#### GROYNES



**1** Rock groyne construction – placing concrete blocks



**3** Completed groyne (XS 70 approx)



**2** Rock groyne construction – placing rock

# **ROCK LINING**





**5** Rockline construction (Lethbridge – XS 220 to XS 240 approx)

# DEBRIS ARRESTER/ DEBRIS FENCE



6 Debris arrester (Waimeha Stream)



7 Debris Fence construction (driving irons)



8 Completed debris fence



**9** Debris fences in operation

## WILLOW PLANTING/TETHERING/CABLING



10 Planting willow poles (native planting in foreground)



11 Tethering willows (Waikanae River)



12 Tethering willows (Waikanae River)

### CHANNEL SHAPING & REALIGNMENT



**13** Bed recontouring – Upper Wallaces (XS 750 – 780 approx)



**14** Bed recontouring – Lower Wallaces (XS 700-730 approx)



**15** Beach ripping (Hutt River)



**16** Channel diversion cut

#### CHANNEL MAINTENANCE



17 Drain clearing (Pahiko Drain)



18 Silt removal – Chrystalls Lagoon



**19** Gravel extraction (from beach – XS 600 approx)

### RIVER MOUTH CUTTING



20 Initial cut



22 Releasing bund



#### **21** Developing cut

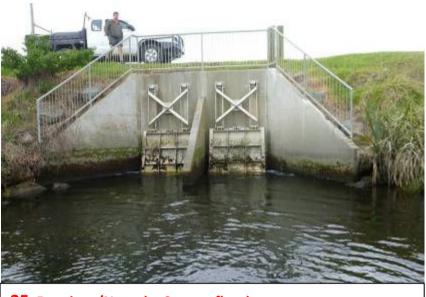


23 Cut completed

# FLOOD GATES



24 Katihiku Drain floodgates



**25** Rangiuru/Ngatoko Stream floodgates