



A "basal lens" of fresh groundwater is present in the permeable rocks beneath the island. This fresh water lens overlies seawater, because the fresh water is less dense than seawater.

## Generalized Cross-Section Showing Groundwater Recharge and Flow Patterns on O'ahu

- |   |  |
|---|--|
|  COASTAL-PLAIN DEPOSITS (CAPROCK)— Consists of saprolite and overlying coastal-plain sediments |  WATER TABLE                                |
|  KOOLAU BASALT   |  GENERALIZED DIRECTION OF GROUND-WATER FLOW |

O'ahu, Hawai'i  
**Figure 3-10**