



ENVIRONMENTAL HEALTH DEPARTMENT
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
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July 30, 2010

Mr. Walter Pierce
Western Forge & Flange Co.
687 Country Rd 2201
Cleveland, TX 77327
(sent via electronic mail to wpierce@western-forge.com)

Subject: Request for Data Gap Work Plan; Spills, Leaks, Investigations and Cleanup (SLIC) Case No. RO0003009 and Geotracker, Global ID # T10000001598; Western Forge & Flange, 540 Cleveland Ave. Albany, CA 94706

Dear Mr. Pierce:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the most recently submitted documents as itemized in the February 8, 2010 *Response to Request for Information*, which was submitted on your behalf by Chemical Data Management Systems (CDMS). Thank you for submitting the documents to ACEH, and thank you for uploading the documents to Geotracker. A number of questions were generated as a result of the review of these documents. This letter is a request for a data gap work plan intended to collect additional data at the site to help clarify these questions. We request that you address the following technical comments and prepare a Data Gap Work Plan detailing work to be performed, and send us the technical reports requested below.

TECHNICAL COMMENTS

1. **Professional Registration and Perjury Statement** – Please be aware that all reports or work plans requiring geologic or engineering evaluations or technical judgments must be performed under the direction of a California Professional Engineer, Certified Engineering Geologist, Professional Geologist, or Certified Hydrogeologist per the California Business and Professions Code (Sections 6735, 7835, and 7835.1). These reports require both the signature and stamp, including registration number and expiration date, of the registered professional.

Additionally a perjury statement, signed by the overseeing Responsible Party, is required by ACEH for all technical submittals. Additional details for both of these requirements can be obtained from Attachment 1, *Responsible Party (ies) Legal Requirements / Obligations*.

2. **Remediation Goals** – CDMS has proposed using the gross level of contamination for soil and groundwater, as defined in the San Francisco Regional Water Quality Control Board (SF RWQCB) Environmental Screening Level (ESL) document, as an appropriate goal. This is largely based on contaminant concentrations acceptable at the time of site closure of earlier investigations by the SF RWQCB in 1986, as well as the State Water Resource Control Board (SWRCB) permanent exemption of hydraulic fuel lift tanks from regulatory compliance permitting in 1995 due to limited human health and a perceived limited, but unevaluated, environmental toxicity from a release of hydraulic oil. Since 1986 our understanding of contaminant toxicity has progressed significantly and the frequently updated RWQCB ESLs incorporate recent toxicological advances and findings, including those for non-human species, into the published ESL values, as summarized in Tables A through D, and supported in the remaining tables.

Associated with the identification of appropriate remediation goals is a limited understanding of subsurface geology at the site and the vicinity. ACEH acknowledges the generalized descriptions of subsurface geology provided by CDMS from soil bores installed by CDMS; however, because the site

sits at the mapped edge of alluvial soils and bay fill (*Geologic Map and Map Database of the Oakland Metropolitan Area, Alameda, Contra Costa, and San Francisco Counties, California*, USGS Miscellaneous Field Study MF-2342, dated 2000), in-filled former estuary channels and granular fill can provide preferential pathways for contaminants to the surface waters of the San Francisco Bay. While the potential for these conduits have not been investigated, the collection of additional analytical and geologic data may help preclude the need to substantially investigate their presence.

Regardless, as a consequence of these considerations, cleanup to a gross level is not appropriate; however, cleanup to appropriate remedial levels is not anticipated to be unattainable based on analytical data submitted to date for the site. Please identify an appropriate remediation goal in the work plan requested below.

3. **Identified Data Gaps and Data Gap Work Plan** – A review of the submitted data and supporting documents suggest the following areas of potential concern have data gaps that require further information or underground investigation. Please incorporate each of the identified data gaps enumerated below in to the data gap work plan requested below:
 - a. **Ring Roller Pit** – Grab groundwater collected from soil bore 103 has been used to help document the lateral extent of free phase hydraulic oil encountered initially at a depth of approximately 2.5 feet, and subsequently in granular fill around the pit. While a groundwater gradient has not been established at the site (and submitted older documents to not appear to have addressed or established), bore 103 helps address migration concerns; however, additional soil bores appear warranted to preclude migration towards the northwest. The reduction of groundwater concentrations in pit groundwater from early or pre- to post-remediation would also demonstrate the effectiveness of actions.
 - b. **Lateral Definition of Excavations** – CDMS has proposed a five point composite of hot spot overexcavations conducted around former soil bores 5, 6B, 106, and 107. While an appropriate screening tool, composite sampling has limited usefulness in determining if removal of contamination to appropriate remediation goals has been achieved in all directions. Step-out soil bores or discrete authoritatively placed (at signs of staining, odor, photoionization detections) sidewall and bottom samples are useful techniques to determine that the extent of removal is appropriate. For larger excavations sidewall samples authoritatively collected at approximately 20 foot intervals a standard perimeter sampling methodology (as well as collected at the base of an excavation, if possible). Existing analytical data may indicate that the extent of removal has been appropriate vertically; however, if the data has not been collected, additional sampling to define the vertical extent is appropriate.
 - c. **Waste Oil ASTs** – A waste oil AST appears to have been present at the rear of the facility, adjacent to the oil-water separator (OWS). A second waste oil AST may have been present at the northern end of the Forge Area (Grid O25 as specified in the Hazardous Material Inventory Sheets; 14th page). Soil sampling beneath these locations do not appear to have been conducted, although concrete removal was observed during a site visit at the rear of the facility suggesting a level of concern may have existed sufficient to investigate. Please clarify and address this data gap in the work plan requested below.
 - d. **Oil-Water Separator** – A brief conduit study was conducted and submitted in the referenced document. The study found that most underground utilities were located at the front of the building, and that overhead utilities were hung off the superstructure towards the western portion of the buildings. The presumed discharge line for the OWS was not discussed. Please discuss the method of discharge from the OWS and if appropriate propose a underground assessment.
 - e. **Roof Blowdown** – Surface staining in the vicinity of the roof discharge line at the rear of the property was apparent and has been sampled in soil bore 111. Hydrocarbons do not appear

to at issue at this location; however, both nickel and zinc were elevated above ESLs. Additionally copper, a metal of concern during assessment work in the 1980's was not assessed at this location or other sampling locations at the site. Please define the extent of elevated metal concentrations at this location.

- f. **Analysis for Copper** – As noted analysis for copper appears to have been neglected during recent site investigations, but was a contaminant of concern during investigations conducted in the 1980's. Please include analysis for copper in future soil samples submitted at the site and please include a resampling of elevated metal soil sample locations for copper to the extent practicable in the data gap work plan requested below.
- g. **Elevated Groundwater Metal Concentrations** – Analysis of most groundwater samples yielded elevated concentrations of one or more metals over ESLs and may need further investigation. Sampling protocols for groundwater metals analysis specifically did not discuss sample preservation or filtering. Please discuss the genesis of the groundwater results and if this data gap requires further investigation in the work plan requested below.

TECHNICAL REPORT REQUEST

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

- **October 1, 2010** – Data Gap Work Plan
- **60 Days After Work Plan Approval** – Soil and Groundwater Investigation 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.

Sincerely,

Mark E. Detterman, PG, CEG
Hazardous Materials Specialist

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

cc: James Carro, Chemical Data Management Systems, 6515 Trinity Ct., Suite 201, Dublin, CA 94568, (sent via electronic mail to jim@cdms.com)
Fredric Hoffman, Contaminant Hydrogeologist, (sent via electronic mail to fredric.hoffman@gmail.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, e-Files

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.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 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 dehloptoxic@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 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.