

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



February 3, 1999

StID #3756

RO# 881 / RO# 2565

ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION (LOP)

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502-6577

(510) 567-6700

FAX (510) 337-9335

✓ Mr. Kyle Christie  
ARCO Products Co.  
P.O. Box 5077  
Buena Park, CA 90622-5077

**Re: ARCO Station 276, 10600 MacArthur Blvd., Oakland CA 94605**

Dear Mr. Christie:

This letter serves to update you on the County's review of the above site in regards to the both the petroleum and chlorinated hydrocarbon releases. In reference to the petroleum hydrocarbon release, our office is still reviewing internally the closure document. Because of the potential recommendation for closure for the petroleum release, our office agreed on putting groundwater monitoring on hold in late 1997.

In reference to the chlorinated solvent release, perchloroethylene (PCE), the Water Board policy does not allow closure of these sites where the solvent concentration exceeds MCLs. Because the source of the solvent has not been shown to be from off-site, a Risk Management Plan must be provided. This is required in spite of the fact that the prior submitted human health risk assessment showed that no human health risk exists under current site conditions. Limited long term monitoring for chlorinated solvents must be a part of the RMP.

As you may be aware, the adjacent Foothill Shopping Center; has a similar solvent problem. They have installed off-site monitoring wells and intend to demonstrate that natural bio-degradation of the solvent is occurring. It would seem reasonable that ARCO could use a similar approach if active remediation is not being considered. A monitoring plan concurrent with Foothill Shopping Square is advisable.

Please provide an acceptable risk management plan for the residual chlorinated solvent **within 45 days or by March 17, 1999**. In the meantime, our office will keep you updated on the potential closure of the petroleum release investigation.

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. G. VanderVeen, Pinnacle Environmental Solutions, 144-A Mayhew Way, Walnut Creek,  
CA, 94596

D. Lee, RWQCB, 1515 Clay St., Ste. 1400, Oakland CA 94612

Mr. R. Gilcrease, Drake Builders, 1616 23<sup>rd</sup> St., Galveston, TX 77550

RMP-10600

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



R02565

R02491

R0831

ENVIRONMENTAL HEALTH SERVICES

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

May 13, 1998

ATTN: Sir Or Madam

Barghausen Consulting Eng  
18215 - 72nd Ave. S.  
Kent WA 98032

RE: Project # 290B - Type R  
at 10600 Mac Arthur Blvd in Oakland 94605

Dear Property Owner/Designee:

Our records indicate the deposit/refund account for the above project has fallen below the minimum deposit amount. To replenish the account, please submit an additional deposit of \$380.70, payable to Alameda County, Environmental Health Services, within two weeks of receipt of this letter.

It is expected that the amount requested will allow the project to be completed with a zero balance. Otherwise, more money will be requested or any unused monies will be refunded to you or your designee.

The deposit refund mechanism is authorized in Section 6.92.040L of the Alameda County Ordinance Code. Work on this project will be debited at the Ordinance specified rate, currently \$94 per hour.

Please be sure to write the following identifying information on your check:

- project #
- type of project and
- site address

(see RE: line above).

If you have any questions, please contact Amir Gholami at (510) 567-6876.

Sincerely,

Tom Peacock, Manager  
Environmental Protection

c: files

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



R0831  
✓ R0 2565

R02491 (94C)  
RAFAT A. SHAHID, Assistant Agency Director

March 4, 1992

Mr. Chuck Carmel  
Arco Products Co.  
P. O. Box 5811  
San Mateo, CA 94402

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

Re: Arco Station # 276, 10600 MacArthur Blvd., Oakland, CA  
94605

Dear Mr. Carmel,

Alameda County Environmental Health Department, Hazardous Materials Division is in receipt of the several reports prepared by Resna Applied Geosystems (Resna) describing the installation of a proposed vapor extraction system (VES). The proposed system includes the installation of eight 4" vapor extraction wells to a depth of 30 feet. The extraction screen interval described is from 10 to 30 feet below ground surface.

The proposal to install an on site VES treatment which will tie in with the existing off site piping system will be approved upon the receipt of the following:

- 1) A Health and Safety (H&S) Plan prepared by the Contractor/Consultant who will install the treatment system. The H&S plan must specify the name of the site safety officer, medical facility (name address and phone number), site security measures and the monitoring and personal protective equipment available on site.
- 2) A Contingency Plan describing measures to be taken in the event of a system failure; such as pipe line leak or other system malfunction.

Last ground water data available to this office collected August 6, 1991 indicated the presence of floating product in mw-2 (analytical testing was not performed), 430 ppb of Total Petroleum Hydrocarbon as gasoline (TPHg) in mw-3, and 520 ppb TPHg and 1,700 ppb tetrachloroethene (TCE) were reported in mw-4.

You are required to submit a Work Plan to this office within 45 days of the receipt of this letter outlining a proposal which will delineate the on and off site extent of (both soil and groundwater) contamination caused by petroleum hydrocarbons and halocarbons.

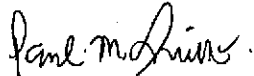
You are also required to submit a proposal for a ground water treatment system which will adequately treat petroleum hydrocarbon and chlorinated solvent problems currently identified at the site.

Mr. Carmel  
March 4, 1992  
page 2 of 2

You are requested to submit the fourth quarterly monitoring report to this Department for review, as of this date it still has not been received.

If you have any questions please call me at (510) 271-4320.

Sincerely,



Paul M. Smith  
Hazardous Materials Specialist

cc:

Kyle Christie, Arco Products Inc.  
Joel Coffman, Resna Applied Geosystems  
Dave Landry, Pacific Environmental Group, Inc.  
Eddy So, SFRWQCB  
Charlene Williams, DHS  
Mark Thomson, Alameda County District Attorney's Office of  
Consumer and Environmental Affairs

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



R02491 (suc)  
✓ R02565 (LOP)  
R0831 (LOP)

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

October 7, 1991

Mr. Chuck Carmel  
Arco Products Co.  
P. O. Box 5811  
San Mateo, CA 94402

Re: Arco Station # 276, 10600 MacArthur Blvd., Oakland, CA  
94605

Dear Mr. Carmel,

Alameda County Environmental Health Department, Hazardous Materials Division has received and reviewed the reports relevant to the existing off site vapor extraction system and outlining the proposed activities for the installation of an on site vapor treatment and also the installation of a ground water extraction well.

After review of the reports you are requested to have your consultant provide clarification on the following issues:

- 1) You are requested to provide a map indicating the locations of existing vapor extraction wells also indicating the locations of the proposed vapor and extraction wells. Please also provide a plumbing schematic indicating the locations of all piping connections into and out of the Remedi-cat treatment system.
- 2) Please provide this office with information indicating how the efficacy of the treatment system will be evaluated. Evaluation of the treatment system should include sampling at some specified frequency to evaluate the extraction from each vapor well or series of vapor wells of the same line.
- 3) You are requested to provide this office with some estimation of the anticipated length of time which both the off site and the on site system are expected to operate. Please also provide a description of how an effectively site will determined.
- 4) You are requested to indicate how the proposed system will prevent further migration of pollutant off site
- 5) It is my understanding that the existing system was installed by Pacific Environmental Group, Inc. (PEG) and the proposed system will be installed and operated by RESNA Applied Geosystems (AG). There is some concern by this office that there will be difficulty in

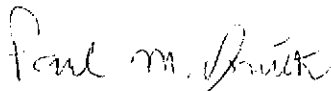
Chuck Carmel  
October 7, 1991  
page 2 of 2

coordinating the efforts of two consultants so that reports which are submitted for Agency review are intelligible. Please specify the measures which will be taken to integrate information from both consultants. The information in question includes: information relating to the details of the proposed treatment system, quarterly progress reporting and the evaluation of both the new and old system during operation and at the completion of the project and also any proposed ground water treatment proposals or reports.

The installation of a ground water recovery well (RW-1) portion of the Work Plan is acceptable. You are required to provide additional information as it becomes available regarding the feasibility of utilizing RW-1 for ground water treatment in an anticipated future Work Plan proposal for a ground water treatment system.

Should you have any questions pertaining to any of the above requests please contact me at 415/ 271-4320.

Sincerely,



Paul M. Smith  
Hazardous Materials Specialist

cc:

Joel Coffman, Applied Geosystems  
Dan Landry, Pacific Environmental Systems, Inc.  
Kyle Christie, Arco Products Inc.  
Lester Feldman, SFRWQCB  
Charlene Williams, DHS  
Gil Jensen, Alameda County District Attorney's Office

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



R02491 (SUC)  
✓ R02565 (LOP)  
R0831 (LOP)

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

August 7, 1991

Mr. Chuck Carmel  
Arco Products Co.  
P. O. Box 5811  
San Mateo, CA 94402

**Re: Arco Station # 276, 10600 MacArthur Blvd., Oakland, CA  
94605**

Dear Mr. Carmel,

Alameda County Environmental Health Department, Hazardous Materials Division has received and reviewed the latest Quarterly Ground water Monitoring Report dated July 11, 1991, the Work plan for Subsurface Investigation and Remediation and Addendum One to Work Plan, both dated June 27, 1991.

The latest quarterly ground water report for the five existing on site wells revealed the following information:

- 1) Analytical results collected from monitoring well (MW) MW-1 on February 1, 1990, revealed 91 ppb of Total Petroleum Hydrocarbons as gasoline (TPHg). Most recent results indicated <30 ppb TPHg and <0.30 ppb of benzene.
- 2) On February 1, 1991, MW-2 contained floating product. On 7/31/91 analytical results revealed 240,000 ppb of TPHg and 14,000 ppb of benzene, since that time no additional sampling has been conducted from MW-2.
- 3) On October 30, 1990 results taken from MW-3 indicated 340 ppb TPHg. Since that time no sampling has occurred in this well.
- 4) On April 30, 1991 MW-4 indicated 600 ppb TPHg and 2,200 ppb tetrachloroethene (PCE). On July 31, 1991 results indicated 1,600 ppb PCE, 7.5 ppb trichloroethene (TCE) and 0.7 ppb of 1,2-dichloroethene (DCE).
- 5) Sampling results collected from MW-5 on April 30, 1991 revealed 120 ppb of TPHg.

The work plans submitted recently to this office for review propose:

- 1) To drill additional soil borings to evaluate the lateral and vertical extent of contamination at the site
- 2) The preparation of a Feasibility Study addressing soil remediation and the installation of eight on site vapor extraction wells.

Mr. Carmel  
August 7, 1991  
page 2 of 3

- 3) The submittal of a work plan specifying construction plans and specifications for the above.
- 4) On site groundwater monitoring wells will be installed, developed and sampled as needed in order to delineate the lateral and vertical extent of ground water contamination.
- 5) Hydrologic tests will be conducted to evaluate the potential migration of contamination hydrocarbons.
- 6) The preparation of a Groundwater Remediation Feasibility Study in conjunction with a vapor extraction work plan as necessary.

At this point in time this office requests that you provide us with a report that describes the remediation measures that have been taken to date that have prevented further migration of all identified contaminants. This office requires a more complete proposed work plan which incorporates the following items:

- 1) All proposed activities are to be 'tasked out' with a committed time line for the initiation and completion of each task.
- 2) You are required to continue/ initiate interim measures to remove free floating product detected in any ground water wells and to conduct quarterly monitoring for each of the wells.
- 3) You are required to specify the locations of the proposed soil borings and the placement of on site wells and also to specify the contaminants sought.
- 4) Provide technical information regarding the design of the proposed on site treatment system and how the system will adapt to the existing off site vapor extraction system that has been installed by Pacific Environmental Group. You are also requested to provide any vapor influence data available on the proposed vapor system.
- 5) An earlier Kaldveer and Associates report (dated October 3, 1988) identified the presence of pesticides and polychlorinated bi-phenyls (PCBs) in soil and ground water. You are required to analyze for these constituents in soil and ground water and to determine the extent of contamination from these constituents.
- 6) You are required to provide specific information to this office outlining a design system for a ground water treatment system which will address the contamination of petroleum hydrocarbon and chlorinated solvents and any other contaminants identified at the above site.

You are required to provide this department with report within 30 days of the receipt of this letter addressing the information outlined above.

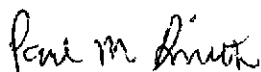


R02491  
✓ R02565  
R0831

Mr. Carmel  
August 7, 1991  
page 3 of 3

Should you have any questions pertaining to any of the above requests please contact me at 415/ 271-4320.

Sincerely,



Paul M. Smith  
Hazardous Materials Specialist

cc:

Kyle Christie, Arco Products Inc.  
Joel Coffman, Applied Geosystems  
Dave Landry, Pacific Environmental Group, Inc.  
Lester Feldman, SFRWQCB  
Charlene Williams, DHS  
Mark Thomsen, Alameda County District Attorney's Office of  
Consumer and Environmental Affairs

L.S.

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



R02491 (ALIC)  
✓ R02565 (LOP)  
R0831 (LOP)

April 20, 1990

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

Ms. Frances Hedrick  
Barghausen Consulting Engineers, Inc.  
4612 Roseville Road, Suite 103  
North Highlands, CA 95660

Dear Ms. Hedrick:

Our office has reviewed the installation plans for the ARCO Station 276, located at 10600 MacArthur Boulevard, Oakland. The following items must be addressed before we allow installation of the four tanks:

- Please provide a description of the siphon system for the two unleaded tanks, and clarify Items 18 and 19 on page TL-1.
- Indicate that the tank alarm system is wired to an independent circuit.
- Provisions are to be made for contacting Alameda County and Oakland Fire 48 hours prior to: tank installation; primary piping testing; secondary containment testing; and a final inspection of installation and alarm system.
- A precision test of the tank system is required prior to the business reopening, and the results are to be submitted to this office.
- As-builts are to be submitted to this office within 30 days of completion of the job.

Once we have received a response to these items, we can continue with the installation process. If you have any questions, please call Cynthia Chapman at 415/271-4320.

Sincerely,

Edgar B. Howell, III  
Chief, Hazardous Materials Division

cc: Rafat Shahid, Assistant Agency Director, Environmental Health  
Kyle Christie, ARCO  
Ariu Levi, Senior Hazardous Materials Specialist

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Director



Department of Environmental Health  
Hazardous Materials Program R02491 (SUC)  
80 Swan Way, Room 200  
Oakland, CA 94621 ✓R02565 (LOP)  
R0831 (LOP)

Telephone Number: (415) 271-4320

October 6, 1988

Arco Petroleum Products Co.  
c/o Ron Cadiz  
Crosby & Overton, EMI  
8430 Amelia Street  
Oakland, CA 94621

SUBJECT: Underground Tank Closure, 10600 MacArthur Blvd.,  
Oakland, CA 94605

Dear Mr. Cadiz:

This is to inform you that the original deposit of \$300.00, has been expended and an additional \$300.00 deposit is now required. Please be aware that, depending on the sample analysis results from the above site and possible future site mitigation activities, additional deposits may be necessary in the future.

Should you have any questions concerning this matter, please contact, Mary Jo Meyers-Barnes, Hazardous Materials Specialist, at 271-4320.

Sincerely,

*for Edgar B. Howells*  
Rafat A. Shahid, Chief,  
Hazardous Materials Program

RAS:MJM:mnc

cc: Arco Petroleum Producers  
Mary Jo Meyers-Barnes  
Files