

April 28, 1999

Mr. Vance Williams
Hidden Pond Homeowners Association
805 Hidden Pond Court
Lafayette, CA 94549

RE: Proposal for Services
Construction Observation and Testing Services
Repair of Landslides No. 1 and 2
Hidden Pond Homeowners Association (Tract 6769)
Lafayette, California

Dear Mr. Williams:

Geolith Consultants is pleased to present this proposal to perform construction observations and provide compaction testing for the repair of Landslide No. 1 along the descending slope below 805 Hidden Pond Court, and Landslide No. 2 in the open space area within the northwest corner of the association property.

PURPOSE AND SCOPE

The purpose of our construction observation and testing (COT) services is to validate our assumptions of subsurface conditions, as stated in our Preliminary Geotechnical Investigation Report dated February 5, 1999, and to advise the contractor in regards to any changes in subsurface conditions that may be detected during grading, in accordance with Sections 3313 and 3317 of the Uniform Building Code (UBC, in Appendix Chapter 33). We would also provide on-site testing of soil compaction, to aid the contractor in placement of engineered fill, in accordance with Section 3313.4 of the UBC. The following is a list of tasks that will be performed at the site for this phase of work:

- Observe and approve all excavations associated with the toe-of-fill keyway and removal of the active portion of the landslide as well as the underlying ancient landslide mass prior to fill placement for landslide No. 1 (UBC Ch. 33 A Sec. 3315.3 and 3317.4).
- Perform compaction testing on the fill soils for landslide No. 1. Our February 5, 1999 report indicates that all fill should be moisture conditioned to at least 2% above optimum moisture

content and compacted to a relative compaction of not less than 90% according to ASTM D 1557-91 (UBC App Ch 3305 and 3313.4).

- Observe and approve the installation of the recommended subdrain, drain rock, and the geotextile located along the back of the toe-of-fill keyway, at the mid slope height and at the upper slope height, including outlets and cleanouts for landslide No.1 (UBC App Ch 3315.3).
- Observe and approve the corrective grading and installation of subdrains, Drain rock for landslide No. 2 (UBC App Ch 3315.3).
- Preparation of a final report of compliance that will be submitted to the County, in accord with UBC App Ch 3318, all sections. This report will include our field compaction test and laboratory test data, and a site plan indicating the limits of compacted materials for the repair/mitigation of the landslides.

COST ESTIMATE

Pre-Grade Meeting with Contractor:

Senior Geologist/Engineer	2hr @ \$105/hr	=	\$ 210.00
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Field Observations and Compaction Testing:

Senior Geologist/Engineer	20hr @ \$105/hr	=	\$ 2,100.00
Engineering Technician	60hr @ \$65/hr	=	\$ 3,900.00

Laboratory:

Compaction Curves	2 @ \$150/test	=	\$ 300.00
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Office Report Preparation:

Principle Geologist/Engineer	2hr @ \$180/hr	=	\$ 360.00
Senior Geologist/Engineer	4hr @ \$105/hr	=	\$ 420.00
Project Geologist/Engineer	4hr @ \$90/hr	=	\$ 360.00
Graphic Technician	6hr @ \$60/hr	=	\$ 360.00
Administration	2hr @ \$55/hr	=	\$ 110.00

Miscellaneous Costs:

Mileage Costs, Photo Development, Etc.	Estimated Cost	=	\$ 150.00
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ESTIMATED TOTAL		=	\$ 8,270.00
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CLOSURE AND LIMITATIONS

Our cost estimate is based on a 5-day workweek with the project extending for a time period of approximately 3 weeks. If the construction of the repair/mitigation landslides extends beyond 3 weeks, or if we are needed for additional construction-related items, our cost estimate will be billed on an hourly rate as shown on the attached Schedule of Charges and Terms. For budgeting purposes, we suggest that you overestimate our anticipated costs by approximately 20% and allow for an overall total cost of approximately \$ 10,000.00.

TERMS AND CONDITIONS

We ask that you sign and return a copy of this proposal to us. Our final costs for the project will be billed monthly, and will be due upon receipt. If you have any questions regarding this project, please contact us at (925) 682-7601.

Sincerely,

GEOLITH CONSULTANTS, INC.

Patrick L. Drumm, RG, CEG, CHG
Senior Engineering Geologist

Approved By: _____ Date: _____