



GEOLABS, INC.

Geotechnical Engineering and Drilling Services

March 6, 2012
W.O. 3917-120

Mr. Michael Yamasaki, P.E.
City & County of Honolulu
Department of Design & Construction
650 South King Street, 15th Floor
Honolulu, HI 96813

PROGRESS REPORT NO. 23
PHASE III – ADDITIONAL INSTRUMENT MONITORING
KUAHEA STREET AREA MOVEMENT
PROJECT NO. 97504
PALOLO, OAHU, HAWAII

Dear **Mr. Yamasaki**:

Our semi-annual Progress Report No. 23 summarizes our work efforts and the results of the additional field instrumentation monitoring conducted for the *Kuahea Street Area Movement* project in Palolo Valley on the Island of Oahu, Hawaii. The approximate project location is shown on the Project Location Map, Plate 1.

Our work was performed in general accordance with our fee proposal dated October 7, 2010 and Amendment No. 11 for Engineering Services for the Kuahea Street Area Movement Project, Contract No. F-60578, CIP No. 97504.

This progress report provides summary information resulting from our monitoring of earth movements and subsurface water levels (Phase III - Instrument Monitoring). Our report summarizes the field data and observations that were collected during three scheduled monitoring visits performed over a six-month monitoring period. This report is our first semi-annual progress report covering the twelve-month instrument monitoring period, which officially commenced August 1, 2011 and expires July 31, 2012. The three regular scheduled instrumentation-monitoring visits were conducted as follows:

- Monitoring Visit 1: October 5, 6, and 7, 2011
- Monitoring Visit 2: November 21, 22, and 23, 2011
- Monitoring Visit 3: January 17, 18, and 19, 2012