



ENVIRONMENTAL HEALTH DEPARTMENT  
ENVIRONMENTAL PROTECTION  
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June 23, 2011

Mr. Manmohan Chopra                      Jaswant and Lakhvr Brar  
Haber Oil Products                      1401 Grand Avenue  
29211 Marshbrook Drive              San Leandro, CA 94577-5368  
Hayward, CA 94545  
(sent via electronic mail to: [choprajee@yahoo.com](mailto:choprajee@yahoo.com))

Subject: Request for SCM and Data Gap Work Plan; Fuel Leak Case No. RO0000370 (Geotracker Global ID T0600101827), Haber Oil Products, 1401 Grand Avenue, San Leandro, CA 94577

Dear Mr. Chopra, and Jaswant & Lakhvr Brar:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Subsurface Investigation Report*, dated December 31, 1998, and the *Quarterly Groundwater Monitoring and Sampling Report (May 23 – 24, 2007 Sampling Event)*, dated June 21, 2007. The reports were prepared and submitted on your behalf by P&D Environmental, Inc. (P&D). Thank you for submitting the reports.

Based on the review of the case file and the referenced report ACEH requests that you address the following technical comments and send us the documents requested below.

### **TECHNICAL COMMENTS**

- 1. Request for an SCM and Data Gap Work Plan** – As of May 2007 onsite groundwater in monitoring well MW-2 contained 22,000 µg/l TPHg, 1,700 µg/l benzene, 690 µg/l toluene, 1,100 µg/l ethylbenzene, 3,200 µg/l total xylenes, and 670 µg/l MTBE (and previously 240 µg/l PCE in February 2006), yet well MW-6 located at a distance of 75 feet in an assumed downgradient location is nearly non-detectable (only 4.7 µg/l TPHg) at standard limits of detection. Well MW-2 has also been previously reported to contain sheen when sampled. ACEH is not certain nor convinced that the lateral and downgradient extent of the dissolved groundwater plume is understood as the water-bearing zone beneath the site and vicinity appears to be described consistently as an unconfined nearly pure sand and gravel aquifer. This appears to correlate well with USGS mapping that describes the area as a Holocene Natural Levee Deposit that is described as "...porous and permeable and that provide conduits for transport of ground water." (*Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California*, R. W. Graymer, Misc. Field Study MF-2342, 2000).

Additionally, an early vapor extraction pilot test found significant vapor concentrations in the subsurface at the site, and resulted in several recommendations for vapor extraction at the subject site; however, to date no disclosed actions have been undertaken. Based on the most recent reported groundwater monitoring and sampling data from May 2007, residual concentrations of concern remain in groundwater, and presumably in soil, beneath the site and vicinity.

As a consequence of these observations ACEH requests generation of a Site Conceptual Model (SCM) to place the site within the regional hydrogeologic context, to investigate site specific release migration pathways, and to identify data gaps in those understandings, by the date identified below. SCMs are understood to be documents that evolve with the understanding of a site, and are consequently expected to change through time as the site is better understood.

Additionally, a closely timed Data Gap Work Plan is requested by the date identified below. Data gaps identified by ACEH staff include the (arguable) delineation of the lateral and downgradient extent of the dissolved-phase contaminant plume, as well as the vertical extent of the plume. Additional data gaps are fully expected, and are to include remedial investigation data gaps and any appropriate pilot testing.

With respect to plume delineation, a soil bore transect may be an appropriate method to rapidly determine these extents, although alternative rapid assessment techniques may be also appropriate. Please include detailed geologic cross sections to adequately understand the subsurface lithology in the site vicinity. These are to include well screening details, soil analytical results, and underground structures including utility lines, tank pits, former tank pits, or other details appropriate to understand the site.

With respect to contaminant concentrations in well MW-2, please specifically evaluate this well (in addition to all wells) as a preferential pathway. The well screen is reported to extend between 15 and 53 feet bgs and ACEH notes that significant residual contamination appears to be present in the vicinity of well MW-2 based on the previous referenced groundwater concentrations in the well, and the results for soil at the base of the UST overexcavation (TP-10: 4,200 mg/kg TPHg, 6.3 mg/kg benzene, 87 mg/kg MTBE at a depth of 16.5 feet). Please propose appropriate actions thereafter in the Data Gap Work Plan.

2. **Request for a Vapor Survey** – As noted immediately above, significant residual soil hydrocarbon concentrations appear to be present in the vicinity of well MW-2. Additionally the overexcavation is reported to have been backfilled with pea gravel, a very porous material. As a consequence, ACEH requests that a vapor survey be conducted at the site as an initial step in determining if a vapor intrusion survey for the site building should be undertaken. Please include the proposed details of this survey in the work plan requested above. Please use DTSC guidelines in this survey and discuss these in the associated work plan, and submit the as a part of the Data Gap Work Plan by the date identified below.
3. **Request for a Preferential Pathway Study** – A preferential pathway study has not been conducted for the site and appears appropriate based on a number of considerations. While it is understood that groundwater is encountered in an unconfined condition at an approximate depth of 42 to 43 feet bgs, utility conduits can act as vadose zone preferential pathways for transitory fluid migration as well as vapor migration. In addition the downgradient area from the site is known to contain an undetermined number of residential wells. As a consequence ACEH requests that a preferential pathway study be undertaken for the site.

In general the purpose of the preferential pathway study is to locate potential migration pathways and conduits and determine the probability of a NAPL and/or a groundwater plume encountering preferential pathways and conduits that could spread contamination. We request that you perform a preferential pathway study that details the potential migration pathways and potential conduits (wells, utilities, utility laterals, pipelines, and etc.) for vertical and lateral migration that may be present in the vicinity of the site.

Discuss your analysis and interpretation of the results of the preferential pathway study (including the detailed well survey and utility survey requested below) and report your results in the report requested below. The results of your study shall contain all information required by California Code of Regulations, Title 23, Division 3, Chapter 16, §2654(b).

- a. Utility Survey

An evaluation of all utility lines, utility laterals, and trenches (including sewers, storm drains, pipelines, trench backfill, etc.) within and near the site and plume area(s) is required as part of your study. Please assimilate, reduce, and synthesize available information and maps, and generate appropriate (vicinity and / or site specific) maps and cross-sections illustrating the location and depth of all utility lines and trenches within and near the site and plume areas(s) as part of your study. Please utilize the San Francisco Estuary Institute's *Creek & Watershed Map of Hayward & San Leandro*, available online at the Museum of California

website (<http://museumca.org/creeks/>). This map contains specific information relative to potential conduits and potential storm water discharge points in the vicinity of the site.

b. Well Survey

The preferential pathway study shall include a detailed well survey of all wells (monitoring and production wells: active, inactive, standby, decommissioned (sealed with concrete), abandoned (improperly decommissioned or lost); and dewatering, drainage, and cathodic protection wells) within a 2,000 foot radius of the subject site. Please use DWR as well as Alameda County Public Works Agency resources as the databases are sufficiently different. 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 contaminant migration pathways at or from your site.

Please also evaluate well MW-2, as well as other site wells, as preferential pathways as requested above.

Please submit a preferential pathway study as a part of the requested SCM by the date identified below.

- 4. Groundwater Monitoring Schedule and Analytical Suite** – On July 24, 2009 ACEH issued a directive letter requesting the implementation of semi-annual groundwater monitoring at the site in accordance with the California State Water Resource Control Board (SWRCB) Resolution 2009-0042. This site appears to be, or to have been, out of compliance with state regulations. Conversely, ACEH also has a recent verbal report (June 21, 2011) that a recent groundwater monitoring event has occurred and is as of yet unreported. Other than the verbal report, groundwater monitoring does not appear to have occurred since May 2007. If this is incorrect please inform ACEH and upload all associated reports generated in the interim period of time.

Regardless of the current state of monitoring, ACEH requests the immediate resumption of groundwater monitoring on a semi-annual basis. Based on previous groundwater monitoring data sets, groundwater monitoring should occur in June and December of each year until otherwise modified.

The groundwater analytical suite currently consists of TPHg, BTEX, and VOCs by EPA Method 8260B. Please utilize a full scan EPA Method 8260 in all wells and incorporate TPHmo into the analytical suite for the period of one year due to the former presence of a waste oil UST, as well as the presence of naphthalene, several other organics that imply a heavy-end carbon component to the dissolved phase in well MW-2, and previous detections of 240 µg/l PCE in the well (February 2006). The full scan EPA Method 8260 will also capture the presence, if any, of all fuel oxygenates and lead scavengers; please ensure it does. Thereafter, please analyze the appropriateness of continuing or reducing the analytical suite at all wells. Please additionally consult with, and report on, the analytical laboratory concerning the “No Recognizable Pattern” flag on the TPHg results obtained from groundwater collected from well MW-2. Please include all field sampling notes in these reports.

- 5. Geotracker Well Survey and Geotracker Compliance** – All site wells do not appear to have been surveyed to Geotracker survey standards since they were installed. ACEH recently (June 1, 2011) approved a request to survey the wells to Geotracker standards, and it is understood this has occurred, but is not yet reported. Please ensure the resulting GEO\_XY and GEO\_Z data files are uploaded to Geotracker by the date identified below.

Please also review Geotracker to verify that all appropriate reports and data uploads are present. Included in this request are copies of all soil and well bore logs, regardless of age. Please see Attachment 1 for limited additional details, and the state GeoTracker website for full details. Compliance is required by the State and is tied to reimbursement funding by the UST Cleanup Fund. Please submit all required data by the date identified below.

### **TECHNICAL REPORT REQUEST**

Please submit the following deliverable to ACEH (Attention: Mark Detterman), according to the following schedule:

- **August 12, 2011** – First Semi-Annual 2011 Groundwater Monitoring Event
- **August 26, 2011** – Site Conceptual Model
- **September 9, 2011** – Site and Vicinity Work Plan (with Vapor Survey Work Plan)
- **September 23, 2011** – Data Gap Work Plan (with any appropriate pilot testing)
- **February 3, 2012** – Second 2011 Semi-Annual Groundwater Monitoring Report

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.

Should you have any questions, please contact me at (510) 567--6876 or send me an electronic mail message at [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org).

Sincerely,

Mark E. Detterman, PG, CEG  
Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations  
Electronic Report Upload (ftp) Instructions

cc: Stephen Carter, Stratus Environmental, Inc, 3330 Cameron Park Drive, Suite 550, Cameron Park, CA 95682 (sent via electronic mail to: [scarter@stratusinc.net](mailto:scarter@stratusinc.net))

Donna Drogos, ACEH, (sent via electronic mail to [donna.drogos@acgov.org](mailto:donna.drogos@acgov.org))  
Mark Detterman, ACEH, (sent via electronic mail to [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org))  
Geotracker, Electronic File

**Responsible Party(ies) Legal Requirements / Obligations**

**REPORT REQUESTS**

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**

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to 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 Instructions." 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. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all 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 monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.waterboards.ca.gov/water\\_issues/programs/ust/electronic\\_submittal/](http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/)).

**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.

**UNDERGROUND STORAGE TANK CLEANUP FUND**

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

**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.

<b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b>	<b>REVISION DATE:</b> July 20, 2010
	<b>ISSUE DATE:</b> July 5, 2005
	<b>PREVIOUS REVISIONS:</b> October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
<b>SECTION:</b> Miscellaneous Administrative Topics & Procedures	<b>SUBJECT:</b> Electronic Report Upload (ftp) Instructions

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.

## REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

## Submission Instructions

- 1) Obtain User Name and Password
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to [deh.loptoxic@acgov.org](mailto:deh.loptoxic@acgov.org)
  - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses,** and the **Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
    - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
  - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to [deh.loptoxic@acgov.org](mailto:deh.loptoxic@acgov.org) notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload.** (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.