



March 16, 2006  
W.O. 3917-40

**Mr. Eugene Lee**  
c/o Mr. Grant Odo  
**City & County of Honolulu**  
**Department of Design & Construction**  
650 South King Street, 11<sup>th</sup> Floor  
Honolulu, HI 96813

**PROGRESS REPORT NO. 10**  
**PHASE III – ADDITIONAL INSTRUMENT MONITORING**  
**KUAHEA STREET AREA MOVEMENT**  
**PROJECT NO. 97504**  
**PALOLO, OAHU, HAWAII**

Dear **Mr. Lee:**

This tenth progress report is presented to summarize our work efforts and the results of the additional field instrumentation monitoring conducted for the Kuahea Street Area Movement project located in Palolo Valley on the Island of Oahu, Hawaii. The approximate location of the project site is shown on the Project Location Map, Plate 1. Our work was performed in general accordance with our fee proposal dated October 10, 2003 and Amendment No. 4 for Engineering Services for the Kuahea Street Area Movement Project, Contract No. F-60578, CIP No. 97504.

This progress report provides summary information pertaining to the results of our monitoring of earth movements and subsurface water levels (Phase III - Instrument Monitoring). The report summarizes the field data and observations that were collected during three sets of site visits performed over a 6-month monitoring period. The first set of monitoring visits was performed on May 26, 27 and June 2, 2005. The second set of monitoring visits was performed on July 13 and 15, 2005. The third set of monitoring visits was rescheduled and performed on September 14 and 19, 2005.

This report is our second semi-annual progress report covering the twelve-month instrument-monitoring period, which commenced September 1, 2004 and expired on August 31, 2005.

**REPORT SUMMARY**

Based on our review of the inclinometer data recorded during the past six-month monitoring interval, it appears the earth movements recorded at the upper portion of the Waiomao Landslide and within Area "A" of the western portion of Kuahea Street have