

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R01070

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

July 28, 1993

Sumadhu Arigala
RWQCB, S.F. Bay Region
2101 Webster St., Ste 500
Oakland, CA 94612

STID 3735

Re: The site located at ⁸³⁴ 848 Blossom Way, Hayward, California

RECOMMENDATION FOR UST CASE CLOSURE

Dear Mr. Arigala,

This office has reviewed the files for this site and has come to the conclusion that this site can be recommended for closure.

Three underground storage tanks (USTs) were formerly located at the site: one 500-gallon diesel UST, and one 500-gallon and one 1,000-gallon gasoline UST.

On May 15, 1991, soil samples were collected from the native soil beneath the three former USTs at the site from depths ranging from 7 to 12.5 feet. These samples exhibited elevated concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline and diesel as high as 24,000 parts per million. Further excavation was conducted of the tank pit and two additional soil samples were collected from the areas in the tank pit that had exhibited the highest levels of contamination. These soil samples were collected from a depth of approximately 15 feet. Analysis of these two samples did not identify any contaminants above detection limits. The excavated soil was stockpiled on site, sampled, and later disposed of off-site (Please refer to the attached report, "Remediation and Disposal of Stockpiled Contaminated Soil"). The tank pit was left open and secured by a fence.

In June 1992, this office requested that the site conduct some further investigations to confirm that all the contaminated soil had been removed, and to determine whether ground water had been impacted.

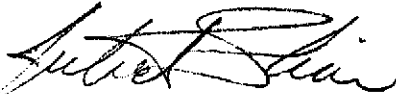
In March 1993, a soil boring was drilled at the northeast corner of the excavation, which formerly contained most or all of the soil contamination. An Alameda County Hazardous Materials Specialist, Juliet Shin, was out at the site to oversee this

Sumadhu Arigala
Re: 834 Blossom Way
July 28, 1993
Page 2 of 2

work. Soil samples were collected at 5-foot depth intervals and screened with an organic vapor meter. Four soil samples and one ground water grab sample was collected from the boring. No stains or odors were noted in any of the soil samples. Ground water was encountered at about 36.5 feet below ground surface. Due to some difficulty with recharge, the boring was advanced to 45 feet below ground surface before a ground water grab sample was collected. No floating product or sheen was noted. (Please refer to attached "Soil Boring" Report for further details and boring log). The soil and ground water samples were analyzed for TPHd, TPHg, and BTEX. All analytical results of the soil and ground water grab samples were nondetectable.

Please review the attached information and notify this office as to whether RWQCB concurs with the recommendation. If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,



Juliet Shin
Hazardous Materials Specialist

cc: Edgar Howell-File(JS)

ALAMEDA COUNTY
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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

March 5, 1993

Mr. George Haywood
132 Ivy Drive
Orinda, CA 94563

STID 3735

Re: The Soil Boring Work plan for 834 Blossom Way, Hayward,
California

Dear Mr. Haywood,

This office has received and reviewed Tank Protect Engineering's work plan, dated February 24, 1993, and finds this plan acceptable. Per my conversation with Mr. John Mrakovich, Tank Protect Engineering, on March 5, 1993, the boring will be placed five feet from the boundary of the tank pit. Mr. Mrakovich stated that the samples collected from the boring will be analyzed at one of the following Department of Health Services certified laboratories:

- o Trace Analysis, Hayward
- o Sequoia, Concord
- o S & W, Santa Cruz

Field work must begin within 60 days of the date of this letter. A report documenting the work shall be submitted within 45 days after the completion of field work.

Please notify me 48 hours prior to implementing the work. If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,


Juliet Shin
Hazardous Materials Specialist

cc: Sumadhu Arigala, RWQCB

Mr. George Haywood
Re: 834 Blossom Way
March 5, 1993
Page 2 of 2

John V. Mrakovich, Ph.D.
Tank Protect Engineering
2821 Whipple Rd.
Union City, CA 94587

Betty Chaves
848 Blossom Way
Hayward, CA 94541

Edgar Howell-File(JS)

Mr. George Haywood
Re: 834 Blossom Way
March 5, 1993
Page 2 of 2

John V. Mrakovich, Ph.D.
Tank Protect Engineering
2821 Whipple Rd.
Union City, CA 94587

Betty Chaves
848 Blossom Way
Hayward, CA 94541

✓ Edgar Howell-File(JS)

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HEALTH CARE SERVICES
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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

January 29, 1993

Mr. George Haywood
132 Ivy Drive
Orinda, CA 94563

STID 3735

RE: Bioremediation work plan for ⁸³⁴848 Blossom Way, Hayward, CA

Dear Mr. Haywood,

This office has received Tank Protect Engineering's work plan, dated January 25, 1993, for the bioremediation of the stockpiled soil at the above site. This plan is acceptable to this office. It is the understanding of this office that this work plan will be implemented within the next 7 weeks.

Thank you for your cooperation. If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,


Juliet Shin
Hazardous Materials Specialist

cc: Sumadhu Arigala, RWQCB

John V. Mrakovich, Ph.D.
Tank Protect Engineering
2821 Whipple Rd.
Union City, CA 94587

Betty Chaves
848 Blossom Way
Hayward, CA 94541

Edgar Howell-File(JS)

ALAMEDA COUNTY
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DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

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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

January 26, 1993

Mr. George Haywood
132 Ivy Drive
Orinda, CA 94563

STID 3735

RE: Required investigations at 834 Blossom Way, Hayward,
California

Dear Mr. Haywood,

Per our past discussions on the phone and in person, in lieu of a full-blown ground water investigation, you are required to conduct further investigations to determine the depth to ground water at your site and the soil types in the vadose zone, in order for the County to determine whether past soil contamination may have impacted the ground water. One option for these required investigations, as previously discussed, was to place a boring at the site, near the former soil contamination resulting from the tanks, collecting soil samples every 5 feet, down to a depth of 45 to 50 feet or first ground water. A minimum of two soil samples from the boring are to be analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline, TPH as diesel, and benzene, toluene, xylenes, and ethyl benzene, using approved analysis methods.

If ground water is not identified at or above 50 feet below ground surface, and the analysis of soil samples do not identify contamination, then this office may not require further investigations at the site. However, if ground water is observed above 50 feet below ground surface, then a ground water grab sample must be collected and analyzed for the above constituents. If analysis of this ground water sample, along with the soil samples, do not identify any contamination, then this office will consider this site for closure.

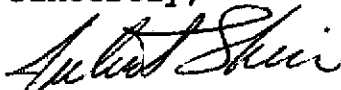
A work plan for the above required work is due to this office within 60 days of the date of this letter. Field work should commence within 60 days of the receipt of this letter. A report documenting the results from work performed is due to this office within 45 days of completing field activities.

Please be reminded to copy Sumadhu Arigala, at the San Francisco Bay Region-Water Quality Control Board, on all correspondence and reports regarding this site.

Mr. George Haywood
RE: 834 Blossom Way
Page 2 of 2
January 26, 1993

If you have any questions or comments, please contact me at (510)
271-4530.

Sincerely,



Juliet Shin
Hazardous Materials Specialist

cc: Sumadhu Arigala, RWQCB

John Mrakovich
Tank Protect Engineering
2821 Whipple Rd.
Union City, CA 94587

Edgar Howell-File(JS)

ALAMEDA COUNTY
HEALTH CARE SERVICES

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DAVID J. KEARS, Agency Director



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RAFAT A. SHAHID, Assistant Agency Director

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

June 19, 1992

George Haywood
132 Ivy Drive
Orinda, CA 94563

STID 3735

RE: Requirement for Investigation of Soil Contamination from
Former Fuel Storage Tanks at 848 Blossom Way, Hayward 94541

834

Dear Mr. Haywood,

On May 15, 1991, soil samples were collected from the native soil beneath the three former underground storage tanks (USTs) at the site from depths ranging from 7 to 12.5 feet. These samples exhibited elevated concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline and diesel as high as 24,000 parts per million. Further excavation was conducted of the tank pit and two additional soil samples were collected from the areas in the tank pit that had exhibited the highest levels of contamination. These soil samples were collected from a depth of approximately 15 feet. Analysis of these two samples did not identify any contaminants above detection limits. Although the contaminated soil appears to have been removed from the site, this office is concerned that the former soil contamination may have impacted groundwater beneath the site.

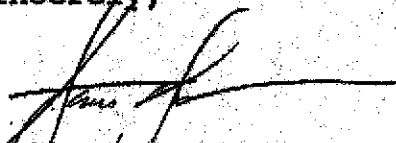
On January 30, 1992, this office sent you a letter requesting that you investigate the depth to groundwater and soil types beneath the site to determine whether groundwater investigations would be required. This office has not yet received a response from you.

You are required to submit the above information to this office within 30 days of the receipt of this letter. Additionally, this office has no record of the fate of the excavated soil that was found to be contaminated. Please send information regarding the disposal or aeration of this soil.

Mr. George Haywood
RE: 848 Blossom Way
June 19, 1992
Page 2 of 2

If you have any questions or comments please contact Ms. Juliet
Shin at (510) 271-4320.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Eddy So, RWQCB
James Ferdinand, Eden Consolidated Fire Dept.
Mark Thompson, Alameda County District Attorney's Office
Edgar Howell-File (JS)

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R01070

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

January 30, 1992

George Haywood
132 Ivy Dr.
Orinda CA 94563

**RE: Requirement for Investigation of Soil Contamination from Former
Fuel Storage Tanks at 848 Blossom Way, Hayward 94541**

Dear Mr. Haywood:

I have reviewed the results of soil sampling for your site. As we have discussed previously, the petroleum contamination found beneath the former tank location requires further investigation. The gasoline and diesel constituents pose a potential threat to groundwater beneath your site.

You are required to investigate the depth to groundwater to determine whether groundwater monitoring well installation is required at your property. Should your survey show that shallow groundwater is present, or that due to other site conditions groundwater may be at risk, a minimum of three groundwater monitoring wells will be required onsite for your investigation. Wells must be sampled and samples chemically analyzed monthly for a minimum of three months. After three consecutive months of sampling, all monitoring wells must be sampled at least quarterly for a minimum of one year. You must monitor and chemically analyze for Total Petroleum Hydrocarbons as gasoline and diesel as well as benzene, toluene, ethyl benzene, and xylene (BTEX). Depth to groundwater and groundwater gradient must be determined and reported.

A technical report must be submitted within three months of the time that the first sampling results are available. This report must present and interpret the information generated during the initial subsurface investigation. All reports and proposals must be signed by a qualified person. All work must be performed according to the guidelines found in the **Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks** and the **Leaking Underground Fuel Tank Manual**. Copies of these documents can be obtained from the RWQCB office in Oakland. All proposals, reports, and analytical results pertaining to this investigation and site remediation must be sent to this office and to:

Eddy So
RWQCB
2101 Webster St., 4th Floor
Oakland CA 94612

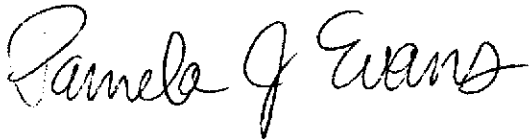
George Haywood
January 30, 1992
Page 2 of 2

Your work plan must, at a minimum, address the items listed on Attachment 1 (enclosed). I strongly recommend that you submit your work plan for review to this office **before** beginning work at the site.

Please fill out and return the enclosed Unauthorized Release Report to this office by February 10, 1992.

For your information, Alameda County has entered into a contract with the State Water Resources Control Board to oversee site investigations and clean ups resulting from underground tank leaks. I plan to transfer your case to this program, so you will be receiving official notification soon. You may contact me with any questions at (510)271-4320.

Sincerely,



Pamela J. Evans
Hazardous Materials Specialist

Enclosures

c: Eddy So, RWQCB
James Ferdinand, Eden Consolidated Fire Protection District

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R01070

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

August 7, 1991

George Haywood
132 Ivy Dr.
Orinda CA 94563

**RE: Requirement for Soil and Groundwater Investigation at Former
Underground Fuel Tank Storage Site
848 Blossom Way
Hayward CA 94541**

Dear Mr. Haywood:

On May 15, 1991 follow up soil sampling was carried out at the above referenced property in conjunction with the removal of three underground tanks. Total Petroleum Hydrocarbon (TPH) constituents found beneath the excavated gasoline tanks were as high as 24,000 parts per million (ppm) in native soil. Whenever TPH concentrations exceed 100 ppm in undisturbed native soil in an area of shallow groundwater, as is the case at your site, Regional Water Quality Control Board guidelines require a follow up groundwater investigation.

You are required to investigate the full depth and lateral extent of petroleum contamination affecting soil and groundwater at and beyond your site. Soil contamination must be investigated and remediated. On August 1, 1991, we discussed the steps that must be taken to remediate contaminated soil.

Groundwater contamination must also be investigated. At a minimum, you must install three groundwater monitoring wells onsite. You must sample for depth to groundwater as well as for floating petroleum product and dissolved gasoline constituents. These constituents include Total Petroleum Hydrocarbons as gasoline and diesel (TPHg and TPHd) and benzene, toluene, ethyl benzene, and xylene (BTEX). Wells must be sampled monthly for a minimum of three months. Afterwards, all monitoring wells must be sampled at least quarterly for a minimum of one year. We require that you submit a work plan that outlines the manner in which subsurface contamination will be investigated and that includes a timetable for completion. **You must submit this work plan by October 15, 1991.**

All work must be performed according to the Regional Water Quality Control Board guidelines, which can be found in the **Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, August 1990.** Copies of this document can be obtained from RWQCB.

George Haywood
RE: 848 Blossom Way, Hayward
August 7, 1991
Page 2 of 2

A groundwater gradient map must be developed for the site. A technical report must be submitted within three months of the time that the first sampling results are available. This report must present and interpret the information generated during the initial subsurface investigation.

All reports and proposals must be signed by a California-Certified Engineering Geologist, California-Registered Geologist, or a California-Registered Civil Engineer. All proposals, reports, and analytical results pertaining to this investigation and site remediation must be sent to this office and to:

Eddie So
RWQCB
2101 Webster St., 4th Floor
Oakland CA 94612

You must also complete and return an Underground Storage Tank Contamination Site Report by September 15, 1991. I have enclosed a form.

You may contact me with any questions at 271-4320.

Sincerely,

Pamela J. Evans
Hazardous Materials Specialist

Enclosure

c: Eddie So, RWQCB

ALAMEDA COUNTY
HEALTH CARE SERVICES

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DAVID J. KEARS, Agency Director



RO1070

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

August 7, 1991

George Haywood
132 Ivy Dr.
Orinda CA 94563

**RE: Requirement for Soil and Groundwater Investigation at Former
Underground Fuel Tank Storage Site
848 Blossom Way
Hayward CA 94541**

Dear Mr. Haywood:

On May 15, 1991 follow up soil sampling was carried out at the above referenced property in conjunction with the removal of three underground tanks. Total Petroleum Hydrocarbon (TPH) constituents found beneath the excavated gasoline tanks were as high as 24,000 parts per million (ppm) in native soil. Whenever TPH concentrations exceed 100 ppm in undisturbed native soil in an area of shallow groundwater, as is the case at your site, Regional Water Quality Control Board guidelines require a follow up groundwater investigation.

You are required to investigate the full depth and lateral extent of petroleum contamination affecting soil and groundwater at and beyond your site. Soil contamination must be investigated and remediated. On August 1, 1991, we discussed the steps that must be taken to remediate contaminated soil.

Groundwater contamination must also be investigated. At a minimum, you must install three groundwater monitoring wells onsite. You must sample for depth to groundwater as well as for floating petroleum product and dissolved gasoline constituents. These constituents include Total Petroleum Hydrocarbons as gasoline and diesel (TPHg and TPHd) and benzene, toluene, ethyl benzene, and xylene (BTEX). Wells must be sampled monthly for a minimum of three months. Afterwards, all monitoring wells must be sampled at least quarterly for a minimum of one year. We require that you submit a work plan that outlines the manner in which subsurface contamination will be investigated and that includes a timetable for completion. You must submit this work plan by October 15, 1991.

All work must be performed according to the Regional Water Quality Control Board guidelines, which can be found in the Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, August 1990. Copies of this document can be obtained from RWQCB.

George Haywood
RE: 848 Blossom Way, Hayward
August 7, 1991
Page 2 of 2

A groundwater gradient map must be developed for the site. A technical report must be submitted within three months of the time that the first sampling results are available. This report must present and interpret the information generated during the initial subsurface investigation.

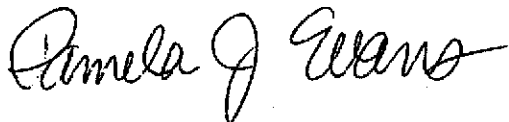
All reports and proposals must be signed by a California-Certified Engineering Geologist, California-Registered Geologist, or a California-Registered Civil Engineer. All proposals, reports, and analytical results pertaining to this investigation and site remediation must be sent to this office and to:

Eddie So
RWQCB
2101 Webster St., 4th Floor
Oakland CA 94612

You must also complete and return an Underground Storage Tank Contamination Site Report by September 15, 1991. I have enclosed a form.

You may contact me with any questions at 271-4320.

Sincerely,



Pamela J. Evans
Hazardous Materials Specialist

Enclosure

c: Eddie So, RWQCB

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RO1070

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

March 18, 1991

George Heywood
132 Ivy Dr.
Orinda CA 94563

RE: Fuel Storage Tanks at 848 Blossom Way, Hayward 94541

Dear Mr. Heywood:

On February 21, 1991, I visited the above referenced site and noted that four fuel storage tanks were being stored in the rear fenced area. Three of the tanks were caked with dirt and bore a number of visible holes.

I spoke to you on at least two occasions shortly after my site visit between February 21 and 25. You gave the following history of tank use and removal: Two of the tanks were excavated two years ago from a pit at the end of the drive near the L shaped garage. These two tanks had held diesel and gasoline fuel and had not been operated in over 20 years. The diesel tank held about 1000 gallons, and the gasoline tank about 500 gallons. Once removed, these tanks were each filled with approximately 200 gallons of water. A third tank had been onsite since the 1940s. It was excavated sometime between 1940 and the 1950s, when the other two tanks were installed. The fourth tank at the site had not been stored below ground and had been used by a tenant, Tallman Construction, to store a petroleum product.

You also stated that you had already obtained a hazardous waste generator's ID number (CAC000569168) and had contacted a hazardous waste hauler to remove the tanks from the site. On March 7, 1991, I was informed by Vern Brooks of Eden Consolidated Fire District that he had been present when tanks were removed from the property that morning.

As you are now aware, this office requires that underground fuel tank owners submit a closure plan prior to tank removal. Although the tanks were removed without this agency's oversight, you must nevertheless investigate soil and groundwater contamination in the vicinity of the former tank pit. At a minimum, you must undertake the following steps in order to investigate possible soil and groundwater contamination at your site:

1. Take a representative number of soil, and if groundwater is present in the bottom of the tank pit, groundwater samples from the bottom of the former tank pit. You will need to determine the depth of the former tank pit, and must

George Heywood
848 Blossom Way
March 18, 1991
Page 2 of 3

take at least four soil samples. Soil and groundwater samples must be chemically analyzed for petroleum fuel constituents.

2. The fill soils from the former tank pit must also be investigated for possible contamination if these soils were retained on site after the tank excavation. If they were removed from your site, you must provide information about their disposal.

3. Describe the length and routing of pipes associated with the tanks.

4. Because the excavated tanks were stored onsite for two years and filled with water, the soil in the storage area is likely to have been contaminated. You must sample the soil beneath where these tanks rested.

5. Report any evidence of contamination to this office within 5 days of discovery. The report must be made on an Underground Storage Tank Unauthorized Leak/Contamination Report. A blank copy is enclosed.

You must submit a written workplan that describes how you will investigate possible fuel contamination in the vicinity of the former tank pit and in the tank storage area. Submit this workplan, including a timetable for completion of each step, by April 30, 1991. Any extensions of deadlines set forth in this letter or those set forth in your timetable and accepted by this office must be approved in advance and confirmed in writing.

All work must be carried out according to the guidelines set forth in the document titled "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites". You may obtain a copy of this document through the Regional Water Quality Control Board by calling (415)464-1269. All reports and proposals must be signed and stamped by a California-Certified Engineering Geologist, California-Registered Geologist, or a California-Registered Civil Engineer.

This Division is working in conjunction with the San Francisco Bay Regional Water Quality Control Board. This is a formal request for technical reports pursuant to California Water Code Section 13267 (b). All workplans, proposals, reports, and analytical results must be sent to this office and to:

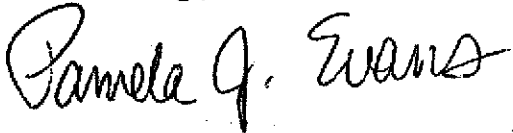
George Heywood
848 Blossom Way
March 18, 1991
Page 3 of 3

Richard Hiett
RWQCB, San Francisco Bay Region
1800 Harrison St., Suite 700
Oakland CA 94612

To cover this agency's costs for investigation review, you must submit a fee of \$642.00 to this office.

You may contact me with any questions at (415)271-4320.

Sincerely,



Pamela J. Evans
Hazardous Materials Specialist

Enclosure

c: Richard Hiett, RWQCB
Howard Hatayama, Department of Health Services
James Ferdinand, Eden Consolidated Fire Protection District