Delta
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May 8, 2006
Project SJ42-26F-1.2006

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: **Revised Work Plan for Soil and Groundwater Assessment**
Shell Service Station
4226 North First Street
Pleasanton, California

Dear Mr. Wickham:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared this Revised Work Plan for proposes soil and groundwater confirmation sampling at the above referenced site (Figure 1), as requested by the Alameda County Health Care Services Agency in a letter to Shell dated March 9, 2006. These revisions accompany an initial work plan dated January 24, 2005 as submitted with the Initial Site Conceptual Model on February 27, 2006.

Work Plan Revision

In addition to two already proposed CPT borings (CPT-1 and CPT-2), Delta proposes to add one additional on-site CPT boring (CPT-3). Delta requests to keep the originally proposed boring location of CPT-1 in order to further define hydrogeologic conditions in the area. Delta also proposes to install one groundwater monitoring well downgradient of the former UST complex (MW-4), and one groundwater monitoring well adjacent to Well MW-1 to monitor a deeper groundwater interval beneath the silt layer encountered from 59 to 99 feet below grade (MW-1B). All proposed CPT boring and well locations are shown on the extended site area map.

Description of Methods

Delta will obtain drilling permits from the Zone 7 Water District for all proposed borings. Delta will also need to obtain an encroachment from the City of Pleasanton in order drill within First Street, and an access agreement from the owner of the Pleasant Plaza Shopping Center located on the western corner of First and Ray Streets.

Prior to conducting any field work at the site, Delta will prepare a site specific Health and Safety Plan (HASP). The Delta field geologist on-site will review the HASP with site subcontractors at the start of each work day.

Borings CPT-1, CPT-2 and CPT-3

Delta proposes to conduct three cone penetration test (CPT) borings to define the vertical of extent of petroleum hydrocarbons and fuel oxygenates detected in perched groundwater beneath the site. The borings will also define the lateral and vertical extent of a silt layer encountered beneath the site at a depth of approximately 60 feet. The locations of the CPT borings (CPT-1 through CPT-3) are shown on the attached extended site area map. Soil classification will be based on the cone penetration resistance, sleeve friction, and friction ratio. A soil classification graph will be generated during drilling of the CPT borehole. CPT borings will be advanced to a depth of approximately 100 feet bg. Grout will be pumped into the borehole behind the cone by using a grout collar (retraction grouting).

A second CPT borehole will be drilled at each location for collection of depth discrete groundwater samples. Sand layers throughout the stratigraphic profile will be targeted for sampling. Collection of groundwater samples will be attempted both above and below the silt layer encountered in deep on-site Boring SB-7. A sealed PVC hydropunch screen will be pushed to the desired sampling depth. The push rod will then be retracted exposing the hydropunch screen. Groundwater should flow hydrostatically from the formation into the sampler. The predominance of silt and clay may prevent collection of groundwater samples from some depth intervals. A small diameter stainless steel bailer will be lowered through the hollow push rods, into the screen section for sample collection. The groundwater samples will be transferred to 40-milliliter glass VOA bottles. The bottles will be placed on ice for transportation to the laboratory.

After each groundwater sample collection, the push rods will be fully retracted from the hole. The rods will be steam cleaned and a new hydropunch screen installed within the rods. The sealed screen will then be advanced to the next sampling depth and the above described process repeated. After collection of the final groundwater sample, grout will be pumped through the push rods as they are extracted from the borehole. Groundwater samples will be analyzed for TPH-G, BTEX compounds, MTBE, and TBA by EPA Method 8260B.

Groundwater Monitoring Wells MW-1B and MW-4

Delta proposes to install two additional on site monitoring wells. Well MW-1B will be a deep monitoring well installed adjacent to well MW-1. Well MW-1B will be constructed to monitor the sand encountered at a depth of 99 feet beneath the thick silt layer encountered from 59 to 99 feet. Delta proposes to construct well MW-1B as a 4 inch PVC well with a 10 foot screened interval from 100 to 110 feet bg.

Well MW-4 will be installed in order to monitor groundwater down gradient of the former UST complex. Well MW-4 will be constructed of 4 inch PVC with a 10 foot screen interval from 27 to 37 feet bg. Depth to water beneath the site has decreased approximately 6 to 8 feet in the past four years. A screened interval of 10 feet is needed to accommodate the groundwater level fluctuations beneath the site.

Prior to drilling, each borehole location will be surveyed by a geophysical locator and marked for underground utilities. Underground Services Alert (USA) will be notified of the proposed borings a minimum of 48-hours before Delta begins work at the site. Soil samples will be collected from the borings for the new wells in brass liners at five foot intervals to the total depth of the boring. Sampling will beginning at 10 feet bg for well MW-4 and at 60 feet bg for well MW-1B (below the boring interval for well MW-1). Soil types will be logged by a Delta field geologist. Soil will be analyzed in the field with a photo-ionization detector (PID), and readings from the soil will be recorded on the field logs. Soil samples with elevated PID readings (>10 parts per million by volume) will be retained for laboratory analysis. The retained soil samples will be capped with Teflon tape and tight fitting end caps and placed on ice for transport to Test America Sequoia Analytical in Morgan Hill, California. Additional soil samples may also be selected from site borings for laboratory analysis based on PID readings, field observations, and lithology. Any soil samples retained will be analyzed for TPH-G, BTEX compounds, MTBE, and TBA by EPA Method 8260B

New wells MW-1B and MW-4 will be developed and added to the quarterly groundwater monitoring program already in place for the site.

REMARKS

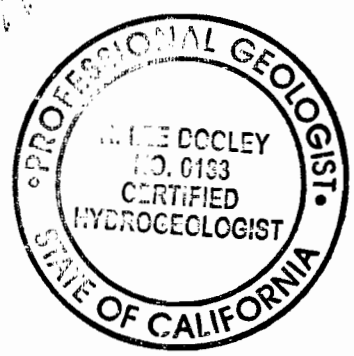
The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract 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.

Rebecca Wolff
Project Geologist

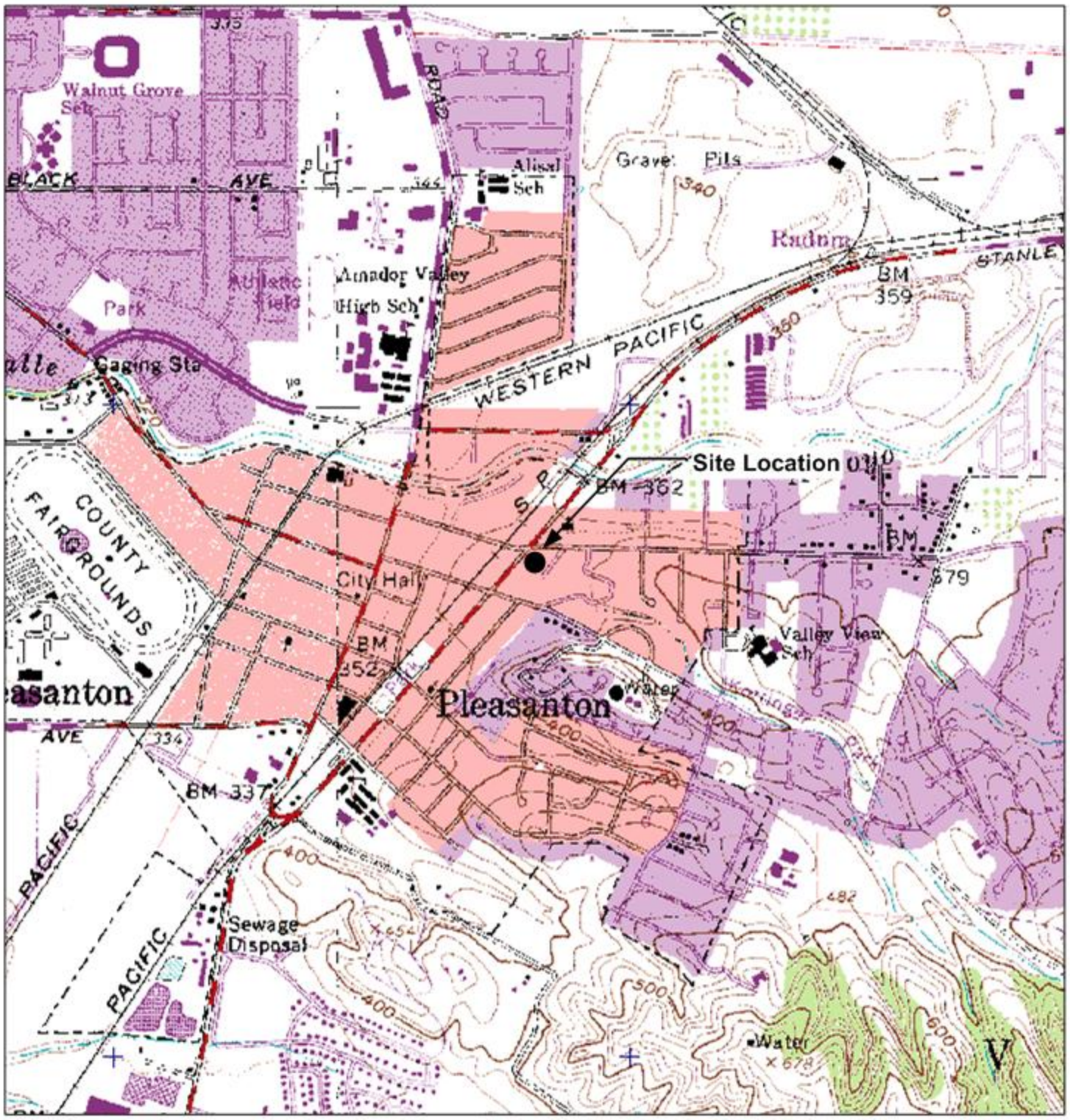
R. Lee Dooley
Senior Hydrogeologist
CHG 0183



Attachments:

Figure 1 – Site Location Map
Figure 2 – Extended Site Map

cc: Denis Brown, Shell Oil Products US, Monte Rio
Isabel Mejia, Shell Oil Products US, Carson
Douglas and Mary Safreno, Pleasanton



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

QUADRANGLE LOCATION

North

0 1,300 2,600
Scale, Feet

FIGURE 1
SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION
4226 North First Street
Pleasanton, California

PROJECT NO. SJ42-26F-1.2005	DRAWN BY V. F. 5/5/05
FILE NO. SJ42-26F-1.2005	PREPARED BY VF
REVISION NO.	REVIEWED BY

Delta Environmental Consultants, Inc.

Approximate location of underground petroleum pipeline (Santa Fe Pacific)

MW-7

MW-6

MW-5

MW-8

North

Redwood retaining wall

MW-4

Dispenser Islands

Ray Street

Pleasant Plaza Shopping Center
4223-4277 First St.

CPT-1

Building

MW-3

MW-2

MW-2B

Kiosk

76 Station
4191 First St.

MW-1

MW-10

Former UST
Complex

First Street

CPT-2

First Street

Canopy

UST Complex

Dispenser
Island (typ)

TB-3

TB-2

MW-2

CPT-3

MW-1

MW-1B

TB-4

TB-1

S-1

MW-3

Station
Building

MW-4

Former UST
Complex

Waste Oil UST

House/
Office

Residential

Vineyard Avenue

Residential

LEGEND

MW-1B **PROPOSED MONITORING WELL LOCATION**

CPT-1 **PROPOSED CPT BORING LOCATION**

MW-2 **GROUNDWATER MONITORING WELL LOCATION**

TB-1 **ABANDONED TANK BACKFILL WELL LOCATION**

S-1 **SOIL BORING LOCATION**

MW-2B **GROUNDWATER MONITORING WELL LOCATION (76 STATION)**

MW-2B **DESTROYED WELL (76 STATION)**

BaseMap from: Cambria Environmental Technology, Inc. and Toxichem Management Systems, Inc.

0 40 FT

APPROX. SCALE

FIGURE 2

EXTENDED SITE MAP

SHELL-BRANDED SERVICE STATION
4226 First Street
Pleasanton, California

PROJECT NO. SJ42-26F-1.2006	DRAWN BY JL 04/25/06
FILE NO. SJ42-26F-1.2006	PREPARED BY RW
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.