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By dehloptoxic at 1:05 pm, Nov 22, 2006

November 20, 2006
Project SJ52-51H-1.2006
SAP #: 135785

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



Re: **Well Installation Report
Shell Service Station
5251 Hopyard Road
Pleasanton, California**

Dear Mr. Wickham:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared this report documenting the installation of the off-site groundwater monitoring Well S-9, at the above-referenced site. Well S-9 was installed in order to monitor the extent of methyl tert-butyl ether (MTBE) to the east of the site. The Alameda County Health Care Services Agency (ACHCSA) approved installation of off-site Well S-9 in a letter to Shell dated June, 14 2006.

Background

In August 2005, borings CPT-2 and CPT-3 were advanced offsite and collected ground water samples from 40 and 80 foot zones, but were unable to collect groundwater samples from the 25 foot zone. No analytes were detected from offsite groundwater collected from CPT borings. On February 22, 2006, two geoprobe borings (GP-6 and GP-7) were advanced north of the site to collect groundwater samples from the 25 foot level. See Figure 1 for boring locations. A grab water sample was collected at 22 feet in GP-6 and at 26 feet in GP-7. Samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene and total xylenes (BTEX compounds), methyl tert-butyl ether (MTBE) and tertiary butyl alcohol (TBA). The groundwater sample from GP-6 contained TPH-G at a concentration of 78 ug/l and MTBE at a concentration of 73 ug/l. No other analytes were detected in GP-6 and no analytes were detected in the sample from GP-7. In the Site Conceptual Model submitted to ACHCSA in March 2006, Delta proposed to install one additional off site monitoring well (S-9) to monitor MTBE concentrations in groundwater east of the site.

Description of Installation

Groundwater Monitoring Well S-9

Delta installed one additional off site monitoring well east of the site. Well S-9 was constructed to monitor the groundwater encountered within the shallow zone. Delta cleared Well S-9 location by air-knife to a depth of approximately 7-feet below grade (bg). The boring for the well was drilled by Gregg Drilling using hollow-stem augers. A 2-inch PVC well with a 10 foot screened interval from 10 to 20 feet below bg was installed. Static water in the well was at a depth of 7.7 feet. Soil samples were collected from the boring for the new well in brass liners at five foot intervals to the total depth of the boring. Soil types were logged by a Delta field geologist and included in this report (Boring Log S-9). Soil was analyzed in the field with a photo-ionization detector (PID), and readings from the soil were recorded on the field logs. None of the soil samples had elevated PID readings (>30 parts per million by volume). As a result no samples were retained for laboratory analysis.

Well S-9 will be developed by Blaine on November 22, 2006. Well S-9 will also be sampled on November 27, 2006. This data will be added to the quarterly groundwater monitoring report next quarter(4Q06).

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 of Delta at (408) 826-1880, or Mr. Denis Brown (Shell project manager) at (707) 865-0251.

Sincerely,

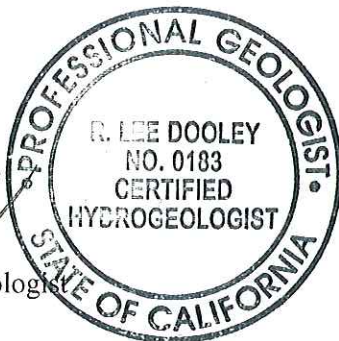
DELTA ENVIRONMENTAL CONSULTANTS, INC.



Matt Lambert
Staff Scientist



R. Lee Dooley
Senior Hydrogeologist
CHG 0183

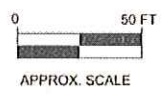
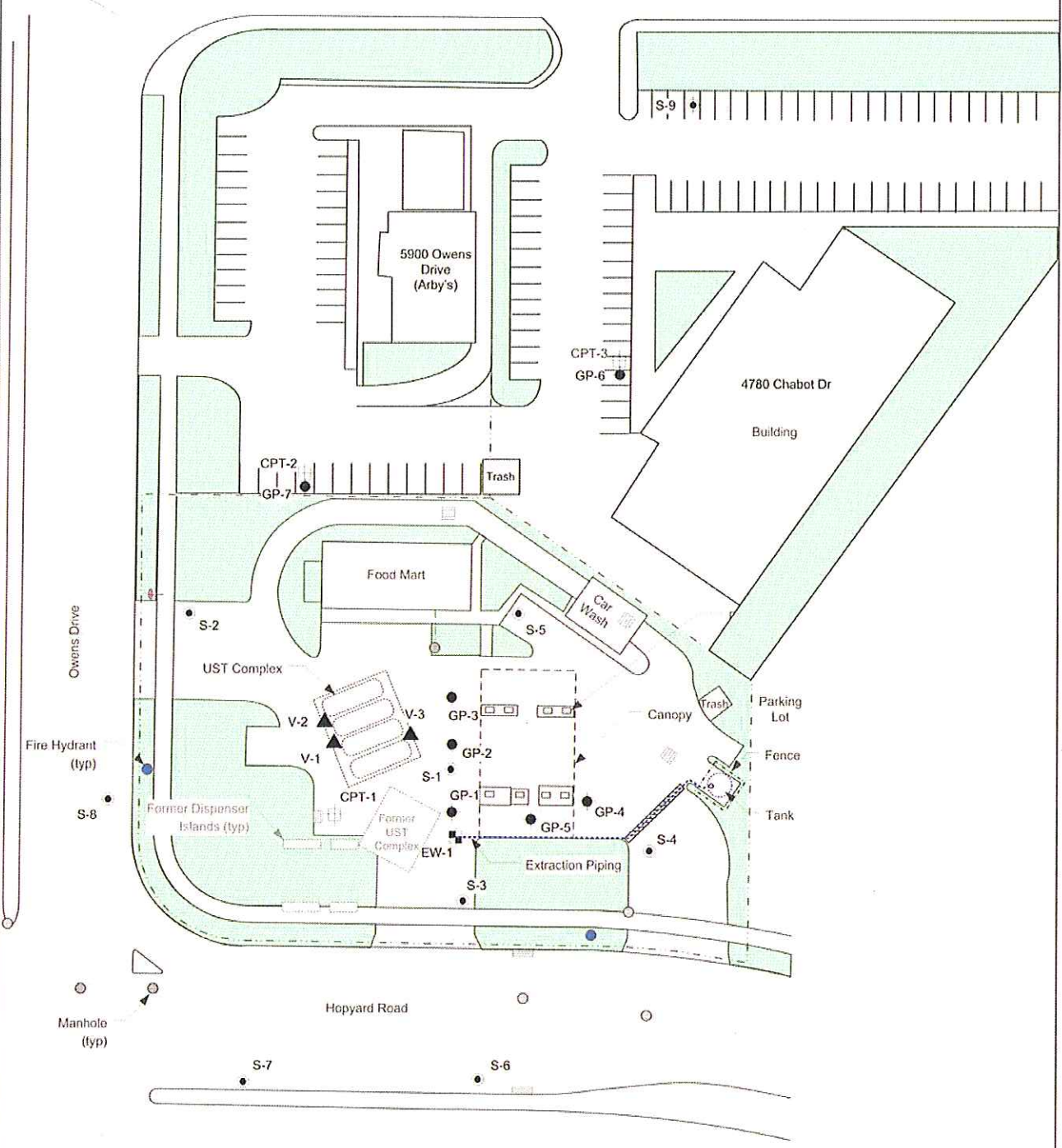


Attachments:

Figure 1 – Site Map

Attachment A – Boring Log

cc: Denis Brown, Shell Oil Products US, Monte Rio
Matt Katen, Zone 7 Water District



- LEGEND**
- EW-1 EXTRACTION WELL
 - BAKER TANK
 - S-1 GROUNDWATER MONITORING WELL
 - V-3 SOIL VAPOR EXTRACTION WELL
 - GP-2 SOIL BORING
 - CPT-1 CPT BORING AND SAMPLING LOCATION
 - S-9 NEW MONITORING WELL

FIGURE 1							
SITE MAP							
SHELL-BRANDED SERVICE STATION 5251 Hopyard Road Pleasanton, California							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: small;">PROJECT NO. SJS2-51H-1 2006</td> <td style="font-size: small;">DRAWN BY BH 11/21/05</td> </tr> <tr> <td style="font-size: small;">FILE NO. SJS2-51H-1 2006</td> <td style="font-size: small;">PREPARED BY ML</td> </tr> <tr> <td style="font-size: small;">REVISION NO.</td> <td style="font-size: small;">REVIEWED BY</td> </tr> </table>	PROJECT NO. SJS2-51H-1 2006	DRAWN BY BH 11/21/05	FILE NO. SJS2-51H-1 2006	PREPARED BY ML	REVISION NO.	REVIEWED BY	
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REVISION NO.	REVIEWED BY						

ATTACHMENT A

BORING LOG



BORING LOG

Client Shell Oil Products US
 Project Number SJ52-51H-1

Boring No.
 S-9

Address:
 4780 Chabot
 Pleasanton, California
 Logged By: Andrew Persio

Drilling Date(s): 11/10/06
 Drilling Company: Gregg
 Drilling Method: AK / HSA
 Boring Depth (ft): 20

Boring diameter (in.): 8
 Sampling Method: HA / SS
 Well Depth (ft.): 20
 Casing Diameter (in.): 2

Casing Material: Sch 40 PVC
 Screen Interval: 10 to 20 feet bgs
 Screen slot size: 0.010 inch
 Sand Pack: 2/12

