

February 4, 2005

TRC Project No. 42016301

Mr. Don Hwang Alameda County Health Services 1131 Harbor Bay Parkway Alameda, California 94502-6577

RE: Quarterly Status Report - Fourth Quarter 2004

76 Station #0746, 3943 Broadway, Oakland, California

Alameda County

Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC is submitting the Fourth Quarter 2004 Quarterly Status Report for the subject site, shown on Figure 3 through 5.

PREVIOUS ASSESSMENTS

The subject site is situated on the western corner of the intersection of Broadway and 40th Street in Oakland, California. Station facilities include two 12,000-gallon double-wall glasteel gasoline underground storage tanks (USTs) in a common pit, one 520-gallon double-wall glasteel waste oil UST, two dispenser islands, one station building, and a car wash building.

August 1989: Two 10,000-gallon steel gasoline USTs and one 280-gallon steel waste oil UST were removed and replaced with the current USTs. A total of approximately 350 cubic yards of soil was removed from the site during UST removal activities. The confirmatory soil sample was reported as non-detect for all constituents. The product piping was also removed. Confirmation soil sampling beneath piping and the waste oil tank indicated low levels of petroleum hydrocarbons detected. During the tank removal activities, approximately 6,500-gallons of groundwater was pumped from the UST cavity. Concentrations of total petroleum hydrocarbons as gasoline (TPH-g) and benzene were reported as 1,200 micrograms per liter (μg/l) and 12 μg/l, respectively.

October 1989: Three monitoring wells were installed at the site to depths ranging from 20 to 22.5 feet below ground surface (bgs).

January 1990: Two additional monitoring wells were installed at the site to a depth of 20 feet bgs.

October 1990: Four additional monitoring wells were installed at and in the vicinity of the site at depths ranging from 20 to 22 feet bgs. Groundwater recovery tests were performed on four wells to determine potential locations for placement of recovery wells.

Quarterly Status Report – Fourth Quarter 2004 76 Service Station #0746, Oakland, California February 4, 2005 Page 2

January 1992: Two offsite monitoring wells were installed in the vicinity of the site at depths ranging from 19 to 22 feet bgs.

June 1992: One recovery well and one additional offsite monitoring well were installed at the site to depths of 17.5 feet bgs.

February 1998: The product piping and associated dispenser islands were replaced at the site. Four soil samples were collected from beneath the dispenser islands. Petroleum hydrocarbons were reported at low to moderate levels. A total of 30.20 tons of stockpiled soil was transported from the site to the Forward Inc. Landfill in Stockton, California.

October 2003: Site environmental consulting responsibilities were transferred to TRC.

SENSITIVE RECEPTORS

A sensitive receptor survey has not been performed for this site.

MONITORING AND SAMPLING

Currently, eight onsite and five offsite groundwater wells are monitored semi-annually. Eleven wells were sampled this quarter. The groundwater gradient and flow direction were 0.03 foot/foot to the southwest.

REMEDIATION STATUS

In 1989, approximately 350 cubic yards of soil was removed from the site during UST removal activities. During the tank removal activities, approximately 6,500-gallons of groundwater was pumped from the UST cavity.

In 1990, groundwater recovery tests were performed on four wells to determine potential locations for placement of recovery wells.

In 1993, a pilot vapor extraction test was performed at the site on well RW-1. A maximum concentration of 8.6 μ g/l TPH-g was reported in the influent vapor stream. The calculated maximum hydrocarbon extraction rate during the test was 0.00049 lbs/hr. Based on the low extraction rate, high groundwater levels, and fine-grained soil beneath the site, vapor extraction was determined to not be a feasible remedial option. Well RW-1 was initially installed to perform a groundwater recovery test, but due to lack of groundwater recharge, the test was not performed.

In 1998, the product piping and associated dispenser islands were replaced at the site. Denbeste Transportation, Inc. of Windsor, California transported a total of 30.20 tons of stockpiled soil from the site to the Forward Inc. Landfill in Stockton, California for disposal on March 3, 1998.



Quarterly Status Report – Fourth Quarter 2004 76 Service Station #0746, Oakland, California February 4, 2005 Page 3

CHARACTERIZATION STATUS

Hydrocarbon impacts to groundwater are not fully delineated. The highest offsite concentrations are 1,500 μ g/l total purgeable petroleum hydrocarbons (TPPH), 0.72 μ g/l for benzene, and 1,600 μ g/l for methyl tertiary butyl ether (MTBE).

TPPH were detected in nine of eleven monitoring wells sampled, with a maximum concentration of 9,000 µg/l in onsite well MW-3.

Benzene was detected in four of eleven monitoring wells sampled, with a maximum concentration of $46 \mu g/l$ in onsite well RW-1.

MTBE was detected in ten of eleven monitoring wells sampled, with a maximum concentration of 1,600 µg/l in offsite well MW-8.

RECENT CORRESPONDENCE

No correspondence this quarter.

CURRENT QUARTER ACTIVITIES

November 29, 2004: TRC performed groundwater monitoring and sampling. Wastewater generated from well purging and equipment cleaning was stored at TRC's groundwater monitoring facility in Concord, California, and transported by Onyx to the ConocoPhillips Refinery in Rodeo, California, for treatment and disposal.

NEXT QUARTER ACTIVITIES

Await agency directives for additional assessment work, if any.

Perform a dual-phase vacuum extraction pilot test to evaluate its effectiveness in removing hydrocarbon mass in soil and groundwater at localized "hot spots" in the vicinity of MW-3, MW-5, and RW-1.

Continue semi-annual monitoring and sampling to assess plume stability and concentration trends at key wells.



Quarterly Status Report – Fourth Quarter 2004 76 Service Station #0746, Oakland, California February 4, 2005 Page 4

If you have any questions regarding this report, please call me at (925) 688-2466.

Sincerely,

TRC

Roger Batra

Senior Project Manager

Regu Poutro

Attachments:

Figure 3 – Dissolved-Phase TPPH Concentration Map, November 29, 2004, from Semi-Annual Monitoring Report, July through December 2004, dated January 24, 2005 by TRC.

Figure 4 – Dissolved-Phase Benzene Concentration Map, November 29, 2004, from Semi-Annual Monitoring Report, July through December 2004, dated January 24, 2005 by TRC.

Figure 5 – Dissolved-Phase MTBE Concentration Map, November 29, 2004, from Semi-Annual Monitoring Report, July through December 2004, dated January 24, 2005 by TRC.

cc: Thomas Kosel, ConocoPhillips (hard copy and electronic upload)

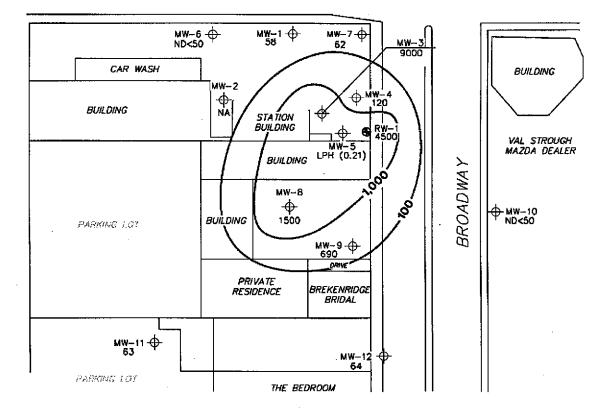


BUILDING

PARKING LOT

BUILDING

40TH STREET





LEGEND

MW-12 Monitoring Well with
Dissolved-Phase TPPH
Concentration (µg/l)
or LPH Thickness (feet)

RW-1 Secovery Well with Dissolved-Phase TPPH Concentration (µg/l)

_1,000 Dissolved-Phase TPPH Contour (µg/l)

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPPH = total purgeable petroleum hydrocarbans. $\mu g/l =$ micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured or collected. LPH = liquid—phase hydrocarbans. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE TPPH CONCENTRATION MAP November 29, 2004

> 76 Station 0746 3943 Broadway Oakland, California

FIGURE 3

4200030-0

TRC

CONTROL OF THE SERVICE OF THE SERVIC



Graphics on Ir1(I:)\GRAPHICS\Projects By..\20-xxxx\20-0400\x-0000\0746+\0746qms.dwg

TO MALE WHEN BY SAMPLES AND A

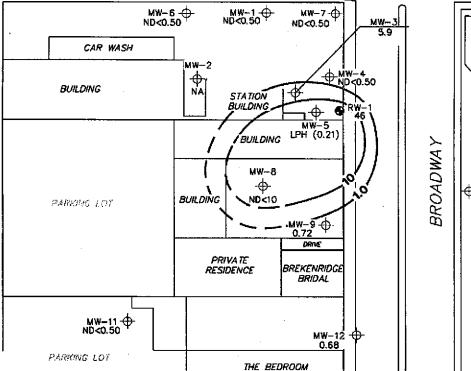
01/14/05 pj

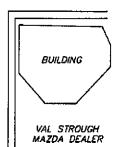
BUILDING

PARKING LOT

BUILDING

40TH STREET





⊕ MW-10 ND<0.50



- MW-12

 Monitoring Well with
 Dissolved-Phase Benzene
 Concentration (μg/l)
 or LPH Thickness (feet)
 - RW-1 ♣ Recovery Well with
 Dissolved-Phase Benzene
 Concentration (µg/I)
- _10 Dissolved—Phase Benzene Contour (μg/l)

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
NA = not analyzed, measured or collected.
LPH = liquid-phase hydrocarbons. Dashes indicate contour based on non-detect at elevated detection limit.

DISSOLVED-PHASE BENZENE CONCENTRATION MAP November 29, 2004

> 76 Station 0746 3943 Broadway Oakland, California

FIGURE 4

TRC

in the world profits.

SCALE (FEET)

0 50

Graphics on Ir1(1:) \GRAPHICS\Projects By...\20-xxxx\20-0400\x-0000\0746+\0746qms.dwg

01/14/05 p

0.000

e di escolo establica

ranagguer in egitsulation

14.50000

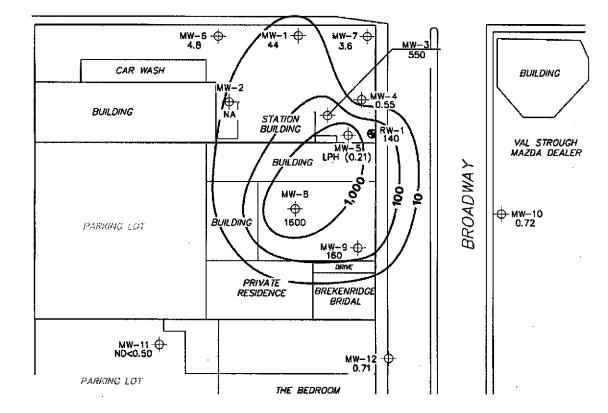
.

BUILDING

PARKING LOT

BUILDING

40TH STREET



31979-5 358995



LEGEND

RW-1 Secovery Well with
Dissolved-Phase MTBE
Concentration (µq/l)

_1,000 Dissolved—Phase MTBE Contour (µg/I)

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiory butyl ether.

µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.

NA = not analyzed, measured or collected.

LPH = liquid-phase hydrocarbons. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE MTBE CONCENTRATION MAP November 29, 2004

> 76 Station 0746 3943 Broadway Oakland, California

FIGURE 5

145 14 /60

TRC

>5=1:1 0746-003

e contra de la regionalista de la contra della contra del



Graphics on Ir1(I:)\GRAPHICS\Projects By...\20-xxxx\20-0400\x-0000\0746+\0746qms.dwg

(20) 50 May 50 May 50

01/14/05 p