

R-2611

CAMBRIA

August 15, 2005

Mr. Jerry Wickham
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway
Alameda, CA 94502

Alameda County
AUG 18 2005
Environmental Health

Re: **Additional Investigation Workplan Addendum**
Former Chevron SS #9-0261 (Site #304291)
3884 First Street
Livermore, California
Cambria Project No. 31H-2036



Dear Mr. Wickham:

Cambria Environmental Technology, Inc. (Cambria) has prepared this Additional Investigation Workplan Addendum for the site referenced. This addendum details the additional scope of work to include collection of soil vapor samples from selected CPT borings. These data will be used to conduct an evaluation of risk by the potential volatilization of hydrocarbon vapors from residual hydrocarbons in the subsurface.

Please add this addendum to the workplan submitted August 5, 2005. We currently are scheduled to commence field activities on September 6. Please review the workplan and this addendum and direct any questions or concerns you may have to me at (510) 420-3348 or by email at bfoss@cmabira-env.com. We wish to resolve any issues you may have so as to keep this schedule.

Sincerely,
Cambria Environmental Technology, Inc.

Robert Foss, P.G.
Associate Geologist

cc: Mr. J. Mark Inglis, Chevron, P.O. Box 6012, San Ramon, CA 94583
Mr. Steven Cloudsley, Real Estate Consulting, 1561 Ramona Way, Alamo, CA 94507
Mr. Jon Robbins, Chevron, P.O. Box 6012, San Ramon, CA 94583
Ms. Susan Gallardo, GeoMatrix Consultants, Inc., 2101 Webster Street,
12th Floor, Oakland, CA 94612

**Cambria
Environmental
Technology, Inc.**

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

Environmental Management
Company
6001 Bollinger Canyon Rd, K2256
P.O. Box 6012
San Ramon, CA 94583-2324
Tel 925-842-1589
Fax 925-842-8370

J. Mark Inglis
Project Manager

8/15/05
(date)

ChevronTexaco

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Alameda County
AUG 18 2005
Environmental Health

Re: Chevron Service Station # 9-0261 (304291)
Address: 3884 First Street, Livermore, CA

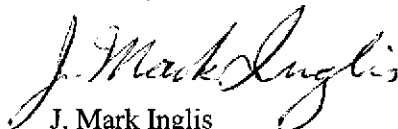
I have reviewed the attached report titled Additional Investigation Workplan
and dated _____.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Cambria Environmental Technology, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,


J. Mark Inglis
Project Manager

Enclosure: Report

August 15, 2005

Mr. Jerry Wickham
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway
Alameda, CA 94502



Re: **Additional Investigation Workplan Addendum**
Former Chevron SS #9-0261 (Site #304291)
3884 First Street
Livermore, California
Cambria Project No. 31H-2036

Dear Mr. Wickham:

Cambria Environmental Technology, Inc. (Cambria) has prepared this additional investigation workplan addendum for the site referenced above on behalf of Chevron Environmental Management Company (Chevron). The original workplan was written in response to your letter, dated June 23, 2005, and was submitted to you on August 5, 2005. The reason for this addendum is to describe the addition of vapor sample collection to the original scope of work in five of the proposed Cone Penetrometer Testing (CPT) boring locations. Below is a description of the additional proposed scope of work for the next phase of site investigation.

ADDITIONAL PROPOSED SCOPE OF WORK

Resulting from the intended redevelopment of the site as high-density residential condominiums, the concern regarding potential volatilization of residual hydrocarbons to indoor air has prompted Chevron to offer to collect vapor samples along with soil and grab groundwater samples from five or the originally proposed 12 CPT borings. These five borings are located within the area previously identified as containing residual hydrocarbons, presumably from the second generation service station facilities. The specific CPT borings from which we intend to collect soil vapor samples are designated on the attached Figure 3 (We have designated this as Figure 3 to be sequential with the original workplan). The activities required to safely advance these CPT borings are described in the previously submitted workplan. The additional activities to collect soil vapor samples are described below.

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Technology, Inc.**

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C A M B R I A



CPT Soil Borings with Soil Vapor Sampling: Cambria intends to advance CPT borings across the site to define the horizontal and vertical extents of hydrocarbon impacts beneath the site. In order to collect data to conduct a risk evaluation of the potential for increased cancer risks due to volatilization of hydrocarbon vapors to indoor air, a soil vapor sampling tool will be driven to specific depths in specific borings and samples will be collected using 1-liter summa canisters and following Active Soil Gas Investigations Advisory Document published by the Los Angeles Region – California Regional Water Quality Control Board and Department of Toxic Substances Control. Specific depths for sampling will be determined based on previously acquired data from the April 2005 subsurface investigation and from the soil profile log generated using the CPT technology. An initial boring will be advanced to generate the stratigraphic profile. Upon evaluation of the stratigraphic sequence, a second boring will be advanced adjacent to the first and soil, grab groundwater and soil vapors will be collected at specific depths. The collection of soil vapors will provide a vertical and horizontal profile of conditions within the impacted area and conditions in the “buffer zone” between the area of known impact and the footprint of the nearby future buildings.

Chemical Analysis: Soil vapor samples will be analyzed for the following constituents:

- TPHg, benzene, toluene, ethylbenzene, xylenes, MTBE by EPA Method TO-14A.

Reporting: Upon completion of field activities and review of the analytic results, we will prepare an investigation report that, at a minimum, will contain:

- Descriptions of the drilling and sampling methods;
- Boring logs;
- Tabulated soil, grab groundwater and soil vapor analytic results;
- Analytic reports and chain-of-custody forms;
- Soil and water disposal methods;
- An evaluation of risk from potential vapor inhalation by future residents and
- Conclusions and recommendations.

SCHEDULE

As stated in the original submittal, Cambria will proceed with the proposed scope of work upon receiving written approval from the ADEH. We will submit a report documenting our results approximately six weeks after receipt of sampling results. However, we will be available to meet

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with the developers, the City of Livermore and ACEH shortly after receipt of analytic results in order to accelerate the process of redevelopment, if that is deemed helpful.

CLOSING

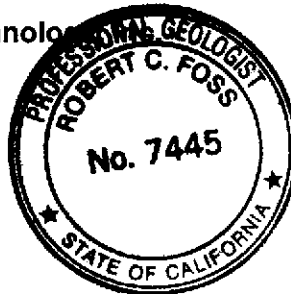
We appreciate the ability to submit this addendum to the August 5, 2005 workplan and await your review and comments. We, along with representatives of Livermore Honda and their perspective buyers, are available to meet with you to discuss any components of the workplan. Please contact Robert Foss at (510) 420-3348 if you have any questions or comments.



Sincerely,
Cambria Environmental Technology

Robert Foss

Robert Foss, P.G.
Associate Geologist



Figures: 3 – Site Plan with Proposed CPT/Soil Vapor Sample Borings

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Site Plan with Proposed CPT/
Soil Vapor Sample Borings



Former Standard Oil Service Station 9-0261

(Site No. 304291)
3884 First Street
Livermore, California

FIGURE
3

13084251 LVT\MOREPULVER\RES\STEP\PLAN.DWG