

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



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

RO0000275

March 24, 2004

Ms. Karen Streich
Chevron
P.O. Box 6012, L4052
San Ramon, CA 94583-0804

RE: **Workplan Approval for Former Chevron 9-2960 at 2416 Grove Way, Castro Valley, CA**

Dear Ms. Streich:

I have completed review of Cambria's February 25, 2004 *Investigation Workplan* and their March 24, 2004 *Investigation Workplan Addendum* prepared for the above referenced site. The proposal to collect soil vapor samples to assess indoor air human health risks and to collect soil and groundwater samples to better delineate the contaminant plume at the site is acceptable.

Field work should commence within 90 days of the date of this letter, or by **June 28, 2004**. Please provide at least 72 hours advance notice of field activities. If you have any questions, I can be reached at (510) 567-6762 or by email at eva.chu@accgov.org.

eva chu
Hazardous Materials Specialist

c: Donna Drogos
email: Sara Giorgi, Cambria

chevron9-2960-1

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



05-17-02

20275

STID 656

May 16, 2002

Mr. Thomas Bauhs
Chevron U.S.A Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

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

Re: Former Chevron at 2416 Grove Way, Castro Valley, CA

Dear Mr. Bauhs:

I am in receipt of "Well Abandonment at Former Unocal Service Station No.2512" document, dated January 14, 2002, regarding the above referenced site, submitted by Mr. Geoffrey D. Risse of Gettler-Ryan Inc.

Per this document MW-3, MW-7, MW-8, and MW-9 well properly decommissioned as required by California Department of Water Resources Water Well Standards and Alameda County Public Works Agency guidelines.

Therefore, this case will be closed as stated previously.

Please call me at (510) 567-6876 if you have any questions.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Ms. Deanna L. Harding, Gettler-Ryan Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



12-21-01

DO275

STID 656

December 20, 2001

Mr. Thomas Bauhs
Chevron U.S.A Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

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

Re: Former Chevron at 2416 Grove Way, Castro Valley, CA

Dear Mr. Bauhs:

I have received and reviewed "Work Plan for Monitoring Well Installation" document dated November 6, 2001, regarding the above referenced site, submitted by Mr. Tony P. Mikacich of Gettler-Ryan Inc. of Blaine Tech Services, Inc.

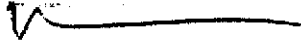
This document is in response to the correspondence previously sent by this office. As you are aware, C-1 and C-2 monitoring wells used to reveal the highest concentrations of benzene at 1,500 and 1,100ppb in 1998. However both wells were abandoned and were no longer sampled. Later on in a letter dated May 7th, 1997 Mr. Curtis A. Peck, a geologist working for Chevron, proposes to have C-1, C-2, and C-3 replaced due to Redwood Road widening activity back then. In the above document you indicated that out of the three wells currently existing at the site (C-4, C-6, and C-7), only C-7 remains functional since C-4 and C-6 wells have been paved over. C-7 well is located about 100 feet down gradient of the former USTs and has indicated ND levels of contaminants since 1990. Therefore, C-7 well does not provide much significant information regarding the size of this plume. Per my conversation with Mr. Mikacich of Gettler-Ryan, the present work plan proposal is not sufficient for defining the existing plume. Therefore, per my discussion with Mr. Mikacich, you need to include at least three soil/groundwater samples to better delineate the existing plume in addition to installment of the proposed monitoring well. Our discussion included location of the well and the soil/groundwater borings as well. This included installment of one monitoring well down gradient from former C-1 well at the property line, and collection of three soil/groundwater samples including one at the area between C-1 and C-2 wells, one upgradient of C-2 well, and one down gradient of former dispenser island at Grove Way.

This will assist in definition of the plume since all wells including C-1, C-2, C-3, C-5, and C-6 wells have been paved over and or rendered non-functional.

Groundwater gradient has been previously determined to be Southwesterly.

If you have any questions, please call me at (510) 567-6876.

Sincerely,


Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Ms. Deanna L. Harding, Gettler-Ryan Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



10-10-01

PO275

STID 656

October 9, 2001

Mr. Thomas Bauhs
Chevron U.S.A Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

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

Re: Former Chevron at 2416 Grove Way, Castro Valley, CA


Dear Mr. Bauhs:

This office is in receipt of "Groundwater Monitoring and Sampling Report" dated August 6, 2001 regarding the above referenced site, submitted by Mr. Scott Boor of Blaine Tech Services, Inc. I have reviewed the above document and have the following comments regarding this report:

- As previously indicated C-1 and C-2 monitoring wells had the highest concentrations of benzene at 1,500 and 1,100ppb in 1998. However both wells were abandoned and were no longer sampled. In a letter dated May 7th, 1997 Mr. Curtis A. Peck, a geologist working for Chevron, proposes to have C-1, C-2, and C-3 replaced due to Redwood Road widening activity back then. However, I do not see any monitoring wells replacing these abandoned wells and since they did contain high concentrations of at least benzene, it would be imperative to follow up with some remedy for this lack of information at the above mentioned wells.
- Per this report C-1, C-2, C-3, and C-5 wells have been abandoned.
- There were other wells, C-1, C-2, C-3, and C-5, which have been paved over, abandoned, and or not found at all. However, none of these wells had shown any significant concentrations of the constituents as high as C-1 and C-2 wells have in the past.
- Per Figure 1 within this report only groundwater level within C-7 has been measured.
- Quarterly monitoring report had not been submitted since last year. Have you been approved to submit reports on a schedule different from routine quarterly basis, by my previous colleagues?
- This report is insufficient in many aspects as indicated above. Please address all above within 30 days from the date of this letter or by 11/8/2001.

Should you have any questions, please call me at (510) 567-6876.

Sincerely,



Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Ms. Deanna L. Harding, Gettler-Ryan Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



10-31-00

Ro# 275

Stid 656

October 30, 2000

Mr. Phil Briggs
Chevron U.S.A Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

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

Re: Former Chevron at 2416 Grove Way, Castro Valley, CA

Dear Mr. Briggs:


I have been recently assigned to oversee the above referenced site. I have received and reviewed the "Groundwater Monitoring Report" dated 4-24-2000 regarding the above referenced site, submitted by Mr. Scott Boor of Blaine Tech Services, Inc. I would like to make the following comments regarding this report:

- Per this report C-1 and C-2 monitoring wells had the highest concentrations of benzene at 1, 500 and 1,100ppb in 1998. However both wells were abandoned and were no longer sampled. In a letter dated May 7th, 1997 Mr. Curtis A. Peck, a geologist working for Chevron, proposes to have C-1, C-2, and C-3 replaced due to Redwood Road widening activity back then. However, I do not see any monitoring wells replacing these abandoned wells and since they did contain high concentrations of at least benzene, it would be imperative to follow up with some remedy for this lack of information at the above mentioned wells. Unlike C-1 and C-2 wells, C-3 well did not contain high levels of Benzene in the past per this report.
- There were other contaminants in the C-1 and C-2 wells as well as Benzene.
- There is only two water level measurements on Figure 1 belonging to C-7 and C-6 wells. Is the groundwater gradient still heading west?

You may respond to these concerns on the next quarterly groundwater monitoring report.

Please call me at (510) 567-6876, if you have any questions.

Sincerely,


Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Mr. Scott Boor, Blaine Tech Services Inc., 1680 Rogers Avenue,
San Jose, CA 95112-1105
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0215

May 4, 1999

STID 656

Mr. Phil Briggs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250.
Alameda, CA 94502-6577
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RE: (Former) Chevron Service Station #9-2960, 2416 Grove Way, Castro Valley

LANDOWNER NOTIFICATION AND PARTICIPATION REQUIREMENTS

Dear Mr. Briggs:

This letter is to inform you of new legislative requirements pertaining to cleanup and closure of sites where an unauthorized release of hazardous substance, including petroleum, has occurred from an underground storage tank (UST). Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code requires the primary or active responsible party to notify all current record owners of fee title to the site of: 1) a site cleanup proposal, 2) a site closure proposal, 3) a local agency intention to make a determination that no further action is required, and 4) a local agency intention to issue a closure letter. Section 25297.15(b) requires the local agency to take all reasonable steps to accommodate responsible landowners' participation in the cleanup or site closure process and to consider their input and recommendations.

For purposes of implementing these sections, you have been identified as the primary or active responsible party. Please provide to this agency, within twenty (20) calendar days of receipt of this notice, a complete mailing list of all current record owners of fee title to the site. You may use the enclosed "list of landowners" form (sample letter 2) as a template to comply with this requirement. If the list of current record owners of fee title to the site changes, you must notify the local agency of the change within 20 calendar days from when you are notified of the change.

If you are the sole landowner, please indicate that on the landowner list form. The following notice requirements do not apply to responsible parties who are the sole landowner for the site.

LANDOWNER NOTIFICATION
Re: 2416 Grove Way, Castro Valley
May 4, 1999
Page 2 of 2

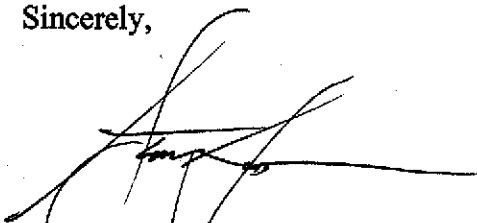
In accordance with Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code, you must certify to the local agency that all current record owners of fee title to the site have been informed of the proposed action before the local agency may do any of the following:

- 1) consider a cleanup proposal (corrective action plan)
- 2) consider a site closure proposal
- 3) make a determination that no further action is required
- 4) issue a closure letter

You may use the enclosed "notice of proposed action" form (sample letter 3) as a template to comply with this requirement. Before approving a cleanup proposal or site closure proposal, determining that no further action is required, or issuing a closure letter, the local agency will take all reasonable steps necessary to accommodate responsible landowner participation in the cleanup and site closure process and will consider all input and recommendations from any responsible landowner.

Please call me at (510) 567-6783 should you have any questions about the content of this letter.

Sincerely,



Scott O. Seery, CHMM
Hazardous Materials Specialist

Attachments

cc: Chuck Headlee, RWQCB

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

Ro# 275

July 23, 1998

STID 656

Mr. Phil Briggs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

ENVIRONMENTAL HEALTH SERVICES

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

RE: (Former) Chevron Service Station #9-2960, 2416 Grove Way, Castro Valley

Dear Mr. Briggs:

The Alameda County Public Works Agency (ACPWA) has been implementing a widening and reconstruction project on Redwood Road and "A" Street, between Castro Valley Boulevard and the Hayward city limit. The initial phase of this three-phase construction project began in 1996 at the Redwood Road/Castro Valley Boulevard intersection.

The next phase of the project will be in and around the Grove Way/Redwood Road intersection and will encroach onto the subject site. Three of the site monitoring wells (C-1, -2, and -3) are located within the reconstruction area and will be destroyed in the process. A map is attached showing these locations.

Under these circumstances, this agency approves the destruction of these wells. One or more of the wells may require replacement once the road project has been completed. These details may be worked out at a later date.

ACPWA has requested that you be informed of this issue. Please coordinate with ACPWA to ensure these wells are properly destroyed under permit before October 1, 1998. Please contact Mr. Lorenzo King of ACPWA at (510) 670-6270 to facilitate this effort.

I may be reached at (510) 567-6783 should you have any questions.

Sincerely,



Scott O. Seery, CHMM
Hazardous Materials Specialist

Attachment

cc: Mee Ling Tung, Director, Environmental Health
Lorenzo King, Alameda County Public Works Agency

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

R0#275

June 26, 1997

ENVIRONMENTAL HEALTH SERVICES

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

STID 656

Mr. Phil Briggs
Chevron Products Company
P.O. Box 5004
San Ramon, CA 94583-0804

RE: (FORMER) CHEVRON STATION #9-2960, 2416 GROVE WAY, CASTRO
VALLEY - RISK-BASED CORRECTIVE ACTION EVALUATION

Dear Mr. Briggs:

Thank you for our receipt of the May 7, 1997 *Risk-Based Corrective Action (RBCA)* evaluation submitted by Mr. Curt Peck of Chevron Research and Technology Company (CRTC). This RBCA evaluation was submitted under Chevron cover dated May 11, 1997.

As you are aware, maximum subsurface soil and ground water concentrations of fuel aromatic compounds (i.e., BTEX) were employed in development of a conservative RBCA evaluation and the resultant site-specific target levels (SSTL). This exposure is considered the *maximum exposure scenario*. A comparison of the SSTLs was made with the 95% Upper Confidence Limit (UCL) of the geometric mean allowing a risk value for future commercial workers at the site to be estimated. Preferential vapor pathways were not evaluated for this modeling exercise.

Under the *maximum exposure scenario*, the reported total estimated health risk for exposure to benzene vapors is 1.5×10^{-4} . The reported total estimated health risk associated with 95% UCL concentrations for exposure to benzene vapors is estimated to be 4.4×10^{-5} . Therefore, the estimated health risk range for commercial worker exposure is reportedly 1.5×10^{-4} to 4.4×10^{-5} .

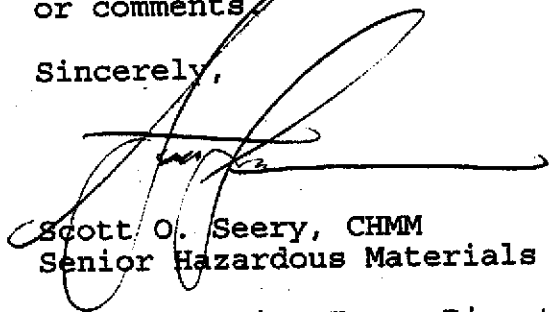
Although this estimated risk range exceeds the goal of 10^{-4} , it is important to recognize that estimated health risks are based on the assumption that the receptor (person) is located directly over the zone of contamination. We understand that the current location of the planned structure at this site will not be sited over known "hot" zones.

To ensure a conservative approach protective of human health, however, we request that a vapor barrier be placed beneath the foundation of any proposed structures planned for the site currently, or in the future, where potential receptors will be located in order to abate and/or mitigate any potential adverse health effects due to exposures to latent hydrocarbon vapors.

Mr. Briggs
RE: Chevron Station #9-2960, 2416 Grove Way, Castro Valley
June 26, 1997
Page 2 of 2

Please contact me at (510) 567-6783 should you have any questions
or comments.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Mee Ling Tung, Director
Kevin Graves, RWQCB
Paul Regan, ACDEH
Darryl Gray, Alameda County Planning Dept.
Robert Aitzen, First Presbyterian Church
2490 Grove Way, Castro Valley, CA 94546-7199
Curt Peck, Chevron Research and Technology Center
P.O. Box 4054, Richmond, CA 94804-0054
Denise Gilbert, 928 Fletcher Ln. #8, Hayward, CA 94541

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

R0#275

March 13, 1997

STID 656

Mr. Phil Briggs
Chevron Products Company
P.O. Box 5004
San Ramon, CA 94583-0804

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

RE: (FORMER) CHEVRON STATION #9-2960, 2416 GROVE WAY, CASTRO
VALLEY - REDUCTION IN SAMPLING FREQUENCY

Dear Mr. Briggs:

Thank you for our receipt of the February 21, 1997 Gettler-Ryan, Inc. (GRI) report documenting the limited assessment of former dispenser islands and piping runs at the subject former Chevron site, as submitted under Chevron cover dated February 27, 1997. We are also in receipt of the February 10, 1997 Blaine Tech Services, Inc. ("Blaine") 1st quarter 1997 sampling report, submitted under Chevron cover dated February 12, 1997.

The February 12 Chevron cover requests a reduction of sampling frequency for a number of the wells in the network, proposing a specific schedule. Following review of historical sampling data for this site, a reduction in sampling frequency appears appropriate, as does the elimination of one well entirely from future sampling requirements, as follows:

- o Wells C-1, -2, -3, -6, and -7 may be sampled **semiannually** (1st and 3rd quarters)
- o Well C-4 may be sampled annually (1st quarter)
- o Well C-5 may be eliminated

As you are aware, the county's Redwood Road widening project at the Redwood Road/Grove Way intersection will be initiated in the near future. Wells C-1 and C-2, and possibly recovery well RW/EW-1, lie within the area planned for roadway expansion. Hence, these wells will eventually need to be destroyed to accommodate the road project. Please be aware that when these wells are lost, one or more replacement wells will be needed to enable the periodic tracking of attenuation in the "hot" zone.

As we discussed yesterday, the GRI assessment report documents that 1) soil beneath the former dispenser islands has been impacted at shallow depth to varying degrees, and 2) soil within

Mr. Briggs
RE: Chevron Station #9-2960, 2416 Grove Way, Castro Valley
March 13, 1997
Page 2 of 2

the capillary zone is more significantly impacted, particularly north and east of the former tank cluster. However, no substantial hydrocarbon source area was identified during the course of this recent investigation.

Nonetheless, certain soil benzene concentrations exceed conservative risk-based screening level (RBSL) values for vapor intrusion into buildings and volatilization to outside air for commercial or industrial sites. Further, particular groundwater benzene concentrations also exceed RBSL values for vapor intrusion from ground water into buildings for commercial or industrial sites.

Although no plans have yet been submitted to my "food program" counterpart here in the Health Department (Paul Regan), I understand that immediate plans for the site are for the placement of a transportable food facility. It is unclear at this time, therefore, whether a risk-based corrective action (RBCA) evaluation is needed in order to accommodate this anticipated use. What is clear, however, is that some degree of RBCA evaluation will become necessary should permanent structures be erected at the site.

You are encouraged to contact the property owner (First Presbyterian Church) regarding plans for the site, as well as Mr. Curt Peck of Chevron Research and Technology Center (CRTC) to assist you in evaluating these risk issues.

Please contact me at (510) 567-6783 should you have any questions or comments.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Mee Ling Tung, Director
Kevin Graves, RWQCB
Paul Regan, ACDEH
Robert Aitzen, First Presbyterian Church
2490 Grove Way, Castro Valley, CA 94546-7199
Curt Peck, Chevron Research and Technology Center
P.O. Box 4054, Richmond, CA 94804-0054

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

20275

January 22, 1997

STID 656

Mr. Phil Briggs
Chevron Products Company
P.O. Box 5004
San Ramon, CA 94583-0804

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

RE: (FORMER) CHEVRON STATION #9-2960, 2416 GROVE WAY, CASTRO VALLEY

Dear Mr. Briggs:

Thank you for our recent receipt of the January 14, 1997 Gettler-Ryan, Inc. (GRI) work plan, as submitted under GRI cover dated January 15, 1997, for the assessment of former dispenser islands and product piping trenches. This work plan is accepted as submitted.

As we have not been able to absolutely verify that product lines were removed during the 1986 tank closures, this office requests that, prior to commencement of any drilling activities, an attempt to locate (still) buried product lines be made using a pipeline / utility locator. I wish to be present at the site when this preliminary task is performed.

As you are aware, the property owner has requested the site be free of development impediments (e.g., treatment compound, etc.) by the end of February. Chevron, therefore, should be poised to affect both the removal of above-ground improvements as well as completing any source removal as may be dictated by what is discovered during this pending phase of work.

Field work is tentatively scheduled for February 5, 1997. Please contact me at (510) 567-6783 should this schedule change.

Sincerely,


Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Mee Ling Tung, Director
Kevin Graves, RWQCB
Paul Regan, ACDEH
Robert Aitzen, First Presbyterian Church
2490 Grove Way, Castro Valley, CA 94546-7199
Greg Gurss, Gettler-Ryan Inc.

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

RO# 275

December 20, 1996

STID 656

Mr. Phillip Briggs
Chevron Products Company
P.O. Box 5004
San Ramon, CA 94583-0804

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

RE: (FORMER) CHEVRON STATION #9-2960, 2416 GROVE WAY, CASTRO VALLEY

Dear Mr. Briggs:

This letter is sent in follow-up to our telephone conversation December 18 during which we briefly discussed Chevron's request to remove the current remediation system compound, the property owner's plans for redevelopment of the subject site, and the need to investigate potential source areas not yet investigated. In preparation for our conversation, I reviewed the historic case file and evaluated the efficacy of the soil vapor extraction (SVE) system currently in-place at the site.

Review of the case file reveals that three (3) fuel and one (1) waste oil underground storage tanks (UST) were removed during June 1986. Soil samples initially collected from the fuel UST pit identified the presence of high concentrations of fuel hydrocarbons ($\leq 14,000$ mg/kg). The fuel UST pit appears to have been overexcavated in places up to a reported depth of 23 feet below grade. Samples collected subsequent to overexcavation appear to reflect a marked decrease in fuel concentrations in the immediate fuel UST area. Fuel aromatic compounds ("BTEX") were not sought during either the initial or subsequent sampling events.

One file entry indicates product piping was removed at the time of tank closures (although no verifiable documents confirm this). It does not appear, however, that samples were collected from either piping trenches or below dispenser islands.

The May 20, 1996 Weiss Associates (WA) *System Performance Report* indicates that 8,882 pounds of product was removed from the former UST area through water and soil vapor extraction (SVE) from wells EW-1 and C-1, respectively, since system operation began in October 1993 and June 1994, also respectively. Plots of mass removal rates illustrate the vast majority (8,816 lbs) of product removal was via SVE, with apparent asymptotic removal rates achieved by January 1995. An additional mass removal "spike" appears to have occurred during late 1995, an explanation for which is unclear.

Mr. Phillip Briggs

RE: former Chevron station #9-2960, 2416 Grove Way

December 20, 1996

Page 2 of 3

From June through November 1996, the SVE system was "pulsed" to test whether increased mass removal rates could be achieved and, hence, enhance the efficiency and operational life of the system. The results of this process appear in the December 5, 1996 WA *System Pulsing Update Report*. In this report WA indicates that vapor concentrations did increase in soil gas collected from well C-1 during periods of system quiescence. They conclude that such concentrations were nevertheless not at levels sufficient to justify continued operation of the SVE system as influent gas concentrations trail off sharply once the system is brought back on-line.

The results of the system pulsing test indicate the presence of a latent source of fuel compounds proximal to well C-1. This is further substantiated by both historic and recent trends in dissolved phase fuel hydrocarbon concentrations in water sampled from wells C-1 and C-2. Because neither dispenser island nor piping trenches have been investigated in the 10 years since the USTs were removed, these areas of the site may be acting as long-term sources.

The property owner, First Presbyterian Church, presently has plans to lease the site for a small cafe to be housed in a portable building erected at the site. Removal of the remediation system compound would greatly facilitate this endeavor.

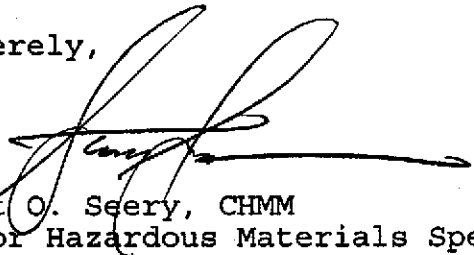
To facilitate the property owner's plans, this office will allow Chevron to remove the current SVE system and treatment compound. However, because certain ground improvements are expected in order to accommodate the planned development, it is imperative that Chevron conduct a limited investigation of the former dispenser areas and pipeline trenches prior to commencement of redevelopment activities. Should a *significant* impact be discovered, Chevron should be prepared to propose *and immediately implement* whatever corrective action necessary to remove these source areas. This office will also be *qualitatively* evaluating the potential exposure risks to future receptors at the site so that a determination may be made whether or not a risk assessment will be required.

The property owner would like to have the site free and clear of development obstacles within 45-60 days. Therefore, please submit a brief work plan discussing the planned scope of work within 30 days of the date of this letter.

Mr. Phillip Briggs
RE: former Chevron station #9-2960, 2416 Grove Way
December 20, 1996
Page 3 of 3

Please call me at (510) 567-6783 should you have any questions.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Mee Ling Tung, Director, Environmental Health
Kevin Graves, RWQCB
Jim Ferdinand, Alameda County Fire Department
Paul Regan, ACDEH
Robert Aitzen, First Presbyterian Church
2490 Grove Way, Castro Valley, CA 94546-7199

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



DAVID J. KEARS, Agency Director

R0#275

Std 656

June 12, 1996

Kenneth Kan
Chevron U.S.A. Products Company
P.O. Box 5004
San Ramon CA 94583-0804

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

Subject: Former Chevron Service Station #9-2960 located at 2416 Grove Way, Castro Valley CA

Dear Mr. Kan:

This office has reviewed Weiss Associates' System Performance Report, dated May 20, 1996, and your letter, dated March 26, 1996, regarding the subject site. Your March 26, 1996 letter contained a proposal to shut-down the remediation system based on the reported absence of liquid phase hydrocarbons over an approximate period of one year, and that the contaminant plume appears to be stable.

It appears that the remediation system at this site has exhibited asymptotic behavior with respect to both a reduction in influent vapor concentration and cumulative mass removal. However, it may be possible to improve the performance of this system if measures to increase system efficiency were evaluated and, if appropriate, implemented in order to maximize source removal efforts at this site. The System Performance Report did not discuss if any performance enhancing alternatives, such as pulsing the system, had been considered or would be appropriate in lieu of the permanent shut-down of the system.

Please submit to this office within 30 days, or by July 12, 1996, an evaluation of the system performance at this site in regard to the effect of increasing remedial system efficiency as stated above. Adequate source removal must be accomplished at this site in order to meet one of the criteria of the San Francisco Bay Regional Water Quality Control Board's definition of a "low risk" groundwater case. In addition, a risk assessment would ultimately be required for this site using the ASTM E1739-95 Standard for Risked Based Corrective Action (RBCA) to determine if there is a significant risk to human health or the environment *prior to* removing the remediation system.

Should you have questions, please contact me at (510)567-6755.

Sincerely,

Amy Leech
Hazardous Materials Specialist

- c: Bob Yule, First Presbyterian Church, 2490 Grove Way, Castro Valley 94546
Paul Nuti, Weiss Associates, 5500 Shellmound St, Emeryville, CA 94608-2411
Ed Laudani, Alameda County Fire Department
Kevin Graves, RWQCB
Gordon Coleman - File(ALL)

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RO#275

RAFAT A. SHAHID, Assistant Agency Director

Std 656

January 10, 1996

Alameda County Environmental Health Dept.
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda CA 94502-6577
(510)567-6700 fax: (510)337-9335

Kenneth Kan
Chevron U.S.A. Products Company
P.O. Box 5004
San Ramon CA 94583-0804

**Subject: Investigations at the Former Chevron Service Station #9-2960 located at
2616 Grove Way, Castro Valley, CA**

2416

Dear Mr. Kan:

This office has recently completed a review of Blaine Tech Service Inc.'s Fourth Quarter 1995 Groundwater Monitoring report for the subject site. We also attempted to review the operational status of the soil vapor and groundwater extraction remediation systems; however, no performance evaluations of these systems have been included in the quarterly or any other reports submitted to date. In order for us to evaluate the effectiveness of source removal at the site, please forward to us performance evaluations of the soil vapor and groundwater extraction systems since the systems became operational in 1993.

The performance evaluations should include:

- Floating product thickness found in C-1 and EW-1
- Method used and amount of floating product recovered
- Measured and average flow rates of the groundwater extraction system
- Calculations of contaminant mass removed to date

Analysis of the system performance along with the historical groundwater sampling data at the site will assist in determining the need to continue operating all or part of the remediation system in the future. At a minimum, source removal in an appropriate fashion will be required to continue.

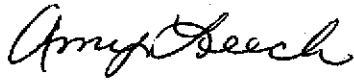
Please forward the performance evaluations to this office within the next 30 days, or by February 13, 1995. In the future, the aforementioned information should be periodically incorporated into status reports submitted to this office so that we can continue to engage in assessing the effectiveness of the corrective action plan for this site.

Also, attached is a letter from the San Francisco Regional Water Quality Control Board dated May 2, 1995 which requires reporting of Methyl Tertiary Butyl Ether (MTBE) at all sites where a gasoline release occurred after 1983. Please begin analyzing for MTBE at the subject site during the next groundwater sampling event.

Chevron/Kan
Re: 2616 Grove Way
January 10, 1996
Page 2 of 2

Please note that the review of environmental assessment/investigations for the subject site has been transferred from Scott Seery to the undersigned of this office. Should you have questions, please contact me at (510)567-6755 and submit all reports to my attention. Thank you for your attention to these matter.

Sincerely,



Amy Leech
Hazardous Materials Specialist

ATTACHMENT

c: ^{1/10/96} Ed Laudani, Alameda County Fire Department
Kevin Graves, RWQCB
Gordon Coleman - File(ALL)

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



80295

RAFAT A. SHAHID, Assistant Agency Director

May 6, 1992

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

Mr. Kenneth Kan
Chevron U.S.A. Inc.
P.O. Box 5004
San Ramon, CA 94583-0804

RE: GROUND WATER / SOIL REMEDIATION SYSTEM; FORMER CHEVRON STATION,
2416 GROVE WAY, CASTRO VALLEY

Dear Mr. Kan:

The Department has completed review of the Weiss Associates (WA) April 8, 1992 Remediation Work Plan for the referenced site, as submitted under Chevron cover dated April 13, 1992.

This WA work plan is acceptable in principle. However, as you are well aware, the initiation of soil and ground water remediation at this site has been unreasonably delayed for several years. As a result, the Department requires the submittal of a project schedule and time line depicting dates by which each project task will be initiated and completed, including those tasks associated with application and issuance of permits from other agencies, construction, and system start-up and performance evaluation, among other elements. Please be advised that we expect to see an aggressive approach to scheduling this project.

The project time line/schedule is due for submittal within 15 days of the date of this letter, or by May 22, 1992.

Please be further advised that Chevron will be required to closely adhere to this schedule once it is approved.

Please feel free to contact me at 510/271-4320 should you have any questions.

Sincerely,


Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
Edgar Howell, Chief, Hazardous Materials Division
Gil Jensen, Alameda County District Attorney's Office
Rich Hiatt, RWQCB
Howard Hatayama, DTSC
Bob Bohman, Castro Valley Fire Department
Thomas Berry, Weiss Associates

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Roots

December 5, 1991

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

Mr. Kenneth Kan
Chevron U.S.A., Inc.
2410 Camino Ramon
P.O. Box 5004
San Ramon, CA 94583-0804

RE: (FORMER) CHEVRON STATION #9-2960, 2416 GROVE WAY, CASTRO VALLEY

Dear Mr. Kan:

This Department is in receipt and has completed review of the November 26, 1991 Weiss Associates (WA) letter proposal, as amended December 5, 1991. This proposal outlines plans to perform a limited soil vapor extraction pilot test at the subject site. WA professes that this pilot test is designed to determine the effective radius of induced vacuum, soil vapor flow and concentrations of hydrocarbons in soils. The results of this test will be used in part to determine the viability of soil vapor extraction as a means of remediating impacted soils, and in development of an overall site remediation plan.

This proposal has been accepted, as amended.

Please call me at 510/271-4320 should you have any questions or comments.

Sincerely,


Scott O. Seery, CHMM
Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
Edgar Howell, Chief, Hazardous Materials Division
Gil Jensen, Alameda County District Attorney's Office
Lester Feldman, RWQCB
Howard Hatayama, DTSC
Bob Bohman, Castro Valley Fire Department
Tom Berry, Weiss Associates
files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0350 (5269 Crow Canyon)
✓ R0275 (2416 Grove Way)

February 14, 1991

Ms. Nancy Vukelich
Chevron U.S.A. Inc.
2410 Camino Ramon
P.O. Box 5004
San Ramon, CA 94583-0804

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

RE: FORMER CHEVRON STATIONS #9-2960 AND #9-5607, 2416 GROVE WAY AND
5269 CROW CANYON ROAD, CASTRO VALLEY, ALAMEDA COUNTY

Dear Ms. Vukelich:

Thank you for taking the time this morning to meet with representatives of this Department and the RWQCB to discuss the status of several "free product" cases throughout Alameda County. Of the sites discussed this morning, the two Castro Valley sites referenced above are within my district, as are all facilities within the Castro Valley area. I understand that you will continue to be the Chevron contact for station #9-2960, and Mr. Clint Rogers will be handling station #9-5607.

I have already contacted Mr. Rogers by phone this afternoon and briefly discussed the Crow Canyon Road site with him. Mr. Rogers informed me that he is currently aware of the problems associated with the present pump and treat system at the site, but that it will likely take several weeks before he is adequately up-to-date with the site and any plans for future well installations and treatment systems. I will be addressing a separate letter to him requesting a tentative schedule for the submittal of a proposal for the new wells and treatment system, as well as for the submittal of a deposit to cover county costs for oversight of the project.

From our discussions this morning I understand that your consultant is currently in the process of designing a dedicated remediation system for the Grove Way site. I further understand that you expect to receive a proposal for this system from the consultant in the next several weeks. Please forward copies of this remediation proposal to the RWQCB and this Department for review before the system's implementation.

I look forward to working with you in the future. Please feel free to contact me at 415/271-4320 with any questions or comments you may have.

Sincerely,


Scott O. Seery
Hazardous Materials Specialist

Ms. Nancy Vukelich

RE: 2416 Grove Way, 5269 Crow Canyon Road

February 14, 1991

Page 2 of 2

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
Edgar Howell, Chief, Hazardous Materials Division
Gil Jensen, Alameda County District Attorney's Office
Lester Feldman, RWQCB
Howard Hatayama, DHS
Bob Bohman, Castro Valley Fire Department
Clint Rogers, Chevron
files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0275

Certified Mailer # P 062 128 162

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

September 20, 1990

Ms. Nancy Vukelich
Chevron U.S.A., Inc.
2410 Camino Ramon
P.O. Box 5004
San Ramon, CA 94583-0804

RE: SITE ASSESSMENT WORK PLAN ADDENDUM; FORMER CHEVRON STATION
#9-2960, 2416 GROVE WAY, CASTRO VALLEY, ALAMEDA COUNTY

Dear Ms. Vukelicgh:

Thank you for your recent submittal of the August 3, 1990 Geo-Strategies, Inc. (GSI) Addendum to Work Plan, as submitted under Chevron U.S.A. cover dated August 14, 1990. This addendum, which addresses the conditions of the original GSI April 4 work plan's acceptance, as outlined by this Department in correspondence dated May 31, 1990, has been reviewed in conjunction with the San Francisco Bay Regional Water Quality Control Board (RWQCB).

The GSI comments will be addressed in the order in which they appear in the August 3 addendum.

- 1) Comment is duly noted.
- 2) The proposal to check and purge wells of free product on a monthly basis as an interim remediation measure has been considered and accepted.
- 3) Comment is duly noted.
- 4) Comment is duly noted. However, if concentrations of hydrocarbons fail to stabilize or increase in any well, monthly sampling will be required.
- 5) All downgradient wells showing nondetectable (ND) concentrations of target compounds shall be sampled monthly to continually confirm their ND status. Presently, insufficient data exists to clearly indicate the rate at which contaminants are transported through ground water underlying this site. In the absence of such definitive data, monthly sampling is needed to effectively "bracket" the plume so that when, or if, hits do occur, the RWQCB may quickly determine appropriate actions. In order to reduce analytical costs, you may choose to analyze samples collected from these wells for volatile compounds (BTXE), only, although upon their detection full analyses will be mandated.

Ms. Nancy Vukelich
RE: former Chevron Station #9-2960, 2960 Grove Way
September 20, 1990
Page 2 of 2

6) Comment duly noted.

7) Comment duly noted.

During our telephone conversation September 14, you indicated that three (3) of the four proposed wells were installed the week of August 27, 1990, and that sampling of these wells will not occur until the end of September or early October. You also confirmed that a report documenting activities associated with this site, occurring during the 3rd quarter of 1990, can be expected in November.

Further, you indicated that approval for the installation of the well proposed within the Grove Way right-of-way was not granted by Alameda County Public Works because of underground utilities in proximity to the proposed location. This Department requests that an alternative site be chosen for this crossgradient well so that the plume will be adequately defined south and southeast of the site. The sidewalk at the southeast corner of Redwood Road and Grove Way may be such a suitable site. Please keep this Department informed as to the status of this well's installation.

Should you have any questions regarding the content of this letter, please call me at 415/271-4320.

Sincerely,


Scott O. Seery
Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
Edgar Howell, Chief, Hazardous Materials Division
Gil Jensen, Alameda County District Attorney's Office
Lester Feldman, RWQCG
Steve Luquire, RWQCB
Howard Hatayama, DHS
Kevin Cassady, Chief, Alameda County Real Estate Division
Mike Hood, Alameda County Building Inspection Department
G. Robert Hale, Alameda County Public Works Agency
James Chu, Alameda County Public Works Agency
Bob Bohman, Castro Valley Fire Department
Jerri Garber, First Presbyterian Church
Christopher Palmer, GSI
files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0275

Certified Mailer #P 062 127 936

May 31, 1990

Mr. John Randall
Chevron U.S.A., Inc.
2410 Camino Ramon
P.O. Box 5004
San Ramon, CA 94583-0804

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

RE: SITE ASSESSMENT WORKPLAN PROPOSAL; FORMER CHEVRON STATION
#9-2960, 2416 GROVE WAY, CASTRO VALLEY, ALAMEDA COUNTY

Dear Mr. Randall:

We are in receipt and have completed review of the April 4, 1990 GeoStrategies, Inc. (GSI) proposed workplan for the referenced site (GSI report no. 7170-2), as submitted under Chevron U.S.A., Inc. cover dated April 11, 1990. Said workplan proposes additional investigative work to be implemented to assess the extent of fuel hydrocarbon-contaminated soil and groundwater off-site, and to determine the effectiveness of well C-1 as a recovery well for future remediation efforts.

This workplan has been accepted for this phase of site assessment with the following conditions:

- 1) During the advancement of all borings, discrete soil samples must be collected at intervals of every 5-feet, significant changes in lithology, or any areas of obvious contamination, consistent with procedures described on page 2 of Appendix B of the April 4, 1990 GSI workplan proposal. These samples are in addition to, or in conjunction with, those collected for lithologic logging, as outlined under TASK 1, page 3 of the noted workplan. Such samples should be field "screened" for evidence of contamination (e.g., odors, staining, "hits" on field organic vapor monitor (OVM), etc.). Those samples showing field evidence of contamination are to be analyzed for the target compounds (TPH/ BTEX). Succeeding samples are to be analyzed if any sample above in any one boring is determined to be contaminated with detectable concentrations of the target compounds;
- 2) Until such time as a dedicated recovery/ treatment system is installed and "on-line", checking for the presence and purging all wells of free product, not just well C-1, must occur every other day. The requisite frequency of this activity may be reduced for any one well to weekly purging as the presence of separate phase hydrocarbons is eliminated completely, or diminished to a "sheen", as evidenced by observations made during three (3) consecutive site visits. This activity may again be reduced to a schedule of monthly purging as conditions dictate, following the aforementioned protocol;

Mr. John Randall

RE: former Chevron Station #9-2960, 2416 Grove Way

May 31, 1990

Page 2 of 3

- 3) Water levels of each well must be measured and recorded monthly for the next year, and then quarterly thereafter, allowing sufficient seasonal groundwater information to be gathered and analyzed for use as a partial basis for future determinations and/ or recommendations;
- 4) All monitoring wells, both existing and proposed, on-site or off, are to be sampled monthly for the first quarter (3 mos.). This monthly sampling frequency may be reduced after the first three months to quarterly sampling, provided the concentrations of target compounds level out or taper off. If, during the first quarter, concentrations continue to rise or fluctuate between sampling events, monthly sampling will be required until such levels do stabilize or taper off;
- 5) All wells at the "leading edge" of the contaminant plume, those showing nondetectable (ND) concentrations of contaminants following initial sample analyses, are to be sampled monthly to continually confirm their ND status;
- 6) Summary reports are to be generated and submitted to this Department and the RWQCB quarterly for the duration of this project through final "sign off" by the RWQCB;
- 7) Consistent communication and coordination with the Alameda County Public Works Agency and their Redwood Road/ Grove Way improvement projects will likely be beneficial to all parties, both in maximizing project results and minimizing costs and delays. Please contact Mr. G. Robert Hale (415/670-5546) for questions regarding the county road projects, and Mr. James Chu (415/670-5480) for encroachment permit information.

Please schedule all field activities (e.g., boring, sampling, free product pumping, water level measurements, etc.) to begin within 30-days of the date of this letter, or no later than June 30, 1990. We will expect the submittal of a report documenting the results of this phase of the investigation within 30-days of the completion of field activities. Please be advised that the requested time frame for commencement of field activities associated with this project, as outlined in this letter, shall supersede those of the March 5, 1990 correspondence from this Department.

Mr. John Randall
RE: former Chevron Station #9-2960, 2416 Grove Way
May 31, 1990
Page 3 of 3

Please call me at 415/271-4320 should you have any immediate questions. For your information, I will be out of the office beginning June 6, and continuing through June 26, 1990. Please contact Mr. Steve Luquire at the RWQCB (415/464-1255) should you have any questions regarding this project during the period of my absence.

Sincerely,



Scott O. Seery
Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Department of
Environmental Health
Edgar Howell, Chief, Hazardous Materials Division
Gil Jensen, Alameda County District Attorney's Office
Mark Thompson, Alameda County District Attorney's Office
Lester Feldman, RWQCB
Steve Luquire, RWQCB
Howard Hatayama, DHS
Kevin Cassady, Chief, Real Estate Division, Alameda County
Public Works Agency
Mike Hood, Alameda County Building Inspection Department
G. Robert Hale, Alameda County Public Works Agency
James Chu, Alameda County Public Works Agency
Bob Bohman, Castro Valley Fire Department
Jerri Garber, First Presbyterian Church
Cristopher M. Palmer, GSI
files



March 5, 1990

Mr. John Randall
Chevron U.S.A.
2419 Camino Ramon
P.O. Box 5004
San Ramon, CA 94583-0804

RE: REQUEST FOR SITE ASSESSMENT AND REMEDIATION PROPOSAL; FORMER
CHEVRON STATION #9-2960, 2416 GROVE WAY, CASTRO VALLEY

Dear Mr. Randall:

Our office has completed review of the January 5, 1990 GeoStrategies, Inc. (GSI) groundwater sampling report, submitted under Chevron U.S.A. cover dated January 30, 1990, which documents groundwater sampling activities conducted by Gettler-Ryan, Inc. on October 16, 1989. This report identifies the presence of nearly a foot of floating product (0.91 foot) in well C-1. Wells C-2, C-3, and C-4 continue to show elevated concentrations of dissolved fuel hydrocarbons, including benzene at 260, 610, and 12 ppb, respectively. Concentrations of total petroleum hydrocarbons as gasoline (TPH-G) in well C-2 was 600 ppb, and in C-3, 900 ppb.

A review of the site's history indicates that three (3) fuel and one (1) waste oil underground fuel tanks were removed from the site on June 19, 1986. Initial samples collected by Blaine Tech Services from native soil beneath the fuel tanks showed concentrations of TPH-G as high as 1.4% (14,000 ppm). No analyses for benzene, toluene, ethylbenzene or xylenes (BTEX) were performed at this time. Reexcavation of the the tank pit terminated at approximately 23 feet below grade (BG).

Emcon Associates installed four (4) groundwater monitoring wells on October 1, 1986. Later that month, Gettler-Ryan, Inc. field checked these wells for water level and floating product; no floating product was discovered at that time but a strong product odor was detected in well C-1, installed within the backfilled former fuel tank pit. All water samples collected October 23 showed evidence of dissolved hydrocarbons, with well C-1 having BTEX and TPH-G concentrations of 6.4, 3.7, 4.3, and 37 ppm respectively.

Mr. John Randall
RE: 2416 Grove Way, Castro Valley
March 5, 1990
Page 2 of 4

An EA Engineering, Science and Technology, Inc. report entitled, "Report of Investigation and Risk Assessment", detailed the results of the analyses of water samples collected from all four wells on September 10, 1987. Concentrations of dissolved hydrocarbons during this round of sampling were shown to be as high as 25, 60, 79, 13, and 120 ppm for BTEX and TPH-G, respectively, in water sampled from "MW-1" (C-1), an increase of approximately three orders-of-magnitude over those of the previous round.

A Gettler-Ryan, Inc. summary dated September 27, 1988 reports monthly monitoring data from March 6, 1987 through August 26, 1988. Floating product was detected in well C-1 during nine of the sixteen monitoring episodes occurring during this period of time, including the latest reported sampling episode, August 26, 1988, during which 0.85 foot of product was noted. Floating product was found in each of the remaining three (3) wells at some point during this stretch of monthly sampling.

As you indicated in your January 30, 1990 cover to the referenced January 5, 1990 GSI report, the need for further site assessment is apparent. More specifically, the need for off-site assessment and groundwater remediation has long been evident. High concentrations of dissolved and floating phase product have been identified in the on-site wells for approximately 3.5 years.

Future remediation and assessment work must proceed in a focused and timely fashion. A dedicated groundwater extraction and treatment system must be designed and installed as a priority. This point is particularly important in light of the Alameda County Public Works Agency road widening project along Redwood Road. This project will involve a 30-40 foot encroachment onto the subject property from its western perimeter, resulting in the destruction of wells C-1, C-2, and C-3. Tentatively, the project is slated to begin in 1991.

The off-site phase of the investigation will require further coordination with Public Works to obtain necessary encroachment permits for any intrusive work (i.e., borings, wells) within the public right-of-way. Such coordination is increasingly important for the proper scheduling of the environmental work with those consequent to the road project.

Mr. John Randall
RE: 2416 Grove Way, Castro Valley
March 5, 1990
Page 3 of 4

In order to proceed with this phase of the site investigation, you should submit for review a proposal outlining planned activities pertinent to meeting the criteria outlined in this letter. This proposal is due within 30 days of the date of this letter, or by **April 2, 1990**. Once this proposal has been reviewed and approved, work should commence no later than May 2, 1990.

A report must be submitted within 30 days after initiation of this phase of work at this site. Subsequent reports must be submitted quarterly. Such quarterly reports are due the first day of the second month of each subsequent quarter (i.e., August 1, November 1, February 1, and May 1). The reports should describe the status of the remediation/investigation and must include, among others, the following:

- * Details and results of all work performed during the designated period of time (i.e., records of field observations and data, boring and well construction logs, water level data, chain-of-custody forms, laboratory results for all samples collected, tabulations of free product thicknesses and dissolved fractions, etc.)
- * Results of aquifer pump or drawdown tests including maps showing zone(s) of capture
- * Status of groundwater contamination characterization
- * Interpretation of results (i.e., water level contour maps showing gradients, free and dissolved product plume definition maps for each component, etc.)
- * Any recommendations or plans for additional investigative work or remediation

All proposals and reports must be signed by a California-Certified Engineering Geologist, -Registered Geologist, or -Registered Civil Engineer. Please include a statement of qualifications for each lead professional involved in the project. Further, copies of all reports and proposals must also be sent to the RWQCB (Attn: Lester Feldman).

Please be aware that this is a formal request for technical reports pursuant to California Water Code Section 13267 (b). Failure to respond or a late response could result in referral of this case to the RWQCB for enforcement, possibly subjecting the responsible party to civil liabilities to a maximum of \$1,000 per day.

Mr. John Randall
RE: 2416 Grove Way, Castro Valley
March 5, 1990
Page 4 of 4

To cover our costs for the oversight of this project and review of technical reports and proposals, please remit a check, payable to Alameda County, for \$933. Should you have any questions, please call me at 415/ 271-4320.

Sincerely,



Scott O. Seery
Hazardous Materials Specialist

SOS:sos

cc: Rafat A. Shahid, Assistant Agency Director, Alameda County
Department of Environmental Health
Gil Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Division
Mark Thompson, Alameda County District Attorney, Consumer and
Environmental Protection Division
Lester Feldman, RWQCB
Howard Hatayama, DHS
Kevin Cassady, Chief, Real Estate Division, Alameda County
Public Works Agency
Mike Hood, Alameda County Building Inspection Department
G. Robert Hale, Alameda County Public Works Agency
Bob Bohman, Castro Valley Fire Department
Jerry Mitchell, GSI
Jerri Garber, First Presbyterian Church
files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0275

December 13, 1989

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415) 271-4320

④

Ms. Lois Yee
Environmental Science Associates, Inc.
760 Harrison Street
San Francisco, CA 94107-1235

RE: Environmental Assessment for Alameda County Public Works
Project: Redwood Road/A Street Improvements

Dear Ms. Yee:

We are in receipt of your letter dated December 5, 1989 requesting information from our files regarding underground storage tanks, leaks and hazardous materials associated with facilities along the route of the planned roadway expansion. A summary of this information is provided below, in the order in which these sites were listed in the referenced December 5 correspondence:

(R0285) 1. Xtra Oil Company dba Shell Oil Company,
3495 Castro Valley Blvd.

<u>Underground Tanks:</u>	currently four (4); one 1,000 gallon waste oil tank was removed in 1988
<u>Year Installed:</u>	1967
<u>Material/type:</u>	steel, single-wall
<u>Capacities/Contents:</u>	10,000 gallon each; gasoline (3), diesel (1)
<u>Last tested:</u>	August 30, 1989, all remaining tanks tested "tight"
<u>Leaks:</u>	Waste oil tank removed sometime during 3rd or 4th quarter of 1988 (not under proper permit). Sampling did not occur following closure. Aqua Science Engineers, Inc., reexcavated the waste oil pit and collected one (1) soil sample for laboratory analysis on May 5, 1989. This sample was analyzed for TPH-D, TOG, and volatile organics.

Ms. Lois Yee
Environmental Science Associates, Inc.
760 Harrison Street
San Francisco, CA 94107-1235
December 13, 1989
Page 2 of 10

Results indicate 980 and 426 ppm of TPH-D and TOG, respectively. Further, toluene, ethylbenzene and xylenes were detected at 12, 18 and 266 ppb, respectively. No benzene was found in the analyzed soil sample.

A groundwater investigation is pending.

(R0346) 2. BP Station #11105 (formerly Mobil Oil Co.)
3519 Castro Valley Blvd.

Underground Tanks: currently four (4); 380 waste oil tank removed in September, 1988

Year Installed: 1984 (1986?); new waste oil tank installed 4th quarter of 1988

Materials/type: fiberglass, single-wall; fiberglass, double-wall (waste oil)

Capacities/Contents: 1,000 gallons, (waste oil); 6,000, 8,000, 10,000 gallons (gasoline)

Last tested: Sept. 22, 1988 (fuel); Oct. 5, 1988 (waste oil)

Leaks: Nine (9) holes were noted in steel 380 gallon waste oil tank removed on September 20, 1988. A Kaprealian Engineering, Inc. report dated October 17, 1988 indicates samples collected from beneath the tank and

Ms. Lois Yee
 Environmental Science Associates, Inc.
 760 Harrison Street
 San Francisco, CA 94107-1235
 December 13, 1989
 Page 3 of 10

from stockpiled soils were analyzed for TPH-D, TOG, BTEX and chlorinated hydrocarbons. Samples from beneath the tank indicate nondetectable levels of TOG and TPH-D. Benzene and toluene were detected at 6.8 and 9.5 ppb, respectively. One composite sample from stockpiled material previously excavated from the tank pit had 100 ppm TOG.

No further work has been required nor performed at this site.

3. Possible ex-Shell Oil Company Station
 22222 Redwood Road

- no file on record

- (R0275) 4. Former Chevron Station #902960
 2416 Grove Way

Underground tanks: none currently; three (3) fuel and one (1) waste oil tanks removed
 June 19, 1986

Year installed: unk

Material/type: unk

Capacities/Content: 550 gallon (waste oil); 2,000 and 7,500 gallon (gasoline)

Last tested: unk

Leaks: Tanks removed and soil samples

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collected June 19, 1986. Samples collected by Blaine Tech Services, Inc. from fuel tank pit as high as 14,000 ppm (1.4%) TPH-G, as reported July 10, 1986. No analysis for BTEX performed at this time. TOG analysis of soil samples collected from beneath waste oil tank N.D.; no volatile or chlorinated hydrocarbons, nor TPH-G or -D analysis performed. Subsequent reports by Blaine Tech Services dated August 5 (2) and Sept. 9 and 11, 1986 document composite sample analysis before, during and after on-site aeration of stockpiled soils previously excavated from tank pits. A report dated August 21, 1986 documents analysis of sidewall sampling following limited reexcavation laterally to the west in the NW corner of the fuel tank pit on August 8, 1986. Latent contamination is reported to be as high as 170 ppm TPH-G where sampled. Excavation vertically appears to have terminated at approximately 23 feet below grade (BG).

A report by Emcon Associates, dated Nov. 4, 1986 documents the installation October 1, 1986 of four (4) on-site groundwater monitoring wells to a total depth of 30.5 feet. Groundwater was first encountered at approximately 17 feet BG. Strong product odor was detected in drilling spoils from two (2) borings (C-1 and C-3) in the interval between 9 to 20.5 feet BG.

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On October 9, 1986 Gettler-Ryan, Inc. field checked for water level and presence of floating product; no floating product was detected in any wells but strong product odor was evident in well C-1 installed within the former fuel tank pit. Water samples were collected for laboratory analysis on October 23, 1989 and analyzed for TPH-G and BTX. All wells showed evidence of dissolved hydrocarbons, with well C-1 having benzene, toluene, xylenes and TPH-G concentrations of 6.4, 3.7, 4.3 and 37 ppm, respectively.

EA Engineering, Science and Technology, Inc. submitted to Chevron, under cover dated November 11, 1987, a "Report of Investigation and Risk Assessment". EA's work was performed to direct next appropriate actions at the site. On September 10, 1987, EA sampled the four (4) existing monitoring wells. Laboratory analyses report levels of dissolved benzene, toluene, xylenes, ethylbenzene, and TPH-G as high as 25, 60, 79, 13, and 120 ppm, respectively, in water sampled from "MW-1" (C-1), an increase in dissolved hydrocarbon concentrations of approximately one order-of-magnitude. Wells "MW-2" (C-2) through "MW-4" (C-4) showed slight-to-moderate increases or decreases in concentrations of BTX and TPH-G. Ethylbenzene concentrations are not compa-

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rable to previous analyses because the presence of this analyte was not discussed in past reports. No depth to groundwater data was reported. EA concludes that the existing contamination poses no risk to human health or the environment and recommends no further action except continued annual sampling and analyses of water from the on-site monitoring wells.

A Gettler-Ryan summary dated September 27, 1988 reports monthly monitoring data between March 6, 1987 through August 26, 1988. Floating product was detected during nine of the sixteen monitoring episodes occurring during this period of time in well C-1, including the last episode, August 26, 1988, during which 0.85 feet of product was noted. Floating product was found in each of the remaining three (3) wells at some point during this stretch of monthly sampling. No further sampling has been reported nor performed since August, 1988.

During site regrading (date?) by new property owners, the wells were inadvertently covered, as reported October 9, 1989 by Chevron. Gettler-Ryan was recently successful in locating and uncovering the wells. It is reported by Chevron that quarterly sampling of these wells and reporting by Gettler-Ryan will now resume.

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(R0355) 5. Former Beacon Station #0574
22315 Redwood Road

Underground Tanks: none currently; four (4) fuel and one (1) waste oil tanks removed May 5, 1987

Year installed: 1966 (?)

Material/type: steel, single-walled

Capacities/Contents: 500 gallons (waste oil); 5,000 (2) gallons (diesel); 7,500 and 8,000 gallons (gasoline)

Last tested: July 14, 1986; all tanks tested "tight" following minor repair to vapor recovery system of premium unleaded tanks

Leaks: Relatively high levels of hydrocarbons detection in soils following tank closures on May 5, 1987. An Applied GeoSystems report dated June 25, 1987 documents initial soil sample analysis results which identify initial TPH-G and TPH-D concentrations as high as 3264 and 2898 ppm, respectively. Benzene, toluene, xylenes and ethylbenzene was found to be as high as 89, 90, 248 and 559 ppm, respectively. Fairly low levels of TPH-G, TPH-D and BTEX were detected in the waste oil excavation. Applied GeoSystems returned to the site on May 18, 1987

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to oversee over excavation of the fuel tank pit. A geologist from this firm observed that contamination was not confined to the tank pit, but had migrated laterally towards the north and eastern ends of the excavation. Vertical excavation ceased at approximately 20 feet BG. Latent contamination remaining in certain areas of the pit were reported as high as 1989 and 1192 ppm as TPH-G and TPH-D, respectively. Recommendations made to Beacon at this time were to proceed with a groundwater investigation.

No further work has been done at this site. No monitoring wells are known to currently exist on or off-site.

A request was recently issued from this department for the submittal of a site assessment proposal to address contamination underlying this site. Submittal is pending.

6. Don Williams and Son Auto Repair
Corner of 6th and Knox Streets

- no file on record -

7. Keith's Transmission
22312 Redwood Road

Underground Tanks: one (1)

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Year installed: 1981
Material/Type: steel, single-walled
Capacities/Contents: 1,000 gallon, waste oil
Last tested: pending; first test scheduled for
 week for December 17, 1989
Leaks: unk
Other materials handled: transmission oil (new and used),
 petroleum based solvents, parts
 washer liquid and sludge.

8a. Manor Cleaners
 20857 Redwood Road

Underground tanks: NA
Leaks/discharges: unk
Materials handled: perchloroethylene; (presumed)
 detergents, bleach, spotting liquids,
 other solvents, waste still oil and
 filters

8b. Mirande One-Hour Cleaners
 21120 Redwood Road

Underground Tanks: NA
Leaks/Discharges: unk

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Materials handled: perchloroethylene, waste still oil and
filters; (presumed) detergents,
bleach, spotting liquids, other
solvents

This summary is limited to information available to this office and does not include any information available to other agencies or businesses which may be involved with these properties.

Please also find enclosed a copy of the invoice sent to our Billing Unit.

Should you have any further questions, please contact the undersigned at (415) 271-4320.

Sincerely,



Scott Seery
Hazardous Materials Specialist

SOS:mnc

Enclosure (1)

cc: Robert Hale, Alameda County Public Works
Rafat A. Shahid, Assistant Agency Director, Environmental Health
Files