



# University of Hawaii at Manoa

**Environmental Center**  
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January 16, 1987  
RP: 0070

District Engineer  
U.S. Army Corps of Engineers  
Building 230  
Fort Shafter, Hawaii 96858

Dear Sir:

Re: Public Notice No. PODCO-O 1967-SD  
Rock Revetment, Nawiliwili Harbor  
Kauai, Hawaii


We have reviewed the above cited public notice and accompanying drawings of the proposed construction of a rock revetment in Nawiliwili Harbor with the assistance of Frans Gerritsen, Ocean Engineering and Ralph Moberly, Geology and Geophysics.

No particular adverse affects related to flushing, longshore currents or tsunami hazards are expected to result from this project. Wave energy is not likely to be redirected significantly due to the porous nature and slope of this rock revetment.

The one area of concern raised by our reviewers involves the siting of the toe of the breakwater and the base on which the "toe" is laid. If the substructure is soft, ie., shifting sands, then some reinforcement of the base perhaps with a geo-textile filter or similar bottom supporting fabric and construction material should be considered else slippage of the structure could occur. If the present base is solid, ie., coral or rock, then no filter would be needed. The slope of 1:2 seems reasonable and appropriate.

We appreciate the opportunity to offer comments.

Yours truly,

  
Jacquelin N. Miller  
Acting Associate Director

cc: OEQC  
Stephen Lau  
Frans Gerritsen  
Ralph Moberly