



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
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April 18, 2012

Mr. Mark Horne
6111 Bollinger Canyon Road
San Ramon, CA 94583-2324
(sent via electronic mail to
MarkHorne@chevron.com)

Mr. David Patten
6111 Bollinger Canyon Road
San Ramon, CA 94583-2
(sent via electronic mail to
DRPatten@chevron.com)

Subject: Request for a Soil, Groundwater, and Soil Vapor Investigation Work Plan; Fuel Leak Case No. RO0000383 (Global ID # T0600100315), Chevron #9-0260, 21995 Foothill Boulevard, Hayward, CA 94541

Dear Messieurs. Horne & Patten:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above referenced site including the *Soil and Groundwater Report and Site Conceptual Model*, dated February 5, 2010, the *Remediation Summary Report*, dated February 11, 2010, the *Well Destruction Report*, dated January 19, 2012, and the *Fourth Quarter 2011, Groundwater Monitoring and Sampling Report*, dated January 24, 2012. The reports were prepared and submitted on your behalf by Conestoga Rovers Associates (CRA). Thank you for submitting the reports; they help document activities which have occurred over a period of time at the referenced site. The *Soil and Groundwater Report and Site Conceptual Model* documents the installation of ten CPT bores (on- and off-site), and four offsite soil bores along the San Lorenzo Creek channel in June 2005. The CPT bores identified a deep granular water-bearing zone beneath the site and vicinity. This report also documents that of the seven deep water-bearing zone wells subsequently proposed as followup to the CPT discovery of the deeper zone (as proposed in a November 2005 work plan, and approved in a November 2005 agency letter), only onsite well MW-19 has been installed. The report also documents the results of CPT soil vapor sampling and the community public notification and a door to door well survey questionnaire. The *Remediation Summary Report* documents remedial progress at the site, and documents the installation of a DPE system at the site, system startup, cycling of the system to investigate contaminant rebound, and eventual system shut down and a summary of performance metrics. This report recommended that contaminant rebound be monitored for two quarters after system shut down (December 2009); however, no further recommendations appear to have been issued. Review of the *Fourth Quarter 2011, Groundwater Monitoring and Sampling Report* indicates that contaminant rebound appears to be present in shallow water-bearing zone wells; however, of concern is significant post DPE system contaminant rebound in deep water-bearing zone well MW-19 (<50 µg/l to 32,000 µg/l TPHg, <0.5 to 10,000 µg/l benzene). This is within approximately 85 feet of a residential well (reported to be unused) and currently pending decommissioning by Chevron. The presence of significant concentrations of contamination in the deep water-bearing zone (both in previous times and again currently) indicates the upper and lower water-bearing zones are in connection, accounting for the presence of significant contamination in groundwater up to 30 feet below its first depth of encounter, and the continued presence of not insignificant residual mass beneath the site. As a consequence, and 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) Request for Contaminant Delineation / Remedial System Confirmation Sampling** – As indicated above, significant residual contaminant mass appears to be present at the site and site vicinity. It appears appropriate to investigate the location of potential residual-mass sources in an effort to limit the length of future remedial actions at the site. While the site and vicinity have a significant number of soil bores and wells it appears that the former UST excavation has not been directly investigated since removal of the USTs, nor has the pea gravel backfilled excavation been investigated for the presence of free-phase product. The 1996 UST removal report documents that free-phase product infiltrated into the UST excavation from the northeastern corner at the time of tank removal and that 960 gallons of groundwater and free-phase product were removed at that time. While extraction wells for the Two-Phased Extraction (TPE) and Dual-Phase Extraction (DPE) remedial actions were installed around the area of the excavation, the granular backfilled excavation does not appear to have been specifically targeted by an investigation. Based on the size of the groundwater plume ACEH suspects additional free-phase may have been, or may be, present. Installation of a soil bore through the former UST pit has been a request since a July 22, 2004 directive letter, and at a minimum the placement of a bore at this location remains unfulfilled.

At present, soil analytical data collected to date appears to have found a very limited extent of shallow soil contamination to be present at the site, namely in the vicinity of the former dispenser islands. It would appear appropriate to attempt to identify shallow, or other, residual-mass sources that continue to contribute mass to groundwater. Because the site is fully unpaved, the yearly weather cycle may be flushing residual contamination to groundwater.

The *Soil and Groundwater Report and Site Conceptual Model* also identified lateral delineation of the groundwater plume to the south as a data gap, and proposed the installation of a well in Hazel Street to fill that data gap due to an inability to gain access to properties across Rex Road. ACEH is not in agreement with the installation of a well 400 to 500 feet laterally to fill this data gap. ACEH is also not aware of an effort to access properties across Rex Road. If this information and effort has been overlooked, please inform ACEH of the location of this information. Please also be aware that ACEH can provide assistance in accessing property across Rex Road, and can issue letters requesting property access cooperation to, and by, offsite property owners.

The request for onsite bores can additionally provide initial confirmation sampling for all previous remedial efforts that have occurred at the site. This is a standing request since the July 22, 2004 ACEH directive letter, that appears to have previously been set to the side according to the cited reports, due to the recognized need for additional remedial actions. As a consequence ACEH requests a work plan, by the date identified below, to conduct this work. Because these bores will have a differing purpose than those requested above, ACEH requests delineation of the purpose of each proposed bore.

- 2) Request for Soil Vapor Survey and Community Building Stock Survey** – ACEH is in agreement that conducting a soil vapor survey, identified as a data gap in the *Soil and Groundwater Report and Site Conceptual Model* report, is appropriate. The most recent soil vapor samples were collected onsite in July 2005, and substantial changes in collection protocols of soil vapor have occurred since that time. Consequently, ACEH requests the submittal of a soil vapor work plan that uses current DTSC protocols, by the date referenced below. Because of the documented presence of methane beneath the site and vicinity the soil vapor survey is requested to include standard atmospheric gases (oxygen, nitrogen, and carbon dioxide) as well as methane.

As a part of this effort, ACEH also requests a neighborhood building survey due to the relative age of the residential building stock and the potential for basements in buildings of this general vintage. This is requested to include building foundation type for surveyed structures to preclude additional inquiries. Plots of residential wells, basements, and any other structure of import, in addition to pertinent soil and groundwater plume details, on an aerial photographic base map would allow rapid

assessment of potential affects to the local community; please include these. We request you submit the results of the inquiry into the presence of basement structures and foundation type on an aerial photographic base map in the work plan requested above, according to the schedule below. Please use this data to determine appropriate offsite vapor well locations.

- 3) Request for Draft Corrective Action Plan and Draft Fact Sheet** – The reports cited above indicate that remedial efforts at the site ceased in December 2009 and recommended that the site be observed for rebound for two quarters. Initial data collected from the period following system shutdown appears to indicate limited rebound; however, after a full two years more recently collected data indicates substantial rebound is underway. As a consequence, ACEH requests additional remedial efforts be undertaken, and that a draft Corrective Action Plan (CAP) and a draft Fact Sheet be submitted by the date identified below. The data collected for Technical Comments 1 & 2 above are intended to be used in the draft CAP.

To clarify, the draft CAP is intended to meet the provisions of Section 2725 of the UST regulations (Title 23, California Code of Regulations, Chapter 16). The draft CAP must include a concise background of soil and groundwater investigations performed in connection with this case and an assessment of the residual impacts of the chemicals of concern (COCs) for the site and the surrounding area where the unauthorized release has migrated or may migrate. The draft CAP should also include, but is not limited to, a detailed description of site lithology, including soil permeability, receptor information including likely future land use scenarios, adjacent land use and sensitive receptors, and potential groundwater receptors, and most importantly, contamination cleanup levels and cleanup goals, in accordance with the San Francisco Regional Water Quality Control Board (SFRWQCB) 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 the SFRWQCB Basin Plan. Please specify appropriate cleanup levels and cleanup goals in accordance with 23 CCR Section 2725, 2726, and 2727 in the Draft CAP.

The draft CAP must evaluate at least three viable alternatives for remedying or mitigating the actual or potential adverse affects of the unauthorized release(s) besides the 'no action' and 'monitored natural attenuation' remedial alternatives. Each alternative shall be evaluated not only for cost-effectiveness but also its timeframe to reach cleanup levels and cleanup goals, include a discussion of the feasibility and limitations for each remedial alternative, a detailed description of proposed remediation including confirmation sampling and monitoring during implementation, and post-remedial monitoring.

Public participation is a requirement for the CAP process. Therefore, we request that you submit a draft CAP and a draft Fact Sheet for ACEH review as identified below. Upon ACEH approval of a draft CAP and Fact Sheet, affected members of the public who live or own property in the surrounding area are to be notified. Public comments on the proposed remediation will be accepted for a 30-day period. Please also provide future development plans for the site to help in evaluation of the receptor information and proposed cleanup goals.

- 4) Groundwater Monitoring Analytical Program** – Based on up to four lines of evidence ACEH requests the inclusion of standard waste oil constituents (TPH_{mo}, TPH_d, chlorinated hydrocarbons, LUFT metals [pre-filtered or lab filtered without acidification], PCBs and PNAs) from wells proximal to the site (MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-11, MW-12, and MW-19) in the next regularly scheduled groundwater monitoring event. The referenced *Soil and Groundwater Report and Site Conceptual Model* report indicates that in the December 1987 vapor survey at the site, a predominance of detected compounds were reported as "peaks prior to benzene"; typically these may include chlorinated solvent peaks. The referenced *Groundwater Monitoring and Sampling Report*, also contains several footnotes (footnotes 9 & 10 specifically) that can suggest contaminant peaks lighter than standard fuel hydrocarbons at the site. Additionally the case file contains a December 30, 1987 inventory of USTs at the site which was sent to the Hayward Fire Department as part of an annual review of the facility Business Emergency Plan. The inventory reported three gasoline USTs,

and one 1,000-gallon waste oil UST. The waste oil UST has not otherwise been reported at the site. Finally, the previously discussed presence of elevated fuel hydrocarbons up to 30 feet below first encountered groundwater suggests the potential for solvents beneath the site. Depending on these results, this request is anticipated to be modified in future groundwater monitoring events.

- 5) Request for Status of Residential Well Destruction Effort** – The referenced *Soil and Groundwater Report and Site Conceptual Model* report indicates that Chevron had committed to decommissioning of the residential backyard well at 1180 Rex Road; however, an access agreement had not been executed by the time the property sold in 2007. The report also indicated that the well would be decommissioned in 2010 once an access agreement could be finalized with the new owner(s). ACEH requests a status update of this effort by the date identified below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Mark Detterman), according to the following schedule:

- **May 25, 2012** – First Quarter 2012 Groundwater Monitoring
- **July 27, 2012** – Work Plan for Soil, Groundwater, and Soil Vapor (with Building Stock Survey Results and Status of Residential Well Destruction Effort)
- **August 30, 2012** – Second Quarter 2012 Groundwater Monitoring
- **60 Days After Work Plan Approval** – Soil and Groundwater Report (SWI)
- **90 Days After SWI Report Approval** – Draft Corrective Action Plan with Draft Fact Sheet

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

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, PG, CEG
Senior Hazardous Materials Specialist

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

cc: Brandon Wilken, Conestoga-Rovers & Associates, 5900 Hollis Street, Suite A, Emeryville, CA 94608; (sent via electronic mail to: BWilken@craworld.com)

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

Attachment 1

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.