



www.dunestrust.org.nz

WAY OUT WEST

Dune Restoration of NZ Annual Conference 2014

11 – 13th March 2014

Fitzroy Surf and Lifesaving Club, New Plymouth



Presentation: Oakura Beach Trial Site

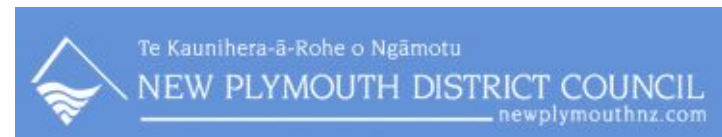
Leigh Honnor, Taranaki Tree Trust

Leigh.Honnor@trc.govt.nz

The Dunes Trust has been given permission to make this document publically available from our website. However the information and images contained in the document belong to the presenter and presenter's organisation.

To obtain permission to use the information and/or imagery used in this document for any purpose please contact the presenter.

Conference sponsors



Department of
Conservation
Te Papa Atawhai



OAKURA BEACH TRIAL SITE

NPDC PARKS

Thanks to David Bergin and Trish Davidson

2000 to Present



TRIAL SITE



In July the NPDC in conjunction with the Coastal Dune Vegetation Network installed a dune vegetation trial site west of the Oakura Motorcamp.

This entailed the use of machinery to recontour the Kikuyu banks into a natural dune slope, which was then reinstated with sand binder native species i.e. *Spinifex* and *Pingao*. This is one of four trials being undertaken by the CDVN over a four year period.

The objective from the NPDC perspective is to provide a range of guidelines that can be used in other Taranaki sites. Due to our dynamic west coast and our rate of erosion, hard armouring or rock walls have often been put in place with long term high maintenance costs and ineffectual results.

This trial site can be used by coastal managers to enable them to administer New Zealand's coastal dunes in such a way that dunes are self-sustaining over time with minimal intervention, regardless of the impacts of the physical environment.

This site was chosen because of the accelerated erosion on the site.

Also the public demand to protect the values of this area. This reserve is a highly valued local amenity used daily by the local community.

Trial site 2001 GIS Photo



Trial site 2013 GIS Photo



1.



1. OAKURA: Local residents have been given Spinifex and Carex Pumilla to protect their properties.

2.



3.



4.



2,3,4. OAKURA: Spinifex colony is being sustained and improved by planting additional plants. Eventually these will replace the flax in this area as foredune plants.

5.



5. OAKURA: Coastal walk for Seaweek undertaken by local Coast Care group.

March 2000



Pohutukawas were uplifted and placed in
near dune area.



Replacement of Pohutukawa

One of six reinstated in rear dune site.
This one was the largest approximately
3 tonnes.



This method best utilises the sand available on the site.



A digger was used to recontour and reshape dunes to recreate a natural 14-18° angle.



Lip of recontoured dune allows area for
blow back of sand.

8



Forest Research Institute Scientists installed 12 plots over 142 metres.

Each peg represents plant type. Plant spacings vary each plot - also different fertilisers trialed at each plot.

9

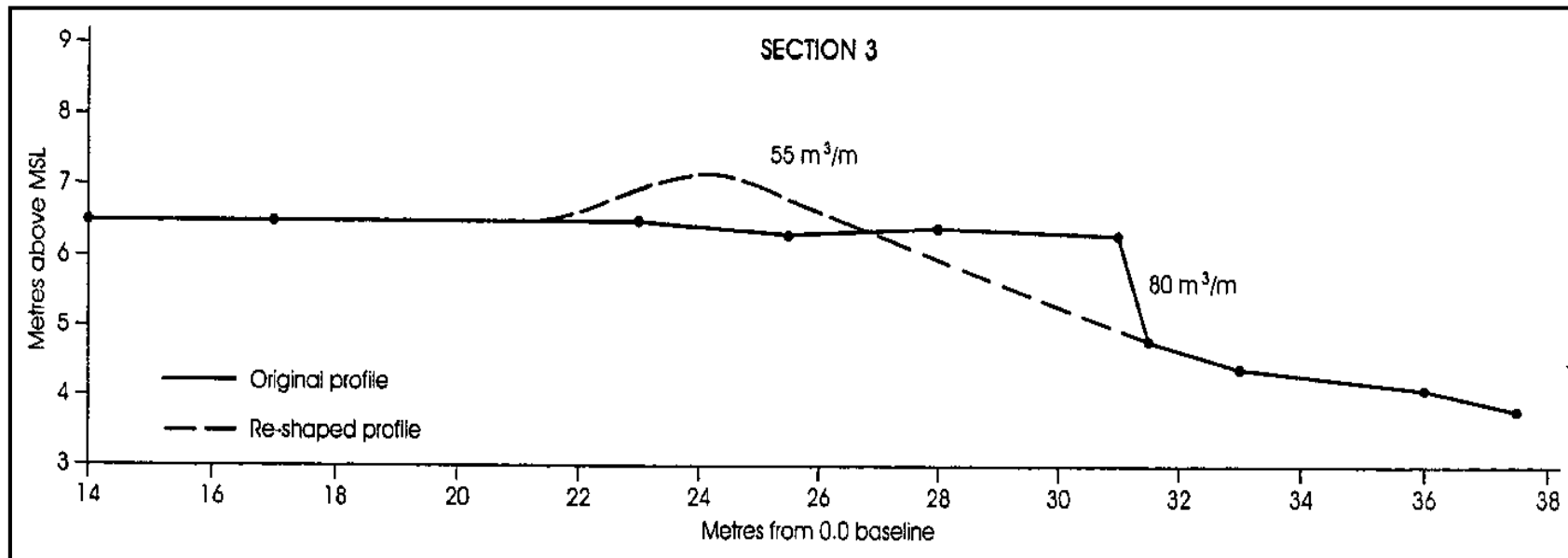


Volunteers, Coast Care Oakura, and staff from Parkscape, Forest Research Institute and NPDC undertook planting.

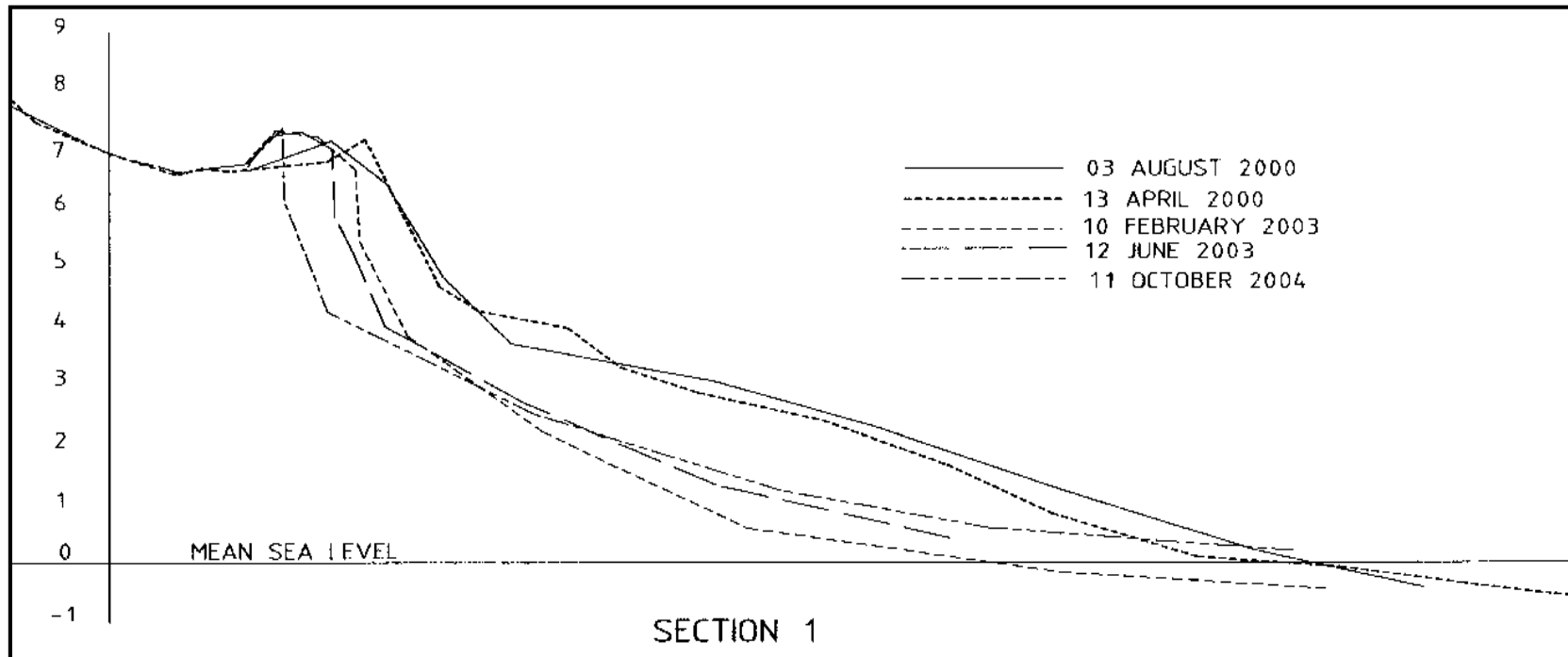




Erosion Effects on Trial Dune







OAKURA SCHOOL PLANTINGS 09 - 2013















GIS Map 2001



GIS Map 2013



OAKURA & AHU AHU RD SLIPS 2011









Over \$50,000 to Tidy Damage







Clearing Debris and Hydroseeding







Oakura Motor Camp Slip











Hydroseeding & Planting of Slip



