

Mahanga

Setting

Mahanga is situated at the northern end of Pukenui Beach and is bounded by the beach and dune system that extends south along the flank of the tombolo connecting Mahia Peninsula to the mainland and a sedimentary rock outcrop to the north.

Generally there is significant accretion evident apart from at the very northern extent. Assets at risk include the recreational reserve facilities and the road reserve.

There are no existing erosion control structures evident.



Hazard Description

Potential Risk

		Potential Risk		
		Likelihood	Consequence	Risk
CERZ	70 m to 97 m	Unlikely	Major	High
ERZ 2060	9 m to 15 m			
ERZ 2100	12 m to 13 m	Possible	Major	Extreme
Total Erosion Zone width	94 m to 118 m	Likely	Moderate	High
Sea Inundation level (CERZ)	16.3 m			
Sea Inundation level landward of CERZ	14.0 m	Certain	Minor	High

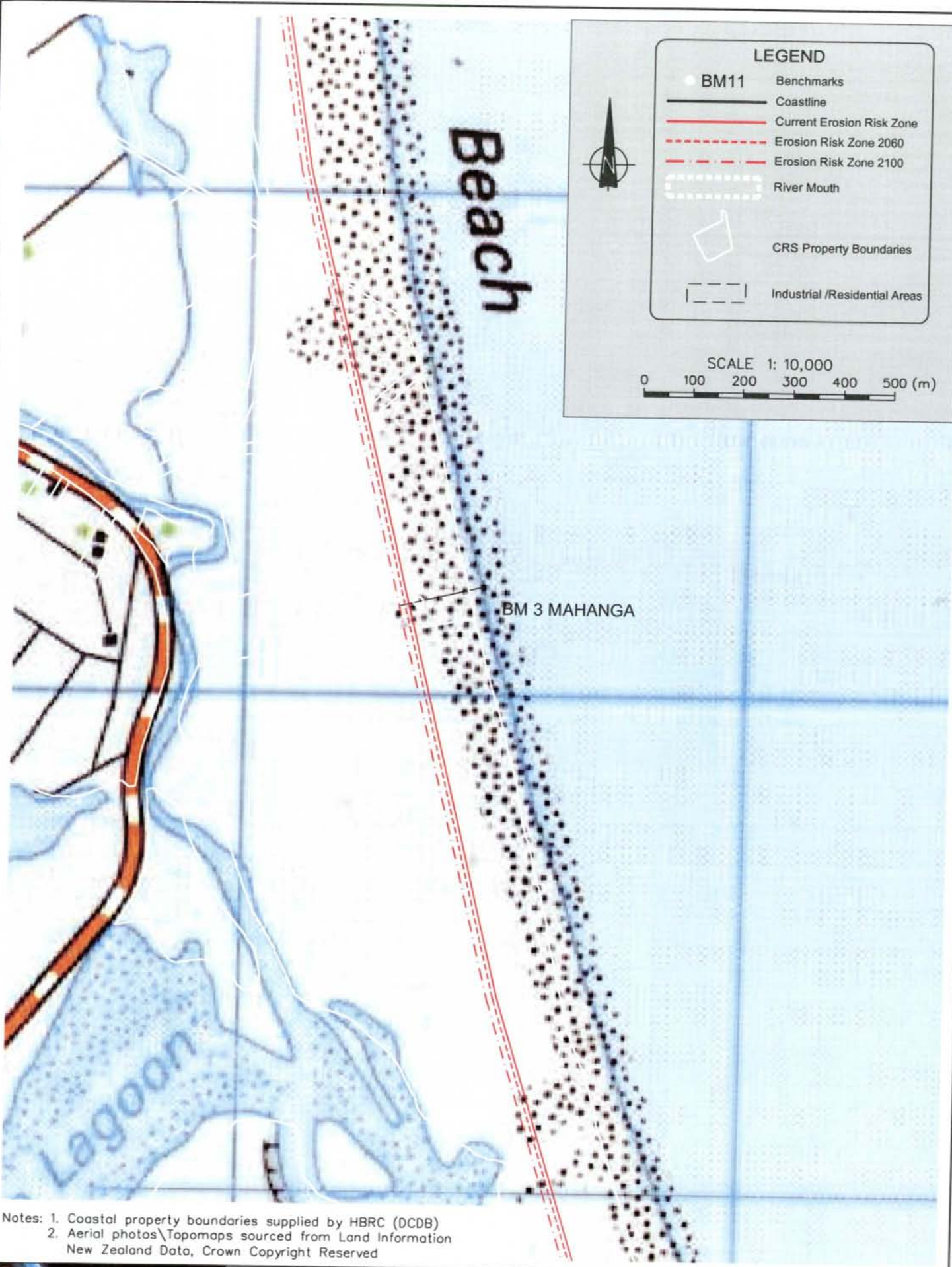
Uncertainties

Inferred trends due to no local data

Uncertainties over future climate change impacts

Recommendations

- No new council infrastructure or new private development to be located within the CERZ
- New development within erosion zone subject to satisfactory site specific assessments
- No further modification of land designation permitted within hazard zones without site specific assessment
- Investigate alternative reserve and facility locations towards centre of beach and away from eroding northern portion
- Investigate headland control at northern end of the beach to hold present beach shape combined with sand transfer and or beach nourishment
- Monitor shoreline change

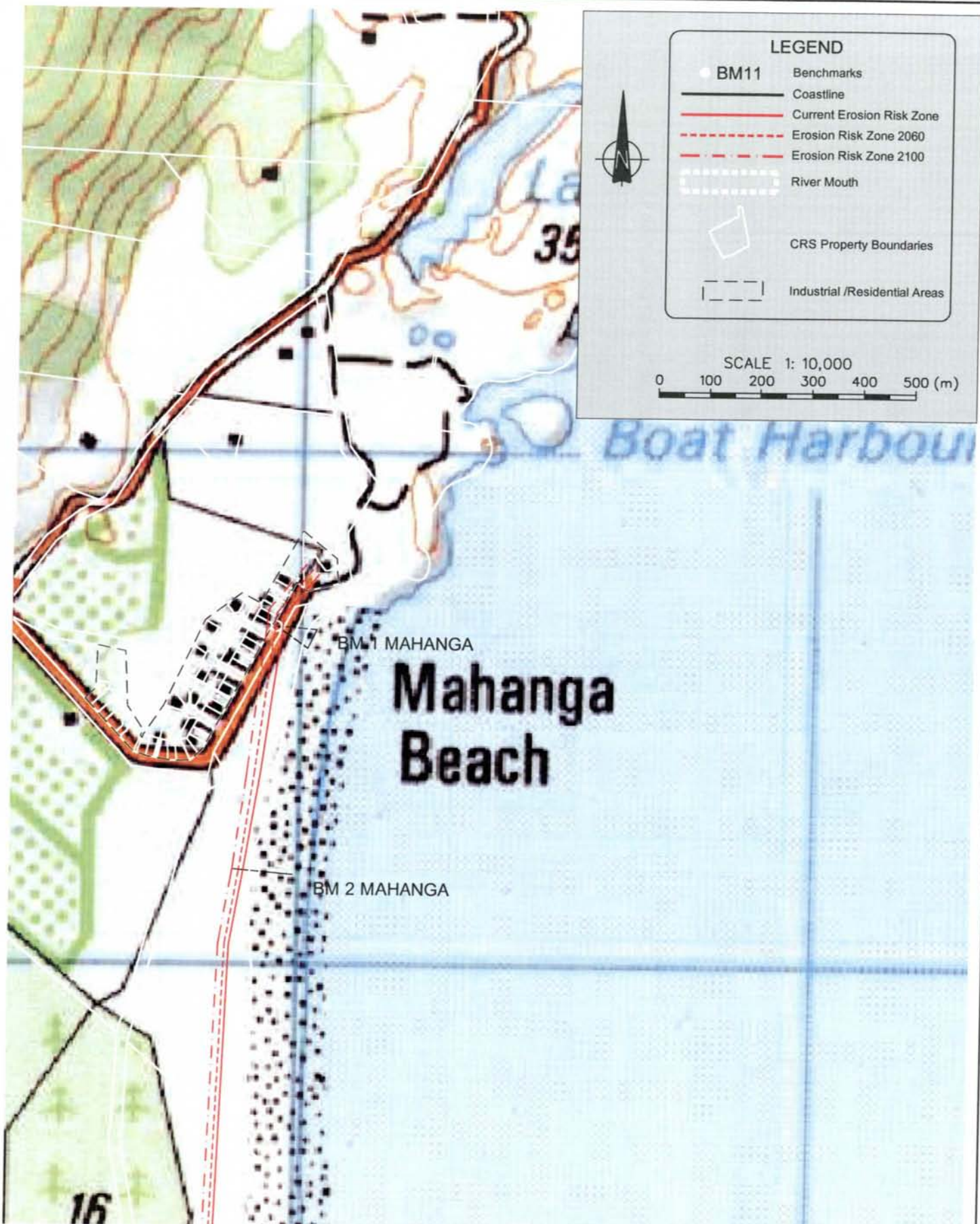


Notes: 1. Coastal property boundaries supplied by HBRC (DCDB)
 2. Aerial photos/Topomaps sourced from Land Information New Zealand Data, Crown Copyright Reserved

L:\205 14\205 14-F7.dwg 7.35.30-Jan-04 - 6:05pm bkd

<p>Tonkin & Taylor Environmental & Engineering Consultants</p> <p> <input type="checkbox"/> Hamilton <input checked="" type="checkbox"/> Auckland <input type="checkbox"/> Christchurch <input type="checkbox"/> Nelson <input type="checkbox"/> Wellington <input type="checkbox"/> Whangarei </p>	DRAWN	BKD	Sep.03
	DRAFTING CHECKED		
	APPROVED		
	CADFILE :	L:\205 14\205 14-F7	
	SCALES (AT A4 SIZE)	1: 10 000	
PROJECT No.	205 14		

<p>HAWKES BAY REGIONAL COUNCIL REGIONAL COASTAL HAZARD ASSESSMENT HAZARD ZONE DEFINITIONS Mahanga (Sheet 1 of 2)</p>	<p>FIG. No. Figure 7.35</p>	<p>REV. 1</p>
--	------------------------------------	----------------------



Notes: 1. Coastal property boundaries supplied by HBRC (DCDB)
 2. Aerial photos\Topomaps sourced from Land Information New Zealand Data, Crown Copyright Reserved

L:\205 14\205 14--F7.dwg 7:38 30-jan-04 - 8:05pm bkd

Tonkin & Taylor
 Environmental & Engineering Consultants

Hamilton Auckland Christchurch
 Nelson Wellington Whangarei

DRAWN	BKD	Sep.03
DRAFTING CHECKED		
APPROVED		
CADFILE :	L:\205 14\205 14--F7	
SCALES (AT A4 SIZE)	1: 10 000	
PROJECT No.	205 14	

HAWKES BAY REGIONAL COUNCIL
 REGIONAL COASTAL HAZARD ASSESSMENT
 HAZARD ZONE DEFINITIONS
 Mahanga (Sheet 2 of 2)