

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



7

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

July 6, 2005

Mr. Mark Inglis
Chevron Env. Mgmt. Company
6001 Bollinger Cyn. Rd., Room K2256
San Ramon, CA 94583-2324

Dear Mr. Inglis:

Subject: Fuel Leak Case ~~RC0000427~~, Chevron Service Station #9-0076, 4265
Foothill
Blvd., Oakland, CA 94601

Alameda County Environmental Health staff has received and reviewed the August 26, 2004 *Soil Vapor Assessment Workplan* prepared by Cambria for the subject site. It is approved with the following technical comments. Please submit your technical report 60 days after completion of your investigation.

TECHNICAL COMMENTS

1. We concur with the installation of 3 soil vapor probes with 3 discrete sampling points at each location. Please include the analysis of the ether oxygenates, ethanol and the lead scavengers in the vapor chemical analysis.
2. Please insure that any samples collected for physical parameters are taken in a non-impacted area.

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

Sincerely,

A handwritten signature in cursive script that reads "Barney M. Chan".

Barney M. Chan
Hazardous Materials Specialist

C: files, D. Drogos
Mr. Robert Foss, Cambria Environmental, 5900 Hollis St., Suite A, Emeryville,
CA 94608

C A M B R I A

February 25, 2005

Mr. Barney Chan
ACHSA
1131 Harbor Bay Pkwy.
Oakland, CA 94502-6577

RE: 4265 Foothill Blvd, Oakland
ACHSCA RO# 0000427

Dear Mr. Chan:



This letter is to inform you of a change in management for the above-referenced site.

Effective immediately, the new ChevronTexaco project manager will be:

Mr. Mark Inglis
ChevronTexaco
6001 Bollinger Canyon Rd., K-2256
San Ramon, CA 94583
Phone: 925-842-1589

Please contact either Mr. Mark Inglis or Cambria if you have any questions.

Regards,

Cambria Environmental Technology, Inc.

cc: Mark Inglis, Chevron Texaco

**Cambria
Environmental
Technology, Inc.**

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Site #: 90076
Fax (510) 420-9170

Chan, Barney, Env. Health

From: Chan, Barney, Env. Health
Sent: Monday, August 26, 2002 2:02 PM
To: Karen Streich (E-mail)
Subject: Chevron Station 9-0076m 4265 Foothill Blvd., Oakland 94601

Dear Ms. Sreich:

I wanted to get the latest information on the referenced site. I believe, correct me if I am wrong, that Chevron was working on a Corrective Action Plan for this site. The former remediation system was turned off when low amounts of contaminants were observed, however, the past year we have observed increased TPHg, BTEX and MTBE concentrations particularly in well C-2. Chevron later installed ORC socks in wells C-1, C-2, C-4 and C-6. Analytical results from these wells did not show marked decline, therefore, a CAP is necessary. Please notify our office when your CAP will be provided.

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

Sincerely,
Barney M. Chan
Hazardous Materials Specialist
ACEH LOP

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

August 15, 2000
StID # 103

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

**Re: Site Conceptual Model and Risk-Based Corrective Action Plan for Chevron Station
9-0076, 4265 Foothill Blvd., Oakland CA 94601**

Dear Mr. Bauhs:

Our office has received and reviewed the July 28, 2000 Site Conceptual Model and Risk-Based Corrective Action Plan for the above site prepared by Delta Environmental Consultants (Delta). I have also spoke with Mr. Benjamin Heningburg, Project Geologist for Delta. As you are aware, this site formerly operated a groundwater extraction system from 1991-1993 from well C-2. This remediation had limited success in reducing the TPHg, BTEX and MTBE concentrations in this well. A sheen has recently been observed on this well, even with the addition of ORC socks to this well since 1998. The petroleum plume has migrated off-site, perhaps beneath the adjacent residential homes, across Bond St. and High St. and beneath the Albertson's Market parking lot.

Our office has discussed and raised the following issues and questions regarding the referenced report:

- Surface soil samples were not evaluated in the risk assessment. What soil samples were evaluated to arrive at this conclusion? Are there any surface soil sample results?
- How were the representative soil samples listed on the table **Onsite Risk-Based Level and Site Specific Target Level Summary** determined (1.2 mg/kg for benzene et al)?
- Given the current and expected future use of this site, why wasn't a commercial exposure pathway examined for on-site workers?
- The previously proposed utility survey should be performed. Please include this in your work plan.
- The residual soil area shown in Figure 5 may be significantly larger than what is shown.

The following comments are made regarding the recommendations in this report:

- A forthcoming work plan should be submitted to address the three recommendations. A figure should be sent showing the locations of the proposed soil vapor survey. The exact methodology of this sampling should be described as well as proposed soil vapor clean-up levels for the analytes sought.
- The method for over-purging the wells should be discussed. Will this include dual phase extraction of vapor and liquids? If so, how can you estimate the radius of influence of the extraction? Will you consider installing temporary borings to monitor the influence of the extraction?

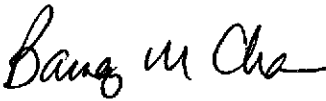
Mr. Tom Bauhs
4265 Foothill Blvd., Oakland CA
Chevron Station #9-0076
August 15, 2000
Page 2.

- Your work plan should describe the method of adding ORC to the wells. Keep in mind, the past addition of ORC has not been successful. How will the treated wells be monitored to insure an unbiased sample?

It should be understood that should this remediation be shown to be ineffective, you will be requested to propose a more aggressive approach. **Please submit your work plan for the proposed remediation to our office within 30 days or no later than September 18, 2000.**

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. B. Henningburg, Delta Environmental Consultants, 3164 Gold Camp Drive, Suite 200
Rancho Cordova, CA 95670

Ms. Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, CA 91501-7869

Mr. Dave DeWitt, Tosco Marketing Co., 2000 Crow Canyon Place, Suite 400, San
Ramon, CA 94583

Ms. E. Myran, Albertson's Inc. P.O. Box 20, Boise, ID 83726

SCMRBCA4265Pthl

#103

ENVIRONMENTAL
PROTECTION

00 JUN 16 AM 9:00

3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670-6021
U.S.A.
916/638-2085
FAX: 916/638-8385



June 9, 2000

Mr. Barney Chan
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: Former Chevron Station #9-0076, 4265 Foothill Boulevard, Oakland, CA.

Mr. Chan:

At the request of Chevron Products Company, Delta Environmental Consultants, Inc. (Delta) and Gettler-Ryan Inc. (GR) have prepared this response to your letter of May 8, 2000. You requested a written response to the observations noted in your letter, including a determination if residential properties near well C-4 are at risk from volatilization to indoor air, and an evaluation for the need to replace Oxygen Releasing Compound (ORC) in wells C-2 and C-4.

Delta and GR will review Chevron's file for this site and prepare a Site Conceptual Model. The Risk-Based Corrective Action (RBCA) Evaluation prepared for this site in May 1999 will be re-evaluated to include the recent monitoring and sampling data. The need to add additional ORC, ORC injection or other types of bioremediation will be evaluated. The revised RBCA and ORC evaluation will be included in the SCM, which will be submitted to you by July 24, 2000.

As you have requested, future quarterly monitoring and sampling reports for this site will be accompanied by a letter that provides an evaluation of the data, and will include conclusions and recommendations.

Please call GR at 916.631.1300 if you have questions or comments.

Sincerely,
Gettler-Ryan Inc.

Stephen J. Carter, P.G.
Senior Geologist

Greg A. Gurs
Sr. Project Manager

- cc: Mr. Tom Bauhs, Chevron Products Company, PO Box 6004, San Ramon, CA 94583
- Mr. Jim Brownell, Delta Environmental Consultants, Inc., 3164 Gold Camp Drive, Suite 200,
Rancho Cordova, CA 95670
- Ms. Karen Petryna, Equiva Services LLC, PO Box 7869, Burbank, CA 91501-7869
- Mr. Dave DeWitt, Tosco Marketing Company, 2000 Crow Canyon Place, Suite 400, CA 94583
- Ms. Erica Myran, Albertons's Inc., PO Box 20, Boise, ID 83726

Oakland, ch #9-0076, letter 1

DG90076B.3C01



ENVIRONMENTAL
PROTECTION

00 JUN -8 PM 4: 01

June 6, 2000

Mr. Barney Chan
Alameda County
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: First Quarter 2000 Groundwater Monitoring Report
Chevron Service Station Number 9-0076 (former Lucky #110-64)
4265 Foothill Blvd.
Oakland, CA #103

Dear Mr. Chan:

I have received the First Quarter 2000 Groundwater Monitoring Report for the above referenced site as well as your May 8, 2000 letter to Brett Hunter of Chevron. In reviewing the First Quarter report, Albertsons is also concerned with the increased concentrations in well C-7 located north of our store #7064 (former Lucky #110-64).

Albertsons appreciates continued receipt of project correspondence. In case you weren't aware, Albertsons and American Stores Company merged last June. Barbara Russell and I, along with others in the former ASPI Environmental Department have relocated from Salt Lake City to Boise, therefore future correspondence should be sent to our new address. Please forward correspondence to my attention, as I will provide ongoing oversight on this project. If you have any questions, please contact me at (208) 395-4793.

Sincerely,

Ms. Erica Myran
Environmental Project Coordinator

c: Mr. ~~Brett Hunter~~, Chevron
Mr. Scott Boor, Blaine Tech Services
Ms. Barbara Russell, Albertsons

BR/elm F:/erica/11064chevron.doc

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

May 8, 2000
StID # 103

Mr. Brett Hunter
Chevron USA Products
6001 Bollinger Canyon Rd., Bld L
P.O. Box 6004
San Ramon, CA 94583-0804

Re: Former Chevron Service Station 9-0076, 4265 Foothill Blvd., Oakland CA 94601.

Dear Mr. Hunter:

I have received and reviewed the April 28, 2000 1st Quarter 2000 Monitoring report for the above site as prepared by Blaine Tech Services. This report documents the March 9, 2000 sampling event. It appears that conditions at this site have changed from that when our office concurred with groundwater monitoring only as the recommended remedial approach. Significant changes have occurred in groundwater elevation, contaminant concentrations and bio-indicator measurements. This situation may have been recognized had your consultant provided a recommendation and conclusion section within their quarterly reports. Our office has on several occasions requested this information from you to no avail.

The following observations are of particular concern:

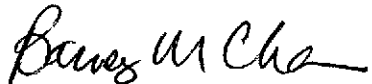
- From 12/99 to 3/00, groundwater elevation has increased significantly in wells, no well exhibiting a greater change than C-1, which increased nearly 8'. The resulting increase in TPHg, BTEX and MTBE is indicative of shallow soil contamination.
- There has been an increase in benzene concentration in well C-4, the well closest to the nearby residences. Please determine if this presents a risk to these residents under the exposure pathway, volatilization to indoor air.
- The concentration of TPHg and BTEX in C-7 increased significantly, indicating that natural attenuation may not be occurring as anticipated.
- The concentration of dissolved oxygen in wells C-2 and C-4, the well with ORC socks, is not any higher than the non-ORC wells, indicating that these socks are spent. Please evaluate the need to add additional ORC socks, ORC injection or other type of enhanced bio-remediation chemical. You are aware that Equiva Services is considering some type of chemical oxidant addition to address their own TPH release, a potential off-site source to this Chevron site.

Please respond to this letter in writing within 30 days or no later than June 9, 2000.

Mr. Brett Hunter
4265 Foothill Blvd., Oakland 94601
May 8, 2000
StID # 103
Page 2.

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

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

C: B. Chan, files

Ms. K. Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, CA 91501-7869

Mr. D. Dewitt, Tosco Oil Co., 2000 Crow Canyon Place, Suite 400, San Ramon, CA 94583

Ms. Barbara Russell, American Stores Properties, Inc., 299 South Main St., Salt Lake City,
UT 84111-2203

stat4265Foothill

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

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

August 5, 1999
StID # 103

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

Re: Chevron Station #9-0076, 4265 Foothill Blvd., Oakland CA 94601

Dear Mr. Briggs:

I have reviewed the recent monitoring results for the above site and your accompanying letter dated May 20, 1999. I have also received and reviewed Chevron's CRTC group interpretation of the bio-parameter charts. Although the anticipated trends may exist which are indicative of intrinsic bio-remediation, the concentrations of gasoline, BTEX and MTBE in groundwater have not stabilized or decreased. As you are aware, the levels of dissolved benzene on-site failed your Tier 2 RBCA, therefore, oxygen-releasing compound socks were added into a number of wells.

At this time, our office would like Chevron to consider enhancing the existing conditions for intrinsic bio-remediation. As a start, please determine whether the amount of oxygen being released from the ORC socks is sufficient to treat the estimated petroleum mass. If not, you might consider either adding additional ORC or removing mass.

Our office acknowledges the possibility that off-site sources may exist. Please investigate whether this potential exists by determining if preferential migration of contamination through existing conduits. At this time, the up-gradient service stations are or will be asked to address their own release aggressively.

Please respond to this letter **within 30 days or by September 7, 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

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

Mr. D. Dewitt, Tosco Oil Co., 2000 Crow Canyon Place, Suite 400, San Ramon, CA 94583

Remed4265

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



5070 103
BC

February 2, 1999
StID # 103

Mr. Phil Briggs
Chevron Products Co.
6001 Bollinger Canyon Rd.
Building L, Room 1110
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
(510) 567-6700
FAX (510) 337-9335

Re: Chevron Service Station #9-0076, 4265 Foothill Blvd., Oakland CA 94601

Dear Mr. Briggs:

This letter serves to comment on the recent evaluation of the bio-parameters and request further clarification on the previously submitted risk assessment for the above site. As you are aware, Chevron states that current risk to human health does not exist as concluded in the December 1997 RBCA from your risk assessment group. In addition, the recent interpretations of bio-parameters concludes that intrinsic bio-remediation is occurring. Although this very well may be the case, our office has additional requests and comments, prior to our agreement to these conclusions.

In reference to the RBCA, County risk assessor, Ms. Madhulla Logan, has reviewed the report and I later spoke with Mr. Curt Peck of Chevron regarding her concerns. It appears that these items may not yet have been addressed in the form of a revised RBCA. I would like to recount Ms. Logans concerns:

- Please insure that the California slope factor for benzene is used in your calculations.
- It appears that you used the average benzene concentration from all wells (C-1 through C-9) and then compared it to the cleanup levels for a residential scenario. Only the concentrations from C-2, C-3, C-4 and C-5 should be averaged, since these are the wells close to residences. This applies to the exposure pathway, on-site residential exposure.
- The off-site wells should be averaged and compared separately for the off-site residential exposure pathway.
- Note if the RBSL is exceeded for on-site exposure pathways, a deed restriction or further site investigation will be required.
- In regards to the evaluation of soil data, in screen 7.3, it appears that two spoils samples, SP1A-D and SP2-A-D were included in the evaluation. Please recalculate the soil concentration without this data.
- Please insure that the average concentration is used in the GSI evaluation, not the geometric mean.

In regards to the charts of bio-parameter indicator versus BTEX concentrations, it appears that you have not graphed the two parameters indicative of aerobic bio-degradation, dissolved oxygen and oxidation-reduction potential. Please include these graphs in the future. In addition, it should be noted that the alkalinity by itself is not a definitive indicator parameter as it can be

Mr. Phil Briggs
StID # 103
4265 Foothill Blvd., #9-0076
February 2, 1999
Page 2.

the result of subsurface soil dissolution. A more telling chart would be the concentration of BTEX and TPHg over time for the most impacted wells versus dissolved oxygen and ORP. I would also recommend looking at a statistical approach to verify plume stability when it is reached. Please indicate how the concentrations of the specific parameters used in the graphs were derived.

Please submit your revised RBCA and your response to my questions regarding the analysis for the bio-parameters to our office within 45 days or by March 16, 1999.

If you have any questions, please contact me at (510) 567-6765 or Ms. Logan at (510) 567-6764.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

C: B. Chan, files
M. Logan, ACEH
Mr. S. Hooten, BP Oil Co., 295 SW 41st St., Renton, WA 98055-4931
Ms. K. Petryna, Equiva Services LLC, P.O. Box 6249, Carson, CA 90749-6249

RBCA-Bio4265

ENVIRONMENTAL
PROTECTION



Chevron

98 MAY 20 AM 10:55

May 18, 1998

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 6004
San Ramon, CA 94583-0904

Marketing - Sales West
Phone 510 842-9500

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

11-5077

**Re: Chevron Service Station #9-0076
4265 Foothill Blvd.
Oakland, California**

Dear Mr. Chan:

I recently sent a copy of the *Evaluation of Intrinsic Bioremediation*, dated May 15, 1998, to you. However, I failed to send the signed copy of the *Evaluation* letter that was prepared by Curtis Peck of Chevron's CRTC group, along with the bio-parameter results in tabular form from which the graphs were prepared.

This data is included for your reference and files. There is no change in the data and correspondence that was originally sent on May 15, 1998.

If you have any questions or comments, call me at (510) 842-9136 or Curtis Peck at (510) 242-7086.

Sincerely,
CHEVRON PRODUCTS COMPANY

A handwritten signature in cursive script, appearing to read "Philip R. Briggs".

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

11-5077

May 18, 1998
Mr. Barney Chan
Chevron Service Station #9-0076
Page 2

CC. Mr. Alex Perez
Shell Oil Company
PO Box 8080
Matinez, CA 94553

Mr. Scott Hooton
BP Oil Company 295 SW 41st Street
Renton, WA 98055-4931

American Stores Properties, Inc.
348 East South Temple Street
Salt Lake City, UT 84111
Attn. Barbara Russell

Mr. Bill Scudder, Chevron

Mr. Curtis Peck, Chevron, CRTC, RIC 100/10-3514

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

May 6, 1998
StID # 103

Mr. Phil 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 #9-0076, 4265 Foothill Blvd.,
Oakland CA 94601

Dear Mr. Briggs:

Our office has received and reviewed the first quarter groundwater monitoring report for the above site. One observation which was made was the continuing elevated TPHg, BTEX and MTBE concentrations in well C-2 and C-4. I also noticed that even though oxygen-releasing compounds were added to these wells and well C-6, only well C-6 had the elevated dissolved oxygen which would be expected with the addition of ORC. Therefore, please consider replenishing the ORC in wells C-2 and C-4. The high concentration of petroleum is likely consuming the dissolved oxygen faster than in well C-6.

In addition, the concentration of TPH, BTEX and MTBE also increased in well C-1. This may be the result of the increased groundwater elevation or may be a result of the recent detection of free product in MW-5 on the neighboring BP station. Groundwater gradient has not previously indicated BP as a potential direct up-gradient source, however, the most recent monitoring report for BP indicates this potential. You may want to also consider the addition of ORC into this well.

Please contact me at (510) 567-6765 if you have any comments or questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

C: B. Chan, files

Mr. Alex Perez, Shell Oil Co., P.O. Box 8080, Martinez, CA 94553
Mr. Scott Hooton, BP Oil Co., 295 SW 41st St., Renton, WA 98055-4931

ORC4265



Chevron

EVALUATION

98 FEB 10 AM 10:17

February 6, 1998

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 6004
San Ramon, CA 94583-0904

Marketing - Sales West
Phone 510 842-9500

**Re: Chevron Service Station #9-0076
4265 Foothill Blvd.
Oakland, California**

Dear Mr. Chan:

Enclosed is a copy of the *Evaluation of Intrinsic Bioremediation*, dated January 29, 1998, that was prepared by Curtis Peck of Chevron's CRTC group. This evaluation was made to make a determination of the presence of intrinsic bioremediation within the hydrocarbon plume at the above noted site.

In my letter of January 23, 1998, I had noted that Cambria Environmental Technology, Inc. would develop this information. However, Curt Peck of CRTC was available to work on the evaluation immediately and had also prepared the Risk Based Corrective Action plan and was thoroughly familiar with the site and the data.

The evaluation of indicator parameters across a dissolved contaminant plume can be used in the demonstration of intrinsic bioremediation. One or more trends observed across a dissolved plume with increasing contaminant concentration would suggest the potential occurrence of intrinsic bioremediation. With increasing BTEX concentrations, the expected trend in indicator parameter concentrations would be: Relative Decrease In- Dissolved Oxygen, Oxidation-Reduction Potential, Nitrate and Sulfate; Relative Increase In- Dissolved Iron and Alkalinity.

The dissolved plume was taken from upgradient to downgradient wells with the sum of the BTEX results and the indicator bio-parameter analytical results for each well plotted on the enclosed plots. The plots are then evaluated by observation for apparent trends in the data.



February 6, 1998
Mr. Barney Chan
Chevron Service Station # 9-0076
Page 2

Based on the attached plots, there is indication of the presence of intrinsic bioremediation occurring in the groundwater plume at this site. The effect of this process will be to stabilize the containment plume and reduce the size of the plume as the source area concentrations are reduced.

If you have any questions or comments, call me at (510) 842-9136 or Curtis Peck at (510) 242-7086.

Sincerely,
CHEVRON PRODUCTS COMPANY


Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc. Mr. Alex Perez
Shell Oil Company
PO Box 8080
Martinez, CA 94553

American Stores Properties, Inc.
348 East South Temple Street
Salt Lake City, UT 84111
Attn. Barbara Russell

Mr. Bill Scudder, Chevron

Mr. Curtis Peck, Chevron, CRTC, RIC 100/10-3514

Environmental
PROTECTION
98 JAN 27 AM 8:34



Chevron

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

January 23, 1998

#103

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: Chevron Service Station #9-0076
4265 Foothill Blvd.
Oakland , California**

Dear Mr. Chan:

This is to acknowledge the receipt of your letter dated January 2, 1998 and to respond to the statements made in said letter.

As noted, the RBCA and Well/Basement Survey reports are currently being reviewed by Ms. Logan. You also noted that you had received the reports on the recent Piping/Overspill Protection and the Installation of ORC in Wells at the site.

This is to acknowledge, that Chevron will continue to sample all monitoring wells quarterly, except for wells C-5, C-8 and C-9 which will sampled annually.

You requested that our consultant determine the need to establish a trend in the analysis of the bioremediation parameters that have been taken at this site and provide interpretation of the results. ***Chevron has contracted with Cambria Environmental Technology, Inc. to provide this information. I would expect to have the results to you within the next 30-45 days. Chevron will sample for these parameters in the 1st and 3rd quarters, any more sampling events will not disclose any additional information.***

1/23/98

January 23, 1998
Mr. Barney Chan
Chevron Service Station #9-0076
Page 2

If you have any questions or comments, call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY



Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc. Mr. Bill Scudder, Chevron

Mr. Alex Perez
Shell Oil Company
PO Box 8080
Martinez, CA 94553

American Stores Properties, Inc.
348 East South Temple Street
Salt Lake City, UT 84111
Attn. Barbara Russell

Ms. Tara Arrowood
Cambria Environmental Technology, Inc.
1144 65th Street, Suite B
Oakland, CA 94608



Cal/EPA

**State Water
Resources
Control Board**

Division of
Clean Water
Programs

Mailing Address:
P.O. Box 944212
Sacramento, CA
94244-2120

2014 T Street,
Suite 130
Sacramento, CA
95814
(916) 227-4307
FAX (916) 227-4530

World Wide Web
<http://www.swrcb.ca.gov/~cwrphome/fundhome.htm>



Pete Wilson
Governor

ENVIRONMENTAL
PROTECTION
98 JAN 16 AM 9:25

#103
BC

JAN 13 1998

Bob Cochran
Chevron U.S.A. Products Co.
P O Box 6004 Bldg L
San Ramon, CA 94583

**UNDERGROUND STORAGE TANK CLEANUP FUND, CLAIM NO. 5974, FOR SITE
ADDRESS: 4265 FOOTHILL BLVD, OAKLAND 94601**

The State Water Resources Control Board (State Board) is able to issue, pursuant to applicable regulations, the enclosed Letter of Commitment (LOC) in an amount not to exceed \$150,000. This LOC is based upon our review of the corrective action costs you reported to have incurred to date. The LOC may be modified by the State Board.

It is very important that you read the terms and conditions listed in the enclosed LOC. Claims filed with the Underground Storage Tank Cleanup Fund far exceed the funding available and it is very important that you make use of the funding that has been committed to your cleanup in a timely manner.

Consequently, if you do not submit your first reimbursement request for corrective action costs which you have incurred within ninety (90) calendar days from the date of this letter, your funds will automatically be deobligated. Once deobligated, any future funds for this site will be obligated subject to availability of funds at such time when we receive your reimbursement request.

You are reminded that you must comply with all regulatory agency time schedules and requirements and you must obtain three bids for any required corrective action. Only corrective action costs *required* by the regulatory agency to protect human health, safety and the environment can be claimed for reimbursement. **Unless waived in writing, you are required to obtain preapproval of costs for all future corrective action work (form enclosed).** If you have any questions on obtaining preapproval of your costs or the three bid requirement, please call Steve Marquez, our Technical Reviewer assigned to claims in your Region, at (916) 227-0746. Failure to obtain preapproval of your future costs may result in the costs not being reimbursed.

The following documents needed to submit your reimbursement request are enclosed:

- "Reimbursement Request Instructions" package. **Retain this package for future reimbursement requests.** These instructions must be followed when seeking reimbursement for corrective action costs incurred after January 1, 1988. Included in the instruction package are samples of completed reimbursement request forms and spreadsheets.



Recycled Paper

Our mission is to preserve and enhance the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations.


JAN 13 1998

- "Bid Summary Sheet" to list information on bids received which **must be completed and returned.**
- "Reimbursement Request" forms which you **must use to request reimbursement of costs incurred.**
- "Spreadsheet" forms which you **must use in conjunction with your reimbursement request.**
- "Claimant Data Record" (Std. Form 204) which **must be completed and returned with your first reimbursement request.**

We continuously review the status of all active claims. If you do not submit a reimbursement request or fail to proceed with due diligence with the cleanup, we will take steps to withdraw your LOC.

If you have any questions regarding the enclosed documents, please contact Anna Torres at (916) 227-4388.

Sincerely,


Dave Deaner, Manager
UST Cleanup Fund Program

Enclosures

cc: Mr. Thomas Peacock
Alameda County EHD
1131 Harbor Bay Pkway, 2nd Fl.
Alameda, CA 94502-6577



#103

97 OCT 27 PM 4:17
PROTECTION



Chevron

October 24, 1997

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 6004
San Ramon, CA 94583-0904

Marketing - Sales West
Phone 510 842-9500

**Re: Chevron Service Station #9-0076
4265 Foothill Blvd.
Oakland, California**

Dear Mr. Chan:

Enclosed is the Third Quarter Groundwater Monitoring Report for 1997, that was prepared by our consultant Blaine Tech Services Inc. for the above noted site. Ground water samples were collected and analyzed for TPH-g, BTEX and MtBE constituents. In accordance with your letter of August 21, 1997 the sampling frequency of monitoring wells C-5, C-8 and C-9 has been changed to annually, with the sampling event occurring in the first quarter. The remaining wells will continue to be sampled quarterly.

No separate phase hydrocarbons (SPH) was detected in monitoring well C-2 in this sampling event. The concentration of the benzene constituent decreased in monitoring wells C-2, C-4 and C-6, but increased in wells C-1, C-3 and C-7.

To establish a bioremediation baseline, all of the wells were analyzed for the bioparameters of total alkalinity, ferrous iron, nitrate and sulfate. Oxygen releasing compounds (ORC) were installed in wells C-2, C-4 and C-6 to increase the bioremediation activity around these wells.

Depth to ground water varied from 16.94 feet to 29.36 feet below grade with a direction of flow southwesterly.

The wells will continue to be sampled in accordance to the schedule as outlined above. If you have any questions, call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

9/15/97

October 24, 1997
Mr. Barney Chan
Chevron Service Station # 9-0076
Page 2

Enclosure

cc. Mr. Bill Scudder, Chevron

Mr. Alex Perez
Shell Oil Company
PO Box 8080
Martinez, CA 94553

American Stores Properties, Inc.
348 East South Temple Street
Salt Lake City, UT 84111
Attn. Barbara Russell

#103



Chevron

August 22, 1997

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 6004
San Ramon, CA 94583-0904

Marketing - Sales West
Phone 510 842 9500

**Re: Chevron Service Station #9-0076
4265 Foothill Blvd.
Oakland, California**

Dear Mr. Chan:

I appreciate the time that you gave me yesterday to discuss the present ground water monitoring program and proposed future actions for the above noted site.

Chevron proposed the reduction in the sampling frequency of several wells at the site. You agreed to change the frequency to annual for monitoring wells C-5, C-8 and C-9 with the sampling event occurring in the 1st quarter. The remaining wells will continued to be sampled quarterly. To enhance bio-remediation I have asked Blaine Tech Services, Inc. to add ORC's into monitoring wells C-2, C-4 and C-6.

You asked if a search of the residences in the area had been done to determine if they had basements. This survey was to have been done by Chevron and Shell. I said that I have been recently discussing this site with Shell's consultant, Cambria Environmental Technology Inc., and that I would ask them to determine if Shell did the survey for the entire area or just of the area of their concern. If they did not do the entire area, than Chevron will fill in the missing residences.

You also noted that you do not have the report covering the installation of monitoring wells C-1, C-2, C-3 and C-4. I said that I would review our files and forward a copy of this report to you for your files.

I also noted that the requested Risk Based Corrective Action (RBCA) plan is being prepared by Chevron Research and Technology Company personnel and is expected to be completed by September 15, 1997.

If you have any questions or comments call me at (510) 842-9136.

10/1/97

August 22, 1997

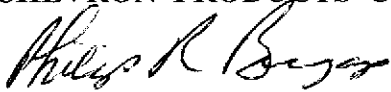
Mr. Barney Chan

Chevron Service Station # 9-0076

Page 2

Sincerely,

CHEVRON PRODUCTS COMPANY

A handwritten signature in cursive script, appearing to read "Philip R. Briggs".

Philip R. Briggs

Site Assessment and Remediation Project Manager

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Director

July 12, 1995
StID # 103

DEPARTMENT OF ENVIRONMENTAL HEALTH
Environmental Protection Division
1131 Harbor Bay Parkway, #250
Alameda, CA 94502-6577
(510) 567-6700

Mr. Mark Miller
Chevron USA Products Co.
P. O. Box 5004
San Ramon, CA 94583-0804

**Re: Work Plan Approval for Installation of Off-Site Well for
4265 Foothill Blvd., Oakland CA 94601**

Dear Mr. Miller:

Thank you for the submission of July 3, 1995 work plan prepared by your consultant, Pacific Environmental Group, for the installation of the off-site monitoring well, C-9. Our office has reviewed the work plan and the well's location and they are acceptable. In order to expedite the well installation, you should proceed as soon as possible obtaining all required permits. Please contact me **at least 48 hours prior to well installation** so I may arrange to witness the field work if possible.

In another issue with this site, through conversation and voice message with you, we are aware that a qualitative risk assessment is being performed by your consultant group. Please inform us when we might receive a copy of this report.

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

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

cc: Mr. Steven Krcik, Pacific Environmental Group, 2025 Gateway
Place, Suite 440, San Jose, CA 95110
Mr. Dan Kirk, Shell Oil Co., P. O. Box 4023, Concord 94524
J. Makishima, files
well4265

ENVIRONMENTAL
PROTECTION

95 MAY -9 PM 2:19



May 4, 1995

Chevron U.S.A. Products Company
6001 Bollinger Canyon Rd., Bldg. L
P.O. Box 5004
San Ramon, CA 94583-0804

Site Assessment & Remediation Group
Phone (510) 842-9500

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: **Chevron Service Station #9-0076**
4265 Foothill Boulevard, Oakland, CA

Dear Mr. Chan:

Thank you for your letter of March 14, 1995, regarding investigation and remediation activities at the above referenced site. Chevron agrees that the ongoing monitoring data gathered at this site and the adjacent Shell and BP sites has provided much information regarding hydrocarbon impact to ground water and flow direction.

At this point, however, Chevron does not believe that preparing a remedial action plan is appropriate. As we discussed by telephone recently, further definition of the down gradient extent of the hydrocarbon plume is required before determining a suitable site management strategy.

I look forward to meeting with you and Mr. Dan Kirk of Shell Oil Company on May 17, 1995 to review the ground water information gathered at our respective sites and formulate appropriate action plans. I understand Shell has already proposed additional investigation work and another benefit of our meeting may be to better coordinate investigation efforts.

If you have any questions or comments, please feel free to contact me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY



Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. S.A. Willer

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, CA 94524

File: 90076BC1

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



Shell Stn
4411 Foothill Blvd

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

March 14, 1995
StID # 103

DEPARTMENT OF ENVIRONMENTAL HEALTH

Mr. Mark Miller
Chevron USA Products Co.
6001 Bollinger Canyon Rd., Building L
San Ramon CA 94583-0804

ALAMEDA COUNTY-ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

**Re: Status of Site Investigation at 4265 Foothill Blvd.,
Oakland CA 94601**

Dear Mr. Miller:

The ongoing investigation at this operating Chevron station and that of the adjacent Shell station (4411 Foothill Blvd.) has provided interesting information which hopefully has clarified the sources of groundwater contamination coming from both sites. Our office has been patient in reviewing the groundwater gradient information and now requests that Chevron perform a Remedial Action Plan (RAP) inclusive of a feasibility study for the petroleum contamination on and offsite. Please provide your RAP to our office within 45 days or by April 28, 1995.

A joint meeting was proposed at one time with Mr. Dan Kirk of Shell, however, I'm not sure of the advantage of this type of meeting unless there will be some type of joint remedial approach performed by both parties. The extent of Chevron's groundwater plume must be determined and offsite contamination must be addressed. Currently, insufficient information exists to state that Chevron is being impacted by the Shell station's release.

I would like to make you aware that BP, which operates the other service station at 4280 Foothill Blvd. has been operating their groundwater extraction system since February of 1994. It appears that they are addressing their own petroleum release independently and need not get involved with either the Shell or Chevron sites.

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

Sincerely,

Handwritten signature of Barney M. Chan in cursive.

Barney M. Chan
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office
Mr. Mike Cooke, Weiss Associates, 5500 Shellmound St.,
Emeryville, CA 94608
D. Kirk, Shell Oil Co., P.O. Box 4023, Concord CA 94524
G. Coleman, RAP4265

ALCO
HAZMAT



Chevron

94 MAY 17 AM 10: 17

May 4, 1994

READY

Chevron U.S.A. Products Company

2410 Camino Ramon
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing Department

Phone 510 842 9500

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

103

**Re: Chevron Service Station #9-0076
4265 Foothill Boulevard, Oakland, CA**

Dear Mr. Chan:

Enclosed is the Coordinated Monitoring and Sampling Report dated March 14, 1994, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. All ground water monitor wells at the Chevron site, the adjacent Shell site, and the adjacent BP site were monitored and sampled on September 21, 1993. Depth to ground water measurements were taken at the Shell and Chevron sites on October 21, 1993 and November 19, 1993. Additionally, well locations and elevations at all three sites were surveyed to a common benchmark.

As indicated in the report, groundwater samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. The analytical results are summarized in Table 1. Potentiometric surface maps showing ground water elevation and flow direction are given in Figures 3, 4, and 5.

We are currently evaluating this new data to assist in developing an appropriate remedial strategy.

Chevron will continue to monitor and sample all wells at this site on a quarterly basis. If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Rich Hiatt, RWQCB - Bay Area
Mr. Mike Cooke, Weiss Associates
Mr. S.A. Willer

File: 9-0076 QM7





Chevron

ALCO
HAZMAT
93 DEC 15 AM 11:39

PC-127

December 13, 1993

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583

Marketing Department
Phone 510 842 9500

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Re: Chevron Service Station #9-0076
4265 Foothill Boulevard, Oakland, CA

Dear Mr. Chan:

Enclosed is the Groundwater Monitoring and Sampling Activities report dated October 25, 1993, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. As indicated in the report, groundwater samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Benzene was detected in all monitor wells with the exception of C-8 at concentrations ranging from 0.7 ppb to 9,600 ppb.

Depth to groundwater was measured at approximately 21 to 35 feet below grade. The depth to ground water data presented in the enclosed report has been contoured on the potentiometric surface map to show one continuous aquifer with the flow direction towards the southwest. This map reflects Chevron's current understanding of the ground water depth and movement beneath the site.

Our consultant has recently completed the joint sampling event with the adjacent BP and Shell sites. Additionally, the joint monitoring events with Shell have been completed. All wells at all three sites have been resurveyed to a common benchmark. Currently, we are completing the exchange of data with consultants for BP and Shell. Once this information is obtained, appropriate remedial strategies and goals will be evaluated.

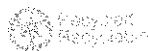
Chevron will continue to monitor and sample all wells at this site on a quarterly basis.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY


Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure



cc: Mr. Rich Hiatt, RWQCB - Bay Area
Mr. Mike Cooke, Weiss Associates
Mr. S.A. Willer

File (9-0076 QM6)



Chevron

93 SEP 24 PM 1:19

September 23, 1993

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583

Marketing Department
Phone 510 842 9500

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Re: Chevron Service Station #9-0076
4265 Foothill Boulevard, Oakland, CA

103

Dear Mr. Chan:

Enclosed is the Groundwater Monitoring and Sampling Activities report dated August 25, 1993, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. As indicated in the report, groundwater samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Benzene was detected in monitor wells C-1, C-2, C-4, C-6, and C-7 at concentrations of 12, 440, 7800, 820, and 3200 ppb, respectively.

Depth to groundwater was measured at approximately 9.4 to 35 feet below grade. The depth to ground water data presented in the enclosed report has been contoured on the potentiometric surface map to show one continuous aquifer with the flow direction towards the southwest. This map reflects Chevron's current understanding of the ground water depth and movement beneath the site.

As we discussed by telephone on August 25, 1993, Chevron has instructed its consultant to coordinate the next quarterly monitoring and sampling event with consultants for the adjacent Shell and BP sites. Additionally, all wells at the three sites will be resurveyed to a common benchmark. Depth to ground water measurements will be collected on a monthly basis at both the Chevron and Shell sites for an additional two months. BP indicated they did not want to collect additional ground water measurements on a monthly basis.

The additional data should assist in determining ground water flow direction at all three sites. Once this information is obtained, appropriate remedial strategies and goals will be evaluated.

Chevron will continue to monitor and sample all wells at this site on a quarterly basis.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

Need to work out remedial approach for Shell, Chevron & BP? contribute to



cc: Mr. Rich Hiatt, RWQCB - Bay Area
Mr. Mike Cooke, Weiss Associates
Mr. S.A. Willer

File (9-0076 QM5)

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

July 29, 1993
StID # 103

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

Mr. Mark Miller
Chevron USA Products Company
2410 Camino Ramon
San Ramon, CA 94583

Re: Comment on May 12, 1993 Quarterly Monitoring Report for
Chevron Service Station 9-0076, 4265 Foothill Blvd.,
Oakland CA 94601

Dear Mr. Miller:

Our office has received and reviewed the above referenced report as prepared by Groundwater Technology. The results continue to indicate high levels of gasoline and BTEX concentration on and offsite. I look forward to proposals to address this contamination as mentioned in your June 17, 1993 letter. As you may be aware, the Shell site across from Chevron has completed the installation of wells. The gradient determined at this site is northwesterly ie towards the Chevron site, not southerly as found on the Chevron site. Because of this, the offsite contamination being found in wells C-6 and C-7 may be solely from the Chevron site.

It therefore appears that your remedial strategies should also include offsite contamination and further offsite investigation. I have copied you with my July 28, 1993 letter to Mr. Dan Kirk requesting co-operation between Chevron and Shell to facilitate the remedial investigation of both sites. In this letter, I have offered our office and the RWQCB as facilitators of a joint meeting if desired.

Please inform our office of your future intentions of meetings and remedial investigations for this site.

You may contact me at (510) 271-4530 if you have any questions.

Sincerely,

Barney M. Miller
Hazardous Material Specialist

cc: G. Jensen, Alameda County District Attorney Office
D. Kirk, Shell Oil Co., P.O. Box 5278, Concord CA 94520
E. Howell, ~~1111~~
3-4265Fth1

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

May 5, 1993
StID# 103

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

Mr. Mark Miller
Chevron USA Products Company
P. O. Box 5004
San Ramon, CA 94583-0804

Re: Comment on April 29, 1993 Work Plan for Further Subsurface Investigation at 4265 Foothill Blvd., Oakland CA 94601, former Chevron Station #9-0076

Dear Mr. Miller:

Our office has received and reviewed the above referenced work plan for initiating in-situ bioremediation at this former Chevron site. The plan proposes to provide air injection into well C-2 and measure the bacteria count, nitrogen and phosphorous concentrations in the monitoring wells. This approach is not much more than "passive bioremediation" previously proposed for this site, which was consider inadequate. You are aware that such remediation is normally allowed when contamination has been confined to the limits of the property, which is not the case here.

Our office does recognize the potential of offsite migration of contamination from the Shell station across the street. There is merit in waiting until the gradient and hydrocarbon plume from this site has been defined. However, point 2 of my March 25, 1993 letter remains the County's concern ie the control of the migration of the petroleum hydrocarbon plume should be given the highest priority. With this in mind, our office would like some type of active remediation performed from well C-4 or beyond in addition to the in-situ bioremediation you propose for well C-2. This letter serves as conditional work plan approval as long as some type of active remediation is performed to prevent offsite contaminant migration. Please provide a remedial measure to accomplish containment to our office **within 30 days of receipt of this letter.**

You may contact me at (510) 271-4530 if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Barney M. Chan".

Barney M. Chan
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office
R. Hiett, RWQCB
D. Kirk, Shell Oil Co., P.O. Box 4023, Concord, CA 94524
E. Howell, files 4-4265ft

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

March 26, 1993
StID # 103

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

Mr. Mark Miller
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583-0804

**Re: Status of Subsurface Investigation at 4265 Foothill Blvd.,
Oakland CA 94601, former Chevron Service Station #9-0076**

Dear Mr. Miller:

After reviewing your March 3, 1993 groundwater monitoring and sampling report, our office has concerns whether the items previously discussed and detailed in letters were still being given priority and being acted upon. Your letter states that your consultant is preparing a work plan for enhanced in-situ bioremediation for the removal of dissolved hydrocarbons from well C-2. This is not consistent with what was outlined in your February 10, 1993 letter and what was discussed in our January 19, 1993 meeting.

Your February 10, 1993 letter contained the following observations and work plan proposals:

1. The groundwater being monitored on and off-site is apparently one continuous water bearing zone. Therefore, it may not be necessary to install on-site borings to a "deeper" aquifer depth.
2. The current groundwater extraction system was to be enhanced by including an extraction well located in the vicinity of well C-4.
3. In addition, recall in the January 19, 1993 meeting with you and Mr. John Randall, after investigating the Shell site, Chevron was going to install additional offsite wells on the Lucky Market site and perform groundwater recovery from these wells.
4. Chevron is still uncertain as to their liability for the groundwater contamination being found in monitoring wells, C-6 and C-7.

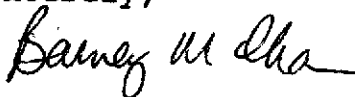
Mr. Mark Miller
StID #103
4265 Foothill Blvd.
March 25, 1993
Page 2.

Our office would like to clarify our opinion of what we would like to see occurring at this site.

1. Monitoring well C-2, which is the well connected to the groundwater extraction system, should be continually extracted. Your quarterly reports should give the status of the amounts of water which has been extracted from this well during that quarter.
2. Either C-4 or another well in its vicinity should be installed or enhanced to perform additional groundwater extraction. The control of the migration of the petroleum hydrocarbon plume should be given the **highest** priority.
3. Groundwater contamination being found in well C-7 is potentially from the Shell station, however, is just as likely that the contamination being found in well C-6 is originating from the Chevron site. Because you are required to delineate the extent of groundwater contamination emanating from the Chevron site, additional offsite monitoring well(s) are required plus a groundwater remediation plan.

Please provide a work plan for above items **within 30 days** and address the other preceding comments. Please update your progress on all proposed actions on all future quarterly monitoring reports.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office
R. Hiett, RWQCB
D. Kirk, Shell Oil Co., P.O. Box 4023, Concord CA 94524
E. ~~Howell~~, Files: 208
3-4265Fth1

V19193 M. Müller, J. Randall
2681 Fruitvale Ave - 94601

MW-5 15.5 - 36 ppm
Fruitvale

#

838

- ① Need to install a MW near shallow GW ~~must~~ grab standards where 69 ppm TPHs found.
- ② Possibly hydro-punch on corner of Fruitvale & Davis St.
- ⑤ Look @ cross sections of MW's like I did
- ③ Continuing monitoring @ MW-13, I should contact Texaco
- ④ Base further actions on whether offsite contamination ~~is~~ verified or not

#

102

Boothill Blvd

Look at C-2, C-4 or another well to install a pump & treat system.

Will investigate Shell site, then install additional offsite wells on Ruckey & perform recoveries ~~on one~~ in offsite wells



Chevron U.S.A. Products Company

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

842-9500

December 18, 1992

Mr. Barney M. Chan
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

STID 103

Re: Chevron Service Station #9-0076
4625 Foothill Boulevard, Oakland, CA

4265

Dear Mr. Chan:

Enclosed we are forwarding the Groundwater Monitoring and Sampling Activities report dated December 2, 1992, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. As indicated in the report, groundwater samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) and BTEX. Benzene was detected in monitor wells C-1, C-4, C-6, and C-7 only at concentrations of 34, 13,000, 1,000, and 6,800 ppb, respectively. Monitor well C-2 was not sampled due to the groundwater extraction pump in this well.

Upgradient monitor well C-1 has traditionally monitored low concentrations of TPH-G and BTEX. The increase in the levels observed in samples taken at the July event have been followed by a sampling event in October which indicates that hydrocarbon constituents have reverted to historically low concentrations again. The reason for this anomaly has not been firmly established, however possible sampling or laboratory errors may have been a contributing factor.

Depth to groundwater was measured at approximately 24 to 29 feet below grade on-site and 39 feet off-site. The groundwater elevations of the on-site monitor wells appear to define the potentiometric surface of a shallow water bearing zone, and /or a perched ground water table. The monitoring data presented in the enclosed report has not been contoured on the potentiometric surface map because of the uncertainty of the hydrogeology of the site. It is uncertain at this time whether the wells located on-site are monitoring the same water bearing zone as those wells located off-site.

Chevron will continue to monitor and sample all wells at this site on a quarterly basis. We are reviewing your letter of December 1, 1992, and will be responding shortly to the concerns of Alameda County.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Very truly yours,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer



Page 2
December 18, 1992
SS #9-0076

Enclosure

cc: Mr. Rich Hiatt, RWQCB-Bay Area
Mr. Matt Derby, Weiss Associates
Mr. S.A. Willer
File (9-0076 QM2)

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



EBA

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

December 1, 1992
STID # 103

Mr. Mark Miller
Chevron USA Products Co.
P.O. Box 5004
San Ramon, CA 94583-0804

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

Re: Comment on November 16, 1992 Letter Regarding Subsurface
Investigation at Chevron Service Station #9-0076, 4265
Foothill Blvd., Oakland CA 94601

Dear Mr. Miller:

I have received and reviewed your November 16, 1992 letter in response to my October 7, 1992 letter requesting further investigation at the above site. It is apparent that there are still points which need clarification. If you would like to meet with me after I summarize my concerns in this letter, you may contact me to set up an agreeable time and date. To a large extent, it appears that we both recognize the potential soil and groundwater contamination which is on and offsite. We do, however, have disagreements as to the identification of responsible parties and what will be done to remediate offsite contamination. In response to your letter I have the following concerns:

1. I am anticipating receiving an October 1992 groundwater sampling report. Upon review of the August 28, 1992 sampling report, it appears that TPHg and BTEX levels have not been reduced in monitoring well C-4 and in off-site wells, C-6 and C-7. You have stated that the extraction system in well C-2 has been running continuously since May 92, but there has not been sufficient time to reflect the removal of dissolved hydrocarbons. What is the anticipated timeframe when you'd expect to see significant decrease in dissolved hydrocarbons and how do you explain this? Please provide the expected area of influence for the C-2 extraction well.

2. I understand that well C-4 cannot sustain an acceptable flow rate and therefore will not be used as an extraction well. How then do you intend to prevent the off-site migration of dissolved hydrocarbons without the use of this well as an extraction well?

3. Your letter states that it is unclear what responsibility, if any, Chevron has to the groundwater contamination currently being found in wells C-6 and C-7. You also state that BP is an upgradient source for this contamination. I find this hard to believe given the southwesterly gradient found on this site and the north-northwesterly gradient being found on the BP site.

Mr. Mark Miller
STID # 103
4265 Foothill Blvd.
December 1, 1992
Page 2.

There had been disagreement as to the source of the dissolved contamination in C-1, which is less than 100 feet from the BP site and is more downgradient than wells C-6 or C-7. Therefore, I do not believe that the BP site is responsible for the cross-gradient contamination nearly 400 feet away. It is possible that the subsurface geology could account for a pathway from the BP Station towards wells C-6 and C-7, but this is unlikely since the same shallow groundwater zone is apparently being monitored at both sites.

4. To better understand the potential effects of offsite sources you will need to do more than data gathering. Groundwater elevation data will be needed from off and on-site wells to verify gradients to the east and south of your site. It may be beneficial to you to know that an offsite well near C-1 exists as part of BP's well network and that a well in the assumed downgradient direction to the former waste oil tank will be installed on the Shell site. Without evidence of gradient in these sites, Chevron is the responsible party for dissolved hydrocarbons in wells C-6 and C-7 and must provide a workplan to remediate this contamination.

Lastly, I would like to comment on Chevron's plans for further investigation.

1. Chevron proposes to review existing boring logs to determine if the two water bearing zones are connected. Clearly your consultants have indicated their interpretation of the connection of these areas by putting a series of question marks where these areas meet. Additional borings must be installed to determine if any connection exists between the shallow and deep aquifers.

2. Chevron proposes to explore the extent of soil contamination by drilling additional boring at the site. As mentioned in my October 7, 1992 letter, soil contamination has been identified in borings from C-A, C-2 and C-4. Additional borings are an acceptable means to determine the extent of this contamination.

3. Chevron proposes allowing the existing remediation system to operate for a period of time sufficient to evaluate its performance. This is acceptable if it can be shown that the operation of the system will have some affect in well C-4 and prevent migration of dissolved hydrocarbons from this site. Still, the contamination appearing in C-6 and C-7 will need to be remediated.

(relative to the BP site)

Mr. Mark Miller
STID # 103
4265 Foothill Blvd.
December 1, 1992
Page 3.

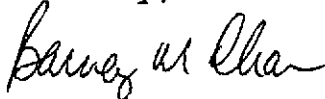
4. Chevron proposes to continue quarterly monitoring and sampling and determine changes in groundwater elevations and gradient directions. Along with this information, please include in all future quarterly monitoring reports: a. isoconcentration maps showing TPHg and Benzene concentrations b. all previous gradient and groundwater elevation data and c. all analytical results of previous samplings.

5. Chevron proposes to perform off-site investigations of the adjacent BP and Shell sites to determine what environmental work has been performed. This information is available at both our office and that of the RWQCB as required by the California Water Code Section 13267 (b). Some of this information has been previously provided to you in this and other letters from this office.

6. Lastly, a meeting can be arranged with Chevron and this office if there are items which still need to be clarified.

Please provide a written response to the above issues to our office **within 30 days** of receipt of this letter. You may contact me at (510) 271-4530 should you have any questions.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office
R. Hiett, RWQCB
S. Hooton, B. P. Oil, Env. Resources Mgmt., 16400 Southcenter
Parkway, Suite 301, Tukwila, WA 98188
D. Kirk, Shell Oil Co., P.O. Box 4023, Concord CA 94524

2-4255FtHill
Ed Howell/files

Mr. Mark Miller
STID # 103
4265 Foothill Blvd.
December 1, 1992
Page 3.

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6. Lastly, a meeting can be arranged with Chevron and this office if there ~~remains~~^{are} items which ~~need~~^{still} need to be clarified.

Please provide a written response to the above issues to our office **within 30 days** of receipt of this letter. You may contact me at (510) 271-4530 should you have any questions.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office
R. Hiett, RWQCB
S. Hooton, B. P. Oil, Env. Resources Mgmt., 16400 Southcenter
Parkway, Suite 301, Tukwila, WA 98188
D. Kirk, Shell Oil Co., P.O. Box 4023, Concord CA 94524

2-4255FtHill



Chevron U.S.A. Products Company

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

November 16, 1992

Rec'd for

11/23/92

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

103

**Re: Chevron Service Station #9-0076
4625 Foothill Boulevard, Oakland, CA**

(4265)?

Dear Mr. Chan:

Chevron has received your letter dated October 7, 1992, regarding subsurface impacts of hydrocarbons in the soil and groundwater at the above referenced site.

The on-site hydrocarbon contamination has been known to exist since 1987 when monitor wells were installed following the removal of three steel fuel tanks and one fiberglass waste oil tank. The groundwater extraction system was started in November of 1991. However, due to mechanical difficulties, the system was not running on a continuous basis until the beginning of May, 1992. The system has run almost continuously since May. Based on the limited time of operation, the ground water extraction system has not had sufficient time to reflect a removal of dissolved hydrocarbon constituents in the groundwater.

6 mos not enough time?

The ground water extraction system is monitored on a monthly basis for system performance and ground water removal. As of September 9, 1992, the system has recovered 2,800 gallons of ground water. Future ground water monitoring reports will be sent with a performance summary indicating gallons pumped during the quarter and total gallons removed to date.

An item of concern raised in your letter refers to the Weiss Associates report dated June 13, 1991, which indicated that monitor well C-4 would not be able to sustain an acceptable flow rate for groundwater extraction. This is the primary reason why monitor well C-2 was chosen for extraction over well C-4. In February of 1991, Weiss Associates conducted a well yield test to estimate ground water recharge rates that may be expected during ground water extraction from well C-2. Recharge on this well occurred very slowly, making an estimation of radius of influence very difficult. However, as was stated in Weiss Associates letter of September 13, 1991, ground water extraction from this well is expected to contain hydrocarbons from migrating off-site given the presumed gradient direction and location of free product at the site.

But SW will not be extracted

Upgradient monitor well C-1 has historically reported very low concentrations of dissolved hydrocarbon constituents. However, on the last sampling round of July 14, 1992, ground water samples taken from this well reported TPH-G and Benzene concentrations of 20,000 ppb and 480 ppb, respectively. Onsite expansion of the remediation system at this time to include monitor well C-1 would not be logical. It is understood that this well is potentially cross-gradient from the BP site, however initiating pumping may depress the ground water table in that area and pull contamination away from BP and towards the Chevron site.

It is unclear at this time as to what responsibility, if any, Chevron has for dissolved hydrocarbons



in the ground water found in off-site in monitor wells C-6 and C-7. You have stated in your most recent correspondence that no information exists to identify another responsible party other than Chevron. This is contradictory when it is known that the BP service station upgradient of the

questionable

Chevron site has at least one monitor well with separate phase hydrocarbons. It has been noted that the ground water gradient at the BP station is complex, but it should also be stressed that groundwater beneath the Chevron site is equally complicated. Until the subsurface hydrogeology has been investigated, it is difficult to assess the true source areas. Furthermore, the only problem known to exist at the Shell station upgradient of monitor well C-7 is in relation to a waste oil tank, however, it is unclear what other problems may exist at that site.

Chevron does concur with Alameda County that the extent of soil contamination should be determined. We further agree that the possibility that the two water bearing zones are connected should be fully investigated. Chevron proposes the following approach to continued investigation and remediation of the site.

Your consultant has put ?? as the 2nd rule approach. I don't think so

*Pls include on gdrly rep
1) Iso concentrations
2) groundwater elevation & gradient
3) all prev. spring results*

- 1) Determine whether the two water bearing zones are interconnected. This can be facilitated by reviewing existing boring logs which comment on soil conditions throughout the boring. If this is not conclusive, further subsurface work may be required per your recommendation.
- 2) Explore the extent of hydrocarbon contamination in the soils by drilling additional borings at the site.
- 3) Allow the existing remediation system to operate for a time period sufficient for evaluation of performance.
- 4) Continue the ground water monitoring and sampling on a quarterly basis to monitor the performance of the ground water extraction system and track changes in ground water elevation and gradient direction.
- 5) Perform off-site investigations of the adjacent BP and Shell sites to determine what environmental work has been performed. The data gathered would assist in creating a more regional picture of the complex hydrogeology present in this local area.
- 6) Meet with you to discuss and finalize the presented approach.

After your review, I would like to set a mutually agreeable meeting time and location to discuss this proposal. Please call me at your earliest convenience at (510) 842-8134.

Very truly yours,
CHEVRON U.S.A. PRODUCTS COMPANY



Mark A. Miller
Site Assessment and Remediation Engineer

cc: Mr. Rich Hiatt, RWQCB-Bay Area
Mr. Matt Derby, Weiss Associates
Mr. S.A. Willer
File (9-0076 LTR1)

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

October 7, 1992
STID # 103

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

Mr. Mark Miller
Chevron USA Products Co.
P.O. Box 5004
San Ramon, CA 94583-0804

Re: Request for Work Plan Addendum for Chevron Service Station
#9-0076, 4265 Foothill Boulevard, Oakland CA 94621

Dear Mr. Miller:

Thank you for the submittal of your recent, September 16, 1992 groundwater monitoring report. Please be advised that the oversight of the remediation of this site has been transferred to the Local Oversight Program (LOP) section of Alameda County Environmental Health, Hazardous Materials Division. The new case worker is the undersigned specialist.

Upon review of the files, it appears that significant groundwater and potential soil contamination still exists at this site. Offsite contamination as evidenced by groundwater concentrations in monitoring wells C-6 and C-7 also exists. The offsite contamination will need to be remediated and at this time no information exists to identify another responsible party other than Chevron.

I would like to address the assessment and remediation onsite first. Free product and high dissolved gasoline and BTEX has been known to exist since 1989. Your groundwater extraction system was started up in November of 1991. My observation is that to date, this system has not been successful in reducing levels of dissolved gasoline and BTEX constituents. High levels of these contaminants still exist in monitoring wells C-2, C-4, C-6 and C-7 at levels still as high as when the wells were initially installed. From our records, the pump test data was used to estimate groundwater recharge rates but did not provide any information in regards to estimating the expected capture zone of the extraction system. In fact, our office has no information in regards to an actual pump test having been performed. In addition, as was stated in a Weiss Associates report, well C-4 would not be expected to be able to sustain an acceptable flow rate for an extraction system. Therefore, it appears that an alternative or additional remediation method will be needed to reduce the contaminant levels. The 7/14/92 levels of 40,000 ppb TPHg and 14,000 ppb benzene found in well C-4 certainly require immediate remediation.

Mr. Mark Miller
STID 103
October 7, 1992
4265 Foothill Blvd.
Page 2.

It also appears that the groundwater contamination has migrated offsite. The southwesterly gradient is likely causing groundwater contamination in the direction of wells, C-6 and C-7. You must consider remediation from these wells until there has been agreement from our office or that of the Regional Board, that this contamination is from another source. As was noted in previous reports, there is a Shell station located potentially upgradient to these wells. Please be advised that the Unauthorized Release at this site was from a waste oil underground tank with fairly low levels of oil and grease contamination detected.

It is noted that well C-1, the upgradient onsite well, has recently detected significantly higher TPHg and BTEX levels and this location is potentially downgradient to the British Petroleum station at 4280 Foothill Blvd. Be aware that groundwater gradient on the BP site is complex and that well C-1 is potentially crossgradient to the BP site. Your concern that the high concentrations in C-1 are from offsite is noted and will be communicated to BP in our next correspondence. Given the area that may be affected by this contamination, it may be prudent to consider extending or adding this well to the existing remediation system in order to control the contamination's migration, while concurrently investigating the offsite source potential.

Additionally, the extent of soil contamination at this site has not been determined. Potential soils may still exist onsite which may continue to contribute to the groundwater contamination. Soil borings from C-A, C-2 and C-4 indicate high TPHg in the 8.5-10 feet depth range. Our office will require the determination of the extent of soil and groundwater contamination.

The offsite wells, C-6 through C-8 were installed in August of 1990 into a deeper aquifer. With the high concentrations of gasoline and BTEX in C-6 and C-7, it is necessary to determine the connection of the shallow aquifer onsite with that of the deep offsite aquifer. One method to do this would be to drill an exploratory well with a double casing, onsite, to determine if the deep aquifer exists and to sample groundwater if it does. This action should be given a priority and will be required even if another responsible party is identified. Once the connection of the two aquifers is determined a work plan will be required to control and remediate the offsite contamination in addition to that found onsite.

Mr. Mark Miller
STID # 103
4265 Foothill Blvd.
October 7, 1992
Page 3.

Please include in future quarterly monitoring reports a summary of the amounts of hydrocarbons removed during that quarter and a total amount since the initiation of the extraction system.

Please submit a workplan addendum to augment the existing system onsite, within 45 days of receipt of this letter. You should also give a time schedule for the determination of the connection of the shallow and deep aquifers found on and offsite.

You should consider this a formal request for technical reports pursuant to the California Water Code Section 13267 (b). Failure to submit the requested documents may subject you to civil liabilities. You may contact me at (510) 271-4530 should you have any questions.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

cc: M. Thomson, Alameda County District Attorney Office
R. Hiett, RWQCB
E. Howell, files

WP-4265FtHill

need to cc: S. Hooton, B.P. Oil Env. Res. Mgmt., 16400 Southcenter
Parkway, Suite 301 - Tukwila, WA 98188

D. Kirk, Shell Oil Co. P.O. Box 4023
Concord CA 94524



Chevron U.S.A. Inc.

2410 Camino Ramon, San Ramon, California • Phone (415) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

Marketing Department

August 22, 1991

Ms. Cynthia Chapman
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

**Re: Chevron Service Station #9-0076
4625 Foothill Blvd., Oakland**

Dear Ms. Chapman:

This letter is in response to your letter dated July 15, 1991, regarding the proposed groundwater remediation proposal dated June 13, 1991, prepared by our consultant Weiss Associates. In your letter you inquired whether the proposed groundwater remediation system will contain/prevent further offsite migration of the hydrocarbon plume.

We anticipate that pumping groundwater from monitor well C-2 will prevent the offsite migration of the hydrocarbon plume. Much of this prevention is expected by recovering phase-separated hydrocarbons from the vicinity of monitor well C-2, once we depress the groundwater table in this well. If this proves to not be effective in preventing further offsite migration, we will evaluate extracting from another monitoring point.

Enclosed is a check in the amount of \$670 to cover the deposit/refund account for oversight services provided by Alameda County Health Care Services.

If you have any questions or comments, please do not hesitate to contact me at (415) 842-9581.

Very truly yours,
CHEVRON U.S.A. INC.

Nancy Vukelich
Environmental Engineer

Enclosure

cc: Mr. Rich Hiatt, RWQCB-Bay Area
File (9-0076-1)



The Chevron Companies

CHEVRON U.S.A. INC.
P.O. Box S, Concord, CA 94524

CHECK DATE 08/14/91

0061

PAGE 01 OF 01

INV DATE	INVOICE NO.	ORDER IDENTIFICATION	REF. NO.	GROSS AMOUNT	DEDUCTIONS	NET AMOUNT
08/09/91	080991ALA		08A6ES001WC	670.00		670.00
		OVERSIGHT COSTS 4625 FOOTHILL OAKLAND	NLV			
TOTAL						670.00
DIRECT QUESTIONS TO: (415) 842-9576						WC
PAYEE 000191841		ALAMEDA COUNTY HEALTH CARE	ENVIRONMENTAL HEALTH DEPT	BANK MGR	00290	
001						
Check No. 68733504						

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



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

August 1, 1991

Ms. Nancy Vukelich
Chevron, USA, Inc.
PO Box 5004
San Ramon, CA 94583-0804

Re: Chevron Service Station 9-0076, 4625 Foothill Boulevard,
Oakland

Dear Ms. Vukelich:

As I stated in my letter of July, 15, I went through our files on this site to list the reports/documents that we have. They are:

BlaineTech Sampling reports, June 1987

May 24, 1989: Weiss Associates groundwater sampling report for
sampling event April 28, 1989

September 13, 1989: Weiss Associates groundwater sampling report
for sampling event August 8, 1989

Subsurface Investigation at Chevron Service Station #9-0076, 4265
Foothill Boulevard, prepared by Weiss Associates, December 1990

June 13, 1991, Groundwater Remediation Workplan

July 18, 1991, Groundwater Monitoring Report, prepared by Weiss
Associates

The Subsurface Investigation report references a Pacific Environmental Group's report, dated September 23, 1987, that was prepared for Gettler Ryan. Apparently this report contains the information for the original borings and wells, and mentions that well C-2 had two feet of floating product. We do not have this report in our file.

It also seems that there is an information gap in the files regarding the pump tests mentioned in the 1991 groundwater remediation workplan. Pumping rates were supplied in this report without any qualifying data, or a summary of activities, or reasons for making this determination. Please bear in mind that in order for our agency and the RWQCB to adequately assess the

Ms. Nancy Vukelich
Re: 4265 Foothill
August 1, 1991
Page 2

success of the system and the remediation, Chevron will need to supply us with this background information.

At your earliest convenience, please send us copies of these and any other "missing" reports. If you have any questions, feel free to call me at 415/271-4320.

Sincerely,

Cynthia Chapman

Cynthia Chapman
Hazardous Materials Specialist

c: Eddie So, RWQCB

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



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

July 15, 1991

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

Re: Chevron Service Station #9-0076, 4625 Foothill Boulevard,
Oakland

Dear Ms. Vukelich:

I've reviewed the Weiss Associates June 13, 1991, ground water remediation proposal. My notes from the February 14, 1991, Regional Board meeting state that there has been offsite migration of the contamination, and this is confirmed in the proposal. It is not clear in the proposal if the extraction system will contain/prevent any further offsite migration of existing contamination. Preventing offsite migration of the hydrocarbon plume is a priority with both this agency and the Regional Board. Since I don't have the pump test information, I will accept the proposed extraction system with the condition that Chevron address how offsite migration will be contained.

Our files on this site are painfully brief. The Weiss Associates report references reports that are not in the file. I will be sending you a list of reports that we do have, so that you can send us copies of the remaining reports.

As I stated in my phone message to you today, we will need to open a deposit/refund account for this site to cover our oversight costs. Please remit \$670.00, payable to Alameda County, to our address.

If you have any questions, please call me at 415/271-4320.

Sincerely,

Cynthia Chapman
Hazardous Materials Specialist

c: Rich Hiett, RWQCB



Chevron U.S.A. Inc.

2410 Camino Ramon, San Ramon, California • Phone (415) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

Marketing Department

91 JUL 11 PM 1:24

July 8, 1991

Ms. Cynthia Chapman
Alameda County Environmental Health Department
80 Swan Way, Room 200
Oakland, CA 94621

RE: Chevron Service Station #9-0076
4625 Foothill Blvd.
Oakland, CA

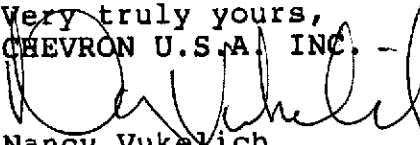
Dear Ms. Chapman:

Enclosed we are forwarding a Groundwater Remediation Work Plan dated June 13, 1991, prepared by our consultant Weiss Associates for the above referenced site. This work plan was prepared based on the data gathered during several phases of site assessment which were conducted at this site.

The proposed groundwater remediation system consists of extracting phase-separated hydrocarbons and water from monitor well C-2. The material extracted will be temporarily stored in a 1,500 gallon collection tank. The material will be pumped from the tank and transported to a licensed recycling facility contracted directly by Chevron.

Chevron will proceed with permitting and installation of the remediation equipment under self direction unless otherwise directed by your office. We would appreciate your review and concurrence.

If you have any questions or require additional information, please do not hesitate to contact me at (415) 842-9581.

Very truly yours,
CHEVRON U.S.A. INC. -

Nancy Vukelich
Environmental Engineer

Enclosure

cc: Mr. Lester Feldman, RWQCB-Bay Area
Mr. W.T. Scudder
File (#9-0076W1 Listing)

DATE:

TO : Local Oversight Program

FROM:

SUBJ: Transfer of Eligible Oversight Case

Site name: Chevron # 9-0076

Address: ⁴²⁶⁵~~4625~~ Foothill Blvd city Oakland zip 94601

Closure plan attached? Y N DepRef remaining \$ ~~none existed~~ ⁶⁰⁵¹

DepRef Project # not in our database STID #(if any) 103

Number of Tanks: _____ removed? Y N Date of removal _____

Leak Report filed? Y N Date of Discovery 4/28/89

Samples received? Y N Contamination: _____

Petroleum Y N Types: Avgas Jet leaded unleaded Diesel
fuel oil waste oil kerosene solvents

Monitoring wells on site _____ Monitoring schedule? Y N

LUFT category 1 2 3 * H S C A R W G O

Briefly describe the following:

Preliminary Assessment _____

Remedial Action _____

Post Remedial Action Monitoring _____

Enforcement Action _____



Chevron U.S.A. Products Company

2410 Camino Ramon, San Ramon, CA
Mail P.O. Box 5004, San Ramon, CA 94583-0804
Phone (510) 842-8134

Mark A. Miller
Engineer
Northwest Region



Chevron U.S.A. Inc.

2410 Camino Ramon, San Ramon, CA
Mail P.O. Box 5004, San Ramon, CA 94583-0804
Phone (510) 842-9625

J. M. (John) Randall
Engineer
West Central Region