



PHASE 1 BEACH RESTORATION - 2004
 Failed bulkhead wall and rip-rap removed. Mobile home pads, services etc removed. Exotics and lawn removed. Beach slope restored to 8:1 with nourishment (fisheries rock, spawning rubble) and rip-rap. Nourishment species: Elymus mollis, Grindelia integrifolia, Ambrosia chamissonis, Lathyrus japonica etc

PHASE 2 BEACH RESTORATION - 2008
 Concrete pile wall, dumped concrete/sand fill and rip-rap removed. Existing gravel parking area and boat launch removed. Exotics and lawn removed. Beach slope restored to 8:1 with nourishment (exotic beach grade) and rip-rap. Nourishment species: Elymus mollis, Grindelia integrifolia, Ambrosia chamissonis, Lathyrus japonica etc

MARINE SHORELINE ENHANCEMENT - 2007 & 2008
 Shoreline regraded from 450mm silt to berm above HHW. Rip-rap and gravel placed in 10m wide zone. Native marine riparian vegetation planted/enhanced: Elymus mollis, Grindelia integrifolia, Ambrosia chamissonis, Lathyrus japonica etc. Width varies, average 45m.

SPIT TIP ENHANCEMENT 2007
 Boom and metal debris removed. Beach re-transplanted in 9m width.

ESTUARY SHORELINE RESTORATION 2007
 Existing boat launch, docks & piles removed. Existing 1:1 boom-nestled rip-rap removed. Shoreline regraded to 4:1. 9m width riparian planting of native riparian shrubs: Salix lucida lasiantha, Lonicera involucrata, Spiraea douglasii

SUMMARY OF HABITAT ENHANCEMENTS AND BEST MANAGEMENT PRACTISE

MARINE SHORELINE - DISCOVERY PASSAGE
 Removal of 400' lin. - bulkhead, rip-rap and concrete fill with complete beach restoration to back of berm. Additional 350' lin. of marine riparian habitat restoration (from lawn) - existing mobile home site to tip of spit. Marine riparian habitat composed of locally endemic native beach top grasses, perennials and Rosa - width 5-7m

ESTUARINE SHORELINE - CAMPBELL RIVER & MUMMS CREEK
 350' lin. of rip-rap and industrial shoreline removed/regraded to 4:1 riparian banks. Fish fry habitat including Lyngby sedge benches, sunken LWD and inertial channel created. All riparian bank plantings - locally endemic native facultative wetland shrub species. Width 9-11m

BACK OF SHORELINE AREAS
 Seeded to native rescue species (F. ovina) with native tree and shrub plantings

OTHER BMPs
 All site drainage into rock-filled infiltration trenches with no piped drainage (other than overflows from rock trenches). All site furnishings made of recycled plastic and recycled aluminum. Pervious pavement with storm water storage/infiltration in base - in Phase 1. Constructed/directed public access points to beach and overlooks. Pumpable vault toilets with demand lighting. No landscape or street lighting in the park - zero light trespass. Removal and ongoing monitoring/management of exotic invasive plants. Developed facilities are barrier free (parking, main paths, overlooks, boardwalks, benches, some picnic tables).

Dick Murphy Park, Campbell River Green Shores & Other BMP's

