

MĀKAHA VALLEY FLOOD MITIGATION STUDY

The State of Hawai'i, Department of Land and Natural Resources Engineering Division has contracted with Townscape, Inc. to conduct the MĀKAHA VALLEY FLOOD STUDY. This FLOOD STUDY is funded by a bill introduced by Representative Jo Jordan that was enacted into law in 2012.

Under the Land and Natural Resources Prevention of Natural Disasters (LNR 810), the DLNR has authority to render technical assistance on floodplain management activities within the State.



Mauna 'Olu Estates subdivision located at the base of steep valley walls

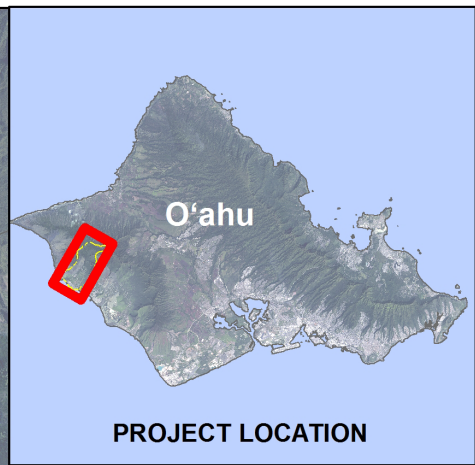
OBJECTIVES OF THE FLOOD STUDY:

- ❖ Research and analyze of existing drainage systems in the Mākaha Valley, both natural and man-made.
- ❖ Analyze and understand causes of flooding in the Mākaha Valley.
- ❖ Develop preliminary plans for realistic flood mitigation projects.

Phases and Schedule



View of West Mākaha Stream from Farrington Highway



Legend

- Project Area (5,914 acres)
- streams_clip
- Pu'u
- Stream Gauges
- Major Road

FLOOD ZONES

- HIGH RISK-FLOODWAY (Zone AE)
- HIGH RISK (Zone AE)
- HIGH RISK (Zone VE)
- MODERATE RISK (Zone XS)
- LOW RISK (Zone X)
- Undetermined (not studied)
- TMK

SPECIAL FLOOD HAZARD AREAS are subject to inundation by the 1 percent annual chance flood (100-year flood). In other words, a 100-year flood means that over the term of a 30-year mortgage, a home has a 26 percent chance of flood damage.

Disclaimer:
This map is for informational purposes and may not be suitable for engineering use. For Base Flood Elevations, refer to FEMA's Flood Insurance Rate Maps.

Source:
Aerial Satellite Imagery: Worldview-2 (2011)
TMK Parcels: HOLIS, C&C of Honolulu (2012)
Roads: HOLIS, C&C of Honolulu (2007)
Flood Zones: FEMA (2011)
Streams: State of Hawaii, Office of Planning (2013)



Mākaha Valley Flood Study
Flood Zones

By: Townscape, Inc. For: Hawaii State DLNR
Date: March 2014

FOR MORE INFORMATION, PLEASE CONTACT:



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