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7:36 am, May 30, 2007

Alameda County
Environmental Health



Shell Oil Products US

May 29, 2005

Re: **Shell-branded Service Station**
5251 Hopyard Road
Pleasanton, California

Dear Mr. Bob Schultz:

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

Sincerely,
Shell Oil Products US

A handwritten signature in black ink, appearing to read "Denis L. Brown", with a long horizontal flourish extending to the right.

Denis L. Brown
Sr. Environmental Engineer

May 29, 2007

Project No. SJ52-51H-1X

SAP No. 135785

Mr. Jerry Wickham
Alameda County Health Care Services Agency
Environmental Health Services – Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-65771

**Re: Interim Remedial Action Plan
Shell-Branded Service Station
5251 Hopyard Road
Pleasanton, California**

Dear Mr. Wickham:

Delta Environmental Consultants, Inc. (DELTA) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL), has prepared this *Interim Remedial Action Plan (IRAP)* for the above-referenced SHELL-branded service station (Figure 1).

A proposal for interim remediation was included in the fourth quarter 2005 groundwater monitoring report dated January 15, 2006, and approved by Alameda County Health Care Services Agency (ACHCSA) in a letter dated March 30, 2006. Groundwater for batch extraction was performed in order to remove petroleum hydrocarbon and tert-butyl alcohol (TBA) mass and to provide temporary migration control. Results from groundwater batch extraction events were reported in DELTA's Remediation Status Reports dated July 15, 2006 and February 5, 2007. This IRAP is submitted in response to the ACHCSA letter dated March 21, 2007 that requests a proposal for interim remediation in the area north of the dispenser islands (Appendix A).

The purpose of this IRAP is to propose the installation of one (1) on-site groundwater extraction (GWE) well at the location proposed in the interim remediation proposal dated January 15, 2006 and to install a temporary groundwater extraction system that will pump extracted groundwater from existing groundwater monitoring wells S-2 and EW-1, and the proposed GWE well EW-2 to a storage tank located on the southeast edge of the site



a member of:



This IRAP has been prepared to comply with the California Code of Regulations, Title 23, Division 3, Chapter 16, Article 11. Provided below is site background information followed by a detailed scope of work for the proposed IRAP. All work will be performed under the supervision of a California-registered professional geologist and/or civil engineer.

SITE BACKGROUND

SITE CONDITIONS

A summary of the site history and environmental data is contained in the October 2005 electronic Site Conceptual Model previously submitted to the ACHCSA. The site is underlain by silt and clay to a depth of approximately 80 feet below ground surface (bgs). Depth to water was approximately 7 to 9 feet bgs during the first quarter sampling event of February 1, 2007. Groundwater flow direction is typically to the northwest with a gradient of less than 0.01 ft/ft. The nearest water supply well is approximately 2,500 feet to the south. Current and historical groundwater gauging and analytical data are presented in Appendix B.

PREVIOUS ENVIRONMENTAL ACTIVITIES

The following is a summary of preliminary results from site remediation activities:

- Groundwater monitoring has been ongoing since 1991. Prior to the first quarter 2005, the site groundwater monitoring program consisted of annual monitoring of site wells during the second quarter for total purgeable petroleum hydrocarbons as gasoline (TPH-g); benzene, toluene, ethyl benzene, and total xylenes (BTEX compounds); and the five fuel oxygenates: methyl tert-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), and tert-butyl alcohol (TBA) using EPA Method 8260B.
- An additional groundwater event was performed in the first quarter 2005 as the result of the detection of free product in a fuel piping trench during underground storage tank (UST) system upgrades in September 2004. SHELL implemented quarterly groundwater monitoring with the first quarter 2005 sampling event. The ACHCSA approved SHELL's recommendation for quarterly monitoring in a letter dated October 21, 2005.
- On March 6, 2006, DELTA supervised the installation of groundwater extraction Well EW-1 to an approximate total depth of 20 feet bgs. The location of Well EW-1 is shown on Figure 2. The boring for Well EW-1 encountered primarily lean clay with sand to the total depth explored with a poorly graded fine grained sand layer encountered at a depth of 14 feet bgs. Well EW-1 was screened from 10 to 20 feet bgs.
- The well was developed by Blaine Tech Services (BTS) on March 16, 2006. The well dewatered after only nine minutes of pumping (38 gallons). It was allowed to recover and pumped again completing development.
- On April 7, 2006, DELTA conducted a step drawdown test utilizing Well EW-1. The purpose of the test was to evaluate the feasibility of groundwater extraction as a remedial method. Groundwater was extracted from Well EW-1 at rates of 0.25, 0.5, 0.8, and 1.4 gallons per minute (gpm). The groundwater

extraction rate was increased as the depth to groundwater appeared to stabilize to determine a sustainable extraction rate with a 60% drawdown of the water column. An approximate 40% drawdown of the water column was obtained at a groundwater extraction rate of 0.8 gpm. The well went dry within twenty minutes of increasing the groundwater extraction rate to 1.4 gpm. A graph of the step test results was presented in April 16, 2006 progress report. Influence from the step-test was observed in Wells S-1 and S-3 located approximately 20 and 18 feet away, respectively, from extraction Well EW-1. Depth to water was measured at 10 to 15 minute intervals throughout the step-test. By the end of the step-test, the water levels in Wells S-1 and S-3 decreased by 0.19 and 0.16 feet, respectively. DELTA estimated a sustained pumping rate of approximately 0.8 gallons per minute (gpm) from Well EW-1.

- Groundwater extraction was initiated from Well EW-1 on April 12, 2006 at approximately 0.7 gpm. Approximately 4,650 gallons of groundwater were pumped from Well EW-1 from April 12 to May 8, 2006. The water was pumped to an on-site temporary storage tank and then transported off-site for disposal. Groundwater samples were collected from Well EW-1 during the step-test and period of groundwater extraction. Samples were analyzed for TPH-g, BTEX compounds, MTBE, and TBA by EPA Method 8260.
- Groundwater extraction was initiated from Well EW-1 on September 18, 2006 at approximately 0.7 gpm based on the previous extraction event. Pumping was maintained at approximately 0.9 gpm during the second extraction event. Approximately 1,800 gallons of groundwater were pumped from Well EW-1 from September 18 to September 29, 2006.
- Groundwater extraction was initiated from Well S-2 on September 29, 2006 at approximately 1.2 gpm. The pumping rate of 1.2 gpm was used throughout the event. Approximately 2,100 gallons of groundwater were pumped from Well S-2 from September 29 to October 11, 2006. The water from both extraction events was pumped to an on-site temporary storage tank and then transported off-site for disposal. Groundwater samples were collected from Well EW-1 and Well S-2 at the start and end of the pumping cycles. Samples were analyzed for TPH-g, BTEX compounds, MTBE, and TBA by EPA Method 8260. The results of all groundwater extraction events are summarized in Table 2.

Site data indicates the following:

- A dissolved petroleum hydrocarbon plume is concentrated in the area of Wells S-1 and EW-1.
- A dissolved MTBE and TBA plume has spread beneath most of the site.
- Pumping rates in the shallow aquifer beneath the site are less than 1.0 gpm.
- The April 2006 batch extraction event using Well EW-1 was successful in removing 4,650 gallons of groundwater containing TPH-g concentrations up to 16,200 micrograms per liter ($\mu\text{g/l}$).
- The September/October 2006 batch extraction event using Wells EW-1 and S-2 was successful in removing 4,000 gallons of groundwater containing TPH-g concentrations up to 14,800 $\mu\text{g/l}$.
- Results from the September/October 2006 batch extraction event demonstrate the TPH-g concentration was significantly lowered in Well EW-1 from 14,800 to 6,600 $\mu\text{g/L}$.

- Results from the September/October 2006 batch extraction event demonstrate the TBA concentration in Well S-2 was lowered from 10,000 to 5,400 µg/L.

Well and boring data are presented in Appendix C; historical soil analytical data are presented in Appendix D; hydrogeologic cross sections are presented in Appendix E.

SCOPE OF WORK FOR GROUNDWATER EXTRACTION SYSTEM INSTALLATION

Based on the results of previous groundwater sampling and batch groundwater extraction events, DELTA proposes to install an interim groundwater extraction system, which will be connected to S-2 and the proposed GWE well EW-2 located approximately 20 feet north of the dispenser islands. The scope of work includes installing GWE well EW-2, installation of an electrical submersible pump in the well being actively pumped, and installation of above ground protected piping from Wells EW-1, EW-2, and S-2 to the storage tank (see Figure 2).

Initially, the system will be operated for a period of 90 days. Each of the three wells will be pumped for approximately 30 days. Delta plans to initially pump Well EW-2 for containment of off-site migration of TBA.

INSTALLATION OF WELL EW-2

Delta will supervise the installation of groundwater extraction Well EW-2 to an approximate total depth of 20 bg. Prior to drilling, Delta will obtain all need permits and survey the drilling location for any underground utilities. The location of Well EW-1 is shown on Figure 2. The boring for nearby existing Well EW-1 primarily encountered lean clay with sand to the total depth explored with a poorly graded fine grained sand layer encountered at a depth of 14 feet bg. Well EW-1 was screened from 10 to 20 feet bg. Well EW-2 will be constructed in the same manner using 4-inch diameter PVC casing, 0.01 inch PVC slotted screen, and 2/12 sand pack. The well will be developed by Blaine Tech Services at least 49-hours after completion. The location and elevation of the well will be determined by a California licensed surveyor with data uploaded to the State Geotracker data base.

ABOVE GROUND PIPING

Delta transport extracted groundwater from wells to the temporary storage by way of above ground double cased PVC piping. The piping will be protected in traffic area by high-density rubber traffic ramps that are attached to the pavement with spikes.

MONITORING AND SAMPLING

Prior to initiating the groundwater extraction system, baseline groundwater samples will be collected from select wells for laboratory analysis of TPH-g by Department of Health Services (DHS) Leaking Underground Fuel Tank (LUFT) Method, BTEX compounds, fuel oxygenates (MTBE, TBA, TAME, DIPE, ETBE) and ethanol using Environmental Protection Agency (EPA) Method 8260. Groundwater samples will also be collected for laboratory analysis at the start, middle, and end of each cycle of well pumping.

Once baseline parameters are identified, the system will be started. For the duration of the 60-day operational period, DELTA personnel will conduct weekly monitoring visits to ensure proper system operation. The storage tank will be emptied using a vacuum truck each week, depending on the groundwater flow rates.

PROGRESS EVALUATION

The progress of the groundwater extraction will be evaluated based on the reduction of TPH-g, BTEX, MTBE, and TBA compounds in the groundwater from the extraction and monitoring wells on-site. The rate of reduction will be used to estimate clean-up times and evaluate the effectiveness of the temporary groundwater extraction system.

FINAL REPORT

A final report of the interim remediation system will be submitted within 60 days after the completion of the groundwater extraction. This report will include the following items:

- The percentage of time the system operated.
- Status report of the temporary groundwater extraction system.
- Analysis of groundwater data to determine percentage of reduction in hydrocarbon concentration in the groundwater.

IMPLEMENTATION SCHEDULE

DELTA is prepared to initiate these activities once approval of this IRAP is received from ACHCSA

REMARKS

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

If you have any questions regarding this site, please contact Lee Dooley (DELTA) at (408) 826-1880, or Mr. Denis Brown (SHELL Project Manager) at (707) 865-0251.

Sincerely,

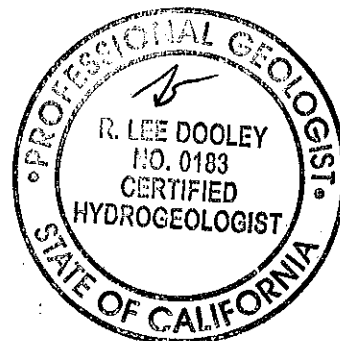
Delta Consultants, Inc.



for
Joby Dunmire
Staff Engineer



R. Lee Dooley, CHG 1006
Senior Hydrogeologist



cc: Denis Brown, Shell Oil Products US, Carson
Carl Cox, C and J Cox Corporation, Pleasanton
Colleen Winey, Zone 7 Water Agency, Livermore
Danielle Stefani, Livermore-Pleasanton Fire Department, Pleasanton

REFERENCES

Delta Environmental Consultants, Inc. (DELTA), 2006, *Quarterly Monitoring Report – Fourth Quarter 2005 and Proposed Interim Remediation Proposal*, Shell-Branded Service Station, 5251 Hopyard Road, Pleasanton, California, January 15, 2006

Delta Environmental Consultants, Inc. (DELTA), 2006, *Remediation Status Report*, Shell-Branded Service Station, 5251 Hopyard Road, Pleasanton, California, July 15, 2006

Delta Environmental Consultants, Inc. (DELTA), 2007, *Remediation Status Report*, Shell-Branded Service Station, 5251 Hopyard Road, Pleasanton, California, February 5, 2007

Delta Environmental Consultants, Inc. (DELTA), 2007, *First Quarter 2007 Groundwater Monitoring Report*, Shell-Branded Service Station, 5251 Hopyard Road, Pleasanton, California, April 15, 2007.

ATTACHMENTS:

Table 1 – EW-1 and S-2 Batch Extraction Field Data

Table 2 – Summary of Groundwater Analytical Data for EW-1 and S-2 Batch Extraction Events

Figure 1 – Site Location Map

Figure 2 – Site Map with Proposed GWE Well Installation and Trenching

Appendix A – ACHCSA Letter dated March 21, 2007

Appendix B – Current/Historical Groundwater Gauging and Analytical Results

Appendix C – Well and Boring Data

Appendix D – Historical Soil Analytical Data

Appendix E – Hydrogeologic Cross Sections

TABLES

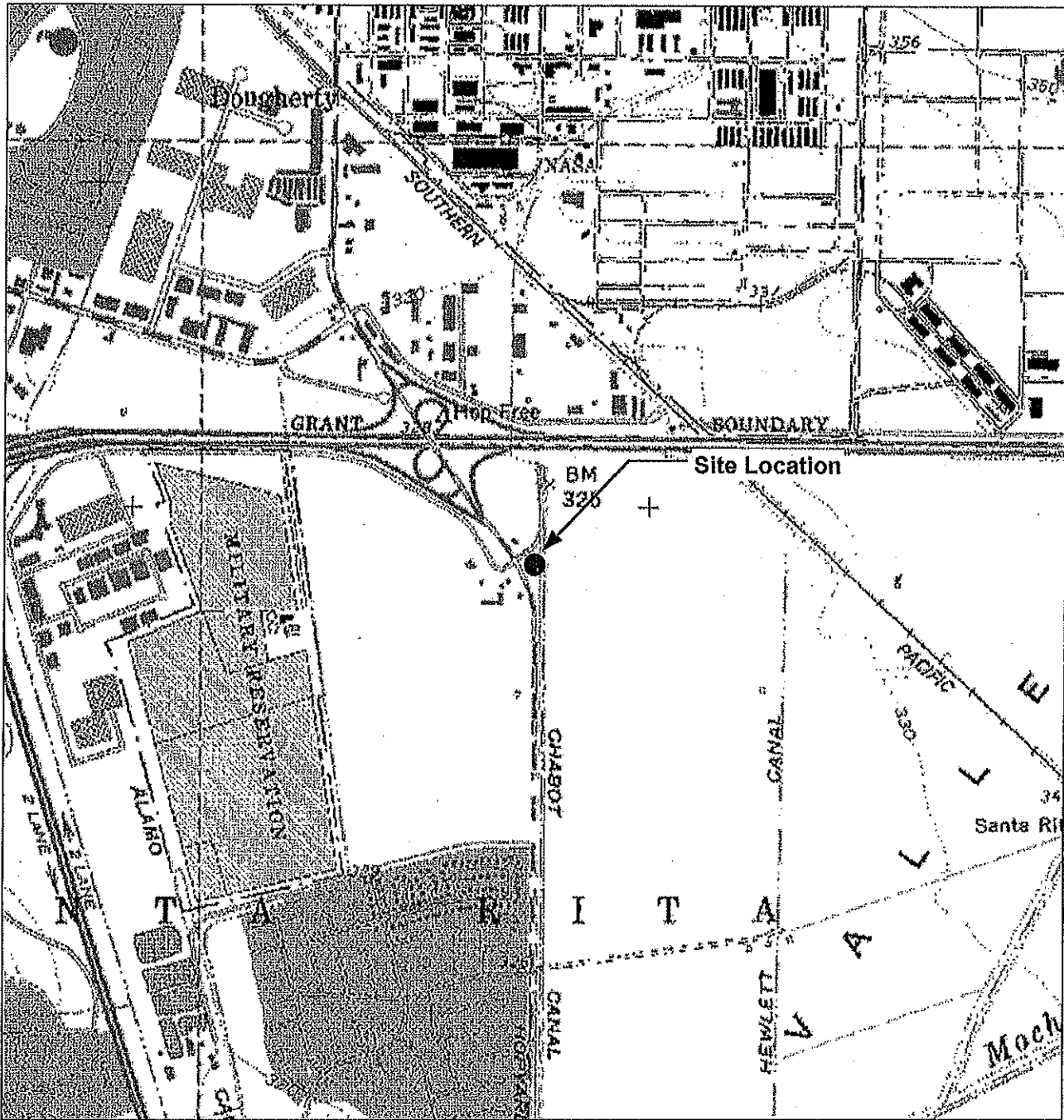
Table 1
EW-1 and S-2 Batch Extraction Field Data
 Shell Service Station
 5251 Hopyard Road
 Pleasanton, California

Date	Time	GPM*	Tank DTW	Sample Taken	Totalizer	Additional Gallons Pumped	Cumulative Gallons Extracted
BATCH EXTRACTION EW-1							
				N		0	0
09/18/06	14:10	~0.7	11.9'	Y	38300	30	30
09/21/06	7:53	~0.9	11.3'	N	38530	200	230
09/21/06	14:00	~0.9	10.6'	N	38814	282	512
09/26/06	7:50	~0.9	9.6'	N	39174	360	872
09/27/06	9:30	~0.9	8.3'	N	39541	467	1339
09/29/06	9:45	~0.9	6.9'	Y	40124	483	1822
BATCH EXTRACTION S-2							
09/29/06	14:00	~1.2	6.9'	Y	40169	45	45
10/02/06	10:00	~1.2	6.7'	N	40220	54	99
10/09/06	9:00	~1.3	6.7'	N	40220	0	99
10/11/06	9:00	-	-	Y	42313	2045	2144
Total Gallons Pumped for EW-1 & S-2						3906	
<p>* gpm is calculated by the following calculation: $\left(\frac{\text{Size of container (oz.)}}{\text{\# of seconds to fill container}} \right) * (60 \text{ sec. / 1 min}) * (1 \text{ gal. / 128 oz.})$ gpm can be calculated from timing totalizer, eg. time for 1/10 gal. 135 in. = DTB of Tank</p>							

Table 2
 Summary of Groundwater Analytical Data
 Shell Service Station
 5251 Hopyard Road
 Pleasanton, California

Sample Designation	Date Sampled	Depth (feet bg)	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylene (ug/l)	MTBE (ug/l)	TBA (ug/l)
Batch Extraction Event; Well EW-1									
Step Test -Start	4/7/2006	8	7,560	119	55.4	171	97.3	17.8	<10
Step Test -Stop	4/7/2006	14	14,800	258	113	488	237	30.3	<10
2,375 gallons	4/19/2006	12	10,600	553	333	474	446	20.8	<10
4,650 gallons	5/8/2006	12	16,200	559	479	676	586	43.9	162
Batch Extraction Event; Wells EW-1 & S-2									
Well EW-1	9/18/2006	NA	14,800	47.5	198.0	478	243.0	<0.5	<10
Well EW-1	9/29/2006	NA	5,600	150	120	100	220	11	<20
Well S-2	9/29/2006	NA	640	9	13	26	25	150	10,000
Well S-2	10/11/2006	NA	460	<2.5	3	4.1	6.8	150	5,400
Fourth Quarter 2006 Groundwater Monitoring									
Well S-2	11/13/2006	8.4	320	<5.0	<5.0	<5.0	<5.0	140	6,000
Notes:									
NA = data not available									
ug/l = micrograms per liter									
TPH-G = Total petroleum hydrocarbons as gasoline									
MTBE = Methyl tert-butyl ether									
TBA = tert-Butyl alcohol									

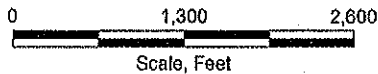
FIGURES



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



QUADRANGLE LOCATION



Scale, Feet

FIGURE 1
 SITE LOCATION MAP

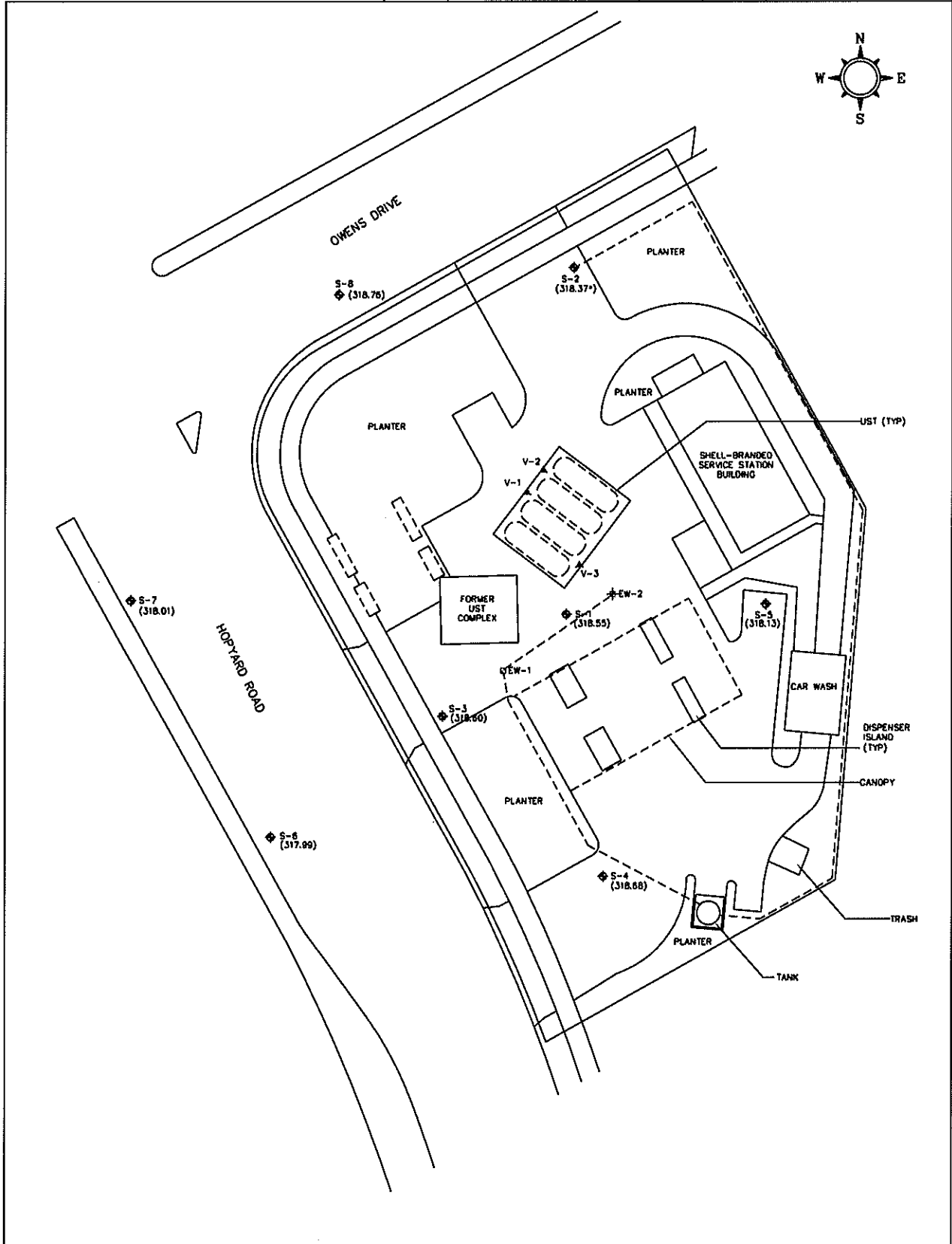
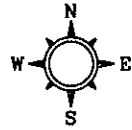
SHELL-BRANDED SERVICE STATION
 5251 Hopyard Road
 Pleasanton, California

PROJECT NO. SJS2-61H-1.2005	DRAWN BY V. F. 3/31/05
FILE NO. SJS2-61H-1.2005	PREPARED BY VF
REVISION NO.	REVIEWED BY



0 20 40
SCALE IN FEET

DRAWN BY LUR	CHECKED BY	APPROVED BY	PROJECT NUMBER
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LEGEND

- MW-1 ◆ GROUNDWATER MONITORING WELL
- EW-1 □ GROUNDWATER EXTRACTION WELL
- EW-2 ⊕ PROPOSED GROUNDWATER EXTRACTION WELL
- BAKER TANK
- - - ABOVE GROUND PIPING



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

FIGURE 2

SITE MAP
GWE WELL INSTALLATION
5251 HOPYARD ROAD
PLEASANTON, CALIFORNIA

APPENDIX A

ACHCSA LETTER DATED MARCH 21, 2007

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director

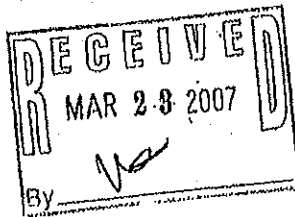


ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6677
(510) 567-6700
FAX (510) 337-9335

March 21, 2007

Mr. Denis Brown
Shell Oil Products US
20946 S. Wilmington Ave.
Carson, CA 90810-1039

Mr. Carl Cox
CJC Hopyard LLC
4431 Stoneridge Drive #100
Pleasanton, CA 94588-8412



5552-514

Subject: Fuel Leak Case No. RO0000194 and Geotracker Global ID T0600101267, Shell#13-5785, 5251 Hopyard Road, Pleasanton, CA 94588

Dear Mr. Brown and Mr. Cox:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site and the recently submitted document entitled, "Remediation Status Report," dated February 5, 2007. The Remediation Status Report presents the results of a batch groundwater extraction event conducted in September and October 2006. The report indicates that approximately 4,000 gallons of water containing total petroleum hydrocarbons as gasoline at concentrations up to 14,800 micrograms per liter ($\mu\text{g/L}$) was extracted.

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

TECHNICAL COMMENTS

1. **Location of Extraction Well EW-1 and Increase in TBA Concentrations in Well S-2.** As presented in Shell's "Interim Remediation Proposal," dated January 15, 2006, the proposed location of well EW-1 was, "midway between the location of previous borings GP-1 and GP-2," which are located near the northern corner of the dispenser islands. The highest concentration of TPHg was detected in the grab groundwater sample from GP-1 and the highest concentration of TBA was detected in the grab groundwater sample from GP-2. Well EW-1 was instead installed west of the dispenser islands and south of GP-3. Groundwater extraction from well EW-1 will not control contaminant migration from the source area north of the dispenser islands. Although elevated concentrations of TPHg were detected in groundwater extracted from well EW-1, TBA was not detected in the groundwater extracted from well EW-1. However, elevated concentrations of TBA were detected in well S-2, which is the apparent downgradient well to the north. The concentration of TBA detected in groundwater from well S-2 has increased from 8.9 $\mu\text{g/L}$ on May 5, 2005 to 10,600 $\mu\text{g/L}$ on August 23, 2006. Although continuation of batch groundwater extraction from wells EW-1

Denis Brown
Carl Cox
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Page 2

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PERJURY STATEMENT
All work plan
accomplish

and S-2 is acceptable, we request that you propose additional interim remediation in the area of GP-1 and GP-2. Please present plans for interim remediation in the area north of the dispenser islands in the Work Plan requested below. Please also propose a schedule for the recommended batch groundwater extraction.

2. **Quarterly Groundwater Monitoring.** We request that you continue quarterly groundwater monitoring to assess plume stabilization and groundwater flow directions for the site.

TECHNICAL REPORT REQUEST

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

- **May 29, 2007** – Work Plan for Interim Remediation
- **45 days following end of each quarter** – Monitoring Well Installation Report and Quarterly Monitoring Report and Interim Remediation Status Report for the Third Quarter 2006

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

ELECTRONIC SUBMITTAL OF REPORTS

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

APPENDIX B

CURRENT/HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL RESULTS

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	01/25/1991	2,500	1,500	460	<25	130	36	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	04/06/1991	6,700	2,600 a	2,600	14	580	250	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	07/24/1991	8,800	3,800 a	2,300	30	640	220	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	10/18/1991	12,000	3,300 a	3,600	380	990	580	NA	NA	NA	NA	NA	NA	326.73	8.85	317.88	NA
S-1	01/23/1992	1,600	890	450	3	120	17	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	04/27/1992	1,100 g	500 a	610	<10	110	10	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	07/21/1992	5,100	290 c	1,900	54	460	140	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	10/16/1992	13,000	390 c	3,200	310	780	360	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	01/23/1993	2,300	30 d	640	<5	110	13	NA	NA	NA	NA	NA	NA	326.73	7.96	318.77	NA
S-1	04/28/1993	4,600	390	780	<0.5	250	<0.5	NA	NA	NA	NA	NA	NA	326.73	9.07	317.66	NA
S-1	09/22/1993	3,000	610 a	660	28	160	17	NA	NA	NA	NA	NA	NA	326.73	8.68	318.05	NA
S-1	12/08/1993	520	280	210	<2.5	49	<2.5	NA	NA	NA	NA	NA	NA	326.73	8.23	318.50	NA
S-1	03/04/1994	640	NA	190	1.4	18	1.3	NA	NA	NA	NA	NA	NA	326.73	8.81	317.92	NA
S-1 (D)	03/04/1994	640	NA	180	1.7	17	1.3	NA	NA	NA	NA	NA	NA	326.73	8.81	317.92	NA
S-1	06/16/1994	2,500	NA	390	9.5	31	7.5	NA	NA	NA	NA	NA	NA	326.73	8.80	317.93	NA
S-1 (D)	06/16/1994	2,000	NA	410	7.8	120	20	NA	NA	NA	NA	NA	NA	326.73	8.80	317.93	NA
S-1	09/13/1994	1,400	NA	310	7.7	29	8.5	NA	NA	NA	NA	NA	NA	326.73	8.62	318.11	NA
S-1 (D)	09/13/1994	1,400	NA	240	7.9	44	6.3	NA	NA	NA	NA	NA	NA	326.73	8.62	318.11	NA
S-1	05/05/1995	800	NA	120	3.6	26	2.7	NA	NA	NA	NA	NA	NA	326.73	11.54	315.19	NA
S-1 (D)	05/05/1995	710	NA	110	3.4	19	2.7	NA	NA	NA	NA	NA	NA	326.73	11.54	315.19	NA
S-1	05/21/1996	1,500	NA	170	8.5	120	6.7	NA	NA	NA	NA	NA	NA	326.73	8.88	317.85	NA
S-1	05/12/1997	4,700	NA	200	15	210	20	2,300	NA	NA	NA	NA	NA	326.73	11.19	315.54	2.4
S-1 (D)	05/12/1997	4,800	NA	210	16	190	16	3,200	2,900	NA	NA	NA	NA	326.73	11.19	315.54	2.4
S-1	05/08/1998	500	NA	18	2.1	2.3	2	1,000	NA	NA	NA	NA	NA	326.73	8.38	318.35	2.1
S-1	06/27/1999	2,970	NA	117	32.0	69.1	17.5	374	NA	NA	NA	NA	NA	326.73	8.79	317.94	2.4
S-1	04/28/2000	1,920	NA	50.5	15.0	67.2	46.7	276	NA	NA	NA	NA	NA	326.73	8.50	318.23	2.8

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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S-1	05/30/2001	3,900	NA	27	12	140	28	NA	140	NA	NA	NA	NA	326.73	8.18	318.55	2.6
S-1	06/17/2002	2,700	NA	25	11	51	14	NA	140	NA	NA	NA	NA	326.73	8.39	318.34	3.2
S-1	05/30/2003	3,900	NA	12	8.2	47	12	NA	270	NA	NA	NA	NA	326.74	7.41	319.33	1.2
S-1	05/03/2004	3,700	NA	32	21	170	34	NA	410	NA	NA	NA	NA	326.74	11.18	315.56	2.4
S-1	01/14/2005	4,200	NA	22	34	380	33	NA	100	NA	NA	NA	NA	326.74	7.10	319.64	0.58
S-1	05/05/2005	5,000	NA	33	110	970	210	NA	190	<0.50	<0.50	0.95	630	326.74	11.32	315.42	NA
S-1	08/05/2005	4,600	NA	32	52	420	69	NA	110	<40	<40	<40	410	326.74	9.04	317.70	NA
S-1	09/16/2005	3,300	NA	14	28	280	43	NA	60	51	<10	<10	260	326.74	11.37	315.37	NA
S-1	11/08/2005	4,700	NA	19.2	47	416	84.0	NA	50.2	<0.500	<0.500	<0.500	<10.0	326.74	9.06	317.68	NA
S-1	01/31/2006	6,380	NA	21.0	33.1	280	31.0	NA	59.9	<0.500	<0.500	<0.500	306	326.74	8.12	318.62	NA
S-1	05/16/2006	9,080	NA	25.8	46.6	517	86.6 m	NA	69.5	<0.500	<0.500	<0.500	268	326.74	7.95	318.79	NA
S-1	08/23/2006	4,980	NA	19.0	22.7	74.7	38.7	NA	42.9	<0.500	<0.500	<0.500	252	326.74	7.95	318.79	NA
S-1	11/13/2006	7,900	NA	38	41	480	52	NA	44	<5.0	<5.0	<5.0	480	326.74	7.99	318.75	NA
S-1	02/01/2007	1,500	NA	18	15	110	17	NA	27	<10	<10	<10	640	326.74	8.19	318.55	NA

S-2	01/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	04/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	10/18/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	8.83	317.76	NA
S-2	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	07/17/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	01/23/1993	<50	140 b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	8.10	318.49	NA
S-2	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	9.06	317.53	NA
S-2	09/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.91	317.68	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	12/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	9.07	317.52	NA
S-2	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.90	317.69	NA
S-2	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.98	317.61	NA
S-2	09/13/1994	<50	NA	<0.5	2.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	8.78	317.81	NA
S-2	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	8.60	317.99	NA
S-2	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	8.75	317.84	NA
S-2	05/12/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	326.59	8.72	317.87	3.4
S-2	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	326.59	8.63	317.96	3.1
S-2	06/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	326.59	8.79	317.80	2.6
S-2	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	326.59	8.33	318.26	2.0
S-2	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	326.59	8.56	318.03	1.8
S-2	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	326.59	8.87	317.72	i
S-2	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	18	NA	NA	NA	NA	326.47	7.89	318.58	1.7
S-2	05/03/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	510	NA	NA	NA	NA	326.47	5.44	321.03	0.1
S-2	01/14/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	270	NA	NA	NA	NA	326.47	7.88	318.59	NA
S-2	05/05/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	280	<0.50	<0.50	0.55	8.9 j	326.47	8.14	318.33	NA
S-2	08/05/2005 i	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	320	<2.0	<2.0	<2.0	510	326.47	8.24	318.23	NA
S-2	09/16/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	320	<10	<10	<10	1,800	326.47	8.06	318.41	NA
S-2	11/08/2005	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	375	<0.500	<0.500	0.610	1,130	326.47	8.20	318.27	NA
S-2	01/31/2006	281	NA	<0.500	<0.500	<0.500	<0.500	NA	354	<0.500	<0.500	<0.500	3,090	326.47	8.18	318.29	NA
S-2	05/16/2006	785	NA	<0.500	<0.500	<0.500	<0.500	NA	282	<0.500	<0.500	<0.500	3,250	326.47	8.34	318.13	NA
S-2	08/23/2006	344	NA	<0.500	<0.500	<0.500	<0.500	NA	194	<0.500	<0.500	0.560	10,600	326.47	8.32	318.15	NA
S-2	11/13/2006	320	NA	<5.0 f	<5.0 f	<5.0 f	<5.0 f	NA	140 f	<5.0 f	<5.0 f	<5.0 f	6,000 f	326.50	8.37	318.13	NA
S-2	02/01/2007	160	NA	<0.50	<0.50	<0.50	<1.0	NA	130	<2.0	<2.0	<2.0	3,900	326.50	8.13	318.37	NA
S-3	01/25/1991	870	330	230	<2.5	130	<2.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3	04/16/1991	190	140 a	12	0.8	6.2	1.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	07/24/1991	1,700	1,200 a	450	4.4	150	2.9	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	10/18/1991	1,900	500	370	3.1	120	220	NA	NA	NA	NA	NA	NA	327.38	9.64	317.74	NA
S-3	01/23/1992	2,000	650 a	580	3	200	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	04/27/1992	1,100	230 a	150	<3	76	14	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	07/17/1992	810	58	200	<2.5	57	3.8	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	10/16/1992	440	190 c	79	1.8	18	4.6	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	01/23/1993	670	170 d	79	1.5	46	15	NA	NA	NA	NA	NA	NA	327.38	8.81	318.57	NA
S-3	04/28/1993	2,000	<50	300	3.4	210	38	NA	NA	NA	NA	NA	NA	327.38	9.87	317.51	NA
S-3	09/22/1993	4,800	670 a	2,000	34	150	51	NA	NA	NA	NA	NA	NA	327.38	9.65	317.73	NA
S-3	12/08/1993	1,200	11	440	<5.0	120	29	NA	NA	NA	NA	NA	NA	327.38	9.26	318.12	NA
S-3	03/04/1994	630	NA	130	<0.5	17	0.8	NA	NA	NA	NA	NA	NA	327.38	9.64	317.74	NA
S-3	06/16/1994	1,800	NA	430	19	35	21	NA	NA	NA	NA	NA	NA	327.38	9.78	317.60	NA
S-3	05/05/1995	160	NA	50	0.9	7.2	4.1	NA	NA	NA	NA	NA	NA	327.38	9.38	318.00	NA
S-3	05/21/1996	270	NA	45	<0.5	1.4	<0.5	NA	NA	NA	NA	NA	NA	327.38	9.41	317.97	NA
S-3 (D)	05/21/1996	210	NA	<0.5	<0.5	0.95	<0.5	NA	NA	NA	NA	NA	NA	327.38	9.41	317.97	NA
S-3	05/12/1997	420	NA	<1.0	<1.0	<1.0	<1.0	57	NA	NA	NA	NA	NA	327.38	9.30	318.08	2.5
S-3	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	327.38	9.12	318.26	2.2
S-3	06/27/1999	106	NA	8.51	<0.500	<0.500	<0.500	31.0	NA	NA	NA	NA	NA	327.38	9.39	317.99	2.1
S-3	04/28/2000	139	NA	7.58	<0.500	<0.500	<0.500	42.6	NA	NA	NA	NA	NA	327.38	9.04	318.34	1.8
S-3	05/30/2001	2,200	NA	510	6.9	100	21	NA	33	NA	NA	NA	NA	327.38	9.19	318.19	2.0
S-3	06/17/2002	600	NA	150	2.1	30	11	NA	36	NA	NA	NA	NA	327.38	9.35	318.03	0.1
S-3	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	9.0	NA	NA	NA	NA	327.04	8.39	318.65	1.2
S-3	05/03/2004	61 k	NA	0.90	<0.50	<0.50	<1.0	NA	9.8	NA	NA	NA	NA	327.04	8.73	318.31	1.2
S-3	01/14/2005	94	NA	4.6	<0.50	3.1	1.0	NA	13	NA	NA	NA	NA	327.04	8.00	319.04	NA
S-3	05/05/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	5.7	<0.50	<0.50	<0.50	<5.0	327.04	8.31	318.73	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3	08/05/2005	<50	NA	0.51	<0.50	<0.50	<1.0	NA	6.0	<2.0	<2.0	<2.0	42	327.04	8.32	318.72	NA
S-3	09/16/2005	<50	NA	0.62	<0.50	<0.50	<1.0	NA	7.9	<2.0	<2.0	<2.0	<5.0	327.04	8.29	318.75	NA
S-3	11/08/2005	166	NA	63.0	1.32	7.20	2.99	NA	8.67	<0.500	<0.500	<0.500	<10.0	327.04	8.17	318.87	NA
S-3	01/31/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	7.05	<0.500	<0.500	<0.500	<10.0	327.04	8.05	318.99	NA
S-3	05/16/2006	<50.0	NA	3.23	<0.500	1.42	1.63 m	NA	3.92	<0.500	<0.500	<0.500	<10.0	327.04	8.62	318.42	NA
S-3	08/23/2006	<50.0	NA	18.9	<0.500	1.72	0.800	NA	7.65	<0.500	<0.500	<0.500	<10.0	327.04	8.54	318.50	NA
S-3	11/13/2006	530	NA	130 f	3.4 f	10 f	4.6 f	NA	17 f	<2.0 f	<2.0 f	<2.0 f	<80 f	327.01	8.65	318.36	NA
S-3	02/01/2007	430	NA	230	4.4	4.0	<5.0	NA	17	<10	<10	<10	<25	327.01	8.41	318.60	NA
S-4	01/25/1991	<50	<50	<0.5	1.5	<0.5	2.8	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	04/16/1991	<50	0.7	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	10/18/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	8.82	318.56	NA
S-4	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	07/17/1992	<500	74	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	10/16/1992	<500	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	01/23/1993	<500	94 b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	8.32	319.06	NA
S-4	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	9.76	317.62	NA
S-4	09/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.30	318.08	NA
S-4	12/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.74	317.64	NA
S-4	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.60	317.78	NA
S-4	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.42	317.96	NA
S-4	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	9.02	318.36	NA
S-4	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	9.29	318.09	NA
S-4	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	140	NA	NA	NA	NA	NA	327.38	7.95	319.43	2.5

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

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S-4	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	250	NA	NA	NA	NA	NA	327.38	8.96	318.42	2.0
S-4	06/27/1999	303	NA	35.8	24.8	12.4	69.8	106	NA	NA	NA	NA	NA	327.38	8.90	318.48	2.6
S-4	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	40.2	NA	NA	NA	NA	NA	327.38	8.37	319.01	1.9
S-4	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	6.8	NA	NA	NA	NA	327.38	8.83	318.55	1.8
S-4	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	31	NA	NA	NA	NA	327.38	9.37	318.01	4.8
S-4	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	130	NA	NA	NA	NA	327.24	8.46	318.78	1.4
S-4	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	170	NA	NA	NA	NA	327.24	8.70	318.54	1.1
S-4	01/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	25	NA	NA	NA	NA	327.24	8.17	319.07	NA
S-4	05/05/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	15	<0.50	<0.50	<0.50	<5.0	327.24	8.25	318.99	NA
S-4	08/05/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	6.1	<2.0	<2.0	<2.0	<5.0	327.24	8.14	319.10	NA
S-4	11/08/2005	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	1.01	<0.500	<0.500	<0.500	<10.0	327.24	8.33	318.91	NA
S-4	01/31/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	327.24	8.29	318.95	NA
S-4	05/16/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	327.24	8.46	318.78	NA
S-4	08/23/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	327.24	8.34	318.90	NA
S-4	11/13/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<20	327.24	8.23	319.01	NA
S-4	02/01/2007	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	327.24	8.56	318.68	NA
S-5	01/25/1991	<50	<50	<0.5	<0.5	<0.5	0.7	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	04/16/1991	<50	<50	<0.5	<0.5	<0.5	0.8	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	10/18/1991	120 e	<50	4.3	<0.5	1	0.7	NA	NA	NA	NA	NA	NA	327.76	10.00	317.76	NA
S-5	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	04/27/1992	50	<50	<0.5	<0.5	<0.5	0.6	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	07/17/1992	<50	70	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	10/16/1992	230	57	13	<0.5	4.9	4.3	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	01/23/1993	<50	150 b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	8.88	318.88	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-5	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	10.20	317.56	NA
S-5	09/22/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	9.92	317.84	NA
S-5	12/08/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	10.19	317.57	NA
S-5	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	9.95	317.81	NA
S-5	06/16/1994	<50	NA	0.9	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	10.02	317.74	NA
S-5	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	9.58	318.18	NA
S-5	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	9.84	317.92	NA
S-5	05/12/1997	360	NA	3.3	<0.50	17	9.8	130	NA	NA	NA	NA	NA	327.76	9.16	318.60	4.2
S-5	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	92	NA	NA	NA	NA	NA	327.76	9.25	318.51	3.8
S-5 (D)	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	100	NA	NA	NA	NA	NA	327.76	9.25	318.51	3.8
S-5	06/27/1999	223	NA	13.7	12.9	8.20	45.8	106	NA	NA	NA	NA	NA	327.76	9.39	318.37	3.0
S-5	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	255	NA	NA	NA	NA	NA	327.76	9.43	318.33	1.2
S-5	05/30/2001	<100	NA	<1.0	<1.0	<1.0	<1.0	NA	480	NA	NA	NA	NA	327.76	9.47	318.29	1.1
S-5	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	210	NA	NA	NA	NA	327.76	9.74	318.02	0.2
S-5	05/30/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	450	NA	NA	NA	NA	327.43	8.87	318.56	1.7
S-5	05/03/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	470	NA	NA	NA	NA	327.43	9.10	318.33	0.7
S-5	01/14/2005	<100	NA	<1.0	<1.0	<1.0	<2.0	NA	230	NA	NA	NA	NA	327.43	8.43	319.00	NA
S-5	05/05/2005	76	NA	16	<0.50	<0.50	<0.50	NA	120	<0.50	<0.50	<0.50	630	327.43	8.71	318.72	NA
S-5	08/05/2005	1,900	NA	57	7.5	22	17	NA	240	<4	<4	<4	480	327.43	8.90	318.53	NA
S-5	09/16/2005	1,400	NA	87	2.0	7.8	5.8	NA	75	<4.0	<4.0	<4.0	630	327.43	8.84	318.59	NA
S-5	11/08/2005	315	NA	35.8	<0.500	<0.500	1.07	NA	49.1	<0.500	<0.500	<0.500	<10.0	327.43	8.86	318.57	NA
S-5	01/31/2006	335	NA	7.74	<0.500	<0.500	<0.500	NA	48.2	<0.500	<0.500	<0.500	337	327.43	8.66	318.77	NA
S-5	05/16/2006	349	NA	3.54	<0.500	<0.500	<0.500	NA	24.7	<0.500	<0.500	<0.500	182	327.43	9.00	318.43	NA
S-5	08/23/2006	<50.0	NA	5.39	<0.500	<0.500	<0.500	NA	17.0	<0.500	<0.500	<0.500	91.0	327.43	8.97	318.46	NA
S-5	11/13/2006	420	NA	19	1.7	<0.50	1.7	NA	19	<0.50	<0.50	<0.50	80	327.43	8.77	318.66	NA
S-5	02/01/2007	280	NA	14	2.1	<0.50	1.4	NA	13	<2.0	<2.0	<2.0	42	327.43	9.30	318.13	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-6	01/25/1991	<50	<50	<0.5	1.7	<0.5	2.8	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	04/16/1991	<50	<50	<0.5	<0.5	<0.5	0.6	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	07/24/1991	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	10/18/1991	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	NA	NA	NA	NA	326.56	8.84	317.22	NA
S-6	01/23/1992	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	07/17/1992	400	130	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	01/23/1993	<50	230 b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	7.82	318.74	NA
S-6	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	9.00	317.56	NA
S-6	09/22/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	8.61	317.96	NA
S-6	12/08/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	10.02	316.54	NA
S-6	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	8.88	317.68	NA
S-6	06/16/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	9.04	317.52	NA
S-6	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	8.54	318.02	NA
S-6	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	8.62	317.94	NA
S-6	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	326.56	8.60	317.96	2.6
S-6	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	326.56	7.90	318.66	2.2
S-6	06/27/1999	430	NA	50.1	30.5	15.2	83.5	8.05	NA	NA	NA	NA	NA	326.56	8.01	318.55	2.3
S-6	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	326.56	8.84	317.72	2.0
S-6	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	326.56	8.54	318.02	1.9
S-6	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	326.56	8.48	318.08	1.3
S-6	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	8.7	NA	NA	NA	NA	326.35	7.36	318.99	1.0
S-6	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	326.35	8.08	318.27	0.9
S-6	01/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	326.35	7.38	318.97	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-6	05/05/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	326.35	7.55	318.80	NA
S-6	08/05/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	326.35	7.61	318.74	NA
S-6	11/08/2005	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	326.35	7.64	318.71	NA
S-6	01/31/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	30.5	326.35	7.90	318.45	NA
S-6	05/16/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	326.35	8.16	318.19	NA
S-6	08/23/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	10.9	326.35	7.77	318.58	NA
S-6	11/13/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<20	326.35	8.15	318.20	NA
S-6	02/01/2007	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	1.2	<2.0	<2.0	<2.0	<5.0	326.35	8.36	317.99	NA

S-7	01/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	04/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	10/18/1991	<50	140 f	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	8.92	317.57	NA
S-7	01/23/1992	<50	140 f	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	07/17/1992	<50	<50	<0.5	1.8	0.6	4.1	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	01/23/1993	<50	110 b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	8.06	318.43	NA
S-7	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	8.94	317.55	NA
S-7	09/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.57	317.92	NA
S-7	12/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	9.00	317.49	NA
S-7	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.96	317.53	NA
S-7	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	9.12	317.37	NA
S-7	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	8.58	317.91	NA
S-7	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	8.64	317.85	NA
S-7	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	326.49	8.74	317.75	2.3

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-7	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	326.49	8.00	318.49	2.5
S-7	06/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	326.49	8.75	317.74	2.9
S-7	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	326.49	8.96	317.53	2.2
S-7	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	326.49	8.65	317.84	2.0
S-7	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	326.49	8.55	317.94	2.3
S-7	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	12	NA	NA	NA	NA	326.36	7.88	318.48	1.8
S-7	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	100	NA	NA	NA	NA	326.36	8.30	318.06	1.2
S-7	01/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	41	NA	NA	NA	NA	326.36	7.70	318.66	NA
S-7	05/05/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	91	<0.50	<0.50	6.8	<5.0	326.36	7.60	318.76	NA
S-7	08/05/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	100	<2.0	<2.0	7.5	<5.0	326.36	8.42	317.94	NA
S-7	11/08/2005	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	124	<0.500	<0.500	8.70	<10.0	326.36	7.61	318.75	NA
S-7	01/31/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	93.0	<0.500	<0.500	4.50	<10.0	326.36	7.85	318.51	NA
S-7	05/16/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	76.3	<0.500	<0.500	2.98	<10.0	326.36	8.08	318.28	NA
S-7	08/23/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	34.7	<0.500	<0.500	2.02	<10.0	326.36	7.93	318.43	NA
S-7	11/13/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	27	<0.50	<0.50	1.6	<20	326.36	8.15	318.21	NA
S-7	02/01/2007	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	45	<2.0	<2.0	2.9	28	326.36	8.35	318.01	NA
S-8	01/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	04/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	10/18/1991	<50	360 f	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.62	317.70	NA
S-8	01/23/1992	<50	90	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	07/17/1992	53	<50	<0.5	1	<0.5	1.8	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	01/23/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.00	318.32	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-8	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.77	317.55	NA
S-8	09/22/1993	<50	160	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.67	317.65	NA
S-8	12/08/1993	<50	210	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.76	317.56	NA
S-8	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.66	317.66	NA
S-8	06/16/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.78	317.54	NA
S-8	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.42	317.90	NA
S-8	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.50	317.82	NA
S-8	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	325.32	7.56	317.76	1.6
S-8	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	325.32	7.64	317.68	2.0
S-8	06/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	325.32	7.75	317.57	2.3
S-8	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	325.32	8.02	317.30	1.8
S-8	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	325.32	7.34	317.98	1.8
S-8	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	325.32	7.45	317.87	1.8
S-8	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	14	NA	NA	NA	NA	325.03	7.39	317.64	3.0
S-8	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	325.03	7.00	318.03	1.0
S-8	01/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	325.03	8.65	316.39	NA
S-8	05/05/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	325.03	6.73	318.30	NA
S-8	08/05/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	325.03	6.93	318.10	NA
S-8	11/08/2005	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	325.03	6.95	318.08	NA
S-8	01/31/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	325.03	6.91	318.12	NA
S-8	05/16/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	325.03	7.02	318.01	NA
S-8	08/23/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	325.03	6.98	318.05	NA
S-8	11/13/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<20	325.03	7.09	317.94	NA
S-8	02/01/2007	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	325.03	7.27	317.76	NA
S-9	11/22/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	325.89	7.61	318.28	NA

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-9	11/27/2006	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	325.89	7.77	318.12	NA
S-9	02/01/2007	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	325.89	8.14	317.75	NA

Abbreviations:

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

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

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

MTBE = Methyl tertiary butyl ether

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

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

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

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

TOC = Top of Casing Elevation

TOB = Top of Wellbox Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

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

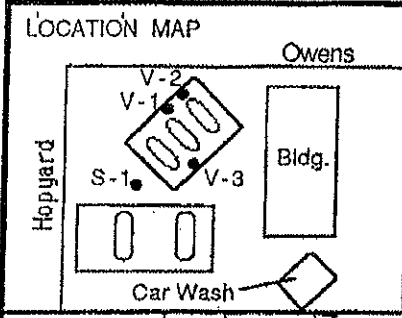
- a = Compounds detected as TEPH appear to be the less volatile constituents of gasoline.
 - b = The concentration reported as TEPH primarily due to the presence of a heavier petroleum product.
 - c = The concentration reported as TEPH due to the presence of a lighter petroleum product.
 - d = Concentrations reported as diesel includes a heavier petroleum product.
 - e = Compounds detected within the chromatographic range of TEPH but not characteristic of the standard gasoline pattern.
 - f = There was insufficient preservative to reduce the sample pH to less than 2.
 - g = Compounds detected within the chromatographic range of TEPH but not characteristic of the standard diesel pattern.
 - h = The chromatographic pattern of the purgeable hydrocarbons found in the sample is similar to the pattern of weathered gasoline.
 - i = DO reading not taken.
 - j = The results may be biased slightly high.
 - k = The hydrocarbon reported in the gasoline range does not match the laboratory standard.
 - l = Extracted out of holding time.
 - m = Analyte was detected in the associated Method Blank.
- Site surveyed April 16, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.
Beginning May 30, 2003, depth to water referenced to Top of Casing elevation.
Wells S-2, S-3 and S-9 were surveyed on November 22, 2006 by Mid Coast Engineers.

APPENDIX C
WELL AND BORING DATA

Well Construction Data
Shell-branded Service Station
5251 Hopyard, Pleasanton, California

Well	Date Installed	Total Depth (feet)	Well Diam. (inches)	Screened Interval (feet)
S-1	1/5/88	29	3	5 to 29
S-2	NA	24 (1)	3	NA
S-3	NA	24 (1)	3	NA
S-4	NA	24 (1)	3	NA
S-5	NA	24 (1)	3	NA
S-6	10/30/89	25.5	3	5.5 to 25.5
S-7	10/30/89	26	3	6 to 26
S-8	11/6/89	25	3	5 to 25
V-1	1/5/88	14.5	3	10 to 14.5
V-2	1/5/88	14.5	3	10 to 14.5
V-3	1/5/88	14.5	3	10 to 14.5

Note: Logs for Wells S-2 through S-5 not available. Total well depth and well diameter from Blaine Tech monitoring report.



PACIFIC ENVIRONMENTAL GROUP, INC.

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

PROJECT NO. 101-09.01
LOGGED BY: MD
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: 1-5-88
LOCATION: Hopyard & Owens
HOLE DIAMETER: 8"
HOLE DEPTH: 30.5'
WELL DEPTH: 29'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2			ASPHALT & GRAVEL - FILL.
	Dp 1.0		PUSH 400	4		CL	CLAY; dark gray; moderate plasticity; silty; trace iron oxide stains. @3'; no product odor.
	Mst 0.0		11	10			@9'; as above; tan mottled gray; gray around rootholes; abundant rootholes; trace-5% fine sand; stiff; no product odor.
	Wt 5.5		11	14			@14'; as above; water in rootholes; stiff; no product odor.
	Wt 0.0		17	20			@19'; as above; no sand; very stiff; no product odor.
	Wt 0.8		16	24			@24'; as above; trace-5% fine to medium sand; stiff; no product odor.
	Wt 0.0		34	30		SC	CLAYEY SAND; light to medium brown; 10-15% low plasticity fines; very fine grained; poorly graded; dense. @30'; no product odor.
				32			
				34			
				36			
				38			
				40			
				42			
				44			

BOTTOM OF BORING AT 30.5'

Field location of boring: (See Plate 2)	Project No.: 7633	Date: 10/30/89	Boring No:
	Client: Shell Oil Company		S-6
	Location: 5251 Hoopyard Road		Sheet 1
	City: Pleasanton, California		of 2
	Logged by: R.S.Y.	Driller: Bayland	
Casing installation data:			

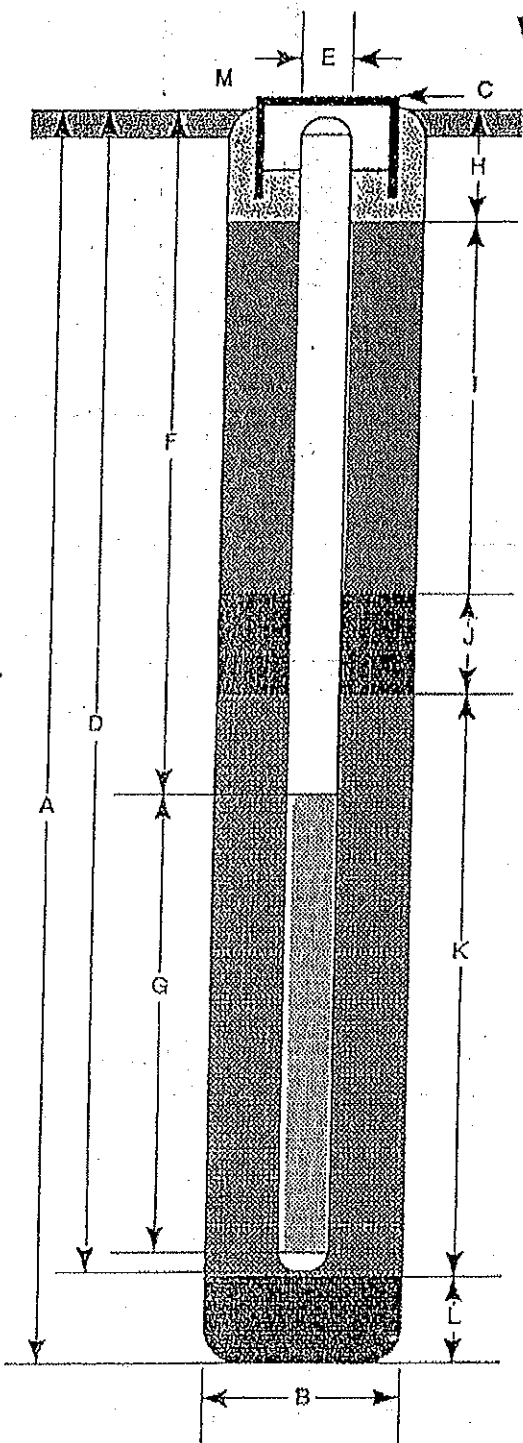
Drilling method: Hollow-Stem Auger	Top of Box Elevation: 326.56	Datum: MSL
Hole diameter: 8-Inch		

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Unit Detail	Soil Group Symbol (USCS)	Water Level		Description
								Time	Date	
				1						PAVEMENT SECTION - 2.5 feet
				2						
0	4	S&H		3						
	12		S-6	4						CLAY (CH) - black (7.5YR 2/0), very stiff, damp, trace fine sand, high plasticity; rootlets; no chemical odor.
	13		4.5	5						
				6						
				7						
				8						
				9						soft drilling at 8.0 feet.
0	350	S&H		10						SANDY CLAY (CL) - dark grayish brown (10YR 4/2), very stiff, damp, low plasticity; 35% very fine sand; trace gravels; no chemical odor.
	350	push	S-6	11						
	350		11.0	12						
				13						
0	4	S&H		13						
	7		S-6	14						same as above; rootholes; voids.
	7		14.0	15						
	3			16						
	4		S-6	15						sand lense at 15.0 feet - 2.0 inches thick; no chemical odor.
	5		15.5	16						
				17						
				18						
				19						Sample rods wet at 18.5 feet

Remarks:

Field location of boring: (See Plate 2)				Project No.: 7633		Date: 10/30/89		Boring No.:	
				Client: Shell Oil Company		Location: 5251 Hopyard Road		City: Pleasanton, California	
Drilling method: Hollow-Stem Auger				Top of Box Elevation:		Datum:			
Hole diameter: 8-Inch				Water Level		Time			
				Date		Description			
PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)		
0	4	S&H		20				same as above; trace well rounded gravel.	
	5		S-6	21					
	6		21.0	21					
				22					
				23					
				24					
0	4	S&H		25				CLAY (CH) - black (7.5YR 2/0), medium stiff, saturated, high plasticity; trace fine gravel; no chemical odor.	
	3		S-6	26				Bottom of boring at 26.0 feet. Bottom of sample at 26.0 feet.	
	2		26.0	26					
				27					
				28					
				29					
				30					
				31					
				32					
				33					
				34					
				35					
				36					
				37					
				38					
				39					
Remarks:									

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 26.0 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method _____ Hollow-Stem Auger
- C Top of Box Elevation _____ 326.56 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 25.5 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 3 in.
- F Depth to Top Perforations _____ 6.0 ft.
- G Perforated Length _____ 20 ft.
Perforated Interval from _____ 6 to _____ 26 ft.
Perforation Type _____ Schedule 40 PVC
Perforation Size _____ 0.020 in.
- H Surface Seal from _____ 0 to _____ 1.5 ft.
Seal Material _____ concrete grout
- I Backfill from _____ 1.5 to _____ 4.0 ft.
Backfill Material _____ cement grout
- J Seal from _____ 4.0 to _____ 5.0 ft.
Seal Material _____ Bentonite Pellets
- K Gravel Pack from _____ 5.0 to _____ 26.0 ft.
Pack Material _____ Lonestar #2/12 sand
- L Bottom Seal _____ ft.
Seal Material _____
- M _____



GeoStrategies Inc.

Well Construction Detail

WELL NO.

S-6

JOB NUMBER
7633

REVIEWED BY R/C/CEG
CAMP CEG 1262

DATE
11/89

REVISED DATE

REVISED DATE

Field location of boring: (See Plate 2)

Project No.: 7633 Date: 10/30/89 Boring No: S-7

Client: Shell Oil Company

Location: 5251 Hopyard Road

City: Pleasanton, California

Logged by: R.S.Y. Driller: Bayland

Casing installation data:

Drilling method: Hollow-Stem Auger

Hole diameter: 8-Inch

Top of Box Elevation: 326.49 Datum: MSL

PID (ppm)	Blows/ft or Pressure (psf)	Type of Sample	Sample Number	Depth (ft)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level
								Time
				1				PAVEMENT SECTION - 2.5 feet
				2				
				3				
				4				
0	450	S&H		5				CLAY with SAND (CH) - black (2.5Y 2/0), very stiff, moist, high plasticity; 20% very fine sand; trace well rounded fine gravel; 30% peat from 4.5 to 6.0 feet; no chemical odor.
	450	push	S-7	6				
	450		6.0	6				
				7				
				8				
				9				soft at 8.5 feet
0	200	S&H		10				
	200	push	S-7	11				SANDY CLAY (CL) - very dark grayish brown (7.5YR 3/2), stiff, moist, low plasticity; 35% very fine sand; no chemical odor.
	200		11.0	11				
				12				
				13				
				14				
0	4	S&H		15				
	5		S-7	16				CLAY (CH) - very dark gray (7.5YR 3/0), medium stiff, very moist, open voids, high plasticity; calcareous stringers; no chemical odor.
	6		16.0	16				
				17				
				18				
				19				Sample rods wet at 18.5 feet

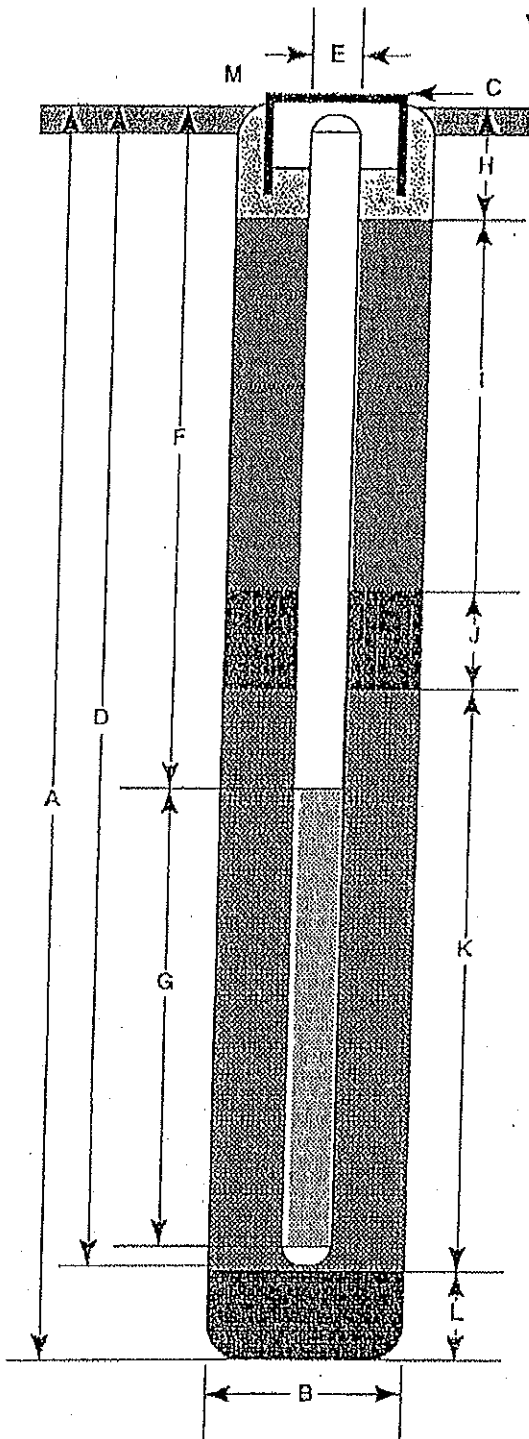
Remarks:

Log of Boring

GeoStrategies Inc. BORING NO. S-7

Field location of boring: (See Plate 2)								Project No.: 7633	Date: 10/30/89	Boring No:
								Client: Shell Oil Company	S-7	
								Location: 5251 Hopyard Road	Sheet 2	
								City: Pleasanton, California	of 2	
								Logged by: R.S.Y.	Driller: Bayland	
Drilling method: Hollow-Stem Auger								Casing installation data:		
Hole diameter: 8-Inch								Top of Box Elevation:	Datum:	
PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	West Depth	Soil Group Symbol (USCS)	Water Level		
								Time		
0	4	S&H		20						
	5		S-7							
	6		21.0	21						COLOR CHANGE to gray (2.5Y 5/0); 10% very fine sand; no chemical odor.
				22						
				23						
				24						
0	3	S&H		25						
	4		S-7							
	5		26.0	26						CLAYEY SAND (SC) - olive gray (5Y 4/2), loose, saturated; 70% very fine sand; 30% clay; no chemical odor.
	2	S&H		27						CLAY (CL) - dark gray (2.5Y 4/0), medium stiff, moist, low plasticity; no chemical odor.
	3			28						
	4			29						
				30						Bottom of boring at 27.5 feet. Bottom of sample at 27.5 feet.
				31						
				32						
				33						
				34						
				35						
				36						
				37						
				38						
				39						
Remarks:										

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 27.5 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method _____ Hollow-Stem Auger
- C Top of Box Elevation _____ 326.49 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 25.5 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 3 in.
- F Depth to Top Perforations _____ 4.5 ft.
- G Perforated Length _____ 20 ft.
Perforated Interval from _____ 5.5 to _____ 25.5 ft.
Perforation Type _____ Schedule 40 PVC
Perforation Size _____ 0.020 in.
- H Surface Seal from _____ 0 to _____ 1.5 ft.
Seal Material _____ concrete grout
- I Backfill from _____ 1.5 to _____ 3.5 ft.
Backfill Material _____ cement grout
- J Seal from _____ 3.5 to _____ 4.5 ft.
Seal Material _____ Bentonite Pellets
- K Gravel Pack from _____ 4.5 to _____ 27.5 ft.
Pack Material _____ Lonestar #2/12 sand
- L Bottom Seal _____ ft.
Seal Material _____
- M _____



GeoStrategies Inc.

Well Construction Detail

WELL NO.

S-7

JOB NUMBER
7633

REVIEWED BY R3/CEG
UMP ceg R62

DATE
11/89

REMBED DATE

REVISED DATE

Field location of boring: (See Plate 2)

Project No.: 7633 Date: 11/06/89 Boring No: S-8

Client: Shell Oil Company

Location: 5251 Hopyard Road

City: Pleasanton, California Sheet 1 of 2

Logged by: R.S.Y. Driller: Bayland

Casing installation data:

Drilling method: Hollow-Stem Auger

Hole diameter: 8-inch

Top of Box Elevation: 325.32 Datum: MSL

PTD (ppm)	Blowfall or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Hell Detail	Soil Group Symbol (USCS)	Description
				1				PAVEMENT SECTION - 2.5 feet
				2				
				3				
				4				CLAY (CL) - black (2.5YR 5/6), medium stiff, damp, medium plasticity; trace coarse sand; no chemical odor.
0	100	S&H		5				
	100	push	S-8	5				
	100		5.5	6				
				6				SILT (ML) - dark gray (7.5YR 4/0), medium stiff, moist; 20% very fine sand; voids; no chemical odor.
				7				
				8				
				9				
0	100	S&H		10				
	100	push	S-8	10				SILTY SAND (SM) - brown (10YR 5/3), loose, very damp; 70% very fine sand; 30% silt; no chemical odor.
	100		10.5	11				
				12				
				13				
				14				
0	2	S&H		15				
	2		S-8	15				SILTY CLAY (CL) - dark brownish gray (2.5Y 4/2), medium stiff, moist; 60% clay; 40% silt; no chemical odor.
	5		15.5	16				
				17				
				18				
				19				Sample rods wet at 18.5 feet

Remarks:

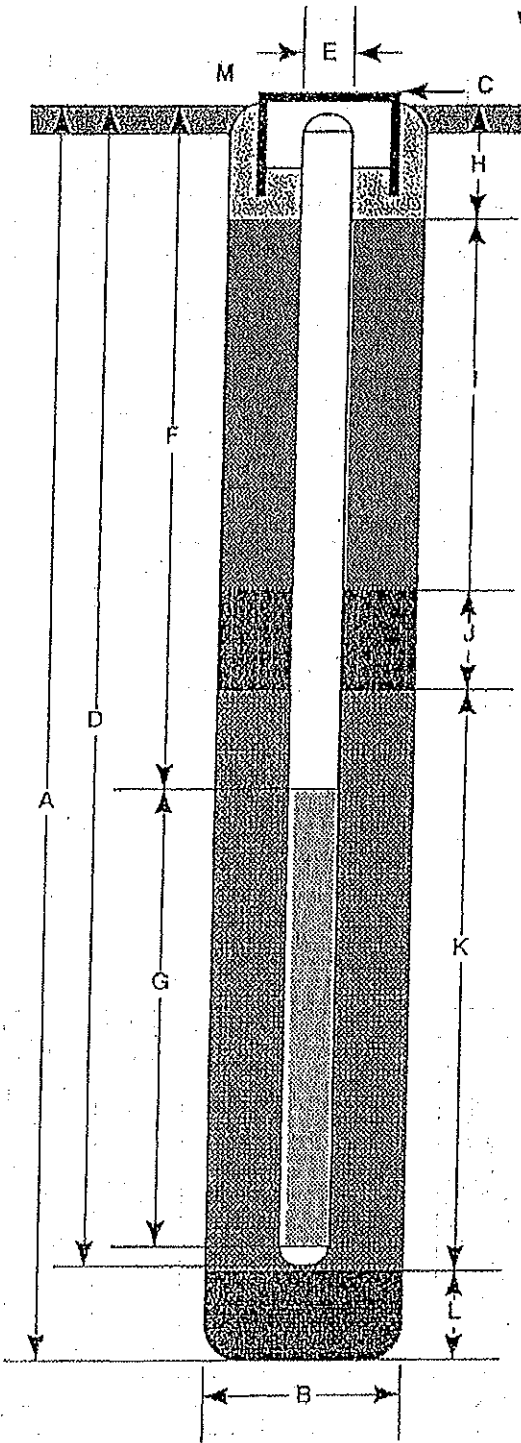
Field location of boring: (See Plate 2)	Project No.: 7633	Date: 11/06/89	Boring No:
	Client: Shell Oil Company		S-8
	Location: 5251 Hopyard Road		Sheet 2
	City: Pleasanton, California	Logged by: R.S.Y.	Driller: Bayland
Casing installation data:			

Drilling method: Hollow-Stem Auger	Top of Box Elevation:	Datum:
Hole diameter: 8-Inch	Water Level	
	Time	
	Date	

PCD (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
0	2	S&H		20				
	2		S-8	20.5				
	5			21				same as above; caliche nodules.
				22				
				23				
				24				
	4	S&H		25				COLOR CHANGE to olive gray (5Y 4/2), increasing density.
	5		S-8	26				
	6		26.0	26				Bottom of boring at 26.0 feet. Bottom of sample at 26.0 feet.
				27				
				28				
				29				
				30				
				31				
				32				
				33				
				34				
				35				
				36				
				37				
				38				
				39				

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 26 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method _____ Hollow-Stem Auger
- C Top of Box Elevation _____ 325.32 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 25 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 3 in.
- F Depth to Top Perforations _____ 5 ft.
- G Perforated Length _____ 20 ft.
Perforated Interval from _____ 5 to _____ 25 ft.
Perforation Type _____ Schedule 40 PVC
Perforation Size _____ 0.020 in.
- H Surface Seal from _____ 0.0 to _____ 1.5 ft.
Seal Material _____ concrete grout
- I Backfill from _____ 1.5 to _____ 3.0 ft.
Backfill Material _____ cement grout
- J Seal from _____ 3 to _____ 4 ft.
Seal Material _____ Bentonite Pellets
- K Gravel Pack from _____ 4 to _____ 26 ft.
Pack Material _____ Lonestar #2/12 sand
- L Bottom Seal _____ ft.
Seal Material _____
- M _____



GeoStrategies Inc.

Well Construction Detail

WELL NO.

S-8

JOB NUMBER
7633

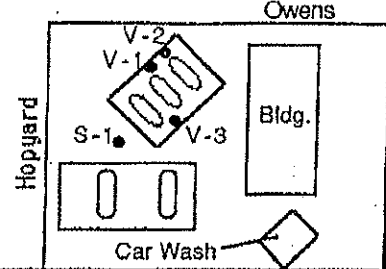
REVIEWED BY PG/CEG
CWP CE 1262

DATE
11/89

REVISED DATE

REVISED DATE

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

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

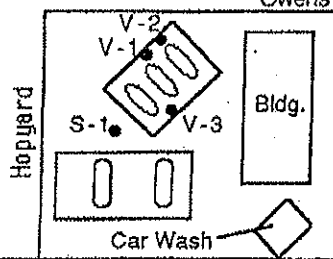
PROJECT NO. 101-09.01
LOGGED BY: MD
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020
GRAVEL PACK: Pea Gravel

CLIENT: G.R. Shell
DATE DRILLED: 1-5-88
LOCATION: Hopyard & Owens
HOLE DIAMETER: 8"
HOLE DEPTH: 14.5'
WELL DEPTH: 14.5'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CONCRETE				0-2		GP	GP	GRAVEL; light gray; fine grained; pea gravel tank backfill; no samples taken in fill. moderate product odor in gravel brought up in augers. CLAY; tan to medium brown; gray mottle at rootholes; abundant rootholes; water in rootholes; trace fine to medium sand; very stiff. @14'; faint product odor. BOTTOM OF BORING AT 14.5'
BENTONITE				2-4				
				4-6				
				6-8				
				8-10				
				10-12				
				12-14				
				14-16		CL	CL	
				16-18				
				18-20				
				20-22				
				22-24				
				24-26				
				26-28				
				28-30				
				30-32				
				32-34				
				34-36				
				36-38				
				38-40				
				40-42				
				42-44				

Wt 18 21

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

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

PROJECT NO. 101-09.01
LOGGED BY: MD
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020
GRAVEL PACK: Pea Gravel

CLIENT: G.R. Shell
DATE DRILLED: 1-5-88
LOCATION: Hopyard & Owens
HOLE DIAMETER: 8"
HOLE DEPTH: 14.5'
WELL DEPTH: 14.5'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
CONCRETE				2	○○○○○○○○○○	GP	GRAVEL; light gray; tank backfill; fine grained pea gravel; no samples taken in fill. faint product odor in gravel brought up in augers.	
BENTONITE				4	○○○○○○○○○○			
				6	○○○○○○○○○○			
				8	○○○○○○○○○○			
				10	○○○○○○○○○○			
				12	○○○○○○○○○○			
				14	■	CL		
	Wt 0.3		16	16				CLAY; tan; gray mottle around rootholes; silty; trace fine sand; roots; stiff. @13'; faint product odor. BOTTOM OF BORING AT 14.5'
				18				
				20				
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

Delta

Environmental Consultants, Inc.

Project No:	SJ52-51H-1	Client:	Shell Oil Products US	Boring No:	GP-1
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 1 of 1	
Driller:	Gregg	Date Drilled:	5/2/2005	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	3"	Please see site map	
Sampling Method:	GeoProbe	Hole Depth:	28 ft		
Casing Type:		Well Diameter:			
Slot Size:		Well Depth:			
Gravel Pack:		Casing Stickup:			

Elevation	Northing	Easting
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Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/ft)	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing							AF	Asphalt 4", Concrete 2"
					1		GW	Well graded GRAVEL with clay and sand: medium brown; 60-70% gravel 1/4" to 3/4"; 25-35% well graded sand; 5-15% fines
					2			
					3		CL	Lean CLAY: medium brown; moderate to high plasticity; trace fine to medium grained sand
					4			
		damp	1.1		5			(same as above, dark gray)
					6			
					7			(same as above, dark brown mottling)
					8			
					9			
			339		10			
					11			
					12			
					13			
					14			
		moist	233		15			
					16		CL	Lean CLAY with Sand: medium brown mottled with gray; moderate plasticity; 10-15% fine to coarse grained sand
					17			
					18			
					19			
		wet	242		20		ML	SILT with Sand: medium brown; slight plasticity; 10-15% coarse grained sand
					21			
					22			
Boring terminated at 22 feet below grade								

air knifed & hand augered

Grout



Delta

Environmental Consultants, Inc.

Project No:	SJ52-51H-1	Client:	Shell Oil Products US	Boring No:	GP-2
Logged By:	Heather Buckingham	Location:	5251 Hopyard Rd., Pleasanton	Page 1 of 1	
Driller:	Gregg	Date Drilled:	8/10/05 & 8/11/05	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	3"	Please see site map	
Sampling Method:	GeoProbe	Hole Depth:	22 ft		
Casing Type:		Well Diameter:			
Slot Size:		Well Depth:			
Gravel Pack:		Casing Stickup:			

Elevation	Northing	Easting
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Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
							AF	Asphalt 4", Concrete 2"
		damp			1		CL	Lean CLAY: dark gray; moderate to high plasticity; trace gravels (1/4"); trace fine grained sand
					2			
					3			
					4			
		damp	3.4		5			(same as above, no trace gravels)
					6			
					7			
					8			
			0.6		9			
					10			
					11		CL	Lean CLAY with Sand: medium brown with dark gray mottling; moderate to high plasticity; 10-15% coarse grained sand
					12			
					13			
					14			
			0.8		15			
					16		CL	Lean CLAY: (same as above, medium brown with dark gray mottling)
					17			
					18			
					19			
		wet	2.1		20			
					21			
					22		CL	Lean CLAY: (same as above) Boring terminated at 22 feet below grade

Delta

Environmental Consultants, Inc.

Project No:	SJ52-51H-1	Client:	Shell Oil Products US	Boring No:	GP-3
Logged By:	Heather Buckingham	Location:	5251 Hopyard Rd., Pleasanton	Page 1 of 1	
Driller:	Gregg	Date Drilled:	8/10/05 & 8/11/05	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	3"	Please see site map	
Sampling Method:	GeoProbe	Hole Depth:	22 ft		
Casing Type:		Well Diameter:			
Slot Size:		Well Depth:			
Gravel Pack:		Casing Stickup:			

Elevation	Northing	Easting
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill	Casing								Static Water Level
Grout		damp	84.3	↑ air knifed & hand augered	1		AF	Asphalt 6"	
					2	SW	Well graded SAND with clay and gravel: medium brown; 50-70% well graded sand; 20-30% gravel up to 1.5" in length; 10-20% fines		
		dry			3		CL	Lean CLAY: dark gray; moderate plasticity; trace fine grained sand	
					4				
		wet	5						
			6						
			7						
			8						
			9						
			10	0.1				CL	Sandy Lean CLAY: grayish brown; slight plasticity; 35-45% medium grained sand; trace gravels (1/4")
			11						
			12					CL	Lean CLAY with Sand: medium brown with light gray mottling; moderate plasticity; 10-15% fine grained sand
			13						
			14						
			15	1.1					
			16						
			17						
			18						
			19						
			20	2.1					
			21						
			22						Boring terminated at 22 feet below grade

Delta

Environmental
Consultants, Inc.

Project No:	SJ52-51H-1	Client:	Shell Oil Products US	Boring No:	GP-4
Logged By:	Heather Buckingham	Location:	5251 Hopyard Rd., Pleasanton	Page 1 of 1	
Driller:	Gregg	Date Drilled:	8/10/05 & 8/11/05	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	3"	Please see site map	
Sampling Method:	GeoProbe	Hole Depth:	22 ft		
Casing Type:		Well Diameter:			
Slot Size:		Well Depth:			
Gravel Pack:		Casing Stickup:			

Elevation	Northing	Easting
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Grout								AF	Asphalt 4", Concrete 2"
			damp	41.1	↑ air knifed & hand augered ↓	1		CL	Lean CLAY: dark gray; moderate plasticity; trace fine grained sands and gravels (1/4")
						2			
						3			
						4			
						5			(same as above, medium brown)
						6			
						7			(same as above, no trace gravels)
						8			
						9			
				419		10		CL	Sandy CLAY: dark gray with medium brown mottling; moderate plasticity; 25-35% fine grained sand
						11			
						12			
						13			
						14		CL	Lean CLAY: (same as above with a 2 to 3" sandy gravel layer at 17.5 feet bg)
			moist	185		15			
						16			
						17			
						18			
						19			
						20			
			wet	145		21		ML	Sandy SILT: medium brown; slight plasticity; 20-30% fine grained sand
						22			Boring terminated at 22 feet below grade

Delta

Environmental Consultants, Inc.

Project No:	SJ52-51H-1	Client:	Shell Oil Products US	Boring No:	GP-5
Logged By:	Heather Buckingham	Location:	5251 Hopyard Rd., Pleasanton	Page 1 of 1	
Driller:	Gregg	Date Drilled:	8/10/05 & 8/11/05	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	3"	Please see site map	
Sampling Method:	GeoProbe	Hole Depth:	22 ft		
Casing Type:		Well Diameter:			
Slot Size:		Well Depth:			
Gravel Pack:		Casing Stickup:			

Elevation	Northing	Easting
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
Grout		damp	24	air knifed & hand augered	1		AF	Asphalt 4", Concrete 2"
					2		CL	Sandy Lean CLAY: medium brown; moderate plasticity; 25-35% coarse grained sand; trace gravels (1/4")
					3			
					4			
					5		CL	Lean CLAY: dark gray; moderate to high plasticity; trace fine grained sand
					6			
					7			
					8			
					9			
			44.9		10			
					11			
					12			(same as above, mottled with medium brown)
					13			
					14		CL	Sandy Lean CLAY: medium brown; moderate plasticity; 25-35% fine grained sand
		damp moist damp	9.7		15			(same as above, trace gravels, 2-3" sandy gravel layer at 16 feet below grade)
					16			
					17			
					18			
					19			
			8.7		20			
		wet			21			
					22		CL	Lean CLAY: (same as above) Boring terminated at 22 feet below grade

Delta

Environmental Consultants, Inc.

Project No: SJ52-51H-1	Client: Shell Oil Products US	Well No: EW-1
Logged By: Heather Buckingham	Location: 5251 Hopyard Rd, Pleasanton	Page 1 of 1
Driller: Gregg	Date Drilled: 3/6/2006	Location Map Please see site map
Drilling Method: HSA	Hole Diameter: 10"	
Sampling Method: CA mod. SS	Hole Depth: 20'	
Casing Type: Sch 40 PVC	Well Diameter: 4"	
Slot Size: 0.01	Well Depth: 20'	
Gravel Pack: #2/12	Casing Stickup: 0	

Elevation	Northing	Easting
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
							AF	~8" of asphalt
		damp			1		CL	Sandy Lean CLAY: med. Grey, medium to high plasticity, 40% fine grained sand
					2			
					3			
					4			
					5		CL	Lean CLAY with Sand: grey, medium to high plasticity, 10-20% fine grained sand
					6			
					7			
		damp			8			
			891	6	9			(mottled with dark grey)
				10	10			
				10	10			
		wet			11			
					12			
		wet		8	13		SP	Poorly Graded SAND: medium grey, fine grained sand, 10-15% gravels 1 cm long, <10% fines
			670	10	14			
				12	15			
		wet			16		CL	Sandy Lean CLAY: medium grey, 35-45% fine grained sand, medium plasticity
					17			
					18			
		wet		6	19			
		damp	75	10	20		CL	Lean CLAY: medium brown mottled with orange, 5-10% coarse grained sand, medium plasticity
				12				

Cement

Bentonite

#2/12 Sand

Air Knifed



APPENDIX D

HISTORICAL SOIL ANALYTICAL DATA

TABLE 2

SOIL ANALYSIS DATA

SAMPLE NO	SAMPLE DATE	ANALYSIS DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)	TPH-D * (PPM)
S-6-5	30-Oct-89	05-Nov-89	<2.5	0.035	<0.025	<0.025	<0.05	<5.
S-6-10	30-Oct-89	06-Nov-89	<2.5	<0.025	<0.025	<0.025	<0.05	<5.
S-6-16	30-Oct-89	06-Nov-89	<2.5	<0.025	<0.025	<0.025	<0.05	<5.
S-7-5	30-Oct-89	06-Nov-89	<2.5	<0.025	<0.025	<0.025	<0.05	<5.
S-7-10	30-Oct-89	06-Nov-89	<2.5	<0.025	<0.025	<0.025	<0.05	<5.
S-7-15	30-Oct-89	06-Nov-89	<2.5	<0.025	<0.025	<0.025	<0.05	<5.
S-8-5.5	06-Nov-89	14-Nov-89	<2.5	<0.025	<0.025	<0.025	<0.05	<5.
S-8-10.5	06-Nov-89	14-Nov-89	<2.5	<0.025	<0.025	<0.025	<0.05	<5.
S-8-15.5	06-Nov-89	15-Nov-89	<2.5	<0.025	<0.025	<0.025	<0.05	<5.

TPH-G = Total Petroleum Hydrocarbons as Gasoline
 TPH-D = Total Petroleum Hydrocarbons as Diesel

* See analytical reports for dates analyzed (Appendix B).

PPM = parts per million

Notes: 1. All data shown as <x is reported as ND (none detected)

Table 3
Soil Analytical Data
Total Petroleum Hydrocarbons, BTEX Compounds, Oxygenates and Total Lead
by EPA Method 8260B and 8010B

Shell Branded Service Station
5251 Hopyard Road, Pleasanton

Spring Number	Depth (feet bgs)	Date Sampled	TEPH (mg/kg)	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	MSE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Ethanol (mg/kg)	Lead (mg/kg)
DISPENSER SAMPLE SOIL RESULTS																	
DS-1A	2.7	09/20/04	NA	<1.0	<0.005	0.043	0.0071	0.18	0.009	0.017	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	4.3
DS-1B	2.2	09/20/04	NA	<1.0	<0.005	0.011	<0.005	0.064	0.0051	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	5.4
DS-2A	2.7	09/20/04	NA	80	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	4.2
DS-2B	2.5	09/20/04	NA	3.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	3.4
DS-2D	N/A	09/20/04	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	4.8
DS-2E	3.0	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	0.012	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	4.3
DS-3	2.0	09/20/04	360	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	NA
DS-4A	2.0	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	4.1
DS-4B	2.0	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	3.3
DS-5A	2.5	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	3.0
DS-5B	1.7	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	2.0
DS-6A	2.3	09/20/04	NA	470	<0.50	<0.50	<0.50	1.4	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	3.1
DS-6B	2.3	09/20/04	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	3.3
DS-7	1.8	09/20/04	11	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	NA
DS-8A	2.2	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	4.1
DS-8B	2.3	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	4.6
PRODUCT PIPING AND VAPOR RECOVERY PIPING SOIL RESULTS																	
DSV2	2.5	09/28/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	0.027	0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	4.0
DSV-4	3.5	09/28/04	NA	<1.0	0.0057	<0.005	<0.005	<0.005	0.12	0.065	<0.010	<0.005	<0.005	<0.005	<0.005	NA	3.4
	5.0	10/09/04	NA	<1.0	0.016	<0.005	<0.005	<0.005	0.20	0.22	<0.010	<0.005	<0.005	<0.005	<0.005	NA	11
DSV-5	2.0	09/28/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	5.2
DSV-6	2.0	09/28/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	0.0087	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	4.3
DSV-8	3.0	09/28/04	NA	1.5	<0.005	<0.005	<0.005	<0.005	0.043	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	2.6
DSV-9	4.0	09/28/04	640	24,000	65	1,300	350	2,300	<13	<63	<25	<13	<13	<13	<13	<630	5.4
	10	09/30/04	NA	<2.0	<0.010	<0.010	<0.010	<0.010	0.053	0.093	<0.020	<0.010	<0.010	<0.010	<0.010	NA	4.3
DSV-10	3.7	09/28/04	NA	<1.0	0.034	<0.005	<0.005	<0.005	0.064	0.013	<0.010	<0.005	<0.005	<0.005	<0.005	NA	5.5
DSV-11	3.5	09/28/04	NA	<1.0	<0.005	0.018	0.0051	0.029	0.035	0.020	<0.010	<0.005	<0.005	<0.005	<0.005	NA	5.0
DSV-12	4.3	09/28/04	NA	<4.8	0.026	0.26	0.037	0.16	<0.024	<0.048	<0.048	<0.024	<0.024	<0.024	<0.024	NA	5.7

Table 3
Soil Analytical Data
Total Petroleum Hydrocarbons, BTEX Compounds, Oxygenates and Total Lead
by EPA Method 8260B and 6010B

Shell Branded Service Station
5251 Hopyard Road, Pleasanton

Boring Number	Depth (feet bgs)	Date Sampled	TPEH (mg/kg)	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-		MIBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Ethanol (mg/kg)	Lead (mg/kg)
							benzene (mg/kg)	Xylenes (mg/kg)									
DSV-13	4.0	09/28/04	NA	<1.0	0.025	<0.005	<0.005	<0.005	0.085	0.047	<0.010	<0.005	<0.005	<0.005	<0.005	NA	6.8
	5.5	09/30/04	NA	<2.0	0.030	0.012	<0.010	0.020	0.054	0.030	<0.020	<0.010	<0.010	<0.010	<0.010	NA	7.3
DSV-14	4.5	09/30/04	NA	<2.0	<0.010	<0.010	<0.010	<0.010	0.092	0.12	<0.020	<0.010	<0.010	<0.010	<0.010	NA	5.9
DSV-15	5.0	09/30/04	NA	<2.0	0.087	<0.010	<0.010	<0.010	0.17	0.086	<0.020	<0.010	<0.010	<0.010	<0.010	NA	6.2
	7.0	10/05/04	NA	5.6	0.058	0.0065	0.20	0.022	0.024	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	5.8
SOIL STOCKPILE RESULTS																	
DS-2C		09/20/04	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	3.8
SP-1 (A-D)		09/30/04	23	7.4	0.043	0.89	0.20	1.4	0.030	<0.035	<0.035	<0.018	<0.018	<0.018	<0.018	NA	6.1
PEA GRAVEL STOCKPILE RESULTS																	
EX-1		09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	6.8
PG-1 (A-D)		09/30/04	25	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	3.8
PG-2 (A-D)		09/30/04	8.1	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	2.5
PG-1.1 (A-D)		09/30/04	6.1	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	3.6
PG-2.1 (A-D)		09/30/04	14	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	1.8
PG-2.2 (A-D)		09/30/04	7.7	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	3.1
PG-2.3 (A-D)		09/30/04	12	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	1.5
PG-2.4 (A-D)		09/30/04	26	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	2.7

TPEH = Total purgeable extractable hydrocarbons
 TPPH = Total purgeable petroleum hydrocarbons
 MIBE = Methyl tert-butyl ether
 TBA = Tertiary butyl alcohol, or t-butanol
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tertiary-butyl ether
 TAME = Tertiary amyl methyl ether
 1,2-DCA = 1,2-Dichloroethane, or ethylene dichloride (EDC)
 EDB = Ethylene dibromide
 mg/kg = Milligrams per kilogram
 bgs = Below ground surface
 NA = Not analyzed

Table 4
Groundwater and Product Analytical Data
Total Petroleum Hydrocarbons, BTEX Compounds and Oxygenates
by EPA Method 8260B

Shell Branded Service Station
5251 Hopyard Road, Pleasanton

Boring Number	Depth (feet bgs)	Date Sampled	TEPH (µg/L)	TPPH (µg/L)	Ethy-				MtBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
					Benzene (µg/L)	Toluene (µg/L)	benzene (µg/L)	Xylenes (µg/L)							
Groundwater															
DSW-11	3.5	09/28/04	NA	1,200	120	290	11	84	5.9	35	<10	<10	<10	<2.5	<2.5
DSW-13	4.5	09/28/04	NA	1,300,000	<250	<250	<250	<500	<250	<2,500	<1,000	<1,000	<1,000	<250	<250
Product															
DSW-9*	3.5	09/28/04	160,000	840,000,000	NA	NA	NA	NA	<380,000	<3,800,000	<770,000	<380,000	<380,000	<5,000	<5,000

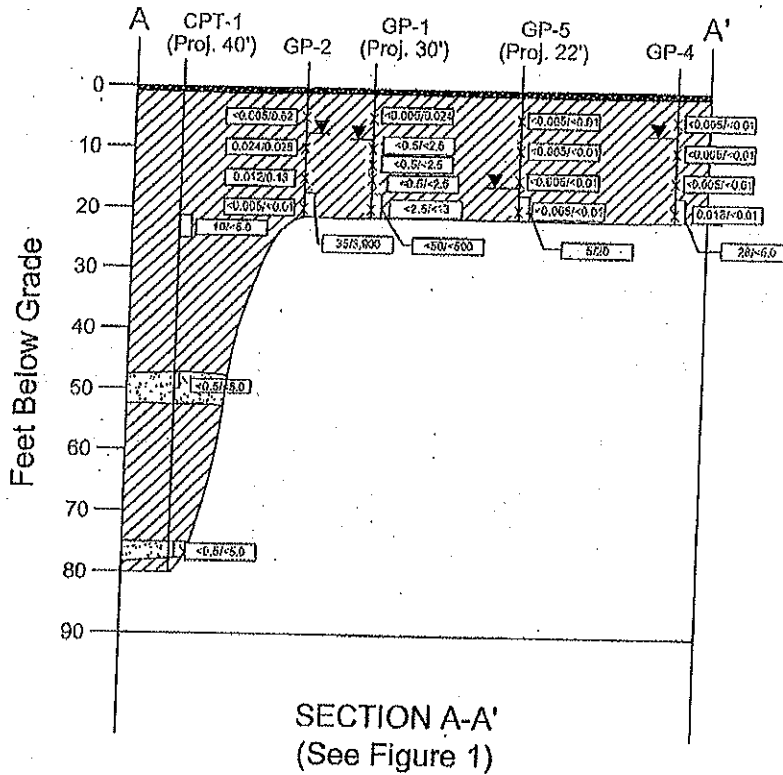
TEPH = Total purgeable extractable hydrocarbon
 TPPH = Total purgeable petroleum hydrocarbon
 MtBE = Methyl tert-butyl ether
 TBA = Tertiary butyl alcohol, or t-butanol
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tertiary-butyl ether
 TAME = Tertiary amyl methyl ether
 1,2-DCA = 1,2-Dichloroethane, or ethylene dichloride (EDC)
 EDB = Ethylene dibromide
 µg/L = Micrograms per liter
 bgs = Below ground surface
 NA = Not analyzed
 * = Product sample in micrograms per kilogram

Summary of Soil Analytical Data
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Sample Designation	Date Sampled	Depth (feet)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	Lab Notes
Geoprobe											
GP-1@5'	8/10/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<0.005	S7
GP-1@10'	8/11/2005	10	500	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.005	Q1
GP-1@12.5'	8/11/2005	12.5	660	<0.5	<0.5	4.5	<0.5	<0.5	<2.5	<0.005	H1
GP-1@15'	8/11/2005	15	540	<0.5	<0.5	5.5	<0.5	<0.5	<2.5	<0.005	
GP-1@20'	8/11/2005	20	290	<2.5	<2.5	3.8	4.2	<2.5	<13	<0.005	S3
GP-2@5'	8/10/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	S7
GP-2@10'	8/11/2005	10	<1.0	<0.005	<0.005	1.4	0.99	<0.005	0.062	<0.005	J3
GP-2@15'	8/11/2005	15	<1.0	<0.005	<0.005	<0.005	<0.005	0.024	0.026	<0.005	
GP-2@20'	8/11/2005	20	<1.0	<0.005	<0.005	<0.005	<0.005	0.012	0.13	<0.005	
GP-3@5'	8/10/2005	5	<1.0	<0.005	<0.005	<0.005	0.0055	<0.005	<0.01	<0.005	
GP-3@10'	8/11/2005	10	<1.0	<0.005	<0.005	<0.005	<0.005	0.0075	<0.01	<0.005	
GP-3@12.5'	8/11/2005	12.5	<1.0	<0.005	<0.005	<0.005	<0.005	0.0061	0.038	<0.005	
GP-3@15'	8/11/2005	15	<1.0	<0.005	<0.005	<0.005	<0.005	0.03	<0.01	<0.005	
GP-3@20'	8/11/2005	20	<1.0	<0.005	<0.005	<0.005	<0.005	0.005	2.3	<0.005	J3
GP-4@5'	8/10/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	
GP-4@10'	8/11/2005	10	<1.0	<0.005	<0.005	0.022	<0.005	<0.005	<0.011	<0.005	
GP-4@15'	8/11/2005	15	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	S7
GP-4@20'	8/11/2005	20	<1.0	<0.005	<0.005	<0.005	<0.005	0.013	<0.01	<0.005	
GP-5@5'	8/10/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	
GP-5@10'	8/11/2005	10	<1.0	<0.005	0.0051	0.046	0.14	<0.005	<0.01	<0.005	
GP-5@15'	8/11/2005	15	<1.0	<0.005	<0.005	0.045	0.19	<0.005	0.011	<0.005	
GP-5@20'	8/11/2005	20	<1.0	<0.005	<0.005	0.013	0.061	<0.005	<0.01	<0.005	
CPT Boring											
CPT-1@5'	8/10/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	N1
Notes:											
mg/kg = milligrams per kilogram											
TBA = tert-Butyl ether											
TPH-G = Total petroleum hydrocarbons as gasoline											
MTBE = Methyl tert-butyl ether											
J3 = Estimated value. The concentration exceeded the calibration of analysis											
N1 = Internal standard out of range											
Q1 = Quantity of unknown hydrocarbons(s) in sample based on gasoline											
S3 = Surrogate recovery not reportable due to required dilution											
S7 = Surrogate recoveries higher than acceptance limits											
H1 = Extracted out of holding time											

APPENDIX E

HYDROGEOLOGIC CROSS SECTIONS



LEGEND:

- CPT-1 WELL/BORING IDENTIFICATION
- ▼ DEPTH OF STABILIZED GROUND WATER
- SCREEN AND SAND PACK INTERVAL
- X SOIL SAMPLE
- GROUNDWATER SAMPLING INTERVAL

- CLAY
- SAND
- ARTIFICIAL FILL



X $91 < 5.0$ MTBE/TBA CONCENTRATIONS IN GROUNDWATER (UG/L)
CPT BORINGS SAMPLED ON 8/31/05 AND 8/28/05
WELLS SAMPLED ON 5/20/05
GEOPROBE BORINGS SAMPLED ON 8/11/05

□ $91 < 5.0$ MTBE/TBA CONCENTRATIONS IN GROUNDWATER (MG/KG)
(8/10/05 AND 8/11/05)

FIGURE 2

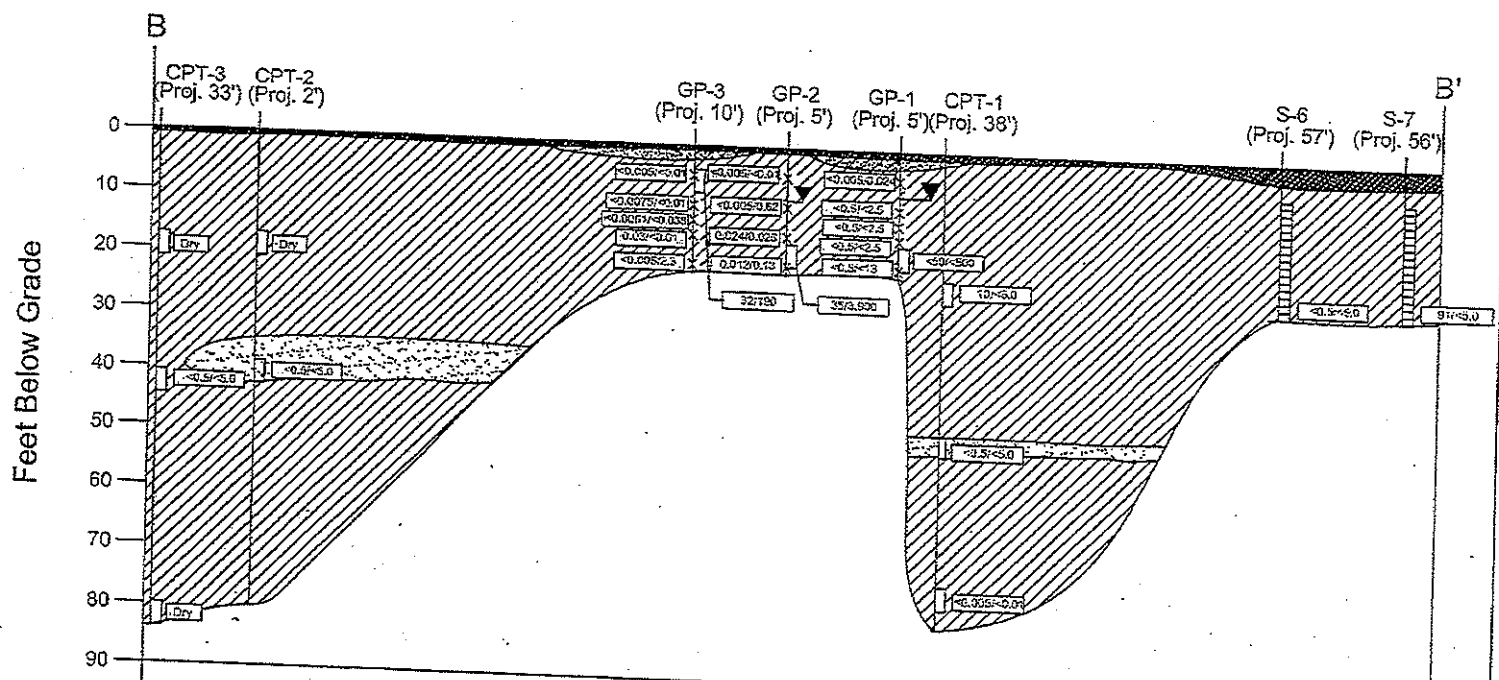
HYDROGEOLOGIC CROSS-SECTION A-A'
AUGUST 2005

SHELL-BRANDED SERVICE STATION
5251 Hopyard Road
Pleasanton, California

PROJECT NO. SJ52-51H-1.2005	DRAWN BY JL 10/04/05
FILE NO. SJ52-51H-1.2005	PREPARED BY HB
REVISION NO. 1	REVIEWED BY LD



Delta
ENVIRONMENTAL
CONSULTANTS INC.



LEGEND:

- MW-1 WELL/BORING IDENTIFICATION
- DEPTH OF STABILIZED GROUND WATER
- SCREEN AND SAND PACK INTERVAL
- Dry NO GROUNDWATER ENCOUNTERED IN BOREHOLE
- CLAY
- SAND / WELL GRADED SAND / GRAVEL
- SAND
- ARTIFICIAL FILL
- X SOIL SAMPLE
- GROUNDWATER SAMPLING INTERVAL
- X MTBE/TBA CONCENTRATIONS IN GROUNDWATER (UG/L)
 CPT BORINGS SAMPLED ON 8/31/05 AND 8/28/05
 WELLS SAMPLED ON 5/20/05
 GEOPROBE BORINGS SAMPLED ON 8/11/05
- X 91<5.0 MTBE/TBA CONCENTRATIONS IN GROUNDWATER (MG/KG)
 (8/11/05 AND 8/11/05)



FIGURE 3
HYDROGEOLOGIC CROSS-SECTION B-B'
AUGUST 2005

SHELL-BRANDED SERVICE STATION
 5251 Hopyard Road
 Pleasanton, California

PROJECT NO. SJ52-51H-1.2005	DRAWN BY JL 10/04/05
FILE NO. SJ52-51H-1.2005	PREPARED BY HB
REVISION NO. 1	REVIEWED BY LD

Delta
ENVIRONMENTAL
CONSULTANTS INC.