

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



SCWT
3-30-05

March 25, 2005

Thomas H. Kosel, Site Manager
Risk Management and Remediation
ConocoPhillips
76 Broadway
Sacramento, CA 95818

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

Dear Mr. Kosel,

Subject: Fuel Leak Case No. RO0000219, Unocal Service Station No. 5043,
449 Hegenberger Rd., Oakland, CA

Alameda County Environmental Health (ACEH) staff has reviewed "Work Plan for Dual-Phase Vacuum Extraction Pilot Test" dated October 11, 2004, "Dual-Phase Vacuum Extraction Application at Each Site" via email dated March 14, 2005, "Draft Multi-phase Extraction Standard Operating Procedure" via email dated March 18, 2005, all prepared by TRC. We approve the Work Plan. We request that you perform the work and send us the technical reports requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Don Hwang), according to the following schedule:

May 25, 2005 - Dual-Phase Vacuum Extraction Pilot Test

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

If you have any questions, I may be reached at (510) 567-6746.

Sincerely,

Don Hwang
Hazardous Materials Specialist
Local Oversight Program

C: Roger Batra, TRC, 1590 Solano Way, Suite A, Concord, CA 94520
Donna Drogos
File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



9-17-01
ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

September 14, 2001
SID 521/RO0000219

Mr. Dave De Witt
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, CA 94583

**Re: Groundwater Monitoring Report for Tosco Service Station #5043,
449 Hegenberger Rd., Oakland CA 94621**

Dear Mr. De Witt:

Our office has received and reviewed the August 22, 2001 Third Quarter 2001 Groundwater Monitoring and Sampling Report for the referenced site as prepared by Gettler-Ryan, your consultant. The results show a consistent elevated TPHd and TPHg and BTEX concentrations in monitoring well MW-6. All other wells are very low in TPH impact. These results are surprising given the past efforts performed to remediate the site and this area, which include soil excavation, groundwater and dual phase extraction. These elevated levels continue to require monitoring as they represent a continual source of contamination.

You may continue to monitor the site since the residual contamination does not pose a human health or environmental risk, however, our office recommends some form of remediation for this well. The reduction of elevated TPH levels will allow site closure.

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. D. Lee, Gettler-Ryan Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Rec449HegRd

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



10-26-00

RO# 219

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

October 25, 2000
StID # 521

Mr. David DeWitt
Tosco Marketing Co.
2000 Crow Canyon Place, Suite 400
San Ramon, CA 94568

Re: Tosco SS # 5043, 449 Hegenberger Rd., Oakland CA 94621

Dear Mr. DeWitt:

The referenced site above is characterized by a localized area around monitoring well MW-6 which over the years, (1996-2000), has exhibited either free product or elevated TPHg and BTEX. The rest of the site is fairly well understood and only slightly impacted. Based on this history, you had performed a five day dual phase extraction test at the site in late 1999. Was a report of this extraction test ever finalized in a report? Please send our office a copy of the results of this test. What recommendation is made regarding using this remedial approach?

It appears that even after the extraction test, residual gasoline contamination remains in soil and/or groundwater as reflected in the monitoring results that have followed the test. Our office recommends that you consider additional remediation in the area of this well. This would result in the reduction of potential human health risk and allow for site closure. Natural attenuation does not appear to be attenuating contamination in this well significantly.

Please provide comment to this recommendation.

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

Sincerely,

A handwritten signature in black ink that reads "Barney M. Chan". The signature is written in a cursive, flowing style.

Barney M. Chan
Hazardous Materials Specialist

C: B. Chan, files
Mr. D. Lee, Gettler-Ryan, 6747 Sierra Ct., Suite J, Dublin CA 94568

Remed449Heg

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RO# 219

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

April 23, 1999
StID # 521

Mr. David De Witt
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, CA 94583

Re: Unocal branded station #5043, 449 Hegenberger Rd., Oakland CA 94621

Dear Mr. De Witt:

Our office has received and reviewed the **March 30, 1999 First Quarter 1999 Monitoring** report for the above site as prepared by Gettler-Ryan Inc. Of concern to our office is the continual presence of free product in MW-6. It appears that free product has been present in this well since July of 1996 and has remained even with the excavation of significant impacted soil and removal of large amounts of water during the tank removal and station remodel. Current conditions would require extended monitoring without the removal and remediation of the source of the free product. A secondary concern is the possible presence of MTBE in the free product found in MW-6. Because groundwater is not sampled, the extent of this compound is not defined.

Our office recommends that free product be removed from MW-6. One possible approach would be the removal of as much groundwater as possible from MW-6 via excessive purging or dual phase extraction.

Please comment on this recommendation. 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. D. Lee, Gettler-Ryan, 6747 Sierra Court, Suite J, Dublin, CA 94568

FP-449Hegenberger

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

RO# 219

March 11, 1997
StID # 521

Mr. David De Witt
Unocal Corporation
2000 Crow Canyon Place, Suite 400
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: Unocal Service Station #5043, 449 Hegenberger Rd., Oakland CA
94621

Dear Mr. De Witt:

Our office has received and reviewed the March 4, 1997 MPDS Services groundwater monitoring report for the above site. The sampling results of three of the four existing wells are reported. MW3 remains inaccessible as it is obstructed with debris. Please be aware that Unocal's quarterly reports are to include more than the analytical results provided by your sampling contractor. As required by Title 23, Division 3, Chapter 16, Section 2652(d), the quarterly reports should include the results of all investigation monitoring or other corrective actions which have occurred since the last reporting period. If free product exists, which is the case here, other abatement methods may be required.

Our office has approved the Kaprealian Engineering Inc. (KEI) work plan for monitoring well installation and repair for the above site. Your quarterly report should give the status of this proposed work and give reasons for any delay in their implementation.

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

Sincerely,


Barney M. Chan
Hazardous Materials Specialist

c: B. Chan, files
B. Kazerian, Kapraelian Eng., 2401 Stanwell Dr., Suite 400,
Concord, CA 94520

qmr449

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RO#219

November 20, 1996
StID # 521

Mr. David De Witt
Unocal Corporation
2000 Crow Canyon Place, Suite 400
San Ramon, CA 94583

**Re: Work Plan Approval, Unocal Service Station #5043, 449
Hegenberger Rd., Oakland CA 94621**

Dear Mr. De Witt:

Our office has received and reviewed the November 15, 1996 Kaprealian Engineering Inc. (KEI) work plan for monitoring well installation and repair for the above site. This work plan is in response to my October 16, 1996 letter and is acceptable with the following condition:

1. Please include the analysis for MTBE in the soil and groundwater samples taken from the proposed wells, MW-7 and MW-8. Please also include MTBE in the quarterly monitoring events along with TPHg, TPHd and BTEX. Should MTBE be detected via EPA method 8020 please confirm the highest reading via EPA method 8240 or 8260 as recommended by the SWRCB.
2. As previously mentioned in my October 16, 1996 letter, please notify our office should offsite encroachment for the installation of the wells be a problem.
3. Please notify our office 48 working hours prior to your field work.

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

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

c: B. Chan, files
B. Kazerian, Kapraelian Eng., 2401 Stanwell Dr., Suite 400,
Concord, CA 94520

wpap449

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

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RO# 219

October 16, 1996
StID # 521

Mr. David De Witt
Unocal Corporation
2000 Crow Canyon Place, Suite 400
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: Unocal Service Station #5043, 449 Hegenberger Rd., Oakland
CA 94621

Dear Mr. De Witt:

Our office has received and reviewed the September 5, 1996 submission of the chemical analysis of the free product found in monitoring well MW6 at the above site. Our office agrees with the expert opinion given in this report ie the free product appears to have been the result of an individual event, possibly an act of vandalism. Continual removal of free product and bailing from this well should reduce contamination levels to pre-existing levels. Because this release is not likely from the underground tank system, no Unauthorized Release (Leak) Report will be required from our office.

Since the reconstruction of this facility caused significant destruction and damage to a number of monitoring wells, please provide a brief work plan indicating the number and location of your replacement wells. It would appear, minimally, that additional monitoring wells are necessary in the west and south portions of the site. The significant soil and groundwater removal which has occurred should have a positive affect on groundwater quality, however, replacement wells are necessary to document current water quality. In addition, please repair monitoring well MW3. Please inform our office if you have encountered any difficulty in obtaining encroachment permits for the installation of the additional wells.

Please submit your monitoring well installation work plan within 30 days or by November 18, 1996. You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

c: B. Chan, files
K. Tinsley, ACEH
B. Kazerian, Kapraelian Eng., 2401 Stanwell Dr., Suite 400,
Concord, CA 94520 mwwp449

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R0219

RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700

September 22, 1995
StID # 521

Unocal Corporation
Mr. Dave De Witt
2000 Crow Canyon Place, Suite 450
San Ramon, CA 94583

**Re: Request for Technical Reports for Unocal Station #5043
449 Hegenberger Rd., Oakland CA 94621**

Dear Mr. De Witt:

This letter serves to recount our conversation of September 21, 1995 where I requested an update of the status of the subsurface investigation at the above site. Our office has just received and reviewed the documentation for the removal and disposal of the approximate 6000 cubic yards of soil from the site.

Recall, I requested the following information/reports:

Report for the soil sampling performed after each excavation activity;

Documentation of the amounts of groundwater taken to the Unocal refinery for recycling;and,

A schedule for the resumption of groundwater monitoring and the installation of the replacement wells.

Please provide a written reponse to these items within 30 days or by October 23, 1995.

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

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

cc: R. Kerzian, Kaprealian Engineering, 2401 Stanwell Drive,
Suite 400, Concord, CA 94520

G. Young, files
reps449

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R0219

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH

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

March 16, 1995
StID # 521

Mr. David DeWitt
Unocal Corporation
2000 Crow Canyon Place, Suite 400
P.O. Box 5155
San Ramon, CA 94583

**Re: Comment on February 23, 1995 Work Plan Addendum for Unocal
Station #5043, 449 Hegenberger Rd., Oakland CA 94621**

Dear Mr. DeWitt:

Our office has received and reviewed the above referenced work plan addendum prepared by your consultant, Kapraelian Engineering Incorporated. Recall, this work plan calls for the replacement of wells MW4 and MW5 and the also the replacement of well MW2 due to the excavation of the pump islands. This addendum is acceptable, however, it is probably best to wait until after the excavation of the pump islands is complete. It is possible that the limits of excavation may dictate the location of the replacement well, MW2A. In addition, MW1 may also be in jeopardy.

After the completion of tank removals, tank installations and station reformatting please provide an accurate map indicating the locations of all replacement wells.

Please notify me 48 working hours prior to well installations.

You may contact me at (5100 567-6765 if you have any questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

cc: Joel Greger, Kapraelian Engineering, 2401 Stanwell Drive,
Suite 400, Concord CA 94520
G. Coleman, files
wpad449

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R0219

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

September 14, 1994
StID # 521

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 HARBOR BAY PARKWAY, 2ND FLOOR
ALAMEDA, CA 94502-6577

(510) 271-4530

Mr. David De Witt
Unocal Corporation
2000 Crow Canyon Place, Suite 400
San Ramon, CA 94583

**Re: Comment on September 9, 1994 Letter on the Status of the
Subsurface Investigation at Unocal Station 5043, 449
Hegenberger Rd., Oakland CA 94621**

Dear Mr. De Witt:

Our office has received and reviewed the above referenced letter regarding the status of proposed work at Unocal Station 5043. Your letter summarizes the current status and offers a proposal for a sequence of events for the future investigation and reconfiguration of this service station.

Our office has the following concerns/requests regarding Unocal's tentative proposal:

1. We understand that Unocal has not received any reply from the adjacent property owner after several access requests for the installation of off-site monitoring wells. Please provide our office copies of any correspondence to the off-site property owner. Please also provide the complete mailing address, the name of this company's contact person and their phone number.
2. Please provide a time line and schedule for the implementation of the bulleted items in your letter.
3. As previously discussed, although no removal permit is required for the excavation of the hydraulic hoist and clarifier, our office should be notified prior to any sampling performed after these removals.
4. Our office is most concerned about the presence of free product and high dissolved product being found at this site. At one time, you mentioned attempting to extract groundwater from MW-1. What is the status of this proposal? At this time, the passive removal of free product is not sufficient. Free product removal should be consistent with Section 2655, Article 5 of Title 23, Division 3, Chapter 16 of the California Code of Regulations.

Mr. David De Witt
Unocal #5043, 449 Hegenberger Rd.
September 14, 1994
Page 2.

5. You are also requested to provide a Corrective Action Plan, CAP, the contents of which are stated in Section 2725, Article 11 of Title 23. I understand that the contents of your CAP may include some of the items listed in your September 9, 1994 letter, however, the CAP requires, among other things, a feasibility study which evaluates each alternative for remediating the site for its cost-effectiveness.

Please submit a written response to the above items along with your CAP within 45 days or by October 31, 1994.

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

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office
Mr. Bob Kerzerian, KEI, 2401 Stanwell Drive, Suite 400,
Concord, CA 94520
E. Howell, file

CAP449

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R0219

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

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

August 16, 1994
StID # 521

Mr. David DeWitt
Unocal Corporation
2000 Crow Canyon Place, Suite 400
P.O. Box 5155
San Ramon, CA 94583

**Re: Request for the Implementation of Additional Subsurface
Investigation at Unocal Station #5043, 449 Hegenberger Rd.,
Oakland CA 94621**

Dear Mr. DeWitt:

As you are aware, significant gasoline and diesel contamination in groundwater has been detected through monitoring at the above site for well over two years. In fact, free product has been detected in monitoring well 1 ever since the November 30, 1992 monitoring event. When we last spoke, I understood that because of a major remodel planned for this station, which would include underground storage tank replacement, the proposed installation of additional monitoring wells as described in Kaprealian Engineering's June 22, 1993 work plan was on hold.

Our office recently received an underground tank closure plan for the waste oil tank only at the above site. Does this mean that your intentions to replace all the existing underground tanks has changed? If this is the case, it is now appropriate to initiate the installation of the four monitoring wells described in the June 22, 1993 Kaprealian proposal. This letter serves to provide written approval of this proposal and request the initiation of its implementation **within 30 days or by September 19, 1994**. Please notify me at least **48 working hours** prior to any field work, so I may arrange to witness this activity if possible.

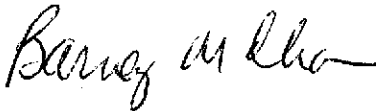
You should also provide a work plan for the determination of the appropriate remedial method for this site. The skimmer implaced in monitoring well MW1 should is considered as an interim groundwater remedial measure to be used only until a more aggressive approach has been determined. Please describe the elements of your feasibility study within the contents of your next quarterly monitoring report scheduled for this month.

You may reach me at (510) 567-6700 should you have any questions.

Please be advised of our new address:
1131 Harbor Bay Parkway, Room 250, Alameda CA 94502.

Mr. David DeWitt
Unocal Corporation
StID # 521
449 Hegenberger Rd.
August 16, 1994
Page 2.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

cc: Mr. Joel Greger, Kaprealian Engineering, Inc., 2401 Stanwell
Dr., Suite 400, Concord CA 94520
E. Howell, files

4-449Heg

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R0219

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

April 19, 1993
StID # 521

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. Tim Howard
Unocal Corporation
2000 Crow Canyon Place, Suite 400
P.O. Box 5155
San Ramon, CA 94583

**Re: Comment on March 31, 1993 Quarterly Report for Unocal Service
Station #5043, 449 Hegenberger Rd., Oakland CA 94621**

Dear Mr. Howard:

Our office has received and reviewed the above referenced quarterly report. The report details the groundwater analytical results from monitoring wells 1-6. Our office has some concerns with the recommendation of your consultant, Kaprealian. They have stated that since the Total Dissolved Solids of water samples from MW2, MW3, MW4 and MW6 exceed 3,000 mg/l (ppm), no further contamination delineation nor remediation appears to be warranted. After site specific conditions were examined, our office cannot agree with this recommendation. Although it is correct that the groundwater at this site may not be considered potable according to Resolution 88-63, a number of other considerations must be met to warrant no further delineation and remediation.

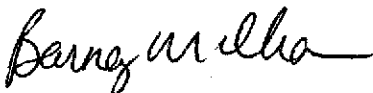
The property owner is still responsible for the delineation of the extent of soil and groundwater contamination. It must be shown to be confined to your property boundaries. In addition, free product occurring in MW1 must be removed to all extent possible per Title 23 Section 2655. After reviewing the groundwater gradient maps, it is apparent that there are at least two gradient directions at this site; south-southeast on the north side of the property and westerly on the southern part of the site. Monitoring wells MW5 and MW6 are on the southern part of the site. Their concentrations of TPHg and BTEX has increased significantly from the August 92 sampling to the November 92 sampling event. With the westerly gradient, such contamination is possibly moving offsite. As mentioned previously, contamination must be confined to the property boundaries. This can be verified by additional subsurface investigation or other means to hydraulically control the groundwater plume. Lastly, Section 2652 (11) (d) of Title 23 states that until the investigation and cleanup are complete, the owner or operator shall submit reports to the local agency at least every three months.

Mr. Tim Howard
StID # 521
449 Hegenberger Rd.
April 19, 1993
Page 2.

Therefore, although it may appear that no further work is warranted, in order to contain any contamination on this site's boundaries additional work will be necessary. Also, continual monitoring and reporting will be required to verify containment of the groundwater contaminant plume.

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
T. J. Berkins, Kapraealian Engineering Inc., 2401 Stanwell
Dr., Suite 400, Concord, CA 94520
E. Howell, files

1-449Heg

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R0219

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

December 11, 1992
STID # 521

Mr. Tim Howard
Unocal Corporation
2000 Crow Canyon Place, Suite 400
P.O. Box 5155
San Ramon, CA 94583

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: Evaluation of October 12, 1992 Groundwater Investigation
and Quarterly Monitoring Report for Unocal Service Station
#5043, 449 Hegenberger Rd., Oakland CA 94621

Dear Mr. Howard:

Thank you for the submission of the above report detailing the installation of three additional wells and monitoring on all six wells onsite. Our office agrees with your consultants recommendation for performing a Hydropunch survey to determine the extent of groundwater contamination and determine the best location(s) for additional monitoring well(s). As long as benzene concentrations remain less than the MCL, you can continue quarterly monitoring. If conditions change, you may need to consider remediation to confine the hydrocarbon and benzene plume to your own property boundaries. In all future quarterly reports, please also include:

- * previous groundwater elevation readings and gradient contour maps
- * isoconcentration maps for TPHg, TPHd and benzene

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. Hiatt, RWQCB
T. J. Berkins, Kaprealian Engineering Inc., 2401 Stanwell Dr.
Suite 400, Concord CA 94520
E. Howell, files

qtr-449Heg

LAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



State Water Resources Control Board
Division of Clean Water Program
UST Local Oversight Program

RAFAT A. SHAHID, Assistant Agency Director

R0219

July 29, 1992
STID #521

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

Mr. Tim Howard
Unocal Corporation
2000 Crow Canyon Place, Suite 400
P.O. Box 5155
San Ramon, CA 94583

Re: Quarterly Report and Work Plan for Unocal Service Station
#5043, 449 Hegenberger Rd., Oakland CA 94621

Dear Mr. Howard:

Our office has received and reviewed the July 7, 1992 quarterly report of monitoring well results as provided by your consultant, Kapraelian Engineering Incorporated. As you may recall three monitoring wells were installed in February of 1992 after finding high gasoline and diesel contamination in piping trench samples. The monitoring well results, although incomplete, indicate high gasoline, diesel and/or BTEX (benzene, toluene, ethylbenzene and xylenes) contamination in MW-1 and MW-2. In fact MW-1, had free floating product on the May quarterly sampling event.

Because of the high concentrations of petroleum contamination found in MW-1 and MW-2, Kapraelian has proposed an additional three monitoring wells on the west side of the property. These wells intend to allow the determination of the extent of soil and groundwater contamination. This letter serves to give our office's approval for this action to proceed without further notice along with the following stipulations:

1. Please provide a proposal for the in-situ remediation of the soil and groundwater obviously underlying this site, particularly near the pump islands and MW-1. It was agreed that excavation of the soils near the pump island would not be reasonable given the uncertain extent and degree of contamination. Therefore some type of active remediation system was to be implemented to control and remediate the soil/groundwater contaminant plume. To this end, in your proposal please give a time schedule for the various activities required in your workplan such as performing pump tests, obtaining regulatory permits and approvals, obtaining bids, installation of equipment etc.

2. Please state what interim measures will be taken to remove the floating product in MW-1.

Mr. Tim Howard
Unocal #5043
STID # 521
July 29, 1992
Page 2.

3. It was noted that MW-3 was inaccessible during the May 92 sampling event. Please correct this situation and continue to take water samples and groundwater elevation readings. I understand that MW-3 was covered during resurfacing activities at this site.

4. Please consider locating monitoring well MW-5 down-gradient to the waste oil tank at this site. When the well is installed you should analyze the soil and groundwater for total oil and grease as well as gasoline, diesel and BTEX. It was noted that in the March 26, 1992 tank test results done by Triangle Environmental, Inc., the waste oil tank was not precision tested. Please explain this apparent oversight.

5. Considering that groundwater treatment will be required to control the petroleum plume keep in mind that the appropriate well dimensions should be used to facilitate this type of remediation.

6. Note also that the extent of the soil and groundwater contamination has yet to be determined in the assumed upgradient location. Offsite well(s) may be needed to obtain this information.

Please provide comments along with the written proposal as requested to our office within thirty (30) days of receipt of this letter. You may contact me at (510) 271-4320 should you have any questions.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

cc: M. Thomson, Alameda County District Attorney Office
R. Hiett, RWQCB
T. J. Berkins, Kaprealian Engineering Inc., 2401 Stanwell Dr.
Suite 400, Concord CA 94520
E. Howell III, files

WP-449Heg

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0219

November 4, 1991

Unocal Corporation
Mr. Ron Bock
P.O. Box 5155
San Ramon, CA 94583

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

Re: Dispenser and Piping Modification at Unocal #5043,
449 Hegenberger Road, Oakland CA 94621

Dear Mr. Bock:

Our division has received the faxed results of analytical results of soil samples taken from the trenches at the above referenced site. These results were sent to us by Mr. Richard Bradish of Kaprelian Engineering, Inc. These results indicate that these piping run samples had considerable gasoline, diesel and benzene, toluene, ethylbenzene and xylenes (BTEX) contamination. As high as 9,000 ppm Total Petroleum Hydrocarbons (TPH) as gasoline and 8,400 ppm TPH as diesel were found in sample P2, the sample taken in the northeast location of the piping trench. Because of these levels found, this site is considered to have experienced an unauthorized petroleum hydrocarbon release the extent of which must be assessed and remediated.

Enclosed, please find an Underground Tank Unauthorized Release (Leak)/ Contamination Site Report to be filled out by you or your designee. Please complete this report and return to our office within thirty (30) days.

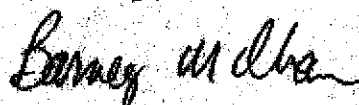
To address the above problem, you are requested to provide a work plan to perform this assessment and potential remediation. Enclosed is a copy of the contents of a "typical" work plan for you to use as guidance. Please provide a work plan to our office within thirty (30) days. As stated in Mr. Bradish's October 30, 1991 letter, the County is agreeable to the tentative work plan which includes the excavation of the trenches to ground water. In addition, a piping pressure test and recent (within the past year) tank precision tests will be provided to our agency. Please provide this information along with your work plan to us within thirty (30) days. We realize that your work plan will include the installation of monitoring wells and any other necessary remediation dictated by monitoring well results. Because of the presence of high TPH gasoline and diesel results and the presence of detectable BTEX and the existence of shallow ground water, the prompt installation of monitoring wells is expected.

Mr. Ron Bock
449 Hegenberger Rd.
November 4, 1991
Page 2.

Please be aware that this is a formal request for technical documents pursuant to the California Water Code, Section 13267 (b). Any extensions of agreed upon deadlines must be confirmed in writing by either this Division or the Regional Water Quality Control Board, RWQCB. All proposals, reports and analytical results pertaining to this investigation and remediation must be sent to our office and the RWQCB to the attention of Mr. Eddy So. Their address is : 2101 Webster St., 4th Floor, Oakland, CA 94612.

Please contact me at (510)271-4320 should you have any questions regarding this letter.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

enclosures

- cc: G. Jensen, Alameda County District Attorney, Consumer and Environmental Protection Division
- E. So, RWQCB
- M. Hatayama, DOHS
- R. Bradish, Kaprealian Engineering, Inc.. P.O. Box 996, Bennington, CA 94510

449HegWP

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0219

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

February 7, 1991

Mr. Christopher P. Guterres
Robert H. Lee & Associates, Inc
900 Larkspur Landing Circle, #125
Larkspur, CA 94939

Dear Mr. Guterres:

This office has received your letter of January 9, 1991, requesting an extension of the permit application for Unocal Service Station #5043, 449 Hegenberger Road, Oakland. Your request is granted. Please notify us of any changes in the dispenser as soon as you learn what type Unocal will use, and notify us when construction activities will occur.

Sincerely,

Cynthia Chapman

Cynthia Chapman
Hazardous Materials Specialist

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0219

September 19, 1990

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

Herbert Lee
Lee's Airport Unocal Sta. #5043
449 Hegenberger Rd.
Oakland, CA 94621

Re: Waste Minimization Assessment

Dear Herbert Lee:

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

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

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

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

Sincerely,

Edgar B. Howell, Chief,
Alameda County Hazardous Materials Division

EBH:kac

cc: Fire Department
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0219

July 23, 1990

DEPARTMENT OF ENVIRONMENTAL HEALTH (3)
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Mr. Godfrey G. Becks MPH, IHIT
MBA, Inc.
P.O. Box 348
Martinez, CA 94553

Dear Mr. Becks:

In response to your letter of July 11, 1990, we have searched our files for the sites requested.

The following information is presented for you:

400 Pendelton Way	No files
(R0723) 295 Hegenberger Rollins Trucking	Recently installed an underground diesel tank. Permit pending.
(R0220) 285 Hegenberger Bay Airport Shell	Leaking U.T. contaminated soil removed, groundwater remediation under way with quarterly reports.
(R0219) 449 Hegenberger Unocal	Has permit, Precision test 4/5/90

The above information is from our files only and does not contain information which may be available from other agencies or businesses which may be involved with these sites.

A copy of the invoice sent to our billing unit is enclosed.

If you have any questions, please call (415) 271-4320.

Sincerely,

Edgar B. Howell III, Chief
Hazardous Materials Division

EBH:mnc

cc: Files