



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

June 6, 2011

Mr. Dave Patton
Chevron Products Company
6011 Bollinger Canyon Road
San Ramon, CA 94583
(sent via electronic mail to drpatten@chevron.com)

Subject: Request for Work Plan Addendum; Fuel Leak Case No. RO0000284 and Geotracker Global ID T0600100328, Chevron #9-0121; 3026 Lakeshore Avenue, Oakland, CA 94610

Dear Mr. Patton:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Sensitive Receptor and Preferential Pathway Survey, Response to Regulatory Comments, and Work Plan for Additional Assessment* and the *First Semi-Annual 2011 Groundwater Monitoring and Sampling Report*, both dated May 15, 2011. Both reports were submitted on your behalf by Conestoga-Rovers & Associates (CRA). Thank you for their submittal. Based on ACEH staff review of the case file, we request that you address the following technical comments and send us the reports described below.

TECHNICAL COMMENTS

- 1. Groundwater Rose Diagrams, Contaminant Plume Location, and Soil Bore Investigation** – Thank you for the addition of the rose diagrams to site groundwater monitoring reports. The diagram depicts a generalized southwestern flow direction over time at the site; however, ACEH must make an important distinction to clarify the presumed location of the downgradient groundwater plume. A review of gradient maps suggests two differing flow paths are present at the site and vicinity. Site specific data indicates that the southwestern flow direction is a local vicinity flow direction that does not account for the installation of a Visqueen plastic barrier (arguably reported as impermeable) in close proximity to the western property line of the site. If impermeable, groundwater will be forced towards the north to northwest, or to the south around the barrier. A review of groundwater flow which is limited to the onsite flow pattern (and thus excludes data from well MW-6) indicates a consistent north to northwest flow towards Lakeshore Avenue through time, and thus towards utility corridors located in the street, from the southern or southeastern property line. In this view ACEH believes groundwater elevation data from well MW-6 is more representative of offsite areas including beneath Lakeshore Avenue, once the influence of plastic barrier is passed by. The depth to groundwater in MW-6 in comparison to onsite wells also appears to reflect the effects of a somewhat intact plastic barrier. This view may again in part be supported by the recently requested addition of TPHmo analysis, wherein higher TPHmo concentrations appear to bypass the main portion of the site (for example see analytical data from well MW-1 and the Sump), and might selectively increase downgradient as seen in data from grab groundwater samples collected in soil bores SB-8 and SB-9 (it is understood these maybe biased high; however, the downgradient bore SB-9 contained significantly higher concentrations than SB-8). Additionally, in this view TPHmo concentrations detected in MW-6 would help define the lateral extent of the downgradient expression of this analyte. Consequently,

ACEH believes it warranted that additional effort to define a groundwater plume along Lakeshore Avenue, and to evaluate the utility conduits in Lakeshore Avenue as preferential pathways is appropriate. It is reasonable that a plume in this location could exploit the multiple sanitary sewer lines or the northern storm drain line which directly discharges to Lake Merritt. As a consequence, ACEH requests inclusion of an additional phase of investigation along Lakeshore Avenue and receipt of a revised bore location map (Figure 2) to document the location of additional soil bores prior to implementation of the installation of this proposed task at the site and vicinity. If wells are contemplated, please include well installation details / protocols in a work plan addendum.

2. **Vapor Intrusion Investigation** – Thank you for the vapor intrusion investigation work plan. It is understood that site access is currently being discussed and that probe placement is pending location scouting. ACEH is in general agreement with the proposed investigation, with the following notes and modifications requested:
 - a. **DTSC Guidelines** – It is understood that the sub-slab probe installation procedure will follow the 2005 Region 8 EPA Guidelines. In addition please ensure the 2004 *Interim Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (including February 2005 revision) and the 2010 DTSC *Advisory – Active Soil Gas Investigation* are employed for the sub-slab probe installations. Because helium is proposed for use as a tracer, this is in addition requested to include use of a shroud to ensure retention of the tracer gas around the sampling train and a gloved entry in to the shroud to assist in that goal, consistent with these guidelines.
 - b. **Indoor and Outdoor Sampling Protocols** – ACEH notes that both 8-hour breathing zone indoor and outdoor samples are proposed to be collected in the work plan; however, use of a “Household Products” review of consumer products that have the potential to impact indoor air contaminants was not proposed. This recommendation is contained in DTSC guidelines. Please incorporate use a “Household Products” inventory in the undertaking, and in the final report, consistent with DTSC guidelines. Please ensure that DTSC ambient air sampling protocols are used.
 - c. **Risk Determination Factors** – DTSC guidelines also recommend a minimum of two indoor sampling events prior to generation of a final risk determination. Use of the default 100 fold attenuation factor (0.01) should be evaluated and justified, consistent with DTSC guidelines and trend.
 - d. **Vapor Intrusion Work Plan Addendum** – If changes other than those noted above are proposed, please incorporate them into a work plan addendum; otherwise a minimum submittal of a site vicinity plan with sub-slab probe locations and locations of sub-slab utilities is appropriate.
3. **General Comments** – The location of utility laterals appears to be a work-in-progress; in particular the location of the sanitary sewer line from the former restrooms at the subject site does not appear to be located, and may affect onsite contaminant flows. Please attempt to locate site utility laterals that lead to utility mains.

TECHNICAL REPORT REQUEST

Please submit the following deliverables and technical reports to ACEH (Attention: Mark Detterman), according to the following schedule:

- **July 15, 2011** – Updated Figures (soil bore and sub-slab locations) / Work Plan Addendum
- **August 26, 2011** – Soil and Groundwater Investigation Report with Vapor Intrusion Study
- **September 16, 2011** – Updated SCM

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.

Mr. Dave Patton
RO0000284
June 6, 2011, Page 3

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

Sincerely,

Mark E. Detterman, P.G., C.E.G.
Senior Hazardous Materials Specialist

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

cc: Nathan Lee, Connestoga-Rovers & Associates, Inc., 5900 Hollis Street, Suite A, Emeryville, CA 94608
(sent via electronic mail to nlee@crawlworld.com)

Donna Drogos (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman (sent via electronic mail to mark.detterman@acgov.org)
Electronic file, GeoTracker

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/).

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.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	REVISION DATE: July 20, 2010
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
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

- **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
 - 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 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.