



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

FIELD INVESTIGATION REPORT
FI2009021003 (East Maui, Waiokamilo Stream)

Date of Field Investigation:	February 10, 2009	Time (24-hour):	1230 - 1330
CWRM Staff:	Ed Sakoda, Dean Uyeno, Ronnie Torres, and Chui Ling Cheng		
Individuals Present:			
Hydrologic Unit:	Waiokamilo (6055)		
Stream Name:	Waiokamilo Stream		

Findings:

The purpose of this field visit was to determine if and where Kualani Stream joins with Waiokamilo Stream upstream from Hana Highway. At approximately 1230, CWRM staff hiked upstream on Waiokamilo Stream from Hana Highway for about 360 feet to the diversion dam. The stream splits into two branches 60 feet upstream from the diversion dam. The dam is a low concrete structure approximately 7.0 feet long that directs the most of the water into the Kualani Stream reach. Due to the configuration of the stream channel, water flowing down Kualani stream (downstream of Lakini) would likely flow naturally back into the Waiokamilo reach if the diversion dam were not there. Staff continued to hike upstream (Waiokamilo reach) for another 350 feet and reached a pond at the foot of a dry waterfall approximately 60 feet high. Water was seen leaking near the base of falls, and staff believe this to be Waiokamilo Spring. On the way downstream, Dean Uyeno attempted to hike upstream on the Kualani reach but was eventually blocked by a field of hau. Two PVC pipes, which did not appear to be currently diverting water, were seen 120 feet upstream of the Waiokamilo/Kualani convergence.

Findings from this field visit verify that Kualani Stream joins with Waiokamilo Stream about 400 feet upstream from Hana Highway. However, streamflow is somewhat controlled just downstream of the convergence, where a concrete diversion dam directs the majority of normal streamflow towards the Kualani Stream reach. A sufficiently high flow would be needed to overtop the dam to push more water into the Waiokamilo Stream reach.

Staff left Waiokamilo Stream at 1330 hours, and continued to Keanae. Refer to Field Investigation Report FI2009021005 (East Maui, Keanae) for more information.

Image Listing: (Attach PDF of image contact sheet)

<u>File Name:</u>	<u>Brief Description:</u>
20090210048	Diversion dam on Waiokamilo Stream 360 feet upstream from Hana Highway.
20090210050	Diversion dam on Waiokamilo Stream 360 feet upstream from Hana Highway.
20090210051	Water overflowing the diversion dam on Waiokamilo Stream 360 feet upstream from Hana Highway.
20090210052	Waiokamilo Stream splits 10 upstream from the diversion dam above Hana Highway.
20090210054	Waiokamilo Stream upstream of diversion dam above Hana Highway.
20090210056	Pond 710 feet upstream from Hana Highway on Waiokamilo Stream.
20090210059	Small waterfall at Kualani Stream.

GPS Listing:

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

<u>File Name:</u>	<u>Brief Description:</u>
FI20090209wp.shp	Waypoints recorded with the GPS unit during the field visit.

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>
055	20.848181	-156.137151	Concrete dam on Waiokamilo
056	20.848345	-156.138134	Waiokamilo pond

Attachments:

Brief Description:

1. Image Contact Sheet

Recommendations:

IMAGE CONTACT SHEET



20090210048.jpg



20090210050.jpg



20090210051.jpg



20090210052.jpg



20090210054.jpg



20090210056.jpg



20090210059.jpg