Chevron

Soil contam noted in cap. fringe of B-7 (8.5') and B-8 (8.5')

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing Department
Phone 510 842 9500

June 30, 1994

Ms. Eva Chu
Alameda County Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Re: Former Chevron Station # 9-2582, 7240 Dublin Blvd., Dublin, CA
Attached work plan for additional site assessment (GTI, 5/28/94)

Dear Ms. Chu:

Please find attached a work plan dated June 28, 1994, which was prepared by Chevron's consultant, Groundwater Technology, Inc. (GTI), to describe the drilling, installation, and sampling of three groundwater monitoring wells at the subject site. The proposed monitoring wells will be located west and northwest of the former fuel tank and pump island locations and should serve to define the extent of dissolved hydrocarbons in groundwater beneath the site.

The site assessment work will be scheduled as soon as work plan approval is received from your agency. If you have any questions or comments, I can be reached at (510) 842-8695.

Sincerely,

Brett L. Hunter

Brett L. Hunter
Environmental Engineer
Site Assessment and Remediation

Attachment

cc: Lester Feldman, San Francisco Bay RWQCB, Oakland, CA
Janet Clinton (for Parkway Three), 2425 Webb Avenue, Suite 200, Alameda, CA 94501
Bette Owen, Chevron USA, Products Company, San Ramon, CA (w/o attachment)

GROUNDWATER TECHNOLOGY, INC.
1401 Halyard Drive, Suite 140, West Sacramento, CA 95691, (916) 372-4700
FAX (916) 372-8781

June 28, 1994

Project No. 02070 0027

Mr. Brett Hunter
Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, California 94583-0804

RE: WORK PLAN FOR ADDITIONAL SOIL AND GROUNDWATER ASSESSMENT
FORMER CHEVRON SERVICE STATION NO. 9-2582
7240 DUBLIN ROAD
DUBLIN, CALIFORNIA

Dear Mr. Hunter:

Groundwater Technology, Inc. submits this letter as a work plan for additional soil and groundwater assessment at the former Chevron service station #9-2582, located at 7240 Dublin Road in Dublin, California (Figure 1). The scope of work is designed to further assess the limits of hydrocarbon-impacted soil and groundwater at the site. Three groundwater monitoring wells will be drilled/installed on site. Details of the tasks required to complete the scope of work are summarized below.

TASK 1: SITE-SPECIFIC HEALTH AND SAFETY PLAN/BACKGROUND REVIEW/ PERMITTING

A site-specific ***Health and Safety Plan*** for the assessment work has been prepared by Groundwater Technology as required by the Occupational Safety and Health Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR 1910.120). The document will be reviewed and signed by all Groundwater Technology personnel and subcontractors performing work at the site.

Groundwater Technology will conduct a technical review of the pertinent information associated with the site. Permits for soil boring/well installation will be obtained from the Alameda County Environmental Health Department (ACEHD).

TASK 2: SOIL BORINGS/SOIL SAMPLING AND ANALYSES

Groundwater Technology will drill three soil borings at the locations shown on Figure 1 using a truck-mounted drill rig equipped with 8-inch-diameter hollow-stem augers. The soil borings will be drilled to a depth of approximately 25 feet below ground surface (BGS) to accommodate groundwater monitoring well installation. Soil samples will be collected from each soil boring at 5-foot intervals using a split-spoon sampler lined with 2-inch-diameter by 6-inch-long brass sample tubes. The hollow-stem augers will be steam cleaned before drilling, and sampling equipment will be cleaned between each sampling interval. Each soil sample will be screened for hydrocarbon vapors using a portable photoionization detector (PID). Soils encountered during drilling will be logged using the Unified Soil Classification System by a Groundwater Technology field geologist, working under the supervision of a California registered geologist. One sample tube from each sampling interval will be sealed with aluminum foil, capped, taped, labeled, and placed on ice in an insulated container pending laboratory analysis. All soil generated through drilling will be stored in Department of Transportation (DOT)-approved 55-gallon drums on site pending characterization and disposal.

Based on field observations, selected soil samples from each soil boring will be analyzed by a State-certified analytical laboratory for benzene, toluene, ethylbenzene and xylenes (BTEX), and total petroleum hydrocarbons-as-gasoline (TPH-G) by Environmental Protection Agency (EPA) methods 5030/8020/modified 8015.

TASK 3: GROUNDWATER MONITORING WELL INSTALLATION/DEVELOPMENT

The groundwater monitoring wells will be constructed of 2-inch-diameter PVC blank casing and 0.020-inch-slot well screen. The well screen will be installed from approximately 5 feet BGS to 25 feet BGS. A sand filter pack will be placed within the annulus of each well from the bottom of the boring to approximately 1 foot above the top of the well screen. The annulus will be sealed with approximately 1 foot of bentonite on top of the sand and a portland cement/bentonite grout to the surface. The well head will be protected by a locking cap and a traffic-rated, watertight street box set in concrete.

Prior to the scheduled quarterly groundwater monitoring and sampling event, the new groundwater monitoring wells will be developed by surging and pumping to remove fines from the well and sand pack. Periodic measurements of pH, conductivity, and temperature will be collected during development. Wells will be developed until well water is visibly clear.

Top of casing (TOC) and horizontal position of the new wells will be surveyed relative to mean sea level using the established bench mark for the current groundwater monitoring well network.

TASK 4: GROUNDWATER MONITORING AND SAMPLING

Groundwater samples will be collected from all site-related groundwater monitoring wells at least 24 hours after development of the new wells. All site-related wells will be gauged for depth to water and for separate-phase hydrocarbon (SP) thickness using an ORS Interface Probe Well Monitoring System™ which utilizes a dual optical/conductivity sensor to distinguish between water and SP. Before groundwater sampling, the wells will be purged of approximately four well volumes, or until pH, conductivity, and temperature of the purge water have stabilized.

Groundwater samples will be collected using a disposable teflon sampler rinsed with distilled water. Distilled water field blanks will be collected to document ambient sampling conditions. Groundwater samples will be placed in 40-milliliter glass vials with teflon septum caps. Each sample will be labeled and placed on ice in an insulated container pending delivery under chain-of-custody manifest to a State-certified analytical laboratory.

The groundwater samples collected from the groundwater monitoring wells will be analyzed for and MTBE BTEX and TPH-G by EPA methods 5030/8020/modified 8015. All water generated during well development and sampling will be pumped into a DOT-approved purge water trailer and transported to the Chevron refinery in Richmond, California for recycling.

TASK 5: REPORT PREPARATION

Groundwater Technology will prepare an assessment report summarizing the data collected under the scope of work detailed above. The report will document the methods and results of the assessment, summarize laboratory analytical results, and include appropriate maps.

TASK 6: PROJECT SCHEDULE

Groundwater Technology is prepared to begin work on this project within two weeks of work plan approval by the ACEHD. Drilling and soil sampling will be completed over a two-day period. The report will be submitted approximately four weeks after the receipt of all laboratory analytical results.

Please contact our West Sacramento office at 916-372-4700 if you have questions or comments about this work plan.

Sincerely,
Groundwater Technology, Inc.
Written/Submitted by

JASON M. FEDOTA
Staff Geologist
Project Manager

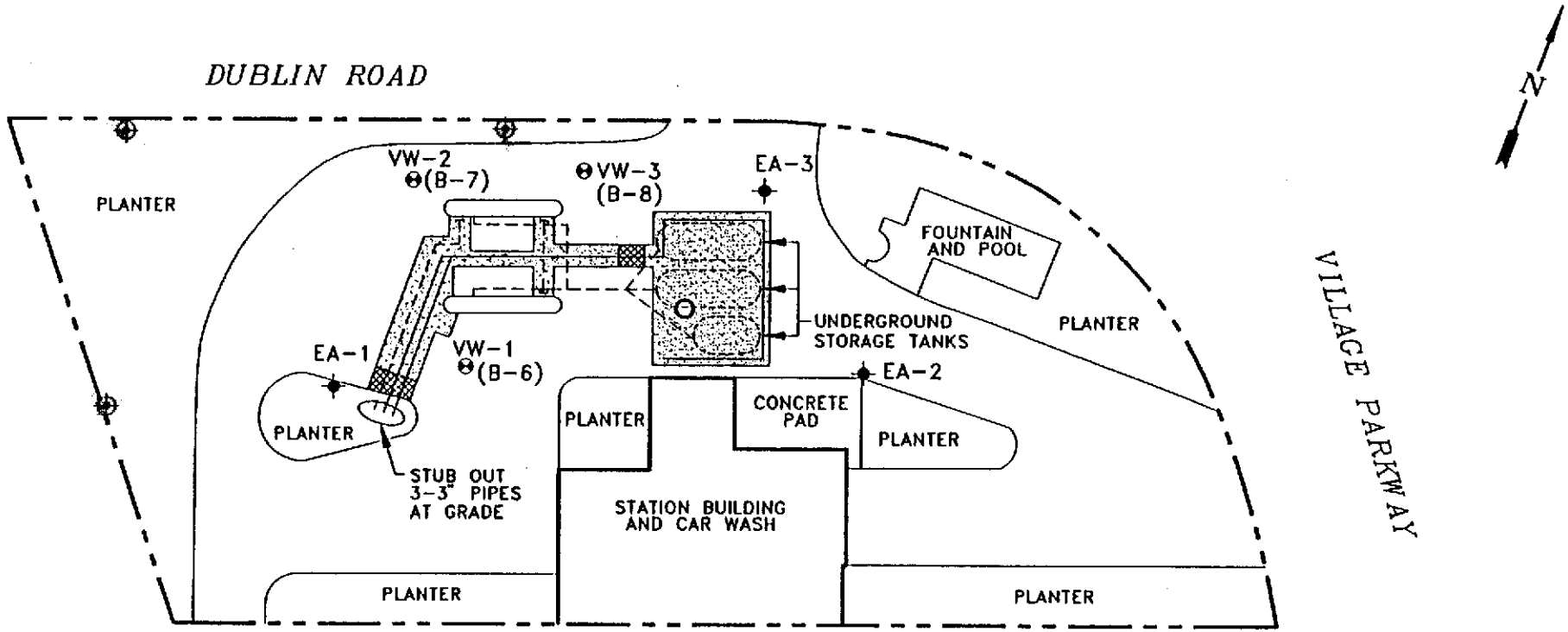
Groundwater Technology, Inc.
Reviewed/Approved by

E. K. SIMONIS, R.G.
Senior Environmental Geologist

REGISTERED GEOLOGIST
EDVARDAS (ED) K. SIMONIS
No. 4422
STATE OF CALIFORNIA

JMF/EKS:rz
0027ASGA.WKP

attachments



LEGEND

- PROPERTY LINE
- NON-PERFORATED 3" PIPE, BURIED
- PERFORATED 3" PIPE, BURIED
- PROPOSED GROUNDWATER MONITORING WELL
- VADOSE MONITORING WELL
- GROUNDWATER MONITORING WELL
- BENTONITE GROUT
- PEA-GRAVEL BACKFILL
- 10" DIAMETER PVC CASING

GROUNDWATER TECHNOLOGY

0 FEET 40
SCALE
APPROXIMATE

CLIENT:
CHEVRON U.S.A. PRODUCTS CO.
FORMER S.S. No. 9-2582

LOCATION:
7240 DUBLIN ROAD
DUBLIN, CALIFORNIA

SITE PLAN WITH VADOSE MONITORING WELL LOCATIONS

FILE:	PROJECT NO.:	REV.:	DES.:	DET.:	DATE:	PM:	PE/RG:	FIGURE:
2582-VWL (1:40)	02070-		JF	SP	6/23/94			1