



July 20, 1992

City limits
San Leandro

Mr. Scott Seery
Alameda County Department
of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621-1426

Re: Shell Service Station
WIC #204-6852-0703
1285 Bancroft Avenue
San Leandro, California 94577
WA Job #81-423-201

02 JUL 21 1992

Dear Mr. Seery:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1). This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 265.d. Included below are descriptions and results of activities performed in the second quarter 1992 and proposed work for the third quarter 1992.

Second Quarter 1992 Activities:

- EMCON Associates (EMCON) of San Jose, California measured ground water depths and collected ground water samples from the three site wells. EMCON's report describing these activities and presenting analytic results for ground water is included as Attachment A.
- Weiss Associates (WA) used EMCON's ground water elevation calculations to prepare a ground water elevation contour map (Figure 2).

Anticipated Third Quarter 1992 Activities:

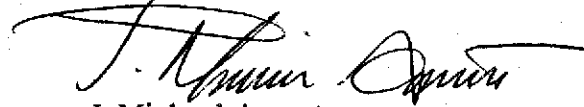
WA will submit a report presenting the results of the third quarter 1992 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results and a ground water elevation contour map.

Mr. Scott Seery
July 20, 1992

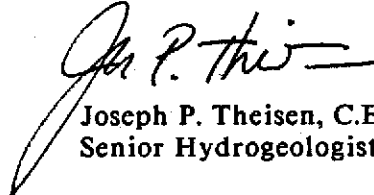
Please call if you have any questions.



Sincerely,
Weiss Associates



J. Michael Asport
Technical Assistant



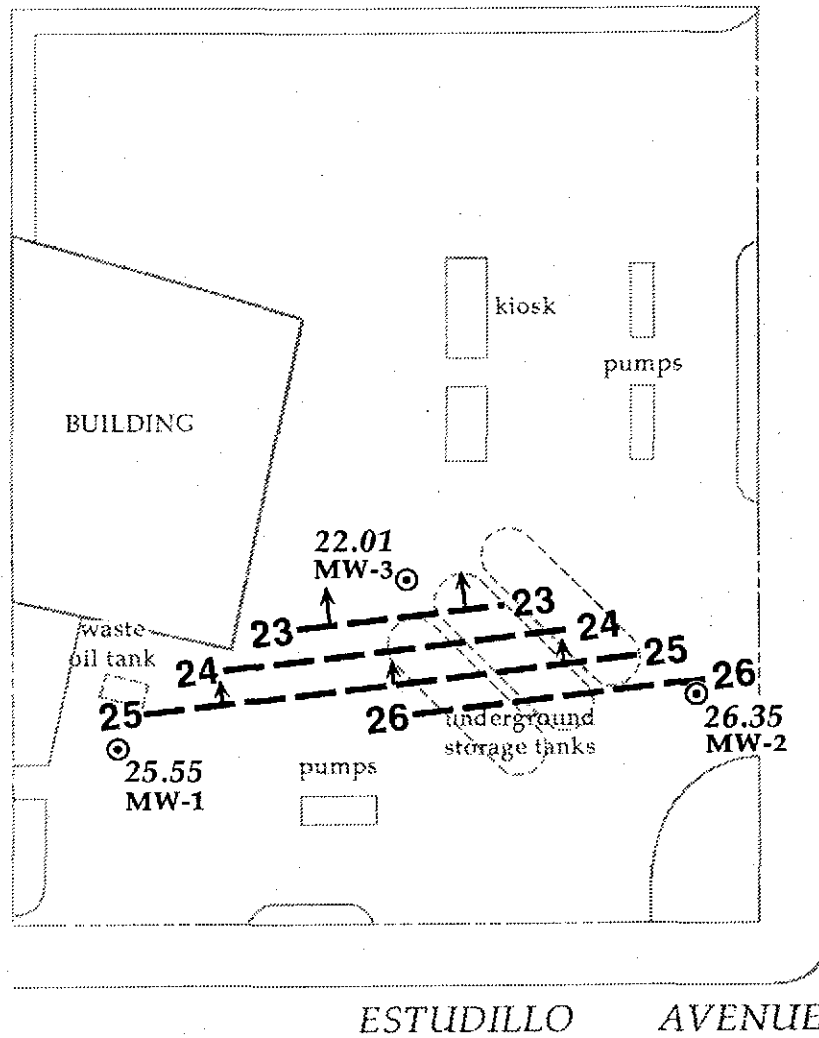
Joseph P. Theisen, C.E.G.
Senior Hydrogeologist

JMA/JPT:jma

E:\ALL\SHELL\400\423QMJU2.WP

Attachments: Figures
A - EMCONS' Ground Water Monitoring Report

cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998
Lester Feldman, California Regional Water Quality Control Board - San Francisco Bay
Region, 2101 Webster Street, Oakland, California 94612



EXPLANATION	
⊙ MW-2	Monitoring well
22.01	Ground water elevation, ft above mean sea level
-23	Ground water elevation contour, ft above mean sea level, approximately located, dashed where inferred
→	Inferred ground water flow direction

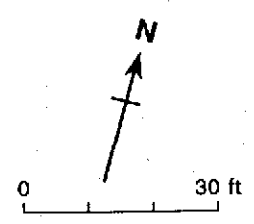


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - June 3, 1992 - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

ATTACHMENT A
GROUND WATER MONITORING REPORT AND ANALYTIC REPORT



EMCON
ASSOCIATES

Consultants in Wastes
Management and
Environmental Control

June 29, 1992
Project: G67-35.01
WIC#: 204-6852-0703

Mr. David Elias
Weiss Associates
5500 Shellmound Street
Emeryville, California 94608-2411

Re: Second quarter 1992 ground-water monitoring report, Shell Oil
Company, 1285 Bancroft Avenue, San Leandro, California

Dear Mr. Elias:

This letter presents the results of the second quarter 1992 ground-water monitoring event for the Shell Oil Company (Shell) site located at 1285 Bancroft Avenue, San Leandro, California (figure 1). Second quarter monitoring was conducted on June 3, 1992. The site is monitored quarterly.

GROUND-WATER LEVEL SURVEY

A water-level survey preceded the purging and sampling of the monitoring wells. The wells included in the survey are identified in figure 2 (supplied by Weiss Associates). During the survey, wells MW-1, MW-2, and MW-3 were measured for depth to water, floating product thickness, and total depth. Depth to water and floating product thickness were measured to the nearest 0.01 foot with an oil/water interface probe. ~~No floating product was observed in the wells.~~ Total depth was measured to the nearest 0.1 foot. Results of the second quarter water-level survey, and available data from four previous surveys, are summarized in table 1.

SAMPLING AND ANALYSIS

Ground-water samples were collected from wells MW-1, MW-2, and MW-3 on June 3, 1992. Prior to sample collection, the wells were purged with an electric submersible pump. During the purging operation, ground water was monitored for pH, electrical conductivity, and temperature as a function of volume of water removed. Purging continued until these parameters were stable and a minimum of three casing volumes of ground water were removed. Field measurements from second quarter monitoring, and available measurements from four previous monitoring events, are summarized in table 1. Purge water from the monitoring wells was contained in 55-gallon drums. The drums were identified with Shell-approved labels and secured for on-site storage.

G673501B.DOC



Ground-water samples were collected with a Teflon® bailer, labeled, placed on ice, and transported to a Shell-approved and state-certified analytical laboratory for analysis. Shell chain-of-custody documents accompanied all samples to the laboratory.

All equipment that was placed down a well or that came in contact with ground water was steam cleaned with deionized water prior to use at each well.

Quality control samples for second quarter monitoring included a trip blank. All water samples collected during second quarter monitoring were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Additional ground-water samples collected from wells MW-1, MW-2, and MW-3 were analyzed for halogenated volatile organic compounds by U.S. Environmental Protection Agency method 601.

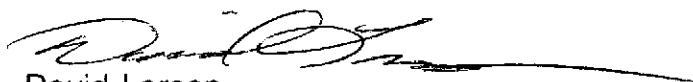
ANALYTICAL RESULTS

Analytical results for the second quarter 1992 monitoring event, and available results from four previous monitoring events, are summarized in table 2 (TPH-G and BTEX) and table 3 (VOCs). The original certified analytical report and chain-of-custody document are attached.

If you have any questions, please call.

Very truly yours,

EMCON Associates



David Larsen
Environmental Sampling Coordinator



Orrin Childs
Environmental Sampling Supervisor

DL/OC:dl

Attachments: Table 1 - Monitoring well field measurement data
Table 2 - Summary of analytical results (TPH-g, BTEX)
Table 3 - Summary of analytical results (VOCs)
Figure 1 - Site location map
- Figure 2 - Monitoring well locations
Certified analytical report
Chain-of-custody document

Table 1
Monitoring Well Field Measurement Data
Second Quarter 1992

Shell Station: 1285 Bancroft Avenue
San Leandro, California
WIC #: 204-6852-0703

Date: 06/25/92
Project Number: G67-35.01

Well Designation	Water Level Field Date	TOC Elevation (ft-MSL)	Depth to Water (feet)	Ground-water Elevation (ft-MSL)	Total Well Depth (feet)	Floating Product Thickness (feet)	Water Sample Field Date	pH (std. units)	Electrical Conductivity (micromhos/cm)	Temperature (degrees F)	Turbidity (NTU)
MW-1	03/07/91	66.29	43.32	22.97	NR	NR	03/07/91	NR	NR	NR	NR
MW-1	06/07/91	66.29	42.18	24.11	NR	NR	06/07/91	NR	NR	NR	NR
MW-1	09/17/91	66.29	44.85	21.44	NR	NR	09/17/91	NR	NR	NR	NR
MW-1	03/01/92	66.29	41.56	24.73	59.1	ND	03/01/92	6.84	497	64.7	20
MW-1	06/03/92	66.29	40.74	25.55	59.2	ND	06/03/92	6.72	516	68.8	2.85
MW-2	03/01/92	66.91	41.57	25.34	59.1	ND	03/01/92	6.85	468	64.9	50
MW-2	06/03/92	66.91	40.56	26.35	59.1	ND	06/03/92	6.70	471	72.6	10.7
MW-3	03/01/92	66.31	42.00	24.31	57.9	ND	03/01/92	6.74	679	65.2	70
MW-3	06/03/92	66.31	44.30	22.01	57.9	ND	06/03/92	6.60	648	68.6	9.61

TOC = top of casing
ft-MSL = elevation in feet, relative to mean sea level
std. units = standard pH units
micromhos/cm = micromhos per centimeter
degrees F = degrees Fahrenheit
NTU = nephelometric turbidity units
NR = Not reported; data not available
ND = None detected

Table 2
 Summary of Analytical Results
 Second Quarter 1992
 milligrams per liter (mg/l) or parts per million (ppm)

Shell Station: 1285 Bancroft Avenue
 San Leandro, California
 WIC #: 204-6852-0703

Date: 06/26/92
 Project Number: G87-35.01

Sample Designation	Water Sample Field Date	TPH-g	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-d
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
MW-1	03/07/91	0.08	<0.0005	<0.0005	<0.0005	<0.0005	0.06
MW-1	06/07/91	0.31	<0.0005	<0.0005	<0.0005	0.0021	<0.05
MW-1	09/17/91	0.05 [^]	<0.0005	<0.0005	<0.0005	<0.0005	<0.05
MW-1	03/01/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05
MW-1	06/03/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-2	03/01/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05
MW-2	06/03/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-3	03/01/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05
MW-3	06/03/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
TB	03/07/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
TB	06/07/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
TB	09/17/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
TB	03/01/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
TB	06/03/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA

TPH-g = total petroleum hydrocarbons as gasoline
 TPH-d = total petroleum hydrocarbons as diesel
[^] = Result due to a non-gasoline hydrocarbon compound
 & = Result due to a non-diesel hydrocarbon compound
 NA = Not analyzed

Table 3
 Summary of Analytical Results
 Volatile Organic Compounds by EPA Method 601
 Second Quarter 1992
 milligrams per liter (mg/l) or parts per million (ppm)

Shell Station: 1285 Bancroft Avenue
 San Leandro, California
 WIC #: 204-6852-0703

Date: 06/26/92
 Project Number: G67-35.01

Sample Designation	Water Sample Field Date	TCE	PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCE
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
MW-1	03/07/91	NA	NA	NA	NA	NA
MW-1	06/07/91	NA	NA	NA	NA	NA
MW-1	09/17/91	NA	NA	NA	NA	NA
MW-1	03/01/92	<0.0004	NA	NA	NA	<0.0004
MW-1	06/03/92	<0.0004	<0.0005	NA	<0.0005	<0.0005
MW-2	03/01/92	<0.0004	NA	NA	NA	<0.0004
MW-2	06/03/92	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005
MW-3	03/01/92	<0.0004	NA	NA	NA	<0.0004
MW-3	06/03/92	<0.0004	<0.0005	NA	<0.0005	<0.0005

TCE = Trichloroethene
 PCE = Tetrachloroethene
 cis-1,2-DCE = cis-1,2-Dichloroethene
 trans-1,2-DCE = trans-1,2-Dichloroethene
 NA = Not analyzed

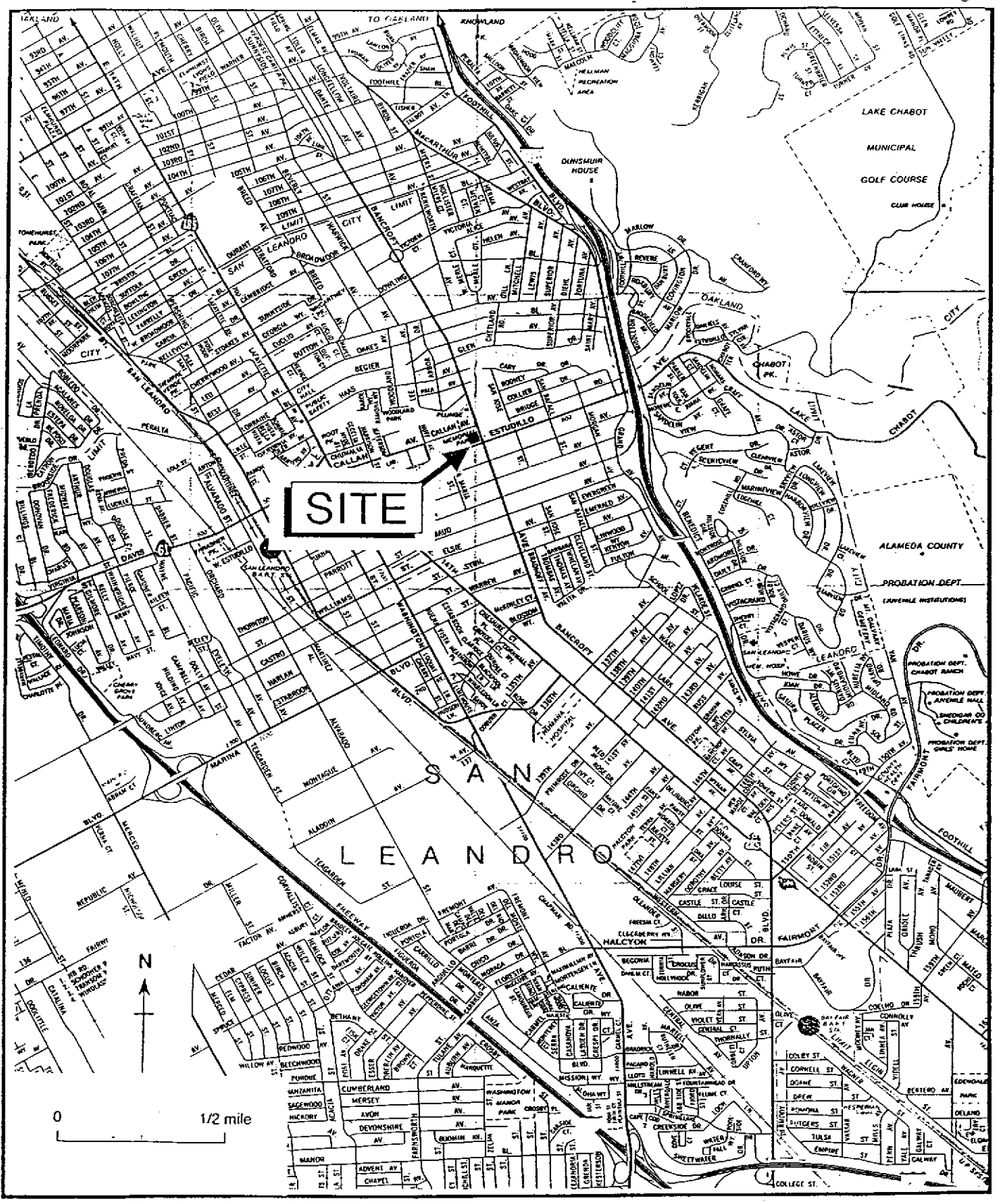


Figure 1. Site Location Map - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California