

ENVIRONMENTAL
PROTECTION
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Chevron

ETS

5710/042

June 3, 1999

Chevron Products Company
6001 Bollinger Canyon Road
Building L, Room 1080
PO Box 6004
San Ramon, CA 94583-0904

Mr. Thomas Peacock
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Philip R. Briggs
Project Manager
Site Assessment & Remediation
Phone 925 842-9136
Fax 925 842-8370

Re: Chevron Service Station #9-8341
3530 MacArthur Blvd., Oakland, California

Dear Mr. Peacock:

Enclosed is the Utility Survey Report that was prepared by our consultant Pacific Environmental Group Inc., for the above noted site. This survey was prepared to evaluate whether the utility alignments could act as preferential pathways for the migration of MtBE and gasoline constituents in groundwater.

It appears that the sanitary sewer, storm and water lines, could be preferential pathways since their depth ranges from 34 inches to 7 feet below grade, while ground water depth has varied over time, from 2.67 feet to 10.21 feet below grade.

It may be appropriate to conduct a further investigation to determine if some of the utility lines could be affecting the potential migration of MtBE and gasoline constituents in the groundwater. Appreciate your review and recommendation.

If you have any questions, call me at (925) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

July 1, 1999
Mr. Thomas Peacock
Chevron Service Station #9-6991
Page 2

Enclosure


Cc. Bill Scudder, Chevron

Mr. Chuck Headlee
RWQCB-San Francisco Bay Region
1550 Clay Street, Suite 1400
Oakland, CA 94612

Ms. Madhulla Logan
Alameda County Health Care Services
Division of Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577



PACIFIC
ENVIRONMENTAL
GROUP, INC.

AN  COMPANY

June 28, 1999
Project 325-080.1A

Mr. Phil Briggs
Chevron Products Company
P.O. Box 5004
San Ramon, California 94583

Re: Utility Survey Report
Chevron Service Station 9-8341
3530 MacArthur Boulevard
Oakland, California

Dear Mr. Briggs:

This letter, prepared by Pacific Environmental Group, Inc. (PACIFIC) on behalf of Chevron Products Company (Chevron), presents a utility survey map showing the approximate location and depths of various utilities in the vicinity of the site referenced above. The survey included water, sanitary sewer, and storm drain sewer lines. In addition, the location of all groundwater monitoring wells has been noted, along with the most recent concentrations of total purgeable petroleum hydrocarbons (TPPH) calculated as gasoline, benzene, and methyl tert-butyl ether (MtBE). TCI Cablevision, PacBell, and Pacific Gas and Electric Co. were contacted, but we were unable to obtain information regarding the existence or location of telephone, cable, gas or electric lines in the vicinity as of the date of this report. It has been noted that some utilities are above grade in the site vicinity.

Hydrogeologic data obtained from a previous investigation indicate that the site is underlain by unconsolidated deposits of silty gravel, silt, and silty sand. Groundwater occurs at a depth of approximately 2.5 to 5 feet below ground surface (bgs). The direction of groundwater flow at the site is typically south/southeast, with a moderate gradient of between 0.02 and 0.06. First quarter 1999 analytical data (First Quarter 1999 Groundwater Monitoring Report, Blaine Tech Services Inc.) show residual concentrations of MtBE at the site appear to be limited to the vicinity of Well MW-2, which is located directly south of the tank field and the dispenser islands. Concentrations of MtBE and benzene which were reported for samples taken

June 28, 1999

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February 4, 1998 at Well MW-1, located upgradient of the dispenser islands, may have been anomalous; all constituents at this well have been reported as non-detected during subsequent quarterly monitoring.

Because the local groundwater depth is shallow (2.5 to 5 feet bgs) and utility lines occur at depths ranging from 3 to 7 feet bgs, there is a possibility that some utility lines downgradient of the site may affect the potential migration MtBE and gasoline constituents in groundwater. The Utility Survey Map is attached as Figure 1. Please do not hesitate to call if you have any questions.

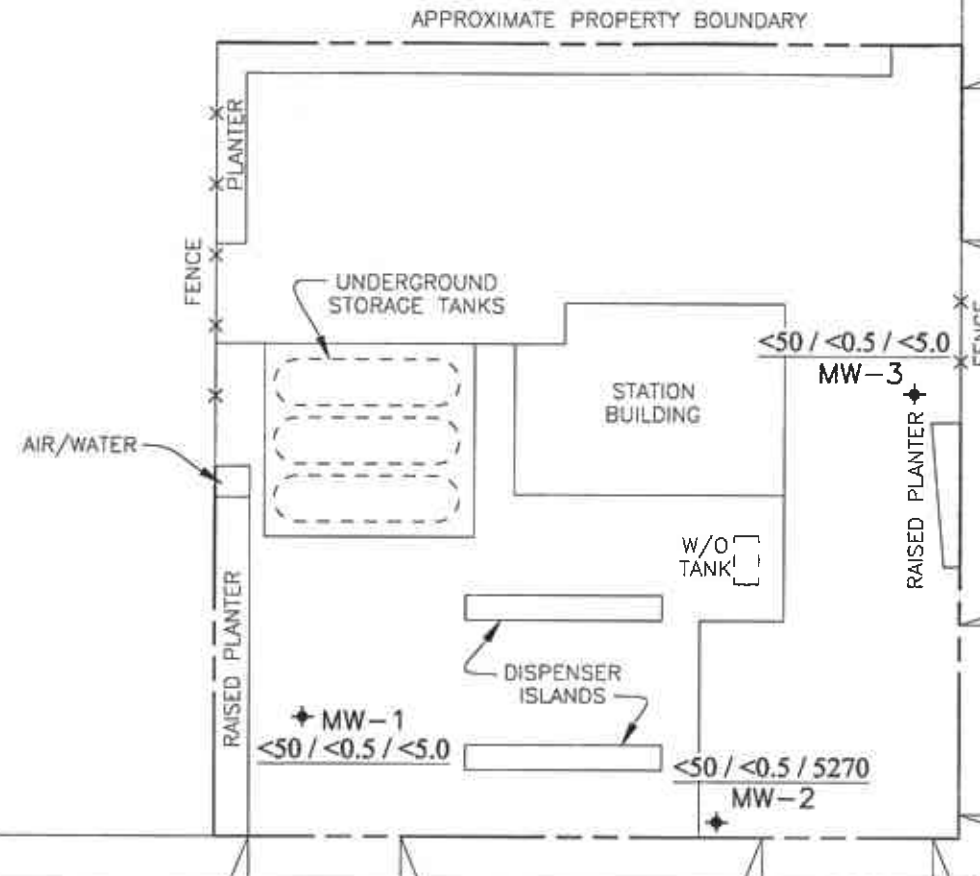
Sincerely,

Pacific Environmental Group, Inc.



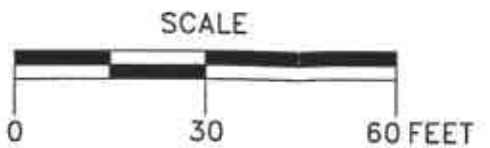
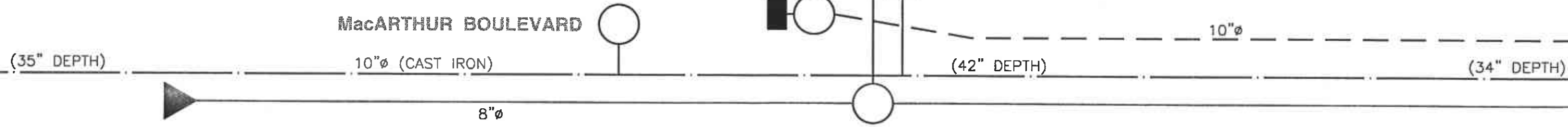
Suzanne McClurkin-Nelson
Staff Scientist

Attachments: Figure 1 - Utility Survey Map



LEGEND

- WATER (EBMUD)
(34" TO 42" DEPTH)
- SANITARY SEWER
(6' DEPTH)
- STORM SEWER
(7' DEPTH)
- <50 / <0.5 / <2.0 TPPH-GASOLINE/BENZENE/MtBE (4/15/99)
- CLEANOUT (N.T.S.)
- STORM DRAIN INLET (N.T.S.)
- MANHOLE (N.T.S.)
- APPROXIMATE DIRECTION
OF GROUND-WATER FLOW (4/15/99)
APPROXIMATE GRADIENT = 0.03 (4/15/99)



TITLE: UTILITY SURVEY MAP			
PREPARED FOR: CHEVRON STATION 9-8341 3530 MacArthur Boulevard Oakland, California			
DATE: 6/21/99	PROJECT: 325-080.1A	SCALE: AS SHOWN	FIGURE: 1