### **COASTAL RESTORATION TRUST OF NEW ZEALAND**

Tāhuna Ora

- es on particularly exposed oastlines, sometimes in more emote locations and/or where
- I nese sites typically have little or no indigenous biodiversity and poor dune form and function.
- Several flagship sites have been identified in the Waikato region which are examples of difficult sites to restore and where collaborative projects are underway.



## Nukuhakari Station north of Awakino

- southern end.
- movement landward.

### Seaview, Awakino

- landward sites.
- of unearthed debris.
- nd weed control).

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# **RESTORATION OF DIFFICULT SAND DUNE SITES**

# **Guidelines for Restoration**

The Coastal Restoration Trust of NZ is developing guidelines for community and management agencies with a step-by-step approach to restoration of our most challenging dune systems. The guidelines will include all elements relevant to successful restoration including landowner involvement, site preparation, species selection, implementation, monitoring, maintenance, and costs.

The guidelines will draw on lessons learned from a wide range of other projects on the Northland, Auckland, Waikato, Bay of Plenty, Taranaki, Kapiti, Tasman, and Pegasus Bay coasts.

They will be available as peer-reviewed Technical Articles published as part of the Coastal Restoration Handbook available on the website.

## **EXPOSED HIGH ENERGY WEST COAST SITES**

Restoration of two severely degraded dunes on exposed, high energy Waikato west coast sites, typical of many difficult sites around New Zealand

• A large sheep and cattle farm on the west coast north of Awakino where stock access has led to serious degradation and wind erosion.

• Several bays exposed to the prevailing westerly winds with extensive landward migrating dunes now cover several hectares of both front and back dunes.

Activity to date includes largescale planting along a very exposed northern section and establishment of ertiliser trials 20 m above the high water mark at the

• Planting of several thousand spinifex is well underway to forming a vegetated foredune that is reducing sand

 Focusing areas between existing vegetation to form a continuous zone of vegetation is proving uccessful.



• A private camping ground where the natural dunes have been levelled, filled and grassed; adjacent Shoreline presently experiencing severe wave erosion along this high wind and wave energy coastline.

• Dune restoration includes reshaping of erosion scarp, removal of fill to landward zone, planting spinifex on the frontal dune, and establishing a vine/rushland on

• Ongoing issues include severe wave overtopping of the low dune during occasional storm events where limited space was available to form the dune, weed management, protection of cultural sites, and disposal

In collaboration with the camp ground manager foc has been on monitoring and maintenance (plant









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# WEED-INFESTED BACKDUNE EAST COAST SITES,

Waikato



Cooks Beach eastern end - project area towards the end of Year 1 (left) and a year later (right)



The project is funded by the Department of Conservation's Community Fund in collaboration with Waikato Regional Council, local landowners, and Beachcare groups.