

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



8071
8-24-06

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

August 23, 2006

Ms. Lorraine Del Prado
Children's Hospital Medical Foundation
5225 Dover Street
Oakland, CA 94609

Subject: SLIC Case No. RO0002484, Freisman Ranch, 1600 Friesman Road, Livermore, CA

Dear Ms. Del Prado:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the report entitled, "Response to Comments/Workplan, Friesman Ranch Property," dated August 7, 2006. The report, which was prepared by SCS Engineers, presents responses to the technical comments in our January 31, 2006 correspondence and proposes a scope of work for additional investigation. We generally concur with the proposed scope of work; however, we request additional investigation in several areas. Therefore, we request that you prepare a revised Work Plan to address the technical comments below by **October 24, 2006**.

We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. **Source of Gasoline in Groundwater.** The Response to Comments indicates that although the source of gasoline in groundwater is unknown, a former 300-gallon UST apparently located in the vicinity of the former aboveground heating oil tank and boilers is a possible source of gasoline range hydrocarbons detected in groundwater north of the dairy building. In order to confirm that the source of gasoline in groundwater is the area of the dairy building, we request that groundwater is sampled upgradient of the plume on the east side of Arroyo De Las Positas. Soil and groundwater samples previously collected from boring B-18, which was advanced northeast of the dairy building, contained TPH as gasoline. A soil sample collected at a depth of 20 feet bgs from boring B-18 contained the highest concentration of TPH as gasoline detected in soil at the site. Therefore, one soil boring is needed upgradient of boring B-18 to confirm that the source of gasoline in groundwater is in the area of the dairy building and not upgradient of boring B-18. Please present plans to sample groundwater east of Arroyo De Las Positas in the revised Work Plan requested below.
2. **Soil Vapor Survey.** The proposed methods for soil vapor sampling are acceptable. However, we request that additional soil vapor sampling locations are included as shown on the enclosed Revised Figure 3. Specifically, we request two soil vapor samples in the area of Barn #2 and six additional soil vapor samples in the area of the TPH plume. We request that the soil vapor analytical results from the on-site laboratory are reviewed in the field and the grid of soil vapor samples be expanded where necessary to fully define the extent of

elevated concentrations of VOCs. Please include the additional soil vapor sampling locations and plans to expand the soil vapor survey as necessary based on initial results in the revised Work Plan requested below.

3. **Groundwater Sampling.** We concur with the proposal to collect groundwater samples from the existing monitoring wells. The groundwater samples are to be analyzed for TPHg, TPHd, and TPHss using EPA Method 8015C, VOCs including BTEX, MTBE, and chlorinated hydrocarbons using EPA Method 8260B, and total lead. We request that the samples be analyzed for 1,2-dichloroethane and ethylene dibromide using EPA Method 8260B. Please use low flow sampling methods for groundwater sampling. Field filtering for metals analyses will not be required if low flow sampling methods are used. We request that the on-site water supply well (3S/1E 2P3) is sampled concurrently with the monitoring wells.
4. **Vertical Extent of Contamination.** Assessment of the vertical extent of contamination is required for the site. We recommend that soil borings be advanced at three locations along a transect that is perpendicular to the TPH plume in order to characterize the vertical extent of fuel hydrocarbons. We request that the one pilot soil boring be continuously logged to a minimum depth of 60 feet bgs at each of the three locations. Soil samples are to be collected from the capillary fringe in each boring and from any interval where staining, odor, or elevated photoionization readings are observed. Results from the pilot soil borings are to be used to select intervals for depth-discrete groundwater sampling below first encountered groundwater. One groundwater sample is to be collected approximately 5 feet below first encountered groundwater at each of the proposed locations. Potential water-bearing layers below first encountered groundwater are to be targeted for groundwater sampling down to the total depth of the pilot borings. Please include plans for soil borings and depth-discrete groundwater sampling in the revised Work Plan requested below.
5. **Stoddard Solvents in KW-7.** As noted in the Response to Comments/Work Plan, Barn No. 1 is a possible source of the Stoddard solvent detected in groundwater. The Work Plan proposes collection of groundwater samples from existing wells to evaluate the potential presence of Stoddard solvent. However, the closest downgradient monitoring well to Barn No. 1 is well KMW-4, which is approximately 160 feet west of Barn No. 1. Therefore, we request that one soil boring be advanced immediately west of Barn #1 to collect a grab groundwater sample approximately 5 feet below first encountered groundwater. Please present plans to collect a grab groundwater sample west of Barn #1 in the revised Work Plan requested below.
6. **Well Survey.** Attachment G of the report presents a map from the Zone 7 Water Agency that shows the locations of nearby wells. In the revised Work Plan requested below, please present available well construction data for water supply wells located within 1,000 feet in the upgradient or cross gradient directions (3S/1E 2P3) and within 2,000 feet in the downgradient direction (3S/1E 2P7, 3S/1E 2N3, 3S/1E 2N2, and 3S/1E 2P1). Well construction details are to include the well diameter, screen slot size, total depth of the boring, depths of the screened interval, depths of the filter pack, and other well construction details that may be relevant. Please describe the current use of the on-site water supply well and plans for future use of the well. Please present this information in the revised Work Plan requested below.

7. **Proposed Surface Soil Sampling in Area of Incinerator.** The proposed 15 surface soil sample locations to characterize the extent of contamination from the incinerator are acceptable. If elevated concentrations of metals are detected, analyses for additional potential chemicals of concern may be required.

TECHNICAL REPORT REQUEST

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

- **October 24, 2006 – Revised Work Plan**

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

ELECTRONIC SUBMITTAL OF REPORTS

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

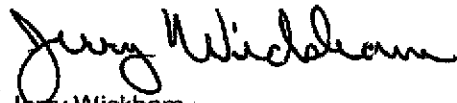
The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

Sincerely,



Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Steve Clements, SCS Engineers, 6601 Koll Center Parkway, Suite 140
Pleasanton, CA 94566

Colleen Winey, QIC 80201, Zone 7 Water Agency, 100 North Canyons Parkway,
Livermore, CA 94551

Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street
Pleasanton, CA 94566

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



*out
8-22-06*

August 18, 2006

Ms. Margaret Zywicz
Children's Hospital Medical Foundation
5225 Dover Street
Oakland, CA 94609

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

Subject: SLIC Case No. RO0002484, Freisman Ranch, 1600 Friesman Road, Livermore, CA

Dear Ms. Zywicz:

Our records indicate that the current balance on the above-referenced SLIC oversight account is a negative \$747.00. In order to continue to provide regulatory oversight, we are requesting the submittal of a check made payable to Alameda County Environmental Health in the amount of \$3,000.00. Please send your check to the attention of our Finance Department.

This initial deposit may or may not be sufficient to provide all necessary regulatory oversight. ACEH will deduct actual costs incurred based upon the hourly rate specified below. If these funds are insufficient, additional deposit will be requested. Otherwise, any unused monies will be refunded to you or your designee.

The deposit is authorized in Section 6.92.040L of the Alameda County Ordinance Code. Work on this project is being debited at the Ordinance specified rate, currently \$166.00 per hour.

Please write "SLIC" (the type of project), the site address, and the AR# 0306010 on your check.

If you have any questions, please contact Jerry Wickham at (510) 567-6791.

Sincerely,


Amy Levi
Division Chief

cc: Steve Clements, SCS Engineers, 6601 Koll Center Parkway, Suite 140, Pleasanton, CA 94566

D. Drogos, J. Jacobs, Jerry Wickham

ALAMEDA COUNTY
HEALTH CARE SERVICES



SOVT
02-01-06

AGENCY
DAVID J. KEARS, Agency Director

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

January 31, 2006

Ms. Lorraine Del Prado
Children's Hospital Medical Foundation
5225 Dover Street
Oakland, CA 94609

Subject: SLIC Case No. RO0002484, Freisman Ranch, 1600 Friesman Road, Livermore, CA

Dear Ms. Del Prado:

I am the caseworker recently assigned to your case. Please send future correspondence or inquiries regarding this case to my attention. Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the reports entitled, "Groundwater Monitoring, Soil Vapor Survey, and Source Removal Report, Friesman Ranch Property," dated November 21, 2003 and "Quarterly Groundwater Monitoring Report, Fourth Quarter 2003," dated December 17, 2003. Both reports, which were prepared by SCS Engineers, request regulatory closure of the site. Based upon our review of the case file, we have identified several items that must be addressed prior to regulatory closure. We request that you address the technical comments below by providing the requested information or proposing site investigation activities. Therefore, we request that you prepare a Response to Comments and/or Work Plan to address the technical comments below by **April 17, 2006**.

We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

- 1. Gasoline In Soil and Groundwater.** The report indicates that an aboveground storage tank, product line(s), and two boilers that used heating oil to power various equipment at the ranch, are the presumed sources of a petroleum hydrocarbon plume detected in the central portion of the site. Based on laboratory analysis of groundwater samples collected from the plume, a significant percentage of the fuel hydrocarbons are in the gasoline range. Gasoline range hydrocarbons have also been detected in soil samples collected in this area. It is not plausible that soil and groundwater contamination consisting largely of gasoline range hydrocarbons could be derived from a fuel distribution system that used only heating oil. Please identify and evaluate the potential sources of gasoline contamination for the site. Please prepare a Response to Comments or propose site investigation activities in a Work Plan to address this comment.
- 2. Soil Vapor Survey Results.** Total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert-butyl ether (MTBE) were not detected in soil vapor samples collected at eight locations within the central portion of the site. However, the reporting limit for benzene (125 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]) exceeds the San

Francisco Regional Water Quality Control Board Environmental Screening level for benzene shallow soil gas. Although several potential sources of volatile organic compounds (VOCs) were identified in the Phase I Environmental Site Assessment (Kleinfelder 1997), the soil vapor samples were not analyzed for volatile organic compounds (VOCs) other than BTEX. In addition, no soil vapor samples were collected in the areas of potential VOC sources. Please evaluate the need for additional soil gas sampling and VOC analyses (in addition to BTEX) and present the results of the evaluation in the Response to Comments or Work Plan requested below.

3. **Groundwater Analyses for Volatile Organic Compounds.** Although several potential sources of VOCs were identified in the Phase I Environmental Site Assessment (Kleinfelder 1997), no groundwater samples appear to have been analyzed for VOCs other than BTEX. Please evaluate the need for VOC analyses in addition to BTEX in groundwater and present the results of the evaluation in the Response to Comments or Work Plan requested below.
4. **Vertical Extent of Contamination.** The vertical extent of contamination has not been defined for the site. The deepest soil sample collected at the site appears to have been collected from a depth of 20 feet bgs. The soil sample collected from a depth of 20 feet bgs in boring KB-18 contained a concentration of 4,000 mg/kg of TPH as gasoline. This concentration was the highest concentration of TPH as gasoline detected in the soil borings (Kleinfelder 1997). Because the highest concentration was detected in the lowermost sample, the vertical extent of contamination has not been determined. Please evaluate the need for vertical delineation of the extent of contamination and present the results of the evaluation in the Response to Comments or Work Plan requested below.
5. **Volume of Soil Excavated from Fuel System Excavation.** The Groundwater Monitoring Report, Soil Vapor Survey, and Source Removal Report (SCS Engineers, 2003) reports that a total of approximately 24 cubic yards of soil was excavated from the fuel system area. However, the volume of the excavations in the fuel system area shown on Figure 6 of the report is approximately 75 cubic yards. Please clarify in the Response to Comments or Work Plan requested below, whether the extent of excavation shown on Figure 6 of the SCS Engineers 2003 report is correct and whether any excavated soil was used on-site rather than disposed off-site.
6. **Stoddard Solvents in KW-7.** The laboratory analyses for the groundwater sample collected in July 2003 noted the presence of Stoddard solvent/mineral spirit (SCS Engineers 2003). No sources of Stoddard solvent or mineral spirits were identified in the report. Please identify the potential sources of Stoddard solvent or mineral spirits and describe in the Response to Comments or Work Plan requested below, whether they have been evaluated.
7. **Source of Lead in Groundwater.** Lead was detected in groundwater samples from well KW-7 at concentrations up to 38 micrograms per liter ($\mu\text{g/L}$). Since lead is not a typical chemical of concern for fuel oil, please identify the source of lead in groundwater at the site. Please include this information in the Response to Comments or Work Plan requested below.
8. **Volume of Soil Excavated from Incinerator Area.** The Groundwater Monitoring Report, Soil Vapor Survey, and Source Removal Report (SCS Engineers, 2003) reports that a total of approximately 24 cubic yards of soil was excavated from the incinerator area. However, the volume of the excavations in the fuel system area shown on Figure 6 of the report is

approximately 60 cubic yards. Please clarify in the Response to Comments or Work Plan requested below, whether the extent of excavation shown on Figure 6 of the SCS Engineers 2003 report is correct and whether any excavated soil was used on-site rather than disposed off-site.

9. **Well Survey.** One water supply well was identified in the central portion of the site (Kleinfelder 1997). However, off-site wells do not appear to be discussed in reports for the site. ACEH requests that you locate all wells (monitoring and production wells: active, inactive, standby, decommissioned, abandoned and dewatering, drainage and cathodic protection wells) within ½ mile of the subject site. As part of your detailed well survey, please perform a background study of the historical land uses of the site and properties in the vicinity of the site. Use the results of your background study to determine the existence of unrecorded/unknown (abandoned) wells, which can act as pathways for migration of contamination at and/or from your site. Please review historical sources such as Sanborn maps, aerial photos, etc., when performing the background study. Include appropriate photographic prints, in stereo pairs, of historic aerial photos used as part of your study. We also request that you list by date all aerial photographs available for the site from the aerial survey company or library you use during your study. Please refer to the Regional Board's guidance for identification, location, and evaluation of potential deep well conduits when conducting your preferential pathway study. Please include the Well Survey in the Response to Comments or Work Plan requested below.
10. **Characterization of Incinerator Area.** Please provide a description of the incinerator used at the site, a discussion of the expected area over which ash was likely to have been deposited from the incinerator, and how bottom ash was disposed of. Confirmation soil samples were collected from the base of the excavated soil in the incinerator excavation area and analyzed for cadmium, chromium, lead, nickel, and zinc. In the Response to Comments or Work Plan requested below, please evaluate the need for additional soil samples outside the area of excavation to confirm that contaminated soil was removed over a sufficient area by excavation. Please also evaluate whether analyses for chemicals of concern beyond metals is needed. Present these evaluations in the Response to Comments or Work Plan requested below.

TECHNICAL REPORT REQUEST

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

- **April 17, 2006** – Response to Comments and/or Work Plan for Site Investigation

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

ELECTRONIC SUBMITTAL OF REPORTS

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

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In order to facilitate electronic correspondence, we request that you provide up to date electronic mail addresses for all responsible and interested parties. Please provide current electronic mail addresses and notify us of future changes to electronic mail addresses by sending an electronic mail message to me at jerry.wickham@acgov.org.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

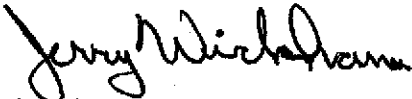
Ms. Lorraine Del Prado
January 31, 2006
Page 5

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

Sincerely,



Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: James Lehman
SCS Engineers
6850 Regional Street, Suite 240
Dublin, CA 94568-2920

Matt Katen, QIC 80201
Zone 7 Water Agency
100 North Canyons Parkway,
Livermore, CA 94551

Danielle Stefani
Livermore-Pleasanton Fire Department
3560 Nevada Street
Pleasanton, CA 94566

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



6-13-03

ENVIRONMENTAL HEALTH SERVICES

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

RO0002499

June 11, 2003

Mr. David Weiss
AAA Truck & Van Parts
3884 Depot Road
Hayward, CA 94545

RE: Well Installation Report for 3884 Depot Road, Hayward, CA

Dear Mr. Weiss:

In August 2002, this office approved a work plan for the installation of three groundwater monitoring wells at the above referenced site. Field work was suppose to begin in October 2002. Following several delays, it appears that the wells were finally completed. To date this office has not received a report documenting the installation of the groundwater monitoring wells.

A report is due within 45 days after the completion of each phase of work at the site. The required report is past due. You must provide a copy of the well installation report **by June 27, 2003**. In addition, quarterly groundwater monitoring/sampling shall commence for the site. Groundwater monitoring 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) 567-6762.

A handwritten signature in black ink, appearing to read 'eva chu'.

eva chu
Hazardous Materials Specialist

c: Donna Drogos
email: Susan Torrence, Deputy DA
Shawn Munger, Engeo

AAATruck-4

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



06-02-03

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

RO0002484

June 2, 2003

Ms. Lorraine Del Prado
Children's Hospital & Research Center Foundation
5225 Dover Street
Oakland, CA 94609-1809

RE: 1600 Friesman Road, Livermore, CA

Dear Ms. Del Prado:

I have completed review of ATC's reports titled *Quarterly Groundwater Monitoring and Work Plan for Soil Vapor Survey*, both dated April 22, 2003 and prepared for the above referenced site. ATC's proposal to advance up to 12 soil vapor probes to collect vapor samples at 3 feet below ground surface is acceptable. Be advised, that a tight seal is required at the probe/surface soil interface to prevent ambient air cross-contamination.

Data from this investigation should be compared with the RWQCB's RBSLs and a determination made if residual contamination at the site poses a risk to human health or the environment. This interpretation should be included in the report documenting results of the soil vapor survey. The work plan should be implemented within 45 days of the date of this letter, or by July 21, 2003. Please provide at least 72 hours advance notice of field work.

If you have any questions, I can be reached at (510) 567-6762, or by email at echu@co.alameda.ca.us

eva chu
Hazardous Materials Specialist

c: Donna Drogos
email: James Lehrman, ATC
Leah Goldberg

friesman ranch-9

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



03-04-03

RO0002484

March 3, 2003

Ms. Lorraine Del Prado
Children's Hospital & Research Center Foundation
5225 Dover Street
Oakland, CA 94609-1809

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

RE: 1600 Friesman Road, Livermore, CA

Dear Ms. Del Prado:

I have completed review of the site history and ATC's report of *Quarterly Groundwater Monitoring* dated December 27, 2002 for the above referenced site. ATC's report included a workplan for groundwater remediation and well destruction.

It is my opinion that remediation of groundwater may be premature at this time. Previous subsurface investigations identified up to 4,000 ppm TPHg in soil from boring KB-18 at 20 feet bgs, a boring advanced immediately adjacent to the Arroyo De Las Positas. A grab groundwater sample from boring KB-13 contained up to 38,000 ppb TPHg, 13,000 ppb TPHd, and 390 ppb benzene. It seems that the potential sensitive receptors at the site are the water supply well(s) and the creek.

At this time, the creek should be investigated to see if the petroleum hydrocarbon plume has impacted it. I have recommended to ATC that a staff member walk along the creek bed (upstream and downstream) and probe the soil (at approximately 11 to 20 feet bgs) with a stick to observe if odor, sheen or other evidence of petroleum hydrocarbon exists. Also, that a well survey be performed to identify all water supply wells within 2000 feet of the site. Water well pumping rate data, well logs, and geologic cross-sections should be provided to determine if groundwater pumping will drawn down the plume to impact any water supply wells.

The creek bed investigation and water well survey should be completed within 45 days of the date of this letter of by April 18, 2003. If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

email: Leah Goldberg
Jim Lehrman

friesman ranch-7

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



12-30-02

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

RO0002484

December 27, 2002

Children's Hospital Foundation
c/o Ms. Leah Goldberg
Hanson Bridgett
333 Market Street, 23rd Floor
San Francisco, CA 94105-2173

Subject: Funds for Oversight at 1600 Freisman Rd, Livermore, CA

Dear Ms. Goldberg:

As you know, this office is overseeing site remediation due to petroleum hydrocarbons at the above referenced site. However, the initial deposit of \$2000.00 has been depleted. To date, a total of 22 hours have been charged to your account. A check made payable to "Alameda County, Treasurer" in the amount of \$5,000.00 should be submitted to reinstate your account and fund this Office's oversight tasks on your project. 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 and all monies remaining in your account after the completion of the project 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 \$105 per hour.

Please be sure to write the following identifying information on your check or cover letter:
record ID # (RO0002484)
type of project (SLIC), and
site address (1600 Freisman Rd, Livermore)

If you have any questions, please contact me at (510) 567-6762.

Sincerely,

eva chu
Hazardous Materials Specialist

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



SENT 9-29-99
L. Goldberg

R02484

ENVIRONMENTAL HEALTH SERVICES

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

StID 6602

September 27, 1999

Ms. Leah Goldberg
Hanson Bridgett
333 Market Street, 23rd Floor
San Francisco, CA 94105-2173

RE: **Bio-parameters at 1600 Friesman Road, Livermore, CA**

Dear Ms. Goldberg:

I have completed review of Kleinfelder's September 1999 *Second Quarter Groundwater Monitoring Report* prepared for the above referenced site. Groundwater samples were collected from wells MW-6, MW-7 and MW-8. Wells MW-6 and MW-7 continue to contain elevated levels of TPHg, TPHd, and benzene.

At this time, it should be determined if natural biodegradation can be enhanced at the site with the use of an Oxygen Releasing Compound (ORC). For this determination, groundwater should be collected from all onsite wells and the following bio-parameters measured: dissolved oxygen, oxidation-reduction potential, nitrate, sulfate, ferrous iron, and alkalinity. This work should be conducted with 60 days of this letter, or by **December 1, 1999**.

If site specific conditions support aerobic biodegradation, it is recommended that injection of ORC be conducted at the site.

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

eva chu
Hazardous Materials Specialist

email: Neal Siler (nsiler@kleinfelder.com)

freisman ranch-6

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



PO 2484

StID 6602

June 15, 1999

Ms. Leah Goldberg
Hanson Bridgett
333 Market Street, 23rd Floor
San Francisco, CA 94105-2173

ENVIRONMENTAL HEALTH SERVICES

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

RE: QMR at 1600 Friesman Road, Livermore, CA

Dear Ms. Goldberg:

I have completed review of Kleinfelder's June 1999 *Quarterly Groundwater Monitoring Report, First Quarter 1999* prepared for the above referenced site. This report summarized groundwater sampling of eight onsite monitoring wells and the adjacent creek. Groundwater analytical results identified hydrocarbon contaminants and naphthalene in wells KMW-6 and KMW-7. The other wells and the creek did not contain contaminants above the laboratory detection limits.

At this time the sampling of wells KMW-1 through KMW-5 may be discontinued. But quarterly monitoring of wells KMW-6 through KMW-8 should continue. Also, there are at least three water supply wells (3S/1E2P3, 3S/1E2N2, and 3S/1E3N3) within 2,000 feet of the site. A well survey should be conducted to determine if contaminants in the shallow aquifer could impact the water supply wells.

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

eva chu
Hazardous Materials Specialist

c: Neal Siler
Kleinfelder
7133 Koll Center Pkwy, Suite 100
Pleasanton, CA 94566-3101

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RO# 2484

StID 6602

March 5, 1999

Ms. Leah Goldberg
Hanson Bridgett
333 Market Street, 23rd Floor
San Francisco, CA 94105-2173

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

RE: Groundwater Sampling at 1600 Friesman Road, Livermore, CA

Dear Ms. Goldberg:

I have completed review of Kleinfelder's February 1999 *Well Installation and Quarterly Groundwater Monitoring Report* prepared for the above referenced site. That report summarized the installation of a groundwater monitoring well (KMW-7) by the metal shed that had stored a heating oil tank, and another well downgradient of the contaminant plume. All onsite groundwater monitoring wells were sampled for petroleum hydrocarbon constituents. Only groundwater from Wells KMW-6 and KMW-7 contained elevated levels of contaminants.

At this time, a quarterly monitoring schedule should be implemented for the site. Groundwater should be analyzed for TPHg, TPHd, BTEX, and MTBE. In addition, water from Wells KMW-6 and KMW-7 should be analyzed for PAHs and soluble lead. Groundwater should be passed through a silica gel cleanup prior to the use of Method 8015 analysis for TPHd. And groundwater should be filtered with a 0.45-micron filter prior to analysis for lead.

Groundwater monitoring well KMW-7 is located adjacent to Arroyo de Las Positas. Petroleum hydrocarbons identified in groundwater have the potential to impact the creek. Therefore, water samples should be collected from Arroyo de Las Positas at points upgradient of, adjacent to, and downgradient of KMW-7. The creek samples should be analyzed for TPHg, TPHd, BTEX, MTBE.

Technical summary reports documenting each well/creek sampling and monitoring episode are due 60 days upon completion of field activities. The reports should include a table of historic groundwater analytical results. Data collected will be incorporated into an ecological risk analysis in the near future. If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

c: Neal Siler, Kleinfelder, 7133 Koll Center Pkwy, Suite 100, Pleasanton, CA 94566

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



202484

ENVIRONMENTAL HEALTH SERVICES

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

StID 6602

December 14, 1998

Ms. Leah Goldberg
Hanson Bridgett
333 Market St, 23rd Floor
San Francisco, CA 94105-2173

RE: Workplan Approval for 1600 Friesman Rd, Livermore, CA

Dear Ms. Goldberg:

I have completed review of Kleinfelder's November 1998 *Well Installation and Groundwater Monitoring Workplan* prepared for the above referenced site. The proposal to install two additional groundwater monitoring wells at the site is acceptable. Groundwater will be analyzed for TPHg, TPHd, BTEX, MTBE, PAH, and total soluble lead.

Field activities should commence within 60 days of the date of this letter. Please notify this agency 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

c: Neal Siler, Kleinfelder, 7133 Koll Center Parkway, Suite 100, Pleasanton,
CA 94566

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RO# 2484

ENVIRONMENTAL HEALTH SERVICES
1131 Harbor Bay Parkway, Suite 200
Alameda, CA 94602-6577
(510) 567-6700
(510) 337-9355 (FAX)

StID 6602

July 29, 1998

Ms. Leah Goldberg
Hanson Bridgett
333 Market St, 23rd Floor
San Francisco, CA 94105-2173

RE: Additional Investigations at 1600 Freisman Rd, Livermore, CA

Dear Ms. Goldberg:

I have completed review of Kleinfelder's October 1997 "Remedial Investigation, RBCA Tier 2 Evaluation and Remedial Action Plan" report prepared for the above referenced site. This report documents field activities performed from August through September 1997. The limited soil and groundwater investigation included the advancement of soil borings to collect soil and groundwater samples. Six borings were converted into groundwater monitoring wells. Petroleum hydrocarbons have been identified in soil and groundwater in the vicinity of boring KB-2, KB-10, KB-11, KB-13, and KB-18.

In addition, a Tier 1 and Tier 2 Risk Based Corrective Action (RBCA) evaluation was performed using maximum contaminant concentrations detected in soil and groundwater. Kleinfelder concluded that residual contamination may pose an adverse human health risk in excess of one in one million. The RBCA assessment is very conservative and can be modified when additional site specific data is collected.

At this time, as recommended by Kleinfelder, a groundwater monitoring well should be installed east of boring KB-13 and another approximately 50' to 100' northwest of well KMW-8. A quarterly groundwater monitoring schedule should be implemented at this site to verify plume extent and stability, and flow direction. Groundwater should be analyzed for TPHg, TPHd, BTEX, MTBE, PAHs, and total soluble lead. If PAHs and lead are not detected, their analyses may be discontinued in subsequent sampling events.

A work plan should be submitted for the installation of the additional wells. Quarterly groundwater monitoring can commence after the new wells are completed. Finally, reference was made of a July 1997 Phase I Environmental site Assessment report. Please provide a copy of this report so that I would not require you to perform work that may already have been done in the past.

Leah Goldberg
re: 1600 Freisman Rd, Livermore
July 29, 1998
Page 2 of 2

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



eva chu
Hazardous Materials Specialist

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RO# 2484

ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9395 (FAX)

StID 6602

May 27, 1998

Children's Hospital Foundation
c/o Ms. Leah Goldberg
Hanson Bridgett
333 Market Street, 23rd Floor
San Francisco, CA 94105-2173

Subject: Funds for Oversight at 1600 Freisman Rd, Livermore, CA

Dear Ms. Goldberg:

This office is in receipt of Kleinfelder's October 1997 "Remedial Investigation RBCA Tier 2 Evaluation and Remedial Action Plan" report for the above referenced site. Before this office can oversee site remediation/evaluation of contamination at the site, a deposit/refund account must be established. A check made payable to "Alameda County, Treasurer" in the amount of \$2,000.00 should be submitted to establish your account and fund this Office's oversight tasks on your project. It is expected that the amount requested will allow the project to be completed with a zero balance. Otherwise, more money will be requested. And, any and all monies remaining in your account after the completion of the project 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:

Stid #
type of project, and
site address

If you have any questions, please contact me at (510) 567-6762.

Sincerely,

eva chu
Hazardous Materials Specialist

freisman ranch-1