GEOLABS, INC.
Geotechnical Engineering and Drilling Services

June 15, 2000
W.O. 3917-10

Mr. Gary Q.L. Yee, Director
City & County of Honolulu
Department of Design & Construction
650 South King Street, 11th Floor
Honolulu, HI. 96813

PROGRESS REPORT NO. 1
PHASE III – INSTRUMENT MONITORING
KUAHEA STREET AREA MOVEMENT
PROJECT NO. 97504
PALOLO, OAHU, HAWAII

Dear **Mr. Yee:**

This first quarterly report is presented to summarize our progress on the Kuahea Street Area Movement project. This report provides summary information pertaining to the status of the Phase II field exploration and installation of instrumentation. In addition, a summary of the earth movements and subsurface water levels detected to-date during the Phase III instrument monitoring effort is provided.

PHASE II – FIELD EXPLORATION

The field exploration consisted of drilling and sampling 13 borings ranging in depths from about 43 to 100 feet below the existing ground surface. Of the 13 borings drilled, inclinometer casings (identified as Boring Nos. I-1 through I-7) were installed in seven of the borings. The inclinometer casing installations ranged in depths from about 60 to 92 feet below the existing ground surface.

Six of the 13 borings were converted to nested piezometer installations (identified as Boring Nos. P-1 through P-6). The nested piezometers consisted of screened pipe casings set to monitor the potential for groundwater in discrete 10-foot length intervals in the subsurface. The piezometer borings ranged in depths from about 43 to 69 feet below ground level.

The field exploration and the installation of subsurface monitoring instruments were conducted in general accordance with our revised fee proposal dated December 1, 1997. The location of the proposed borings and instruments were originally outlined on the Proposed Exploration Plan (Plate 6) of our report entitled "Phase I Progress Report, Kuahea Street Area Movement, Project 97504, Palolo, Oahu, Hawaii," dated May 27, 1999.

During the course of the field exploration, some modification to the originally proposed exploration program was implemented. The modifications were implemented as a result of our analyses of information obtained as the exploration progressed. In general, some boring