)	25	430	ND(<2.0)	ND(<2.0)	ND(<2.0)
S-4	10/6/10 10:20 AM	14.65	6.54	3,100	3.2	29.1	1,700	5.8	ND(<1.0)	74	1.8	ND(<100)	27	1,400	ND(<2.0)	ND(<2.0)	ND(<2.0)

Abbreviations:

TPH-g = Total petroleum hydrocarbons as gasoline by EPA Method 8260B

BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8260

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

ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260

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

TABLE 3
MgSO4 FEASIBILITY PILOT STUDY MONITORING DATA
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California

Well ID	Date	Depth to Water (feet below TOC)	pH (pH units)	Sulfate (mg/L)	Ferrous Iron (Fe+2) (mg/L)	Ferric Iron (Fe+3) (mg/L)	TPH-g (ug/L)	BTEX Compounds				Ethanol (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)
								B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)						

Abbreviations (cont.):

TBA = Tertiary-butyl alcohol
TOC = Top of Casing
mg/L = Milligrams per liter
ug/L = Micrograms per liter
ND(<n) = Not detected above shown detection limit n
NA = Not Analyzed
NR= Not Reported

Notes:

*Laboratory pH derived by SM 4500 H+ B.
**The reporting limit is elevated resulting from matrix interference.
pH measured in the field unless otherwise specified
Ferrous iron measured using a field kit.
Sulfate analyzed by EPA Method 300.0
Ferric iron calculated from ferrous iron and total iron concentrations analyzed by EPA Method 6010B.
Ethanol analyzed by EPA Method 8260B.

a. Initial MgSO4 application May 7, 2010 of approximately 80 to 85 gallons of EOS MgSO4 material to each application well.
b. Second MgSO4 application August 11, 2010 of approximately 55 gallons of EOS MgSO4 material to each application well.