

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

RO#1130

June 30, 1997
StID # 3685

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

Mr. Joseph Cotton
City of Oakland, Public Works
Environmental Services Division
Oakland, CA 94612

Re: Closure of Monitoring Wells at Fire Station #29, 1016 66th
Ave., Oakland CA 94621

Dear Mr. Cotton:

This letter is to inform you that our office has received concurrence from the Regional Water Quality Control Board (RWQCB) on our recommendation for site closure for the above referenced property. Prior to issuance of the Remedial Action Completion Certificate (RACC) we must receive documentation of the proper closure of the four monitoring wells at the site. As an alternative, the RP may also provide a written statement indicating what type of regular inspection and safety precautions will be taken to insure the integrity of the existing wells.

Please notify me of your intentions in regards to the wells so I may facilitate site closure. Well closure permits and requirements may be obtained by contacting the Alameda County Water District, Zone 7 at (510) 484-2600.

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

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

c: B. Chan, files

MWCL1016

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

201130

January 22, 1997
StID # 3685

Mr. Joseph Cotton
City of Oakland
Environmental Services Division
1333 Broadway, Suite 330
Oakland CA 94612

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

NOTICE OF VIOLATION

Re: Firehouse #29, 1016 66th Ave., Oakland CA 94621

Dear Mr. Krohn:

In response to my July 19, 1996 letter to Mr. Clark-Clough, I received a copy of analytical results from Ms. Graciela Valero of your office on 8/21/96. In addition, I have spoken with you since this time in regards to my referenced letter. It appears that you have still failed to address all the concerns of this letter. Specifically, item 1 requested copies of all reports exclusive of two mentioned. Although the two reports summarize soil and groundwater sampling and monitoring well installations, they do not provide the locations of subsequent soil and groundwater samplings after the initial tank removal. Receipts for the disposal of stockpiled soils are also missing as are groundwater monitoring reports beyond the initial results in 2/91 and 4/91. Item 2 requested resumption of groundwater monitoring in the existing wells by August 21, 1996. To date, our office has not received any additional monitoring reports.

Please submit a quarterly groundwater monitoring report and any additional information **within 30 days or by February 24, 1997**. Please be advised this is a request for technical reports pursuant to the Water Code section 13267 (b) and the California Health and Safety Code sections 25299.37 and 25299.78. Failure to submit the requested information may subject you to civil liability.

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

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

c: L. Griffin, 421 14th St., Rm 201, Oakland CA 94612
B. Chan, files novfh29

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



DAVID J. KEARS, Agency Director

201130 ✓

July 19, 1996
StID # 3685

Mr. Andrew Clark-Clough
City of Oakland
Office of Public Works
1333 Broadway, Suite 300
Oakland CA 94614

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

Re: Firehouse #29, 1016 66th Ave., Oakland CA 94621

Dear Mr. Clark-Clough:

In regards to the former gasoline/diesel underground tank at the above referenced location, the County's information regarding the subsurface investigation of the above site is limited to field notes and two reports from Blymyer Engineers, Inc.; the December 29, 1990 Preliminary Site Assessment Phase I Subsurface Investigation Workplan and the May 7, 1991 Preliminary Site Assessment Phase I Subsurface Investigation.

In an effort to evaluate this site as a potential "low risk" groundwater case and move the site towards closure, our office requests the following:

1. Please submit all other technical reports, exclusive of the two mentioned above, for this underground tank. This should include a tank closure report, monitoring well installation reports, quarterly monitoring reports et al.
2. Please reinstitute groundwater monitoring of the existing wells. I assume that the four (4) wells at the site still exist and are viable. Please analyze each well for TPHg,d and BTEX. Following an initial monitoring event, you may choose to recommend a strategy for closure.

Please submit any additional technical reports and resample the existing wells **within 30 days or by August 21, 1996**. Please call me at (510) 567-6765 for comments or questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

c: G. Coleman, files
rep1016

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Director



R01130

Telephone Number: (415)

Certified Mail #P 062 127 860

July 10, 1990

Tim Murray
City of Oakland
7101 Edgewater Drive
Oakland, CA 94621

Subject: Unauthorized Release
Underground Fuel Tank Removal
Fire House #29
1016 66th Ave.
Oakland, CA 94621

Dear Mr. Murray:

Thank you for submitting the results for analysis of subsurface soil samples taken in response to the underground tank removal from the above shown facility. Because of the degree of contamination found, this facility is considered to have experienced a confirmed release of petroleum hydrocarbons that has impacted subsurface soil and possibly ground water. The extent of this contamination must be assessed and remediated.

Our office will be the lead agency overseeing both the soil and groundwater remediation of this site. The Regional Water Quality Control Board (RWQCB) is currently unable to oversee the large number of contamination cases within Alameda County and has delegated the handling of this case to our Division. We will be in contact with the RWQCB in order to provide you with guidance concerning the RWQCB's remediation requirements. However, please be aware that you are responsible for diligent actions to protect waters of the State.

The RWQCB have, in Guidance Documents, defined the reporting requirements that must be met for eventual site sign off. Complete site work documentation must address all the following points.

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I. Introduction

- A. Statement of scope of work
- B. Site map showing location of existing and past underground storage tanks
- C. Site History
 - provide historical site use and ownership information. Include a description of types and locations of hazardous materials used on site.

II. Site Description

- A. Vicinity description including hydrogeologic setting
- B. Initial soil contamination and excavation results
 - provide sampling procedures used
 - indicate depth to ground water
 - describe soil strata encountered
 - provide soil sampling results, chain of custody forms, identity of sampler
 - describe methods for storing and disposal of all soils

III. Plan for determining extent of soil contamination on site

- A. Describe approach to determine extent of lateral and vertical contamination
 - identify subcontractors, if any
 - identify methods or techniques used. As examples:
 - a) if a soil gas study is conducted include information on probe depths and slotting length, performance standards, & quality control measures including state certified lab analysis of samples.
 - b) if soil borings are conducted, provide information on boring placement, soil sample analysis, and boring logs.
 - c. if contamination is chased following an excavating step out procedure, provide field readings, if available, of side wall soil contamination.
 - provide sampling maps showing all lines of excavation and sampling points
 - provide chain of custody forms, lab analysis results, all receipts and manifests, identity of sampler
- B. Describe method and criteria for screening clean versus contaminated soils. Describe sampling procedure that confirms the "clean" soil is uncontaminated.

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C. Describe security measures

IV. Disposition of Stockpiled Soils

Several alternatives exist for properly disposing of excavated soils impacted by leaking underground tanks. Depending on the concentration of TPH g or d or TOG within the waste, land disposal to a Class I, II, or III facility may be allowed. On site treatment of petroleum contaminated soils can occur, with proper permitting by the correct regulatory agencies (SDHS, BAAQMD, RWQCB) with the concentration of petroleum waste being the factor that determines what permits will be required. Onsite re-use of petroleum contaminated soils is also allowed under a strict set of conditions. In general, onsite reuse of petroleum contaminated soils requires the submittal of a Report of Waste Discharge pursuant to Section 13260 (a) of the California Water Code, and the application for a Waste Discharge Requirements (WDR). The SFRWQCB can waive the WDR provided site specific conditions allow it, and the disposal is consistent with 23CCR, Subchapter 15 requirements. For stockpiled soils with a TPH or TOG concentration of ND to 10ppm, though, the SFRWQCB may allow on site disposal with out the need for a WDR or Subchapter 15 considerations. Verification of stockpile concentration of ND to 10ppm must be conducted by discrete sampling at the rate of one sample per 20 cubic yards. The disposition of all stockpiles must be addressed in a workplan.

A. If contaminated stockpile soil aeration or bioremediation is to be utilized, then provide a work plan that includes:

- volume and rate of aeration/turning
- method of containment and cover
- confirmatory sampling procedure to verify acceptable levels of TPH or TOG for intended method of disposal.
- permits obtained

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IV. Plan for determining ground water contamination

- Construction and placement of wells should adhere to the requirements of the "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks". Provide a description of placement and rationale for the location of monitoring wells including a map to scale.
- The placement and number of wells must be able to determine the extent and magnitude of the free product and dissolved product plumes.

A. Drilling method for construction of monitoring wells

- expected depth and diameter of monitoring wells
- date of expected drilling
- casing type, diameter, screen interval, and pack and slot sizing techniques
- depth and type of seal
- development method and criteria for adequacy of development
- plans for cuttings and development water

B. Ground water sampling plan

- method for free product measurement, observation of sheen
- well purging procedures
- sample collection procedures
- chain of custody procedures
- procedures for determining ground water gradient

D. Sampling schedule

- measure free product weekly for first month following well installation
- measure free product and dissolved constituents monthly for first three months.
- after first three months monitor quarterly.
- monitoring must occur a minimum of one year.

V. Provide a site safety plan

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VI Development of a Remediation Plan.

- A. The remediation plan is to include a time schedule for remediation, and, at minimum, must address the following issues:
- removal of all free product. Manual bailing is not acceptable as a recovery system. Actual amount of free product removed must be monitored and tabulated.
 - remediation of contaminated soils and dissolved constituents must follow RWQCB's resolution No. 68-16.
 - soils containing 1,000+ ppm of hydrocarbons must be remediated. Soils containing between 100 and 1,000 ppm must be remediated unless sufficient evidence is provided which indicates no adverse effects on groundwater will occur. Clean up of soils to 100 ppm is strongly recommended.
 - design of remedial action system should be based on a review of hydrogeologic and water quality data and on an evaluation of mitigation alternatives. The determination of probable capture zone(s) of extraction system(s) should be based on aquifer characteristics as determined by aquifer test data.

VII Reporting

- A. Technical reports should be submitted with a cover letter from the City of Oakland. The letter must be signed by an authorized representative of the the City of Oakland.
- B. Monthly reports must be submitted for the next three months with the first report due 90 days from the above letter date.
- C. Quarterly reports must be submitted with the first report due 90 days after the final monthly report. These reports should describe the status of the investigation and cleanup.
- D. All reports and proposals must be signed by a California-Certified Engineering Geologist, California Registered Geologist or a California-Registered Civil Engineer (see page 2, 2 June 1988 RWQCB document).

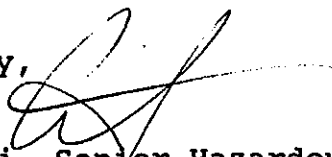
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A statement of qualifications should be included in all reports. Initial tank removal and soil sampling does not require such expertise; however, borehole and monitoring well installation and logging, and impact assessments do require such a professional.

All proposals, reports and analytical results pertaining to this investigation and remediation must be sent to our office and RWQCB. You should be aware that this Division is working in conjunction with the RWQCB and that this is a formal request for technical reports pursuant to California Water Code Section 13267 (b).

Should you have any questions concerning the contents of this letter or the status of this case please feel free to contact me.

Sincerely,



Ariu Levi, Senior Hazardous Materials Specialist
Alameda County Environmental Health Department

cc: Gil Jensen, Alameda County District Attorney, Consumer
Environmental Protection
Rafat Shahid, Assistant Agency Director
Lester Feldman, SFRWQCB
Howard Hatayama, DOHS
Inspector Halyard, OFD
Files