

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



12-12-01

RO0000188

December 11, 2001

Mr. George Muniz  
Livermore Valley Joint USD  
685 East Jack London Blvd  
Livermore, CA 94550

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

RE: QMR and SCM for 2900 Ladd Avenue, Livermore, CA

Dear Mr. Muniz:

I have completed review of Engeo Inc.'s November 2001 *Report on Groundwater Sampling* prepared for the above referenced site. In October 2001, groundwater from well MW-5 was sampled and analyzed for TPHg, BTEX and MTBE constituents. Laboratory analytical results identified elevated concentrations of all analytes sought, with the exception of MTBE.

At this time, please continue with quarterly monitoring of well MW-5 and semi-annual monitoring of the remaining wells. Quarterly monitoring reports (QMRs) are due within 60 days upon completion of field activity.

It is also appropriate at this time to prepare a Site Conceptual Model (SCM) for the site. The SCM describes the release scenario, surrounding land use, geology, well locations, and the likely distribution of chemicals at the site, existing and projected water use patterns, among others. After the source area and pathways to receptors have been adequately characterized, an appropriate remedial alternative can be selected and implemented. Please refer to the RWQCB's *Final Draft Guidelines for Investigation and Cleanup for MTBE and Other Ether-Based Oxygenates*. That document can be downloaded from the RWQCB's website.

If you have any questions, I can be reached at (510) 567-6762.

eva chu  
Hazardous Materials Specialist

email: Shawn Munger

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



11-27-01

RO0000188

November 26, 2001

Mr. Will Macedo  
Livermore Valley Joint Unified school District  
685 East Jack London Street  
Livermore, CA 94550

**RE: QMRs for 2900 Ladd Avenue, Livermore, CA**

Dear Mr. Macedo:

This office is not in receipt quarterly groundwater monitoring reports since August 2000. Currently, the above referenced site should be on a quarterly monitoring schedule for well MW-5 and on a semi-annual basis for the other remaining wells. Please adhere to the above schedule until further notice. Reports of sampling which should have taken place in 4<sup>th</sup> quarter 2000 and 1<sup>st</sup> and 2<sup>nd</sup> quarters 2001 are due within 15 days of the date of this letter, or by **December 14, 2001**.

Title 23 of the California Code of Regulations (23CCR), Section 2652(d), requires the owner or operator of an UST facility to submit reports every three months, or at a more frequent interval as specified by the local agency or regional water board, until investigation and cleanup are complete. This is a formal request for technical reports pursuant to Title 23, CCR, Section 2722(c). Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by this agency.

If you have any questions, I can be reached at (510) 567-6762.

eva chu  
Hazardous Materials Specialist

email: Shawn Munger

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



SENT 5-3-2000  
Inheld-cc's

20188

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

StID 3095

May 3, 2000

Mr. Will Macedo  
Livermore Valley Joint Unified School District  
685 East Jack London Street  
Livermore, CA 94550

**RE: Work Plan Approval for 2900 Ladd Avenue, Livermore, CA**

Dear Mr. Macedo:

I have completed review of ENGEO's March 2000 *Work Plan for Ground-Water Monitoring Well Construction*, prepared for the above referenced site. The proposal to install a "shallow" groundwater monitoring well immediately downgradient of Well MW-2 is acceptable. Field work should commence within 60 days of the date of this letter, or by **August 7, 2000**. Please notify this office at least 72 hours prior to the start of field work.

If you have any questions, I can be reached at (510) 567-6762.

eva chu  
Hazardous Materials Specialist

email: Shawn Munger ([engstaff@engeo.com](mailto:engstaff@engeo.com))

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



Sent 11-23-99  
Including cc's

20188

ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
(510) 567-6700  
(510) 337-9432

StID 3095

November 23, 1999

Mr. Dick Alford  
Livermore USD  
685 E Jack London Blvd  
Livermore, CA 94550

**RE: Additional Groundwater Monitoring Well for 2900 Ladd Avenue,  
Livermore, CA**

Dear Mr. Alford:

In August 1992, when three underground storage tanks were removed from the maintenance yard located at the above referenced address, hydrocarbon-impacted soil was first identified at approximately twelve feet below ground surface (bgs). Groundwater monitoring wells were installed April 1993 and July 1994 to delineate the extent and severity the fuel release may have had on soil and groundwater quality beneath the site.

When these wells were installed, groundwater was encountered at approximately 35' to 45' bgs. Thus, Well MW-2 was screened from 32' to 57' bgs and Wells MW-3 and MW-4 were screened from 28' to 53' bgs. Since the wells were installed, groundwater has risen to approximately 20' bgs. Groundwater elevation is now 8' to 12' above the screened interval of the wells. Under such circumstances, groundwater samples collected from the wells could be diluted and, therefore, not representative of actual groundwater quality beneath the site.

At this time, an additional groundwater monitoring well should be installed in the vicinity of MW-2 and downgradient of the former tank complex. This well should be screened to intercept current groundwater elevation (from approximately 15' to 30' bgs). A workplan for the installation of the well is due within 60 days of the date of this letter, or by **January 25, 2000**.

If you have any questions, I can be reached at (510) 567-6762.

eva chu  
Hazardous Materials Specialist

email: Shawn Munger ([engstaff@engeo.com](mailto:engstaff@engeo.com))

livusd11

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



RO#188

StID 3095

August 28, 1998

Mr. Dick Alford  
Livermore USD  
685 E Jack London Blvd  
Livermore, CA 94550

ENVIRONMENTAL HEALTH SERVICES

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

**RE: Comments on RBCA for 2900 Ladd Ave, Livermore, CA**

Dear Mr. Alford:

This office has completed review of SCA Environmental's February 1998 "Summary of Risk-Based Corrective Action Assessment" report prepared for the above referenced site. Based on the data supplied and the risk assessment protocols used, it appears that the subsurface benzene concentrations in soil exceeded the calculated site-specific target levels (SSTL), while the benzene levels in groundwater did not exceed the SSTL.

This office feels that the data input into the RBCA model can be modified so it better represent site conditions. The site should be subdivided into two parcels for the risk evaluation (onsite shall consist of the maintenance building/corporation yard, and offsite shall consist of the play field/school complex). The fence line will separate onsite from offsite scenarios. With this in mind, the following are our comments:

1. For representative onsite groundwater concentrations, use groundwater data from the last four sampling events from well MW-2. For offsite, use water data from wells MW-3 and MW-4, and borings A and B10.
2. For representative onsite soil concentrations, use soil data collected in the vadose zone (ie. from 20'bgs and above) from all onsite borings, soil samples collected in the tank pit and from piping trench and dispenser area. For offsite, use data from all offsite borings.
3. A target risk of  $10^{-5}$  may be used.
4. The risk evaluation should be prepared for current (commercial) and future use scenarios. If a future use is unknown, then a risk management plan should be prepared.

A revised risk assessment should be submitted to this office for review. If you have any questions regarding input data which can be used for the risk assessment, or what information should be included in the risk management plan, I can be reached at (510) 567-6762.

Dick Alford  
re: RBCA for 2900 Ladd, Livermore  
August 28, 1998  
Page 2 of 2

Sincerely,



eva chu  
Hazardous Materials Specialist

c: Shawn Munger  
Engeo  
2401 Crow Canyon Road, Suite 200  
San Ramon, CA 94583

Stephen Svoboda  
SCA Environmental, Inc  
Four Embarcadero Center, Suite 480  
San Francisco, CA 94111

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



RO# 188

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

StID 3095

June 12, 1996

Mr. Dick Alford  
Livermore USD  
685 E. Jack London Blvd  
Livermore, CA 94550

**RE: Risk Assessment at 2900 Ladd Ave, Livermore, CA**

Dear Mr. Alford:

On April 4, 1995 this Agency requested that a workplan be submitted to evaluate the extent of contamination in the perched water zone at 15 to 21' bgs. However, in light of the recent recommendations resulting from the Lawrence Livermore National Laboratory's study and from the RWQCB's January 5, 1996 Interim Guidance on Required Cleanup at Low-Risk Fuel Sites (see attachment), it may not be necessary to proceed with additional monitoring well installation at the above referenced site.

Rather, it may be more appropriate at this time to prepare a risk assessment for residual hydrocarbons in soil and groundwater which may impact human health and/or the environment. Results from the risk assessment will determine cleanup goals for the site. In addition, there are sufficient groundwater data collected where the sampling frequency may be reduced to a semi-annual basis.

Please provide a brief workplan detailing work intended for this site within 30 days of the date of this letter, or **by July 13, 1996**. If you have questions, I can be reached at (510) 567-6762.

eva chu  
Hazardous Materials Specialist

attachment

c: Brian Flaherty, ENGEO, 2401 Crow Canyon Rd, #200, San Ramon  
94583-1545  
files (livusd9)

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



RO#191

StID 3836

June 10, 1996

Mr. Ted Simas  
Xtra Oil Co  
2307 Pacific Ave  
Alameda, CA 94501

Alameda County CC4580  
Environmental Health Services  
1131 Harbor Bay Pkwy., #250  
Alameda CA 94502-6577  
(510)567-6700 FAX(510)337-9335

Re: Additional Investigations at 1701 Park Street, Alameda, CA

Dear Mr. Simas:

Since January 27, 1995 this Agency, requested a workplan to further delineate the extent of soil and groundwater contamination resulting from the fuel release at the above referenced site. In February 1996 Mr. Keith Simas reviewed files at our office of neighboring sites which had also experienced fuel releases to the subsurface. Still, as of the date of this letter, we are not in receipt of a workplan to further characterize the contaminant plume.

For your information, I have also reviewed the files of adjacent sites to determine groundwater flow direction and potential offsite impacts resulting from the fuel release at Xtra Oil. The following was determined:

1. Groundwater flow direction at:
  - a. 1630 Park St - north, northwest;
  - b. 1700 Park St - northwest to northeast;
  - c. 1726 Park St - north/northeast to east; and,
  - d. 1801 Park St - northeast to northwest.
2. Benzene concentrations from offsite wells at:
  - a. 1725 Park St - well MW-11 with 2,900 to 3,800 ppb; and,
  - b. 1700 Park St - wells MW-3 and MW-4 were ND.

It does not appear the fuel release from your site has impacted 1700 Park Street. However, it cannot be ruled out that utility trenches could act/pose as preferential pathways for migration of contaminants. Therefore, a survey of subsurface utilities should be completed and a summary of your findings submitted to this office within 30 days of the date of this letter, or by July 11, 1996.

In addition, it appears contamination noted in Exxon's well MW-11 is a result of Xtra Oil's fuel release. The benzene levels are significantly elevated where a risk analysis must be performed to determine if a significant health risk exists from groundwater



Ted Simas  
re: 1701 Park St, Alameda  
June 10, 1996

Page 2

vapor intrusion to buildings. A workplan for the risk analysis is also due by July 11, 1996. Be advised, that additional offsite groundwater monitoring wells may be necessary to fully characterize the plume.

In the meantime, continue quarterly monitoring/sampling of all wells. Analysis for MTBE should be included for the next two sampling quarters.

Please be advised that this is a formal request for technical reports pursuant to Title 23, CCR, Section 2722(c). Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by this agency.

Should you have any questions about the content of this letter, please contact me at (510) 567-6762.



eva chu  
Hazardous Materials Specialist

c: Steve McKinley, Alameda Fire Department  
Brady Nagle, Alisto, 1575 Treat Blvd, #201, Walnut Creek, CA  
94598  
files

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



R0188

RAFAT A. SHAHID, Assistant Agency Director

StID 3095

April 4, 1995

Mr. Dick Alford  
Livermore USD  
685 E. Jack London Blvd  
Livermore, CA 94550

ALAMEDA COUNTY CC4580  
DEPT. OF ENVIRONMENTAL HEALTH  
ENVIRONMENTAL PROTECTION DIV.  
1131 HARBOR BAY PKWY., #250  
ALAMEDA CA 94502-6577

**RE: Perched Water Investigation at 2900 Ladd Ave, Livermore**

Dear Mr. Alford:

I have completed review of ENGEO's July 1994 Report on Ground Water Monitoring Well Installation for the above referenced site. Two monitoring wells, MW-3 and MW-4, and three soil borings B-9, B-10, and "A" were advanced to delineate the extent of soil and groundwater contamination northwest of the former tank pit.

Data collected to date suggests there is perched water at a depth of approximately 15 to 21', and the first encountered significant aquifer is at 28' below ground surface (current seasonal high). Grab water samples collected from the perched water exhibited up to 70,000 ppb TPH-G, and 12,000 ppb benzene. Wells MW-3 and MW-4 will monitor whether the contaminants in the perched zone will migrate vertically to impact groundwater.

At this time, additional investigations are required to determine the extent of contamination in the perched zone. A workplan proposal for this investigation is due to this office within 60 days of the date of this letter, or **by June 5, 1995**. Information gathered by this work will be used to determine an appropriate course of action to remediate the site, if deemed necessary.

If you have any questions, I can be reached at (510) 567-6762.

eva chu  
Hazardous Materials Specialist

cc: Brian Flaherty, ENGEO, 241 Crow Canyon Rd, Suite 200,  
San Ramon, CA 94583  
files

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



R0188  
RAFAT A. SHAHID, Assistant Agency Director

StID 3095

March 17, 1995

Mr. Dick Alford  
Livermore USD  
685 E. Jack London Blvd  
Livermore, CA 94550

ALAMEDA COUNTY CC4580  
DEPT. OF ENVIRONMENTAL HEALTH  
ENVIRONMENTAL PROTECTION DIV.  
1131 HARBOR BAY PKWY., #250  
ALAMEDA CA 94502-6577

RE: QMR for 2900 Ladd Ave, Livermore 94550

Dear Mr. Alford:

I have completed review of Engeo's Report on Groundwater Sampling for the above referenced site. At this time, a quarterly monitoring schedule should be implemented for the site. Technical summary reports documenting each well sampling and monitoring episode are also due quarterly. This schedule shall continue until further notice. The next sampling event should be in May 1995.

We are not in receipt of a report documenting the installation of wells MW-3 and MW-4, and the advancement of additional borings to delineate the extent of soil and groundwater contamination. A copy of this report should be sent to this office within 15 days of the date of this letter.

If you have any questions, I can be reached at (510) 567-6762.

eva chu  
Hazardous Materials Specialist

cc: Brian Flaherty, ENGEO, 241 Crow Canyon Rd, Suite 200,  
San Ramon, CA 94583  
files

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



R0188

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

StID 3095

June 21, 1994

Mr. Dick Alford  
Livermore USD  
685 E. Jack London Blvd  
Livermore, CA 94550

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

**Subject: Workplan Approval for 2900 Ladd Ave, Livermore 94550**

Dear Mr. Alford:

I have completed review of ENGEO's May 1994 Revised Workplan for Additional Subsurface Investigation for the above referenced site. The proposal to advance four additional borings to delineate the soil and groundwater contamination at the site is acceptable. It is recommended that the boring proposed through the former tank pit be moved south, near boring T3S, but outside the concrete pad. I understand that field work will commence on June 30, 1994.

If you have any questions, I can be reached at (510) 271-4530.

Sincerely,

eva chu  
Hazardous Materials Specialist

cc: Brian Flaherty, ENGEO, 241 Crow Canyon Rd, Suite 200,  
San Ramon, CA 94583  
files

livusd6

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



R0188

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

StID 3095

April 8, 1994

Mr. Dick Alford  
Livermore USD  
685 E. Jack London Blvd  
Livermore, CA 94550

**Subject: SWI for 2900 Ladd Ave., Livermore, CA 94550**

Dear Mr. Alford:

On July 30, 1993, this agency requested a workplan proposal to delineate the extent of soil and groundwater contamination at the above referenced site. To date, we are not in receipt of the required report.

Please submit a proposal for the next phase of the investigation to this office **by May 8, 1994**. I would like to see field work completed during the summer months, so there will be minimal impact to the adjacent school facility when classes resume in September.

Also, a quarterly monitoring/sampling schedule should be established for the site. The next round of sampling should commence no later than May 1994. Subsequent reports are to be submitted quarterly until this site qualifies for RWQCB "sign off." All reports and proposals must be submitted under seal of a California Registered Geologist, Certified Engineering Geologist, or Registered Civil Engineer.

If you have any questions, I can be reached at (510) 271-4530.

eva chu  
Hazardous Materials Specialist

cc: Brian Flaherty, ENGEO, 241 Crow Canyon Rd, Suite 200,  
San Ramon, CA 94583  
files

livusd5

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



R0188

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

StID 3095

July 30, 1993

Mr. Dick Alford  
Livermore USD  
685 E. Jack London Blvd  
Livermore, CA 94550

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

**Subject: SWI Report for 2900 Ladd Ave., Livermore 94550**

Dear Mr. Alford:

I have completed review of ENGEO's Report on Soil and Ground Water Investigation, dated July 8, 1993, for the above referenced site. Work performed included the advancement of six soil borings, of which one was converted into a groundwater monitoring well. Soil and water analyses indicate the extent of soil contamination has not yet been delineated and groundwater is impacted. At this time, the investigation needs to be expanded, possibly with more soil borings on- and off-site, to determine the extent of soil contamination. Additional monitoring wells are also needed, to verify groundwater flow direction, as well as to define the zero edge of the contaminant plume.

Please submit an amended workplan showing proposed monitoring well and soil boring locations to this office **within 30 days of the date of this letter**. If you have any questions, I can be contacted at (510) 271-4530.

Sincerely,

eva chu  
Hazardous Materials Specialist

cc: Brian Flaherty, ENGEO, 241 Crow Canyon Rd., Suite 200,  
San Ramon, CA 94583  
files

livusd4

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



Ro188

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

StID 3095

January 22, 1993

Dick Alford  
Livermore Valley USD  
685 E. Jack London Blvd  
Livermore, CA 94550

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

**Subject: Approval of Workplan to Address Subsurface Contamination  
at 2900 Ladd Ave., Livermore 94550**

Dear Mr. Alford:

I have reviewed the Addendum to Work Plan, dated January 6, 1993, prepared by Engeo Inc. for the above referenced site. The workplan is acceptable and field work should begin within 45 days of the date of this letter, weather permitting. Please notify this office 48 hours prior to start of field activities. If you have any questions or comments on the content of this letter, please contact me at (510) 271-4530.

Sincerely,

A handwritten signature in cursive script, appearing to read "Eva Chu".

Eva Chu  
Hazardous Materials Specialist

cc: Brian Flaherty, ENGEO, 2401 Crow Canyon Rd., Suite 200,  
San Ramon, CA 94583-1545  
Edgar Howell/files

livusd3

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



R0188

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

StID 3095

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

December 15, 1992

Brian Flaherty  
ENGE0  
2401 Crow Canyon Rd., Suite 200  
San Ramon, CA 94583-1545

**Subject: Comments on Work Plan to Address Subsurface  
Contamination at 2900 Ladd Ave., Livermore**

Dear Mr. Flaherty:

I have reviewed the work plan dated November 3, 1992, for soil and groundwater investigation to determine the extent of contamination resulting from the unauthorized release of petroleum hydrocarbons from the underground storage tanks (USTs) at the above referenced site and have the following comments:

1. If the concrete slab in the former UST pit is not removed, the extent of soil contamination, if any, under the slab needs to be determined. This could be with a soil boring through the concrete slab.
2. The initial groundwater sample from MW-1 show groundwater to be impacted by petroleum hydrocarbons. A replacement well, to be located within 10' of the UST pit, in the verified downgradient, could be installed with a 4" casing to facilitate remediation of groundwater, if necessary.
3. When soil boring B-1 was advanced in December 1990, soil analysis show soil contaminated with up to 180 ppb benzene at 16' depth. The extent of soil contamination beyond this boring should be determined.
4. In addition to TPH-G and BTEX, all soil and groundwater samples should be analyzed for TPH-D.

An addendum to the November 1992 workplan should be submitted **within 21 days**, addressing the above concerns. Field work should commence within 60 days upon approval of the workplan.

If you have any questions or comments on the content of this letter, I can be reached at (510) 271-4530.



Brian Flaherty  
Re: Workplan for 2900 Ladd Ave., Livermore  
December 15, 1992

Page 2

Sincerely,



Eva Chu  
Hazardous Materials Specialist

cc: Eddy So, RWQCB  
Dick Alford, 685 E. Jack London Blvd., Livermore 94550  
Edgar Howell/files

livusd2

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



R0188

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

StID 3095

October 8, 1992

Michael White  
Livermore USD  
685 E. Jack London Blvd  
Livermore, CA 94550

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

**Subject: SWI for 2900 Ladd Ave, Livermore, CA 94550**

Dear Mr. White:

This office has reviewed the Underground Storage Tank (UST) Closure Report, dated August 31, 1992, prepared by ENGEO Incorporated. When a regular gasoline UST failed a precision test in 1990, a limited subsurface investigation was undertaken. A soil boring advanced adjacent to this UST exhibited up to 2,700 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPH-G) and 8.1 ppm as benzene. This boring was converted to a groundwater monitoring well. Water analysis exhibited 63 parts per billion (ppb) benzene. Clearly, an unauthorized release of petroleum hydrocarbons has occurred at this site, impacting soil and groundwater. This UST was drained and left in place.

In August 1992, the decommissioned UST, with 2 other USTs and their product lines were removed. Based on the soil and groundwater sampling from the 1990 investigation and the recent tank removal, additional subsurface investigation is required at this time to determine the extent and severity of soil and groundwater contamination.

This phase of the investigation shall be in the form of a Soil and Water Investigation (SWI), pursuant to Section 2725 of Article 11, Title 23, California Code of Regulations (CCR). The information gathered by this phase will be used to determine an appropriate course of action to remediate the site, if deemed necessary. All work must be conducted in accordance with the RWQCB Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks, the State Water Resources Control Board LUFT Field Manual, and Article 11 of Title 23, CCR. The major elements of such an investigation are summarized in the attached Appendix A.

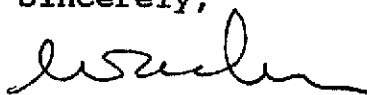
The SWI proposal is due within 45 days of the date of this letter. Once the proposal is approved, field work should commence within 60 days. A report must be submitted within 45 days after the completion of this phase of work at the site. All reports and proposals must be submitted under seal of a California Registered Geologist, Certified Engineering Geologist, or Registered Civil Engineer.

Michael White  
2900 Ladd Ave., Livermore  
October 8, 1992

Please be advised that this is a formal request for technical reports pursuant to California Water Code Section 13267(b). Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by either this agency or the RWQCB. Copies of all proposals and reports must also be sent to Mr. Eddy So of the RWQCB.

If you have any questions about the content of this letter, please contact me at (510) 271-4530.

Sincerely,



Eva Chu  
Hazardous Materials Specialist

enclosure

cc: Eddy So, RWQCB  
Danielle Stefani, Livermore Fire Department  
Edgar Howell/files

livusd

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0188

RAFAT A. SHAHID, Assistant Agency Director

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

April 8, 1992

Manager's Office  
ATC Management  
1362 Rutan Court, Suit 200  
Livermore, CA 94550

Re: FIVE-YEAR PERMIT FOR OPERATION OF THREE  
UNDERGROUND STORAGE TANKS (UST'S) AT 2900  
LADD AVENUE LIVERMORE

According to our records the above mentioned facility has not received a five-year permit to operate UST's. Please complete the following items marked below and return them to me within 30 days. The example plans enclosed, should be used only as guidelines and may not meet your requirements under Title 23.

- ✓ 1. An accurate and complete plot plan.
- ✓ 2. A written spill response plan. (enclosed)
- ✓ 3. A written tank monitoring plan. (enclosed)
- ✓ 4. Results of precision tank test(s) (initial and annual).
- ✓ 5. Results of precision pipeline leak detector tests (initial and annual).
- ✓ 6. Complete UST PERMIT FORM A-one per facility. (enclosed)
- ✓ 7. Complete UST PERMIT FORM B-one per tank. (enclosed)
- ✓ 8. Complete UST PERMIT FORM C-one per tank if information is available. (enclosed)

Title 23 of the California Code of Regulation prohibits the operation of ANY UST without a permit. Please feel free to contact Jeff Shapiro at (510) 271-4320, if you have any questions which may arise in completing the mandatory five-year permit process.

Sincerely,

Ravi Arulanantham  
Senior Hazardous Materials Specialist

c: Gil Jensen, Alameda County District Attorney,  
Rafat Shahid, Assistant Agency Director, Alameda  
County Department of Environmental Health  
Danielle Stefani, Hazardous Materials Specialist, City of  
Livermore Fire Department

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



R0188

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

November 19, 1990

Mr. Rudy D'Ambra  
Livermore Valley Joint Unified School Dist.  
685 Las Positas Blvd.  
Livermore, CA 94550

Re: ENGEO, Inc. proposal to address soil and groundwater  
contamination at 2900 Ladd Ave., Livermore

Dear Mr. D'Ambra:

As I indicated in our conversation on Friday, we have reviewed the above proposal for the installation of soil borings and a groundwater monitoring well at the Laidlaw Transit yard, and find it acceptable. It is apparently your intention to award the contract to ENGEO on the strength of their proposal; if this occurs, we will need a formal copy of the work plan mailed here for the files, along with a schedule for implementation of specific tasks. Please also submit copies of all project documentation to the Regional Water Control Board in Oakland.

Additionally, we require a deposit of \$400 to be submitted with the work plan. A check should be made out to Alameda County. Authorized by Sec. 3-141.6 of the Alameda County Ordinance Code, these funds will cover our oversight of the project, and will be drawn upon at an hourly rate.

If you have any questions about this letter, please contact me at 271-4320.

Sincerely,

Gil Wistar  
Hazardous Materials Specialist

cc: Lester Feldman, RWQCB  
Rafat A. Shahid, Asst. Agency Director, Environmental Health  
files

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0188

October 26, 1990

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

Mr. Rudy D'Ambra  
Livermore Valley Joint Unified School District  
685 Las Positas Blvd.  
Livermore, CA 94550

**RE: Report from BSK & Associates on subsurface conditions at the  
bus maintenance yard, 2900 Ladd Ave., Livermore**

Dear Mr. D'Ambra:

As we discussed on the phone several weeks ago, this office has reviewed the report documenting the results of a soil boring beneath a 6,000-gallon gasoline tank that has been out of use since approximately 1986, when it failed a routine precision test. This report suggests that a significant quantity of gasoline, as well as some diesel (due to the high proportion of xylene to the other volatile components), have been released into the subsurface environment. Mr. Alex Eskandari, the author of the report, indicated over the phone that the soil beneath the gasoline tank was "saturated" with product. According to guidelines established by the state Department of Health Services, soil containing above 1,000 mg/kg of gasoline can be classified as a hazardous waste; one of the soil samples collected from the subsurface had a gasoline concentration of 2,300 mg/kg.

Clearly, there has been an unauthorized release of hydrocarbons at this facility. As a result, the LVJUSD must take the following steps: 1) file an Unauthorized Release Report with us immediately, to document the contamination; and 2) conduct a preliminary assessment to determine the scope of the problem. Normally in this situation we would require the removal of the leaky tank (which I understand has been emptied) prior to the initiation of a subsurface investigation. However, because the current tenant of the site, Laidlaw Transit, will not be moving to its new facility until mid-1991 and will require the use of two of the three underground tanks until that time, we are willing to let the full tank removal program be postponed until mid-1991. (This presumes that the leaky tank will remain out of use, and the other two tanks are monitored according to state law and show no leaks or other inventory losses.) In any case, LVJUSD must now begin the preliminary assessment process, as outlined below.

In the first place, the preliminary assessment should be designed to provide all of the information in the format shown in the attachment at the end of this letter, which is based on Regional Water Quality Control Board (RWQCB) guidelines. LVJUSD must be prepared to install

Mr. Rudy D'Ambra  
October 26, 1990  
Page 2 of 2

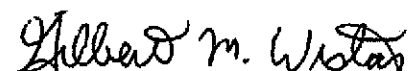
one monitoring well, if the direction of groundwater flow in the immediate vicinity of the contaminated pit can be verified, and three wells if this is not possible.

This office will be the lead agency overseeing environmental investigation and cleanup activities at the site. The RWQCB is currently unable to manage the large number of fuel leak cases within Alameda County, and has therefore delegated this authority to our office. However, you need to keep the Water Board apprised of all actions taken to characterize and remediate contamination at this site, because the Board retains the ultimate responsibility for ensuring protection of waters of the state.

Please submit a work plan to this office by December 7, 1990. Copies of the proposal should also be sent to the RWQCB (attention: Lester Feldman). Because we are overseeing this site under the designated authority of the Water Board, this letter constitutes a formal request for technical reports, per Sec. 13267(b) of the California Water Code. Failure to respond in a timely manner could result in civil liabilities under the Water Code of up to \$1,000 per day. Other violations of California law may also be cited.

If you have any questions about this letter or about site investigation requirements established by the RWQCB, please contact me at 271-4320.

Sincerely,



Gil Wistar  
Hazardous Materials Specialist

**enclosure**

cc: Randy Griffith, Livermore Fire Department  
Howard Hatayama, DOHS  
Lester Feldman, San Francisco Bay RWQCB  
Gil Jensen, District Attorney, Alameda County Consumer and  
Environmental Protection Division  
Rafat Shahid, Asst. Agency Director, Environmental Health  
files

*ELH*

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



R0188

September 19, 1990

Bill Hassell  
Laidlaw Transit  
2900 Ladd Ave.  
Livermore, CA 94550

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

Re: Waste Minimization Assessment

Dear Bill Hassell:

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,

A handwritten signature in cursive script that reads "Edgar B. Howell".

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

EBH:kac

cc: Fire Department  
Files



ALAMEDA COUNTY  
HEALTH CARE SERVICES

DAVID J. KEARS, AGENCY  
DIRECTOR  
XXXXXXXXXXXX  
MICHAEL LEAHY, Agency Director



R0188

470-27th Street, Third Floor  
Oakland, California 94612  
(415) 271-4320

March 23, 1988

OWNER/OPERATOR'S NAME & ADDRESS:

Livermore Valley Joint Unified School Dist.  
685 Los Positas Blvd.  
Livermore, CA 94550

SITE NAME & ADDRESS:

Transportation Garage  
2900 Ladd Ave.  
Livermore, CA 94550

Dear Sir/Madam:

According to our records, you have received a six (6) month interim permit for your underground tank(s). In order to receive a final five-year permit, your facility must be inspected. Prior to that inspection, we must have the following information which is not currently in your file.

- [x] 1. Monitoring method alternative (see enclosed list)
- [x] 2. Site map showing a scaled view of the facility at which the tank(s) are located and which should include the following information:
  - Scale
  - North Arrow
  - Property line
  - Location of all structures
  - Location of all existing equipment including tanks and piping
  - Streets
  - Underground conduits, sewers, water lines, utilities
  - All existing and abandoned drinking and monitoring wells
  - Depth to ground water
  - Any other sumps or non-permitted underground tanks

Transportation Garage  
2900 Ladd Ave.  
Livermore, CA 94550  
March 23, 1988  
Page 2 of 2

- [ ] 3. Your permit application information previously submitted is not complete. Please complete the item(s) circled.

Please submit the above information within 15 days upon the receipt of this letter. After we received the above material, we will call you to schedule an inspection. If you have any questions, please call Lizabeth Rose, Hazardous Materials Specialist at 415/271-4320.

Sincerely,

*Rafat A. Shahid*  
Rafat A. Shahid, Chief  
Hazardous Materials Division

RAS:LR:mam

enclosure