

# 01-0986

**MOBIL OIL CORPORATION  
ENVIRONMENTAL PROJECT  
QUARTERLY STATUS REPORT**

CALIF. REG. WATER  
OCT 16 1992  
QLTY. CONTROL BOARD

Date Report Submitted: October 13, 1992  
Quarter Ending: September 1992

Mobil Station: 04-H6I (01)  
Address: 1024 Main Street, Pleasanton, California

County: Alameda

Mobil Contact: Cherine Foutch

Tel. No.: (209) 239-7738

**Background:**

In October 1989, the service station was closed and four underground tanks removed. Petroleum hydrocarbons were detected in soil samples collected from the tank cavity. Since March 1990, seven ground water monitoring wells have been installed onsite and two offsite.

Ground water appears to be present in at least two distinct water-bearing zones; at 25 and 45 feet below grade (fbg). The zones are influenced by local water discharges from Kaiser Sand and Gravel into the Arroyo Valle canal, causing fluctuations up to 7 feet in the water of the lower water-bearing zone. In August 1991, the upper water-bearing zone has been intermittently dry. Attempts to correlate surface water discharges to Arroyo Valle by Kaiser Sand and Gravel with ground water elevation changes have been unsuccessful in the past.

**Summary of this Quarter's Activities:**

On July 29, 1992, ground water monitoring was performed and approximately 2 ounces of free product was removed from MW-2.

**Result of Quarterly Monitoring:**

Ground water monitoring and sampling was performed July 29 1992. Wells MW-3, MW-8 and MW-7 were not sampled due to being dry and MW-5 did not contain sufficient water to sample. In addition, MW-2 was found to contain 0.15 foot of free-floating hydrocarbons.

The apparent ground water gradient direction for the July 31, 1992, monitoring event is southwesterly beneath the building, and northeasterly beneath the southeastern corner of the site.

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October 13, 1992  
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TPH-G ranging from 270 to 9,400 parts per billion (ppb) was detected in Wells MW-4, MW-6, MW-8, and MW-9; MW-6 contained the highest concentration. Benzene was detected in Wells MW-4, MW-6, and MW-9 at 320, 1500, and 1,800 ppb.

**Proposed Activity for Next Quarter:**

<u>Activity</u>	<u>Estimated Completion Date</u>
Monitor offsite influences; and fluid levels in MW-2 and pump out free product, if necessary	Ongoing
Prepare Supplemental Site Investigation Report	October, 1992
Perform quarterly monitoring and sampling	October 29, 1992
Prepare quarterly report	November 1992

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cc: Mr. Rich Mueller, City of Pleasanton Fire Department, Pleasanton, California  
Mr. Lester Feldman, RWQCB, Oakland, California  
Mr. & Mrs. Yates, Bonne Tarre, Maryland  
Mr. Gerry Killingstad, Alameda County FC & WCD, Zone 7, Pleasanton, California

**MOBIL OIL CORPORATION**  
**ENVIRONMENTAL PROJECT**  
**QUARTERLY STATUS REPORT**

**Date Report Submitted: October 13, 1992**  
**Quarter Ending: September 1992**

**Mobil Station: 04-KLL**  
**Address: 46840 Warm Springs Boulevard, Fremont, California**

**County: Alameda**

**Mobil Contact: Cherine Foutch**

**Tel. No.: (209) 239-7738**

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**Project Background:**

In 1984, the underground fuel storage tanks at the site were replaced.

On February 27, 1987, an underground waste oil tank was removed from the site. Analysis of a soil sample collected from the tank cavity detected 830 parts per million (ppm) total oil and grease (TOG).

One monitoring well was installed in October 1987 by Kaprealian Engineering, Inc.(KEI). Soil samples collected during drilling were analyzed for TOG, TPH-D, and BTEX constituents. TPH-D was detected at 0.011 ppm in a soil sample collected at 30 feet below grade (fbg). BTEX and TOG were not detected at or above reported detection limits.

Ground water samples collected by KEI from KMW-1 between October 20, 1987, and June 28, 1989, were analyzed for TPH-D, TPH-G, TOG, and BTEX. Up to 330 ppb TPH-D and 100 ppb TPH-G.

In May 1990, product piping was removed and replaced. The lines were extended to accommodate installation of an additional product dispensing island. An above ground waste oil tank was also replaced.

In October 1990, Alton Geoscience supervised the installation of four monitoring wells at the site, AMW-1 through AMW-4. Soil samples collected during drilling contained up to 550 ppm TPH-G and BTEX. Analyses of ground water samples collected from AMW-1 through AMW-4 have historically detected TPH-D, TPH-G, BTEX, and TOG.

**Summary of this Quarter's Activities**

Free product pump outs were performed on some wells on July 27, August 26, and September 28, 1992. On August 21, 1992 quarterly monitoring was performed on all wells except AMW-2, AMW-4, AMW-5, AMW-10, and RW-1 due to the presence of free product as sheen. AMW-1 could not be sampled since it has become dry.

**Results of Quarterly Monitoring:**

Average depth to ground water was approximately 32.64 feet below grade (fbg) or 28.98 feet above mean sea level (msl). Consistent with last quarters results, the ground water gradient is 0.006 foot per foot southwest.

TPH-G ranging from 85 to 42,000 parts per billion (ppb) was detected in KMW-1, AMW-2, AMW-3, AMW-6, AMW-8, and AMW-9. AMW-6 contained the highest concentration. TPH-G was not detected at or above reported detection limits in AMW-7.

Benzene ranging from 1.4 to 410 ppb was detected in KMW-1, AMW-2, AMW-3, AMW-6, AMW-8, and AMW-9. AMW-6 contained the highest concentration. Benzene was not detected at or above reported detection limits in AMW-7.

**Proposed Activity or Work for Next Quarter:**

<u>Activity</u>	<u>Estimated Completion Date</u>
Install additional offsite ground water monitoring wells	Pending access agreement
Prepare preliminary design and obtain permits for remediation system	December 1992
Perform ground water monitoring and sampling	December 1992

cc: Mr. Peter DeSantis, BP Oil Company, Rancho Cordova, California  
Mr. Lester Feldman, RWQCB, Oakland, California  
Ms. Elizabeth Stowe, City of Fremont Fire Department, Fremont, California  
Mr. Ted Trenholme, Alameda County Water District, Fremont, California

**MOBIL OIL CORPORATION**  
**ENVIRONMENTAL PROJECT**  
**QUARTERLY STATUS REPORT**

**Date Report Submitted:** October 13, 1992  
**Quarter Ending:** September 1992

**Mobil Station:** 04-HTR  
**Address:** 1400 South Novato Boulevard, Novato, California

**County:** Marin

**Mobil Contact:** Cherine Foutch

**Tel. No.:** (209) 239-7738

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**Background:**

In April 1986, the former Mobil service station was formally abandoned and the underground storage tanks removed. Ground water samples were collected and soil was excavated. Sample analysis indicated the presence of petroleum hydrocarbons. An initial site investigation, September 1986, indicated low to moderate levels of petroleum hydrocarbons in the shallow ground water. A quarterly monitoring and sampling program was implemented. Free-floating product was observed in two wells and petroleum hydrocarbons were detected in all wells. A soil gas survey was conducted July 1988, but the lateral extent of hydrocarbon-impacted soil was not determined. In May 1990, a qualitative ground water survey was conducted and four additional monitoring wells were installed.

Additional site surveying was performed along with the neighboring Shell Oil Company (Shell) station to resolve disputed ground water gradient direction. Joint monitoring was conducted with Shell April 2 and October 9, 1991, to provide comprehensive gradient examination.

A pumping test was performed November 19, 1991.

**Summary of this Quarter's Activities:**

Performed ground water monitoring and sampling on August 19, 1992.

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October 13, 1992  
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**Proposed Activity for Next Quarter:**

<b><u>Activity</u></b>	<b><u>Estimated Completion Date</u></b>
Complete and submit quarterly report	October 1992
Perform 4th quarter monitoring and sampling	November 1992
Prepare quarterly report	December 1992

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cc: Ms. Penny Farmer, Westminster Holdings, Ltd., Lafayette, California  
Mr. Les Feldman, RWQCB, Oakland, California  
Mr. Tim Underwood, County of Marin Waste Management Unit, San Rafael,  
California  
Mr. Paul Hayes, Shell Oil Company, San Bruno, California  
Ms. Cherine Foutch, Mobil Oil Corporation, Benicia, California

**MOBIL OIL CORPORATION**  
**ENVIRONMENTAL PROJECT**  
**QUARTERLY STATUS REPORT**

**Date Report Submitted:** October 13, 1992  
**Quarter Ending:** September 1992

**Mobil Station:** 04-HTR  
**Address:** 1400 South Novato Boulevard, Novato, California

**County:** Marin

**Mobil Contact:** Cherine Foutch

**Tel. No.:** (209) 239-7738

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**Background:**

In April 1986, the former Mobil service station was formally abandoned and the underground storage tanks removed. Ground water samples were collected and soil was excavated. Sample analysis indicated the presence of petroleum hydrocarbons. An initial site investigation, September 1986, indicated low to moderate levels of petroleum hydrocarbons in the shallow ground water. A quarterly monitoring and sampling program was implemented. Free-floating product was observed in two wells and petroleum hydrocarbons were detected in all wells. A soil gas survey was conducted July 1988, but the lateral extent of hydrocarbon-impacted soil was not determined. In May 1990, a qualitative ground water survey was conducted and four additional monitoring wells were installed.

Additional site surveying was performed along with the neighboring Shell Oil Company (Shell) station to resolve disputed ground water gradient direction. Joint monitoring was conducted with Shell April 2 and October 9, 1991, to provide comprehensive gradient examination.

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**Summary of this Quarter's Activities:**

Performed ground water monitoring and sampling on August 19, 1992.

Mobil Station 04-HTR  
October 13, 1992  
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**Proposed Activity for Next Quarter:**

<b><u>Activity</u></b>	<b><u>Estimated Completion Date</u></b>
Complete and submit quarterly report	October 1992
Perform 4th quarter monitoring and sampling	November 1992
Prepare quarterly report	December 1992

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cc: Ms. Penny Farmer, Westminster Holdings, Ltd., Lafayette, California  
Mr. Les Feldman, RWQCB, Oakland, California  
Mr. Tim Underwood, County of Marin Waste Management Unit, San Rafael,  
California  
Mr. Paul Hayes, Shell Oil Company, San Bruno, California  
Ms. Cherine Foutch, Mobil Oil Corporation, Benicia, California

**MOBIL OIL CORPORATION**  
**ENVIRONMENTAL PROJECT**  
**QUARTERLY STATUS REPORT**

**Date Report Submitted:** October 13, 1992  
**Quarter Ending:** September 1992

**Mobil Station:** 04-LL8  
**Address:** 41111 Mission Boulevard, Fremont, California

**County:** Alameda

**Mobil Contact:** Cherine Foutch

**Tel. No.:** (209) 239-7738

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**Background:**

Kaprealian Engineering, Inc. (KEI), supervised removal of an underground storage tank October 1987. Analysis of soil samples collected from the tank cavity detected up to 160 parts per million (ppm) total petroleum hydrocarbons (TPH). In March 1988, KEI installed three ground water monitoring wells. Analytical results of soil samples collected during drilling indicated low levels of TPH, while analysis of the ground water samples indicated no TPH or benzene, toluene, ethylbenzene, and total xylenes (BTEX) at or above reported detection limits. Subsequent analysis has detected TPH-G and BTEX in Monitoring Wells MW-2 and MW-3. Monitoring Wells MW-4, MW-5, and MW-6 were installed February 1992 and MW-7 April 1992.

**Summary of this Quarter's Activities:**

Performed quarterly ground water monitoring and sampling August 4, 1992. Quarterly report submitted September 11, 1992.

**Result of Quarterly Monitoring:**

Chemical and hydrological data are consistent with historical data. Detectable concentrations of TPH-G are present in the area of the former underground storage tanks, however, TPH-G and BTEX do not appear to have migrated downgradient across Driscoll Road at this time.

Mobil Station 04-LL8  
October 13, 1992  
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**Proposed Activity or Work for Next Quarter:**

<u>Activity</u>	<u>Estimated Completion Date</u>
Perform quarterly monitoring and sampling	November 1992
Prepare quarterly report	December 1992

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cc: Ms. Julie Bellomy, City of Fremont, Fremont, California  
Mr. Lester Feldman, RWQCB, Oakland, California  
Mr. Ted Trenholme, Alameda County Water District, Fremont, California