



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

**FIELD INVESTIGATION REPORT**  
**FI2008102802 (East Maui, Honopou IIFS Site B)**

<b>Date of Field Investigation:</b>	October 28, 2008	<b>Time (24-hour):</b>	0930 - 1100
<b>CWRM Staff:</b>	Ed Sakoda, Dean Uyeno, and Chui Ling Cheng		
<b>Individuals Present:</b>	EMI - Garret Hew (EMI Water Resources Manager) and Henry Robello (Field Superintendent) Honopou community - Beatrice Kekahuna, and Wanda Vierra		
<b>Hydrologic Unit:</b>	Honopou (6034)		
<b>Stream Name:</b>	Honopou Stream		

**Findings:**

On October 27, 2008, CWRM staff documented the flow release at Lowrie Side Ditch bypass 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.

At approximately 0930 hours, CWRM staff, Garret Hew, Henry Robello, and members of the Honopou community arrived at the property of Melissa and Barron Souza. From Melissa Souza's property, everyone hiked to IIFS Site B on Honopou Stream. CWRM staff prepared the site for flow measurement. CWRM staff checked the upstream gage pool for debris and there was none. The entire flow measurement was completed in 30 minutes. Gage height readings were taken at the downstream gage pool at the start and finish of flow measurement. In addition to flow measurement, CWRM staff also recorded wind velocity, air temperature, water temperature and weather conditions. The weather was sunny with cool air temperatures and no rain. As computed back in the Honolulu Office, the flow at IIFS Site A was 0.151 cubic feet per second (0.098 million gallons per day), with a no change in gage height.

On the previous day, Garret Hew offered to bring the cap for the pipe (see Field Investigation Report FI2008102705 (East Maui, Huelo IIFS Site A). CWRM staff and Garret Hew capped the PVC pipe that is part of the concrete-reinforced masonry (CRM) wall of the gage pool on Honopou Stream. They used PVC cement to prevent any leakage from the pipe.

Staff crew left Honopou Stream IIFS Site B at approximately 1100 hours, and drove to Haiku Ditch on Puolua (Huelo) Stream to document the flow release. Refer to Field Investigation Report FI2008102803 (East Maui, Huelo Haiku Ditch, restore) for more information.

**Image Listing:** (Attach PDF of image contact sheet)

<u>File Name:</u>	<u>Brief Description:</u>
20081028011	IIFS Site B on Honopou Stream.
20081028012	CRM wall of the gage pool on Honopou Stream at IIFS Site B.
20081028013	Capped PVC pipe at the CRM wall of the gage pool on Honopou Stream at IIFS Site B.

**GPS Listing:**

**Shapefiles:** (List file names of all shapefiles created and a brief description of each)

<u>File Name:</u>	<u>Brief Description:</u>
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)

<u>WP No.</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Brief Description:</u>
12	20.931867	-156.244694	IIFS Site B Flow Measurement on Honopou Stream
11	20.931827	-156.244678	IIFS Site B Reference Point on Honopou Stream

**Attachments:**

- Brief Description:**
- Image Contact Sheet
  - Discharge Measurement and Gage Inspection Notes

**Recommendations:**

# IMAGE CONTACT SHEET



20081028011.JPG



20081028012.JPG



20081028013.JPG



