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Alameda County
Environmental Health

**ConocoPhillips**

76 Broadway
Sacramento, California 95818

October 29, 2009

Barbara Jakub
Alameda County Health Agency
1131 Harbor Bay parkway, Suite250
Alameda, California 94502-577

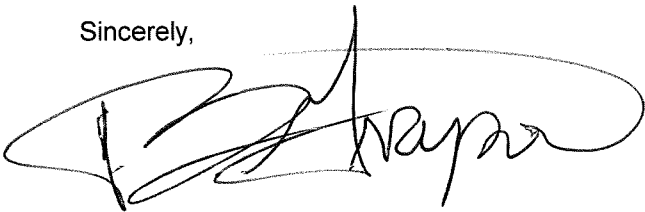
Re: **Quarterly Summary Report—Third Quarter 2009**
76 Service Station # 3072 RO # 02968
2445 Castro Valley Road
Castro Valley, CA

Dear Ms. Jakub:

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please call me at (916) 558-7666.

Sincerely,



Terry L. Grayson
Site Manager
Risk Management & Remediation

October 26, 2009

Mr. Barbara Jakub
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: Quarterly Summary Report – Third Quarter 2009

Delta Project No.: C1Q-3072069
ACEH Case No: RO# 2968



Dear Ms. Jakub:

On behalf of ConocoPhillips (COP), Delta Consultants (Delta) has prepared this quarterly summary report for the following location:

Service Station

Location

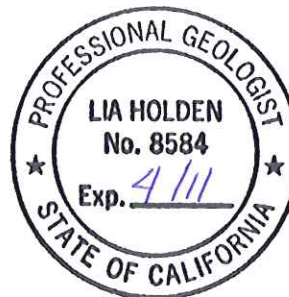
76 Service Station No. 3072

2445 Castro Valley Blvd
Castro Valley, CA

Sincerely,
Delta Consultants

Evan Chantikian
Senior Staff Geologist

Lia Holden, PG #8584
Geologist—Project Manager



Cc: Mr. Terry Grayson – ConocoPhillips (electronic copy only)

QUARTERLY SUMMARY REPORT Third Quarter 2009

SITE DESCRIPTION

The general site location is at the intersection of Castro Valley Boulevard and Stoneridge Avenue in Castro Valley, California, as shown on the Vicinity Map (Figure 1). The Site Map (Figure 2) illustrates the location of the current underground storage tank (UST) system which consists of two 12,000 gallon and one 10,000 gallon gasoline USTs with six fuel dispensers located on three dispenser islands. There is also a waste oil UST located directly south of the station building. The USTs are located to the north of the site, and are oriented approximately northwest-southeast. Two of the dispenser islands are located immediately to the west of the USTs, and oriented perpendicularly. The other island is southeast of, and parallel to the USTs.

SITE BACKGROUND AND ACTIVITY

November 1989 through February 1990: Three 10,000 gallon underground storage tanks (USTs), one 550 gallon waste oil UST, and product piping were removed and replaced. The UST pits were over excavated to remove impacted soil, Kaprealian Engineering (KEI), 1990).

November 14, 1989: Six soil samples (A1, A2, B1, B2, C1, and C2) were collected from below the fuel USTs and one soil sample (WO1) was collected from below the waste oil UST. Samples from beneath the gasoline USTs contained concentrations of total petroleum hydrocarbons as gasoline (TPH-g) from non-detect to 11 parts per million (ppm) and non-detect concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX). Concentrations of total petroleum hydrocarbons as diesel (TPH-d) were non-detect in the sample collected from below the diesel UST. The soil samples collected from beneath the waste oil tank contained reportable concentrations of TPH-g, metals, and 1,1-dichloroethene (1,1-DCE) and were non-detect for all other constituents analyzed (KEI), 1990).

November 16, 1989: Six sidewall soil samples (SW1 through SW6) and a grab water sample were collected from the fuel UST. Samples SW1 and SW4 contained TPH-g concentrations of 140 ppm and 160 ppm, respectively. TPH-d was detected at a concentration of 24 ppm in sample SW4 (KEI), 1990).

December 22, 1989: Eight soil sidewall samples (SW1 (17), SW2 (17), SW7 through SW11, and SW3 (17)) were collected after additional excavation of the UST pits. Maximum reported TPH-g concentrations were 1,500 ppm and 1,900 ppm (KEI), 1990).

January 18 and 19, 1990: Three 2-inch diameter monitoring wells (MW1, MW2, and MW3) were installed onsite (KEI), 1990).

February 14, 1990: Three soil samples (P1, P2, and P3) were collected from the product pipeline trenches. Low to non-detect concentrations of TPH-g and BTEX were detected with a maximum TPH-g concentration of 87 ppm (KEI), 1990).

March 9, 1990: Three sidewall soil samples (SWB, SWC, and SWD) were collected from the sidewalls of the waste oil UST pit. Low to non-detect concentrations of TPH-g and BTEX were detected with a maximum TPH-g concentration of 37 ppm (KEI), 1990.

April 24 and 25, 1990: Eight exploratory soil borings (EB1 through EB8) were drilled and soil sampled collected. The borings were backfilled with neat cement. Low to non-detect concentrations of TPH-g and BTEX were detected with a maximum TPH-g concentration of 5 ppm (KEI), 1991).

August 13, 1990: Two 2-inch monitoring wells (MW4 and MW5) were installed. Soil samples from the monitoring well pilot borings contained non-detect concentrations of TPH-g and BTEX in all samples. Benzene was detected at a maximum concentration of 3.2 ppb (KEI), 1990).

June 15, 1993: Monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 were destroyed by KEI.

June 7, 2001: Gettler-Ryan Inc. (GR) observed the removal of one hydraulic hoist from the site. A soil sample from 8.5 feet below grade (fbg) was reported to contain 1,200 mg/kg TPH-Hydraulic Fluid (GR, 2001).

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

January 24, 25 and 31, 2005: TRC conducted a Baseline Site Assessment (TRC, 2005) which involved the advancement of six direct-push borings (SB-1 through SB-6) to assess the presence of hydrocarbon-affected soil and groundwater beneath the site. TPPH was detected in two soil samples at a maximum concentration of 480 ppm in SB-1 at a depth of 8 fbg. MTBE was detected in two soil samples at a maximum concentration of 0.11 ppm in SB-3 at a depth of 18 fbg. MTBE was detected in three of the four grab groundwater samples at a maximum concentration of 87 ppb in boring SB-1.

May 2007: TRC conducted an additional site assessment using cone penetrometer test (CPT) equipment, advancing CPT borings CPT-1, CPT-2, CPT-4, and CPT-5 onsite, to depths of up to 55 fbg. TPH-D was detected in groundwater samples collected in all four soil borings, with a maximum concentration of 800 micrograms per liter ($\mu\text{g/l}$) in the groundwater sample collected from CPT-4. MTBE was in three of four borings with a maximum of 10 $\mu\text{g/l}$ detected in CPT-4. TBA was detected only in CPT-2 at a maximum of 54 $\mu\text{g/l}$. No other analytes were detected during this investigation.

SENSITIVE RECEPTORS

January 31, 2006: TRC completed a sensitive receptor survey for the site. No wells or water bodies identified during the survey are believed to be near enough to the site or in the direct path of groundwater flow from the site to be considered sensitive receptors.

GROUNDWATER MONITORING AND SAMPLING

There is currently no groundwater monitoring and sampling program for this site.

REMEDIATION STATUS

There has been no remediation action at this site.

CONCLUSIONS AND RECOMMENDATIONS

Although concentrations detected in TRC's May 2007 CPT investigation exceed the Regional Water Quality Control Board's (RWQCB) environmental screening levels (ESLs), concentrations are relatively low (details stated in the site background and activities). Delta submitted the *Work Plan for Delineation of Two Potential Water-Bearing Zones, dated January 14, 2009*. **Delta recommends rescinding the recommendations proposed in the January 14, 2009 work plan and will prepare and submit a revised work plan for well installations appropriate for site conditions.** Groundwater samples collected from wells that are properly screened, developed, and purged prior to sampling may be more representative than those collected from borings and will provide data for current site conditions. Delta will prepare and submit the work plan during the fourth quarter 2009.

RECENT CORRESPONDENCE

There has been no recent correspondence.

THIS QUARTER ACTIVITIES (Third Quarter 2009)

- No monitoring and sampling was performed for this site.

NEXT QUARTER ACTIVITIES (Fourth Quarter 2009)

- No monitoring or sampling is scheduled.
- Delta will prepare and submit a revised work plan for well installation.

CONSULTANT: Delta Consultants

REMARKS

The descriptions, conclusions, and recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. For any reports cited that were not generated by Delta, the data from those reports is used "as is" and is assumed to be accurate. Delta does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were conducted. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

References Cited

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Kaprealian Engineering Inc., Stockpiled Soil Sampling for Unocal Service Station #3072, 2445 Castro Valley, California, January 12, 1990.

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Kaprealian Engineering Inc., Follow Up Soil Sampling Report, Unocal Service Station #3072, 2445 Castro Valley, California, April 13, 1990.

Kaprealian Engineering Inc., Continuing Subsurface Investigation at Unocal Service Station #3072, 2445 Castro Valley, California, June 11, 1990.

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Kaprealian Engineering Inc., Subsurface Soil Investigation at Unocal Service Station #3072, 2445 Castro Valley, California, February 27, 1996.

Gettler-Ryan Inc., Soil Sampling During Hydraulic Hoist Removal at Tosco Service Station #3072, 2445 Castro Valley Blvd, Castro Valley, California, September 6, 2001.

TRC, Hydropunch Groundwater Investigation Report at 76 Service Station No. 3072, 2445 Castro Valley Blvd, Castro Valley, CA, October 10, 2007