

Date: Tuesday 26 March 2024
Time: 10:00 am
Meeting Room: Local board office
Venue: 2 Glen Road
 Browns Bay

Hibiscus and Bays Local Board

OPEN ATTACHMENTS

ATTACHMENTS UNDER SEPARATE COVER

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11 Ōrewa Reserve Service Assessment

Jeff Lyford – Parks and Places Specialist was in attendance for this item.

Resolution number HB/2021/80

MOVED by Member J Fitzgerald, seconded by Member L Willis:

That the Hibiscus and Bays Local Board:

- a) adopt the following service outcomes when selecting a long-term management option for Ōrewa Reserve and adjacent beach
 - i) enhance opportunities for beach-related recreational experiences on an extended dry Ōrewa Beach
 - ii) improve access to Ōrewa Beach along the length of the Ōrewa Reserve, to help facilitate beach-related recreational activities, including walking along the beach
 - iii) retain current play value within the wider Ōrewa Beach setting, with a particular focus on providing pockets of play experiences for young children on Ōrewa Reserve and basketball/beach volleyball experiences within the wider reserve.
 - iv) enhance opportunities for north-south pedestrian and cycling movements along the reserve, which are integrated with the existing coastal walking/cycling experience throughout the Ōrewa Beach setting.

CARRIED



Memo

To: Jeff Lyford, Paul Klinac Job No: 1015234
From: Richard Reinen-Hamill, Patrick Knook Date: 30 September 2020
Subject: Orewa Reserve Coastal Hazard Susceptibility Assessment 2020 Update (CW97418)

1 Introduction

Tonkin + Taylor (T+T) undertook a high-level erosion and inundation susceptibility assessment in 2012 for the Orewa Surf Club (T+T, 2012). This memo sets out an updated assessment considering additional or new information including: the MfE (2017) sea level rise guidance, Auckland Council's 2017 LiDAR data and extended beach profile information. For this updated assessment the Orewa Reserve is considered extending from Riverside Rd to the Orewa Beach Holiday Park (Beach Rd) shown in Figure 2.1. The coastline further south has not been included in the study scope as it is influenced by the groyne and is within the sand extractions area .

2 Coastal erosion susceptibility

2.1 Methodology

In line with T+T (2012) the extent of areas susceptible to coastal erosion (ASCE) is calculated based on the following:

$$ASCE = SF + DS + (LTR_H \times T) + SLR$$

Where:

- SF = Horizontal coastline fluctuations including storm cut
- DS = Dune stability
- LTR_H = Historical long-term rate of horizontal coastal movement
- T = Timeframe
- SLR = Horizontal coastline retreat due to possible accelerated sea level rise

The coastline has been split in three sections for which component values have been derived as set out in Section 2.2. Figure 2.1 shows the three coastline sections, with Cell A and C representing the natural coastline sections and Cell B representing the protected coastline in front of the Surf Club.

The areas susceptible to coastal erosion are calculated with respect to a base shoreline (i.e. baseline) and typically represents the vegetation line or dune toe. For this assessment the 2 m AVD-46 (Auckland Vertical Datum 1946), derived from the 2016 Auckland Council LiDAR dataset, have been used which approximates the dune toe position. Note that the LiDAR for Orewa Reserve was captured in 2017 and this year will be used in this assessment.

As the rock revetment in front of the Surf Club interrupts the natural coastline between Cell A and C, the 2m AVD-46 contour has been pushed seaward along Cell B. However, this would not accurately define a baseline with erosion distances offset from further seaward (i.e. structure toe) compared to the adjacent natural coastline which would result in erosion susceptibility lines situated further

