



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

FIELD INVESTIGATION REPORT
FI2010062402 (East Maui)

Date of Field Investigation:	June 24, 2010	Time (24-hour):	1000 - 1300
CWRM Staff:	Ken Kawahara, Dean Uyeno, and Chui Ling Cheng		
Individuals Present:	DAR Staff – Robert Nishimoto, Glenn Higashi USGS Staff - Clarence (Buzz) Edwards, Richard Castro EMI Staff – Garret Hew, Mark Vaught, Henry Robello		
Hydrologic Unit:	Hanawi, Waiohue		
Stream Name:	Hanawi and Waiohue Streams		
Findings:	<p>The purpose of this field investigation was 1) to show DAR staff the diversions that need to be modified according to the May Commission decision on implementing interim IFS for 6 east Maui streams - Waikamoi, West Waikuaiki, East Waikuaiki, Waiohue, Hanawi, and Makapipi streams; and 2) to accompany USGS staff in selecting potential sites for monitoring interim IFS.</p> <p>At 1000 hours, staff arrived at the Koolau Ditch diversion intake on Hanawi Stream. DAR staff inspected the diversion and proposed that EMI could use the existing pipes for the minor diversion and drop water onto the dam wall to create a wetted pathway allowing for the upstream migration of native fauna. DAR would field test this method to determine its feasibility.</p> <p>At 1200 hours, staff arrived at Pua Kaa State Park and walked to Waiohue Stream for the purpose of selecting a site for monitoring interim IFS established at the May Commission meeting. USGS staff selected a site beneath Hana Highway on the right stream bank for installation of a staff gage.</p> <p>At 1230 hours, staff left Pua Kaa State Park and headed for the Koolau Ditch diversion intake on Waiohue Stream. DAR staff inspected the diversion and proposed that in the wet season, EMI could open sluice gates to meet the interim IFS. In the dry season, EMI could install pipes that would convey water from an upstream location and drop water onto the dam wall to create a wetted pathway allowing for the upstream migration of native fauna. DAR would field test this method to determine its feasibility.</p>		
Image Listing:	(Attach PDF of image contact sheet)		
File Name:	Brief Description:		
20100624016	Minor diversion intake at the tributary of Hanawi Stream.		
20100624019	Minor diversion intake from a tributary of Hanawi Stream dropped into the Koolau Ditch by the major diversion.		
20100624020	Minor diversion intake from a tributary of Hanawi Stream dropped into the Koolau Ditch by the major diversion.		
20100624022	Hanawi Stream upstream from the Koolau Ditch intake.		
20100624028	Potential site for installation of a staff gage on Waiohue Stream, beneath Hana Highway.		
20100624033	Waiohue Stream upstream from Hana Highway.		
20100624034	Waterfall on Waiohue Stream upstream from the Koolau Ditch intake.		
20100624036	Koolau Ditch intake diversion dam on Waiohue Stream.		
20100624037	Koolau Ditch intake on Waiohue Stream.		
20100624040	Waiohue Stream downstream from the Koolau Ditch intake.		
GPS Listing:			
Shapefiles:	(List file names of all shapefiles created and a brief description of each)		
File Name:	Brief Description:		
Waypoints:	(List all waypoints in decimal degrees and provide a brief description of each)		
WP No.	Latitude	Longitude	Brief Description:

Attachments:

Brief Description:

1. Image Contact Sheet

Recommendations:

Image Contact Sheet



20100624016.jpg



20100624019.jpg



20100624020.jpg



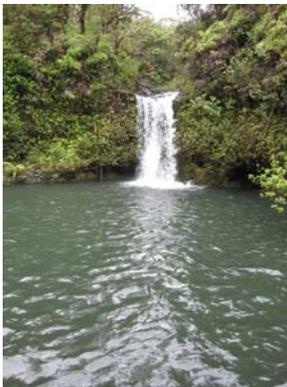
20100624022.jpg



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