



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
 Stream Protection and Management Branch

FIELD INVESTIGATION REPORT
FI2008102901 (East Maui, Honopou IIFS Site A)

Date of Field Investigation: October 29, 2008		Time (24-hour): 1045 – 1110	
CWRM Staff: Ed Sakoda, Dean Uyeno, and Chui Ling Cheng			
Individuals Present:			
Hydrologic Unit: Honopou (6034)			
Stream Name: Honopou Stream			
Findings:			
<p>On October 27, 2008, CWRM staff documented the flow release at Lowrie Ditch sluice gate on Honopou Stream. Refer to Field Investigation Report FI2008102704 (East Maui, Honopou Lowrie Ditch, restore) for more information. Since flow was restored, the following flow measurements represent post-release flow conditions.</p> <p>At approximately 1045 hours, CWRM staff arrived at the Haiku Ditch diversion on Honopou Stream. The weather was sunny, but evidence of rain the previous night. Water temperature taken at the Honopou Stream downstream from Haiku Ditch was 23.5°C and air temperature was 25°C. CWRM staff took a volumetric measurement of the water flowing through the three 4-inch (O.D.) PVC pipes that bypasses the ditch. With a stopwatch, staff recorded the number of seconds each of the pipes took to fill a 2 gallon bucket. This process was repeated 5 times, making a total of 5 measurements per pipe. As computed back in the Honolulu Office, the flow from the pipes was 0.144 cubic feet per second (0.093 million gallons per day).</p> <p>CWRM staff then drove to the bridge that crosses Honopou Stream further downstream to observe water level at the gage pool of IIFS Site A. Staff noticed that the water level in the gage pool was similar to the level observed on October 28, 2008 (refer to Field Investigation Report FI2008102801 for more information). The water level was considerably lower than the water level observed in previous field visits, during which the water overtopped the concrete-reinforced masonry (CRM) wall of the gage pool.</p> <p>Staff left Honopou IIFS Site A at approximately 1110 hours, and continued to conduct flow measurement at IIFS Site on Wailuanui Stream. Refer to Field Investigation Report FI2008102902 (East Maui, Wailuanui IIFS Site) for more information.</p>			
Image Listing: (Attach PDF of image contact sheet)			
File Name:	Brief Description:		
20081029001	Gage pool and reference point at IIFS Site A on Honopou Stream.		
20081029003	Gage pool at IIFS Site A on Honopou Stream.		
20081029006	Bridge by IIFS Site A on Honopou Stream.		
GPS Listing:			
Shapefiles: (List file names of all shapefiles created and a brief description of each)			
File Name:	Brief Description:		
East_Maui_POI.shp	Points of interest (POI) recorded with the GPS unit during the field visit. The file includes POI recorded from all the East Maui field investigations.		
Waypoints: (List all waypoints in decimal degrees and provide a brief description of each)			
WP No.	Latitude	Longitude	Brief Description:
6	20.916212	-156.245203	Bridge on Honopou Stream
7	20.916187	-156.245174	IIFS Site A Reference Point on Honopou Stream
8	20.916096	-156.245077	IIFS Site A Flow Measurement on Honopou Stream

Attachments:

Brief Description:

1. Image Contact Sheet

Recommendations:

IMAGE CONTACT SHEET



20081029001.JPG



20081029003.JPG



20081029006.JPG