

GROYNES



1 Rock groyne construction – placing concrete blocks



2 Rock groyne construction – placing rock



3 Completed groyne (XS 70 approx)

ROCK LINING



4 Rockline construction (Lethbridge – XS 220 to XS 240 approx)



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



21 Developing cut



22 Releasing bund



23 Cut completed

FLOOD GATES



24 Katihiku Drain floodgates



25 Rangiuru/Ngatoko Stream floodgates