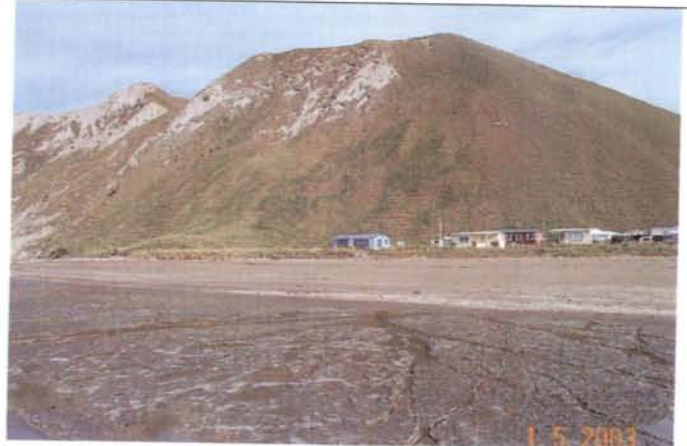


## Blackhead

### Setting

Blackhead is set between two large hills that provide some form of headland control. The foreshore is an area of significance with regard to wildlife habitat and ecosystems. The area comprises a perched beach with a broad intertidal system and narrow sub-aerial beach. Three streams discharge onto the beach. The dunes are low ranging from 0.5 m in the south to around 4 m in the north. Development is concentrated along the southern and central shoreline. The majority of residential dwellings are outside the CERZ. At the southern end baches and transportable accommodation are situated within the CERZ and there is evidence of swash and inundation in this area. Some refurbishment and new development evident. No in-situ coastal protection structures.



### Hazard Description

### Potential Risk

Hazard Description		Potential Risk		
		Likelihood	Consequence	Risk
CERZ	42 m	Unlikely	Major	High
ERZ 2060	13 m			
ERZ 2100	15 m	Possible	Major	Extreme
Total Erosion Zone width	71 m			
Sea Inundation level (CERZ)	16.2 m	Likely	Major	Extreme
Sea Inundation level landward of CERZ	14.0 m	Certain	Major	Extreme

### Uncertainties

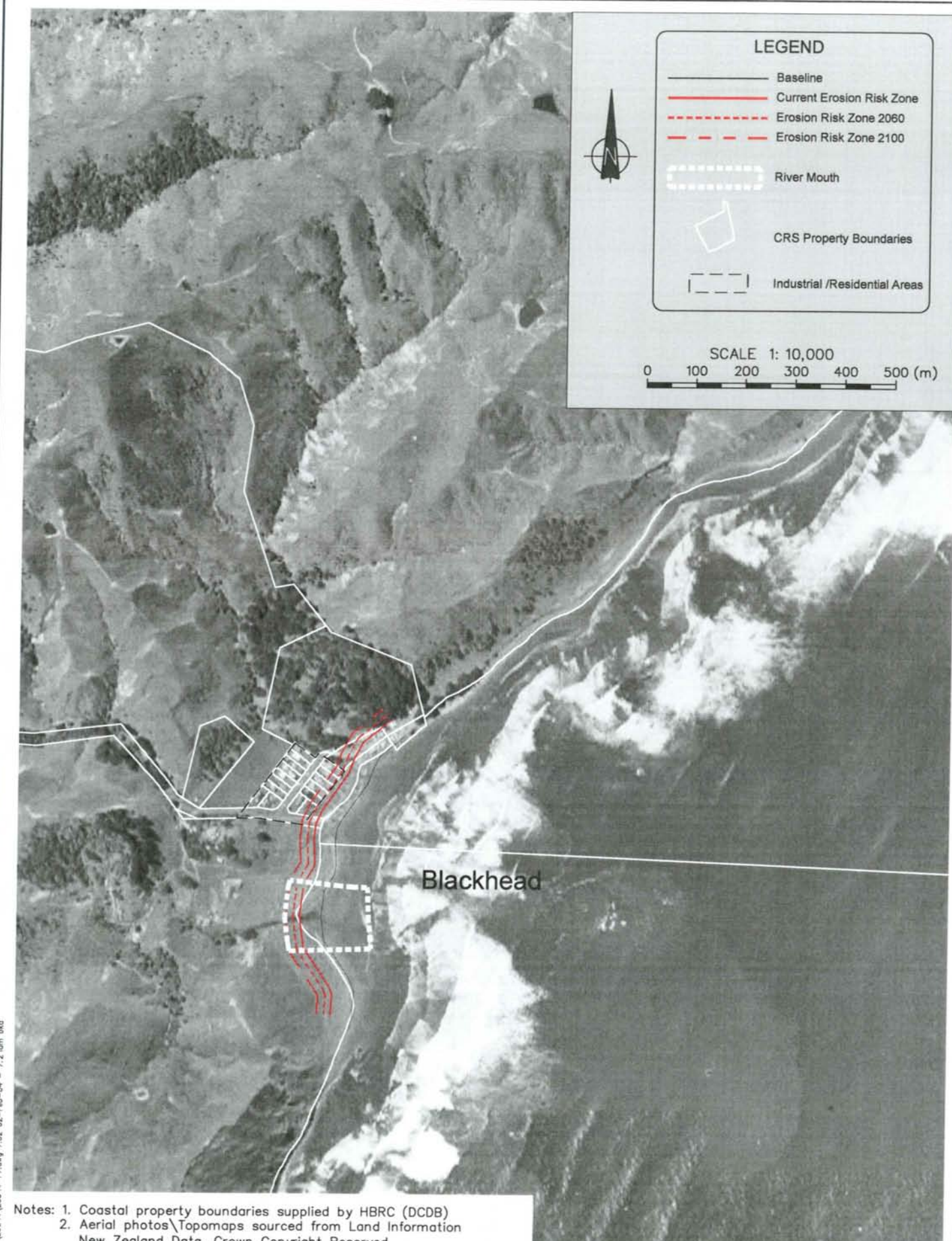
Inferred trends due to no local data

Uncertainties over future climate change impacts

## **Blackhead**

### **Recommendations**

- No new council infrastructure or new private development to be located within the CERZ
- Establish redevelopment plans for existing dwellings within CERZ (managed retreat), including alternative locations for camp ground
- Investigate stream management to reduce number of discharges to beach
- All new private development within remaining Erosion Hazard Zone to be relocatable and above inundation levels.
- No further modification of land designation permitted in currently non-residential zoned land within hazard zones
- Dune restoration (re-vegetation) with assistance of community based coast care groups
- Control of access and monitor shoreline change



**LEGEND**

- Baseline
- Current Erosion Risk Zone
- - - Erosion Risk Zone 2060
- . - . Erosion Risk Zone 2100
- - - - - River Mouth
- ▭ CRS Property Boundaries
- - - - - Industrial /Residential Areas

SCALE 1: 10,000  
 0 100 200 300 400 500 (m)

Blackhead

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 7.02 02-Feb-04 - 7:2 tom Nkd



**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  
 Blackhead

FIG. No. **Figure 7.02**

REV. **1**