



4 November 2003

INFORMATION PAPER

SUBJECT: Alenaio Stream Flood Control, Hilo, Hawaii

1. Purpose: To provide information on the subject project.
2. Points of Major Interest and Facts.

a. The Alenaio Stream Flood Control project was planned, designed and constructed by the U.S. Army Corps of Engineers in cooperation with the local sponsor, County of Hawaii, Department of Public Works (DPW). The project is in the operations and maintenance phase. The project was last inspected in November 2002 jointly by the staff of DPW and the U.S. Army Corps of Engineers. The facility was considered in acceptable condition without any detrimental conditions, which would affect its flood control function. See Repair of Four Flood Control Projects, Island of Hawaii for additional repairs underway.

b. The project consists of an 830 foot earthen levee; a 1,790 foot long rectangular concrete-lined channel (30 to 50 feet wide); a 200-foot long wedged -shaped concrete-lined entrance transition; three floodwall structures consisting of 640 feet of concrete floodwall and 545 feet of concrete rubble masonry floodwall; four bridge replacements; relocation of utilities; access roads for channel construction and maintenance; removal of several structures and incorporation of floodplain management regulations in undeveloped areas, and an earthen channel at the mouth connecting the concrete channel to the existing flood plain.

c. The Alenaio watershed is in the South Hilo District on northeast section on the island of Hawaii. Alenaio Stream originates approximately 11 miles southwest of Hilo. The project was initially authorized under Section 101 of the Water Resources Development Act (WRDA) of 1986, and with the completion of the General Design Memorandum (GDM) in March 1990, it was reauthorized in WRDA of 1990. The construction contract was awarded in November 1994 to the firm NOVA Group, Inc. The project was physically completed in November 1997 at a total project cost of \$15.7 million (Federal: \$11.2 million; non-Federal: \$4.5 million).

d. This project provides flood protection to the Hilo Community from periodic flooding of Alenaio Stream. Flooding was a recurring problem for the 223 residences and 286 commercial businesses located along and adjacent to the Alenaio Stream. During 2 to 3 November 2000, when 30 inches of rain fell in Hilo, the project prevented nearly \$13 million in damages to the surrounding area. The flood partially exposed hazardous material temporarily stored since construction in the left embankment near the mouth. The Environmental Protection Agency is coordinating with the DPW for future disposal actions.

3. Congressional Interest. There is minimal Congressional interest in this project, at this time.