



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
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May 15, 2009

Stacie H. Frerichs
Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583

T.W. Johnson
7007 San Ramon Road
Dublin, CA 94568-3239

Subject: Fuel Leak Case No. RO0000206 and GeoTracker Global ID T0600100354, Chevron #9-5542, 7007 San Ramon Road, Dublin, CA 94568

Dear Ms. Frerichs and Mr. Johnson:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the recently submitted document entitled, "Subsurface Investigation Report," dated January 22, 2009, which was received on July 27, 2007 and prepared by Cambria Environmental Technology, Inc. for the subject site. Cambria installed monitoring well MW-11 off-site to assess hydrocarbon concentrations detected in the deeper water-bearing zone and proposed oxygen injection into groundwater monitoring well MW-4.

ACEH is concerned that oxygen injection in groundwater monitoring well MW-4 may have little effect in remediating the significantly elevated concentration detected in groundwater monitoring well MW-1, which detected TPH-g and benzene at concentrations of 35,000 µg/L and 1,200 µg/L, respectively, collected on March 18, 2009.

We request that you address the following technical comments and send us the technical reports requested below.

TECHNICAL COMMENTS

1. **Contaminant Source Area Characterization** – Based on our records, two 10,000-gallon, one 4,000-gallon, and one 500-gallon underground storage tank (UST) were removed from the site in February 1990. However, our file does not include a tank removal report. In March 1990, four borings, which were converted to groundwater monitoring well MW-1 through MW-4, were installed at the site. Soil sample analytical results detected TPH-g and benzene at concentrations of 1,300 mg/kg and 38 mg/kg, respectively, in a soil sample collected at 30 feet below the ground surface (bgs) from boring MW-1. Based on the soil sample analytical data, the vertical and lateral extent of soil contamination in the former source area is undefined. Please propose a scope of work to address the above-mentioned concerns and submit a work plan due by the date specified below.

2. **Soil and Groundwater Characterization** – As mentioned above, groundwater sample analytical results detected TPH-g and benzene at significantly elevated concentrations of 35,000 µg/L and 1,200 µg/L, respectively, collected on March 18, 2009 from groundwater monitoring well MW-1 located within the former UST pit. Down-gradient groundwater monitoring well MW-4 detected TPH-g and benzene at concentrations of 3,900 µg/L and 46 µg/L, respectively. TPH-g and benzene were also detected in former groundwater monitoring well MW-9 located further down-gradient at concentrations of 4,700 µg/L and 340 µg/L, respectively, collected on September 2, 2005. Based on the analytical data, the down-gradient extent of the groundwater contaminant plume is undefined. Please propose a scope of work to address the above-mentioned concerns and submit a work plan due by the date specified below.

3. **Site Conceptual Model** – To date, no active remediation has been initiated at the site. At this juncture, it may be advantageous to develop a site conceptual model (SCM), which synthesizes all the analytical data and evaluates all potential exposure pathways and potential receptors that may exist at the site, including identifying or developing site cleanup objectives and goals in accordance with the San Francisco Regional Water Quality Control Board Basin Plan and appropriate ESL guidance for all COCs and for the appropriate groundwater designation. Please note that soil cleanup levels should ultimately (within a reasonable timeframe) achieve water quality objectives (cleanup goals) for groundwater in accordance with San Francisco Regional Water Quality Control Board Basin Plan. Please propose appropriate cleanup levels and cleanup goals in accordance with 23 CCR Section 2725, 2726, and 2727 in the SCM. At a minimum, the SCM should include:
 - (1) Local and regional plan view maps that illustrate the location of sources (former facilities, piping, tanks, etc.) extent of contamination, direction and rate of groundwater flow, potential preferential pathways, and locations of receptors;
 - (2) Geologic cross section maps that illustrate subsurface features, man-made conduits, and lateral and vertical extent of contamination;
 - (3) Plots of chemical concentrations versus time;
 - (4) Plots of chemical concentrations versus distance from the source;
 - (5) Summary tables of chemical concentrations in different media (i.e. soil, groundwater, and soil vapor); and
 - (6) Well logs, boring logs, and well survey maps;
 - (7) Discussion of likely contaminant fate and transport.

If data gaps (i.e. potential contaminant volatilization to indoor air or soil and groundwater plume definition, etc.) are identified in the SCM, please include a proposed scope of work to address those data gaps in the work plan due by the date specified below. Please note that the work plan must address all technical comments presented in this correspondence and all data gaps identified in the SCM.

4. **Feasibility Study/Corrective Action Plan** – Once the contaminant source areas and the down-gradient extent of contamination are adequately characterized, a Feasibility Study/Corrective Action Plan (FS/CAP) prepared in accordance with Title 23, California Code of Regulations, Section 2725 appears appropriate. The FS/CAP must evaluate at least two viable alternatives for remedying or mitigating the actual or potential adverse effects of the unauthorized release(s) besides the “no action” and “monitored natural attenuation” remedial alternatives. Each alternative shall be evaluated for cost-effectiveness and the Responsible Party must propose the most cost-effective corrective action. The FS/CAP will be due following the SCM and site characterization completion.
5. **Groundwater Monitoring Reports** – In future groundwater monitoring reports, please include a figure that illustrates groundwater flow direction as well as a figure that posts the analytical data, which includes iso-concentration contours for chemicals of concern.

REQUEST FOR INFORMATION

ACEH's case file for the subject site contains the following electronic reports as listed on our website (<http://www.acgov.org/aceh/lop/ust.htm>). You are requested to submit copies of all other reports related to environmental investigations for this property (including Phase II reports and the UST Removal report) by **June 15, 2009**.

NOTIFICATION OF FIELDWORK ACTIVITIES

Please schedule and complete the fieldwork activities by the date specified below and provide ACEH with at least three (3) business days notification prior to conducting the fieldwork.

TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Paresh Khatri), according to the following schedule:

- **July 14, 2009** – Site Conceptual Model with Soil and Water Investigation Work Plan
- **Due within 30 Days of Sampling** – Quarterly Monitoring Report (3rd Quarter 2009)
- **Due within 30 Days of Sampling** – Quarterly Monitoring Report (1st Quarter 2010)

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.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml).

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

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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) 777-2478 or send me an electronic mail message at paresh.khatri@acgov.org.

Sincerely,



Paresh C. Khatri
Hazardous Materials Specialist



Donna L. Drogos, PE
Supervising Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Douglass Lee, Gettler Ryan, Inc. 6747 Sierra Court, Suite J, Dublin, CA 94568
David Herzog, Conestoga Rovers & Associates, 2000 Opportunity Drive., Suite 100, Roseville,
CA 95678
Cheryl Dizon (QIC 8021), Zone 7 Water Agency, 100 North Canyons Pkwy, Livermore, CA 94551
Donna Drogos, ACEH
Paresh Khatri, ACEH
GeoTracker
File

**Alameda County Environmental Cleanup
Oversight Programs
(LOP and SLIC)**

ISSUE DATE: July 5, 2005

REVISION DATE: March 27, 2009

PREVIOUS REVISIONS: December 16, 2005,
October 31, 2005

SECTION: Miscellaneous Administrative Topics & Procedures

SUBJECT: 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

- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- 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)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

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 dehloptoxic@acgov.org
 - Or
 - ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
- 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 and Firefox browsers will not open the FTP site.
- b) Click on File, then on Login As.
- 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 dehloptoxic@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.