

C A M B R I A

June 7, 2004

Mr. Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: **Conduit Study**
Former Chevron Station No. 9-0260
21995 Foothill Blvd.
Hayward, California

REC'D
JUN 10 2004
Environmental Health

Dear Mr. Seery:



As requested by Chevron Environmental Management Company (Chevron), Cambria Environmental Technology Inc. (Cambria) has conducted a conduit study for the area surrounding the site referenced above (Figure 1). Our objective was to identify utilities that could potentially provide pathways of preferential migration of hydrocarbon impacted groundwater from the former Chevron service station. A summary of findings are illustrated on Figure 2. Three utilities were identified on the blocks surrounding the site. These were identified as storm drains, sewer lines and water lines. The depths indicated on Figure 2 reference the bottom depth of these lines. Each contacted utility indicated that the bottom of each trench would lie approximately 1 foot below the indicated bottom of the lines.

Information regarding the depth of each utility compared to depth to water (DTW) measurements reported in the Gettler-Ryan Quarterly Groundwater Monitoring reports indicate that it is unlikely that utilities have allowed preferential groundwater migration at any time in the past. DTW measurements indicate groundwater, beneath and near the site, have, with minor exceptions, never been less than 9 feet below grade (fbg). The only exceptions to this are documented in well MW-10. This well is located in the landscaped dividing strip in Foothill Blvd. This well is located up-gradient of the site and is subject to elevated groundwater levels due to landscape irrigation.

Information obtained from individual utilities indicates that the base of water line and storm drain trenches are at depths less than 7 fbg. Sanitary sewer line trenches are indicated at a maximum depth of 9-11 fbg. The deepest indicated trench depth is shown along Hazel Street, approximately 300 feet southeast and cross-gradient from the estimated lateral edge of the groundwater plume. The trench depth of the sewer line along Rio Vista Street is approximately 9 fbg. This sewer line traces directly across the distal portion of the dissolved groundwater plume. However, DTW measurements in well MW-16, located directly adjacent to the trace of this sewer line, have never been shallower than 14 fbg. This, based on available data, suggests no preferential migration would have ever had occurred along this sewer line.

Cambria
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Conclusion

Utility construction details, along with historical depth to water measurements, suggest that preferential groundwater migration through utility trenches has not occurred in the vicinity of the subject site. Please contact Robert Foss at (510) 420-3348 if you have any questions or comments regarding information presented in this letter.

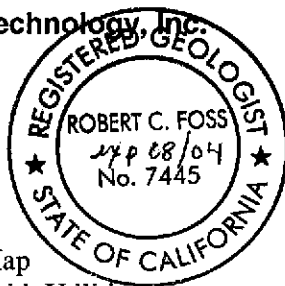
Sincerely,

Cambria Environmental Technology, Inc.



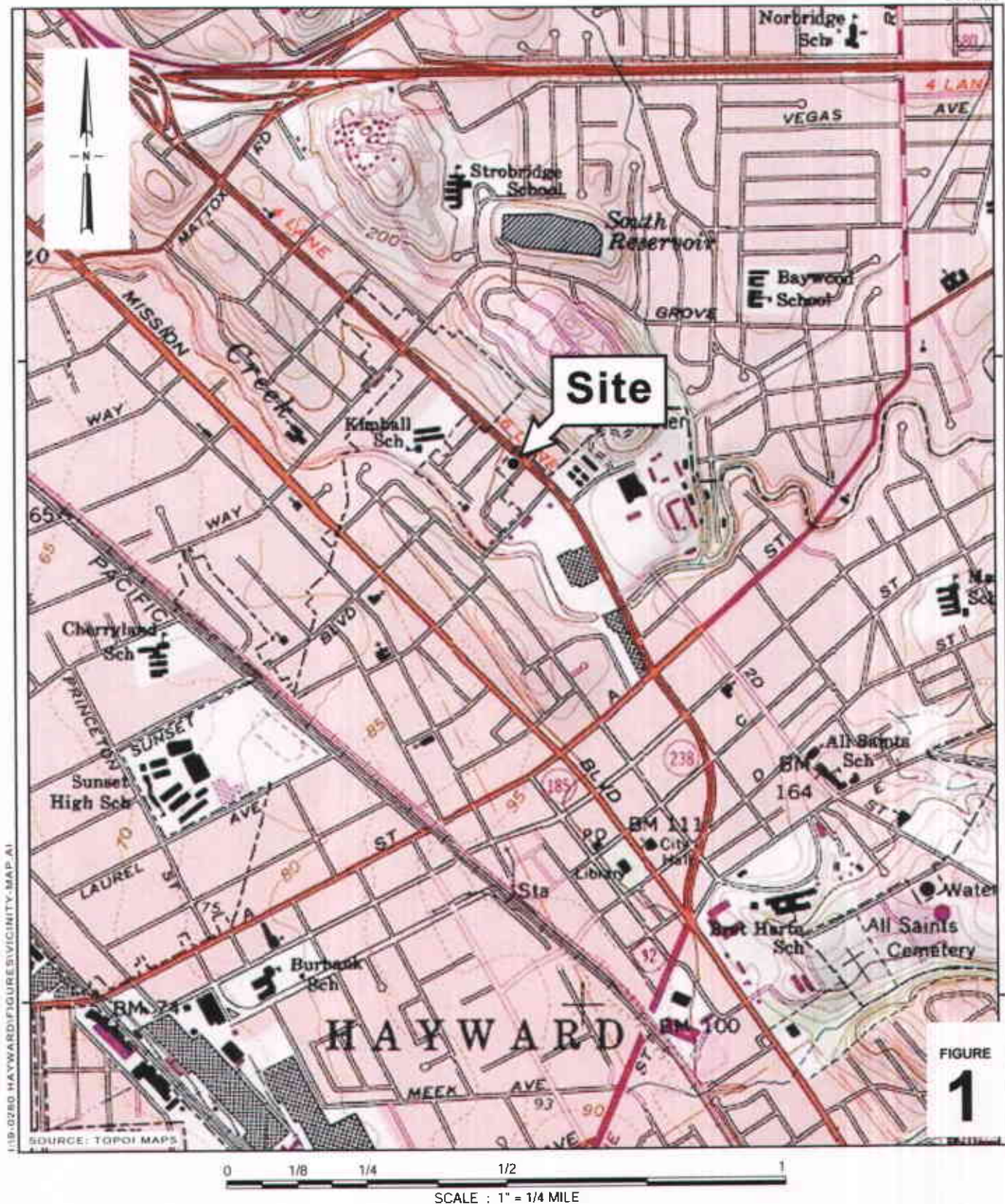
Robert Foss

Robert Foss, R.G.
Associate Geologist



Figures: 1 – Vicinity Map
2 – Site Plan with Utilities

cc: Ms. Karen Streich, ChevronTexaco, P.O. Box 6012, San Ramon, CA 94583
Mr. Danilo Galang, Hayward Fire Dept., 777 B Street, Hayward, CA 94541



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Vicinity Map

