





# Intertidal biota and habitats of the Waitakere Coast - insert 'B'



## Legend

### Rock Substrate

- hard andesite, basalt or dacite lava (Waatarua or Lone Kauri Formations)
- andesite conglomerate and breccia (Piha Conglomerate)
- volcanic grit, sandstone and minor mudstone (Nihotupu Fm or Waitemata Group)
- andesite or basalt dike
- andesite conglomerate and breccia cliffs
- volcanic grit, sandstone and minor mudstone cliffs

### Sediment Substrate

- stable boulders (large and sometimes angular)
- mobile cobble and pebble beach (rounded)
- exposed medium-coarse sand beach
- sheltered medium-coarse sand beach (often shelly)
- fine sand (with cockle and pipi shells)
- sandy mud and muddy sand
- soft gloopy mud

### Coastal Landforms

- small estuaries
- mobile sand dunes
- fixed sand dunes with dune vegetation
- sea caves

### Vegetation

- mangrove forest
- salt marsh and high salt meadow
- sea grass (*Zostera*)
- algal cover (*Gracilaria chilensis*)
- bull kelp (*Durvillaea antarctica*)

### Faunal Elements

- c cockles (*Austrovenus stutchburyi*)
- h horn shells (*Zeacumantus lutulentus*)
- m mud snails (*Amphibola crenata*)
- p pipi (*Paphies australis*)
- w spionid tube worms
- t dead trough shell beds (*Mactra ovata*)
- d sand dollars (*Fellaster zelandiae*)
- z wheel shells (*Zethalia zelandica*)
- x low tide sponge gardens
- stw shelly tube worms (*Spirobranchus cariniferus*)

