## ALAMEDA COUNTY HEALTH CARE SERVICES

**AGENCY** 

DAVID J. KEARS, Agency Director



RO#464

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700

FAX (510) 337-9335

August 4, 2000 StID # 541

Mr. Tom Bauhs Chevron USA Products Co. P.O. Box 6004 San Ramon, CA 94583

Re: Chevron Facility No. 9-1851, 451 Hegenberger Rd., Oakland CA 94621

Dear Mr. Bauhs:

Our office has received and reviewed the Interim Corrective Action Plan (ICAP) for the above site as prepared by Delta Environmental Consultants. This report responds to my February 10, 2000 and also, necessarily, to my August 25, 1999 letter. These letters brought out questions regarding the results of the 1999 waste oil tank removal, the sampling beneath dispensers and historical presence of elevated levels of MTBE at the site.

The ICAP proposes the installation of three additional on-site monitoring wells and the intermittent purging of MW-4 and the two proposed down-gradient wells. Please consider my following observations:

- Please look at the historic gradient. Shouldn't one of the monitoring wells be located downgradient of the highest impacted well, MW-4?
- If groundwater removal from wells will play a significant part in source removal and remediation, shouldn't you consider installing a larger diameter well?
- Once groundwater purging is started, please include an estimate of the amount of TPH compounds being removed during each quarter and cumulatively. Your purge schedule should optimize source removal.
- Is there a way to test whether the tank pit is a petroleum release source? Are there any tank back-fill wells?

The following observations refer to the my August 25, 1999 letter:

- Please incorporate the analysis for semi-volatiles, TEPH and the metals; cadmium, chromium, lead, nickel and zinc in your next monitoring event for MW-2 because these waste oil analytes have not yet been run.
- Please confirm your MTBE results using EPA Method 8260.
- Please determine why and prevent the reporting of elevated detection limits for the fuel oxygenates other than MTBE.

Please respond to these comments prior to implementing your ICAP. You may contact me at (510) 567-6765 if you have any questions.

Mr. Tom Bauhs Chevron Station #9-1851 541 Hegenberger Rd., StID # 541 August 4, 2000 Page 2.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

C: B. Chan, files

Mr. S. Meeks, Delta Environmental, 3164 Gold Camp Dr., Suite 200, Rancho Cordova, CA, 95760-6021

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## ALAMEDA COUNTY HEALTH CARE SERVICES

**AGENCY** 



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ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9432

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DAVID J. KEARS, Agency Director

February 10, 2000 StID # 541

Mr. Brett Hunter Chevron USA Products Co. P.O. Box 6004 San Ramon, CA 94583-0904

Re: Chevron Service Station #9-1851, 451 Hegenberger Rd., Oakland CA 94621

Dear Mr. Hunter:

It appears that the items noted in my August 25, 1999 letter to Mr. Phil Briggs have not yet been addressed by Chevron. I have enclosed a copy of this letter for your reference. Please respond to these items in writing within 45 days or no later than March 28, 2000.

Upon review of the recent 4<sup>th</sup> Quarter 1999 monitoring report, it appears that conditions remain consistent with previous results. A site-wide MTBE problem exists, with exceedingly high concentrations being found in MW-4. Although the Regional Water Quality Control Board has not issued their recommendations as yet, it is believed that theirs will be similar to that of the SWRCB. Nevertheless, it is safe to assume that site characterization will be required and that high concentrations of MTBE will require remediation. Therefore, our office requests the installation of additional well(s) to delineate the extent of the MTBE plume. As you may be aware, a May 1998 utility investigation did not identify any utilities acting as preferential pathways. Your off-site wells can be used to distinguish MTBE releases from the multiple sources existing in this area. Our office also requests the initiating remediation to treat the source(s) of MTBE. This should include an evaluation of viable remedial alternatives based upon cost and effectiveness. Please include your work plan and remediation proposal along with the above requested items.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely.

Barney M. Chan

Hazardous Materials Specialist

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**Enclosure** 

C: B. Chan, files

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#### **HEALTH CARE SERVICES**

**AGENCY** 



DAVID J. KEARS, Agency Director

R-04/24

August 25, 1999 StID # 541

Mr. Phil Briggs Chevron Products Co. 6001 Bollinger Canyon Rd. Building L, Room 1080 P.O. Box 6004 San Ramon, CA 94583-0904 **ENVIRONMENTAL HEALTH SERVICES** 

1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9335 (FAX)

Re: Chevron Service Station #9-1851, 451 Hegenberger Rd., Oakland CA 94621

Dear Mr. Briggs:

Our office has reviewed the December 23, 1998 Geo-logic report of soil sampling from below the former waste oil tank and fuel dispensers and the recent First Quarter 1999 monitoring report for the above site. Our office has the following observations and comments:

- Please submit a copy of the underground tank closure report for the aforementioned waste oil tank removal.
- In the Geo-logic report free product was noted to appear on the groundwater within the waste oil tank, however, a groundwater sample was never collected. Why wasn't a sample taken for chemical analysis? In addition, it appears that the soil sample collected from the waste oil tank pit was never analyzed for semi-volatile organic compounds. To account for this oversight, please include the analysis for semi-volatiles, total extractable petroleum hydrocarbons and the metals; cadmium, chromium, lead, nickel and zinc in your next sampling event for MW-2. This is in addition to TPHg, BTEX and MTBE already being analyzed.
- The samples collected from beneath the dispensers reported elevated TPHg and BTEX. Was there any attempt to over-excavate these areas and re-sample? What is the impact of this soil contamination to groundwater?
- Please include the MTBE concentration reported by EPA Method 8260 in all future monitoring reports. This value is more accurate than that reported by EPA 8020. What is being considered for the elevated MTBE concentration in groundwater?

Please provide a written response to this letter within 30 days or by September 27, 1999.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely.

Barney M. Chan

Hazardous Materials Specialist

C: B. Chan, files 451HegRd?

AGENCY DAVID J. KEARS, Agency Director



R0#464

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

April 10, 1998

Mr. Philip Briggs Chevron Products Co. 6001 Bollinger Canyon Rd., Bld L San Ramon, CA 94583

Re: Chevron Service Station #9-1851, 451 Hegenberger Rd., Oakland CA 94621

Dear Mr. Briggs:

As requested in your recent quarterly groundwater monitoring reports for the above site, our office approves the discontinuance for the sampling of volatile organics in MW-2 at the site with the exception of BTEX and MTBE. Please be aware that new requirements for the analysis of fuel oxygenates and other fuel additives are being developed by the RWQCB and this approval may be changed based upon new upcoming requirements. You are also reminded that MTBE is most accurately quantified by Method 8260 and therefore you may want to confirm MTBE concentrations by this method intermittently.

Our office looks forward to receiving the results of the planned subsurface investigation regarding potential preferential pathways.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan

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Hazardous Materials Specialist

C: B. Chan, files

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### HEALTH CARE SERVICES

DAVID J. KEARS, Agency Director



Ro#464

January 2, 1998

Mr. Phil Briggs Chevron Products Co. 6001 Bollinger Canyon Rd., Bld. L Room 1110 P.O. Box 5004 San Ramon, CA 94583-0804

AGENCY

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway. Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Re: Update on Chevron sites

Dear Mr. Briggs:

I recently wrote you about several Chevron or former Chevron sites which we previously discussed in our 8/21/97 meeting. This letter serves to update you on progress and needs of those sites where a specific letter has not been written.

StID # 607 , Former Signal Bulk Plant (RO#636) 2001 Versailles Ave. Alameda CA 94501

Our office has received and is currently reviewing the Risk Management Plan (RMP) for this site. Ms. Madhulla Logan, staff toxicologist, is discussing questions she has regarding the RMP with your consultant. As you may recall, groundwater monitoring should be put on hold. It is anticipated that after the approval and implementation of the approved RMP, the site will be recommended to the Water Board for closure. It appears that we are still missing the items mentioned in my September 15, 1997 letter, ie the monitoring well installation reports for all wells with the exception of the five wells installed on December 1984 and the one installed on May 1994. Please clarify the exact number and locations of all monitoring wells at this site.

StID # 838, Former Chevron Service Station, # 9-4340 (R0# 1085) 2681 Fruitvale Ave. Oakland CA 94601

Our office has received a copy of RBCA/Closure Request from Cambria. This document is currently being reviewed by Ms. Logan. Upon completion of her review, it will be determined if a Risk Management Plan will be necessary. We have been notified that the title for monitoring well MW-13 has been transferred to the City of Oakland and remains part of their monitoring schedule. When the site has been approved for closure by our office and the RWQCB, it would be adviseable to resample those wells where ORC has been added to obtain the actual concentration of hydrocarbons left in-place. This information will be included in the transmittal letter for future notification purposes.

Mr. P. Briggs Update on Chevron sites January 2, 1998 Page 2.

StID # 4249, Former Chevron Station #9-4612 (R0#233) 3616 San Leandro St. Oakland CA 94601

Our office has written a separate letter to you regarding this site.

StID # 541, Chevron Service Station # 9-1851 (Ro# 464) 451 Hegenberger Rd. Oakland CA 94621

Our office has written a separate letter to you regarding this site.

StID # 103, Chevron Service Station #9-0076 (R0#427) 4265 Foothill Blvd. Oakland CA 94601

Our office has received the RBCA for this site. I have recently provided this report to Ms. Logan along with a copy of Chevron/Shell's basement and well survey for this area for her review. We have also received the raw data for the soil samples taken from the recent piping and overspill protection upgrade at this site. We received the report of the installation of ORC in monitoring wells C-2, C-4 and C-6. At this point please continue to monitor the wells according to the existing schedule, ie quarterly for all wells except wells C-5, C-8 and C-9 which are sampled annually. After County review of the RBCA either additional remediation or a modified monitoring schedule may be appropriate.

As it has become more common to measure for bioremediation parameters, please have your consultant determine the need to establish a trend in the analysis of these results. Most analytical measurements should be routinely run during each monitoring event until a trend is illustrated. Your consultant should provide interpretation of the results. The addition of ORC to each impacted well should not be assumed to be the correct approach.

Please provide the requested information and provide a written comment to this letter within 30 days or by February 4. 1998.

You may contact me at (510) 567-6765 if you have any questions.

Mr. P. Briggs Update on Chevron sites January 2, 1998 Page 3.

Sincerely,

Barney W. Chan

Hazardous Materials Specialist

c: B. Chan, files

Mr. C. Mapes, 14 Grass Valley Ct., Oakland CA 94605 John & Molly King, King Petroleum, Inc., P.O. Box 137, Woodacre, CA 94973

Ms. M. Guensler, Exxon Co. USA, P.O. Box 4032, Concord, CA 94524-2032

Ms. G. Alie, 3032 Davis St., Oakland CA 94601

Ms. Linda M. and Laura A. Morn, c/o John Morn, 69 La Espiral Orinda, CA 94563

Ms. T. Arrowood, Cambria Env. Tech., Inc., 1144 65th St., Suite B, Oakland CA 94608

Mr. A. Perez, Shell Oil Co., P.O. Box 8080, Martinez, CA 94553

Ms. B. Russell, American Stores Properties, Inc., 348 E. South Temple St., Salt Lake City, UT 84111

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#### **HEALTH CARE SERVICES**

**AGENCY** 



DAVID J. KEARS, Agency Director

December 30, 1997 StID # 541

Mr. Philip Briggs Chevron Products Co. 6001 Bollinger Canyon Rd., Bld L San Ramon, CA 94583 R0#464
ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

RE: Chevron Service Station #9-1851, 451 Hegenberger Rd., Oakland 94621, Workplan for Groundwater Investigation

Dear Mr. Briggs:

Our office has received and reviewed the November 10, 1997 Pacific Environmental Group (PEG) workplan for groundwater investigation along the water line trenches downgradient to the above referenced site. This workplan responds to my prior October 8, 1997 letter following my review of PEG's September 30, 1997 report. Basically, there's a question as to where the onsite MtBE plume is migrating. Fairly elevated levels of MtBE exist onsite, yet are not being detected downgradient in the wells at the Unocal station at 449 Hegenberger Road.

The workplan proposes advancing five hand driven probes with retractable screen section along the water line in Edgewater and Hegenberger Roads. It is anticipated that groundwater will be encountered at 3-5'bgs. This workplan is approved with the following additional requirement:

\* Please analyze the water samples for TPHg and BTEX in addition to MTBE and request that the laboratory obtain the typical detection limits for these analytes ie 50 ppb for TPHg and 0.5 ppb for BTEX. Any detectable MtBE should be confirmed using EPA Method 8260, if not run initially by this method.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

c: B. Chan, files

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Mr. R. Tinline, PEG, Inc., 2025 Gateway Place, Suite 440, San Jose, CA 95110

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#### AGENCY



DAVID J. KEARS, Agency Director

October 8, 1997 StID # 541

Mr. Philip Briggs Chevron Products Co. 6001 Bollinger Canyon Rd., Bld L San Ramon, CA 94583 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

RO# 464

RE: Chevron Service Station #9-1851, 451 Hegenberger Rd., Oakland 94621

Dear Mr. Briggs:

Thank you for the submittal of the Pacific Environmental Group (PEG) September 30, 1997 report, **Site Evaluation for Potential MtBE Impacts.** I have reviewed this report and I agree with your consultant's recommendation for "further investigation to determine the extent of MtBE in groundwater and to evaluate whether the water line trenches are acting as preferential pathways for the migration of MtBE."

This report identified the one site which could be impacted or contribute to a commingled plume, the Unocal station at 449 Hegenberger Rd. I have reviewed the monitoring results for this site, in particular, MW-9, the well most likely to be impacted by a release from the Chevron site. Its location is shown on Figure 4 of the PEG report. Interestingly, MW-9, has not detected elevated levels of MtBE which might be expected with the high concentrations detected in Chevron's well, MW-4. This leads to the belief that there may be a preferential pathway intercepting groundwater from the Chevron site.

Please provide within 30 days or by November 10, 1997, a work plan to followup on your consultant's recommendation. This might include temporary or permanent borings/wells along the utility lines.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

c: B. Chan, files

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Mr. R. Tinline, PEG, Inc., 2025 Gateway Place, Suite 440, San Jose, CA 95110

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#### **AGENCY**



DAVID J. KEARS, Agency Director

June 9, 1997 StID # 541

Mr. Phil Briggs Chevron Products Co. P.O. Box 5004 San Ramon, CA 94583 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

RO#464

Re: Work Plan for 451 Hegenberger Rd., Oakland CA 94621

Dear Mr. Briggs:

Our office has received and reviewed the June 2, 1997 Pacific Environmental Group work plan to determine the potential impacts of the MTBE plume at the above site. This is in response to my May 1, 1997 letter which points out the high levels of MTBE detected in MW-4 and its potential for offsite migration.

This work plan calls for;

- 1. A file review at the County's office. Please be aware that the RWQCB no longer keeps UST site files. The Unocal site at 449 Hegenberger Rd. is the closest LOP site. It currently has not identified a MTBE problem.
- 2. A 1/2 mile radius well survey.
- 3. A utility survey.
- 4. A sensitive receptor survey and a final report with findings and recommendations. These actions are approved.

Please also perform an inventory check of the site to confirm that no prior or existing release has or is occurring. Please keep in mind that current groundwater cleanup levels in California for MTBE range from 100-700 ppb. As long as the levels at this site exceed these levels, you will be required to delineate the plume with either sampling or monitoring.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

c: B. Chan, files

Mr. R. Tinline, PEG Inc., 2025 Gateway Place, Suite 440, San Jose, CA 95110

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## ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

Ro#464

May 1, 1997 StID # 541

Mr. Philip Briggs Chevron Products Co. 6001 Bollinger Canyon Rd., Bld. L San Ramon, CA 94583 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Re: Chevron Service Station #9-1851, 451 Hegenberger Rd., Oakland 94621

Dear Mr. Briggs:

Our office has received and reviewed the April 24, 1997 groundwater monitoring report for the above site. Based upon these results, it appears that a significant release of MTBE has occurred at this site. MTBE was detected during the 3/20/97 event in all four monitoring wells at this site with the highest concentration being detected in MW-4 the well closest to the fuel The confirmatory water sample from MW-4 which analyzed the sample via EPA method 8260 reported 8600 ppb MTBE versus 10,000 ppb via EPA method 8020. Interestingly, in the same sample which detected 10,000 ppb MTBE, gasoline was reported at This result is somewhat confusing. Either the MTBE has migrated to the monitoring well and separated from the TPHg plume or there is a problem with the analytical laboratory's TPHg analysis. Typical MTBE concentration in gasoline at approximately 11% would equate to a TPHg concentration of about 90,000 ppb for the 10,000 ppb MTBE reported. The former scenario, rapid MTBE plume migration, is the most likely situation.

Because MTBE is known to migrate at much higher rates that TPHg plus its other physical characteristics (high water solubility, low absorption on soil, little to no biodegradation and unknown toxicity) it is important to, at a minimum, define the limits of the MTBE plume. This may be complicated by preferential pathways and comingled plumes both possible at this site. These items should be investigated. Any sensitive receptors should also be identified given the high mobility of MTBE.

Please prepare a work plan which determines the limit of the MTBE plume. The source of the release should also be investigated particularly if it is an ongoing source which can continue to add to the released mass.

Mr. P. Briggs 451 Hegenberger Rd. StID # 541 May 1, 1997 Page 2.

Please provide your work plan within 30 days or by June 2, 1997. You may contact me at (510) 567-6765 if you have any questions. Sincerely,

Barney M. Chan

Hazardous Materials Specialist

c: B. Chan, files

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AGENCY DAVID J. KEARS, Agency Director



RO#464

RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Parkway Alameda, CA 94502-6577 (510) 567-6700

March 19, 1996 StID # 541

Mr. Phil Briggs Chevron USA Products Co. 6001 Bollinger Canyon Rd., Bldg. L P.O. Box 5004 San Ramon, CA 94583-0804

Re: Chevron Service Station #9-1851, 451 Hegenberger Rd., Oakland 94621

Dear Mr. Briggs:

It is my understanding that you have taken over the sites formerly overseen by Mr. Mark Miller. The above referenced site is one of these. Our office has reviewed the December 29, 1995 Preliminary Site Assessment report for this site which details the results of soil and groundwater sampling from five borings, four of which were converted into monitoring wells, MW-1 through MW-4. We concur with the report's conclusions and Mr. Miller's recommendation for this site ie low levels of petroleum hydrocarbons has impacted the shallow groundwater beneath this site and quarterly groundwater monitoring should be initiated to verify the concentrations of hydrocarbon and solvents detected. Please continue to analyze the parameters tested in the initial investigation.

This site has been transferred to the Local Oversight Program (LOP). A Notice of Requirement to Reimburse (NORR) letter was recently sent to Mr. Miller's attention. Should have any comments or questions, please contact me at (510) 567-6765.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

c: Ms. B. Sieminski, Gettler-Ryan Inc., 6747 Sierra Ct., Suite J, Dublin, CA 94568

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# ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

DAVID J. KEARS, Agency Director

September 19, 1990

Bruce Jocewicz Edgewater Chevron Center 451 Hegenberger Rd. Oakland, CA 94621 DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Program 80 Swan Way, Rm. 200 Oakland, CA 94621 (415)

Re: Waste Minimization Assessment

Dear Bruce Jocewicz:

Your business has been selected to receive a hazardous waste minimization assessment. As you are probably aware, hazardous waste reduction has become a statewide, if not a national, issue. To address this issue at a county level, Alameda County is establishing its own Hazardous Waste Minimization Program and is planning to conduct waste minimization assessments for all hazardous waste generating facilities in the County.

We have chosen businesses in the auto repair industry to receive the first round of waste minimization assessments. It is our hope that these assessments will assist participating businesses in minimizing their hazardous wastes - and will give us further information on the best way to structure our minimization program.

One of our Hazardous Materials Specialists will be contacting you during the week of September 24 to arrange a meeting with you for an assessment of your business. During this meeting and assessment, the Specialist will work with you in examining your business's hazardous waste generating practices. The Specialist will then provide you with materials on waste reduction technology and assist you in setting up appropriate hazardous waste minimization practices.

We look forward to working with you in reducing the amount of hazardous waste your business generates. Of course, your comments and suggestions are encouraged; we need your input in order to best serve you! Please direct any comments and questions to Katherine Chesick at 415/271-4320.

Sincerely,

Edgar B. Howell, Chief,

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Alameda County Hazardous Materials Division

EBH: kac

cc: Fire Department

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August 7, 1990

DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Program 80 Swan Way, Rm. 200 Oakland, CA 94621 (415)

Mr. K. K. Li Chevron Station # 91851 451 Hegenberger Rd. Oakland, CA 94621

Re: Five (5) Year Operating Permit for Underground Tanks

Enclosed please find your five year operating permit for the five underground tanks at your facility. You are reminded for the four single walled tanks to keep your quarterly monitoring records onsite for three years. You should keep this permit onsite for viewing purposes. A copy has been sent to Chevron for their file.

Please contact the undersigned should you have any questions regarding this letter.

Sincerely,

Barney M. Chan

Barney M Clan

Hazardous Materials Specialist

enclosure

cc: Mr. C.J. Trimbach, Chevron U.S.A. Inc.