

## Clifton

### Setting

Clifton is a small area of development bound by the coast and steep hill country. The shingle beach is at the southern end of the bay and is subject to large rates of erosion based on historic survey data. Main assets at risk include the camp ground, access road and the motor camp.

Shoreline trends are inferred from HB1. A range of ad-hoc protection measures can be seen along the coast including tipped rubble and construction debris.



### Hazard Description

CERZ	30.0 m
ERZ 2060	45 m
ERZ 2100	31 m
Total Erosion Zone width	107 m
Sea Inundation level (CERZ)	14.9 m
Sea Inundation level landward of CERZ	13.5 m

### Potential Risk

Likelihood	Consequence	Risk
Unlikely	Catastrophic	Extreme
Possible	Catastrophic	Extreme
Likely	Catastrophic	Extreme
Certain	Major	Extreme

### Uncertainties

Uncertainties over future climate change impacts

### Recommendations

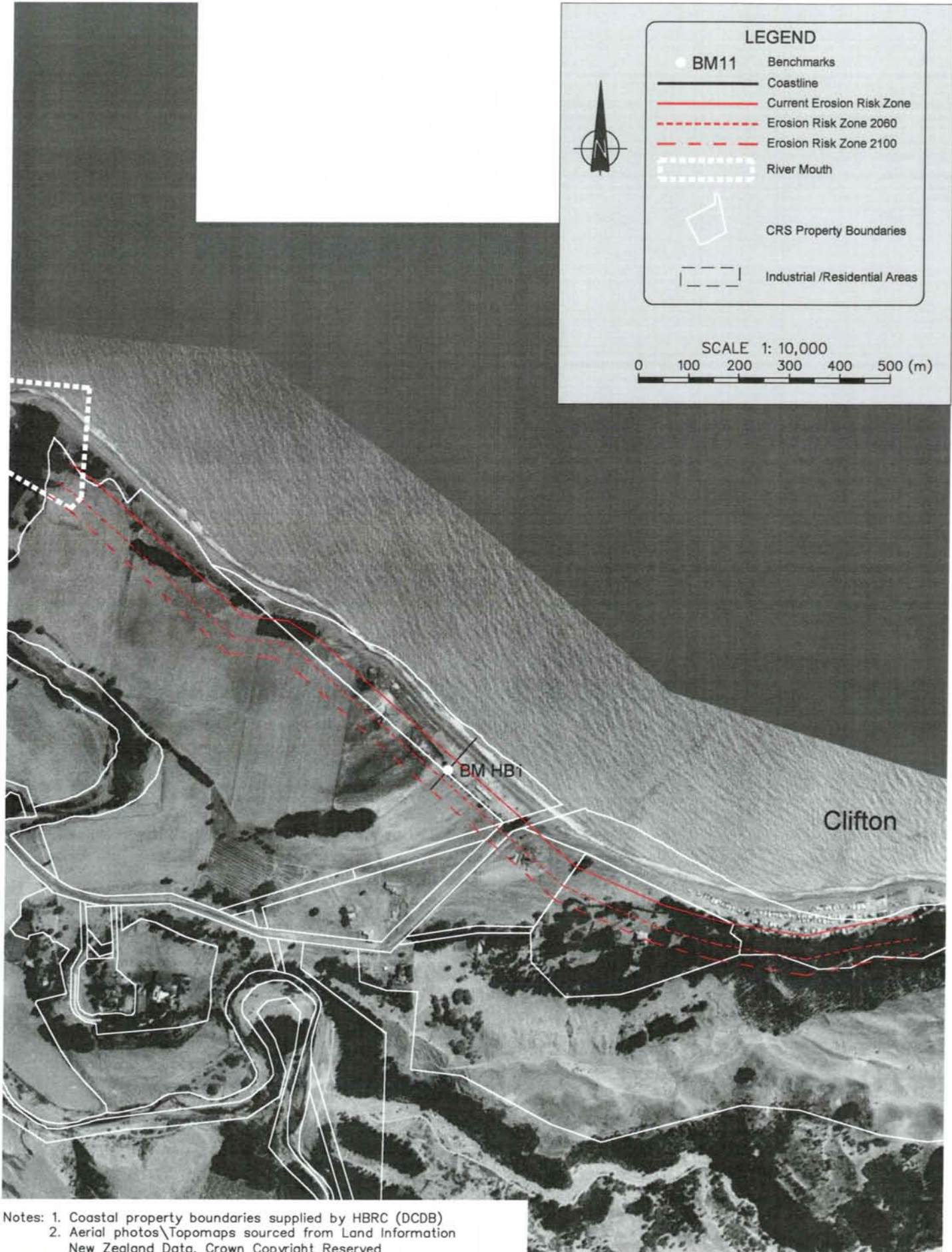
- No new council infrastructure or new private development to be located within the CERZ
- Consider removal/relocation of camp ground and replacement of failing coastal protection structures with beach replenishment or managed retreat
- All new private development within remaining Erosion Hazard Zone to be relocatable and above inundation levels or be provided with flood protection bund subject to confirmation of no adverse effect on catchment flooding.
- No further modification of land designation permitted in currently non-residential zoned land within hazard zones
- Monitor shoreline change

**LEGEND**



- BM11      Benchmarks
- Coastline
- 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)



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

L:\20514\20514-F7.dwg 7.11 02-Feb-04 - 7:55am bkd



**Tonkin & Taylor**

Environmental & Engineering Consultants

- Auckland
- Christchurch
- Hamilton
- Wellington
- Whangarei
- Nelson

DRAWN	BKD	Sep.03
DRAFTING CHECKED		
APPROVED		
CADFILE : L:\20514\20514-F7		
SCALES (AT A4 SIZE)		
1: 10 000		
PROJECT No. 20514		

**HAWKES BAY REGIONAL COUNCIL**  
**REGIONAL COASTAL HAZARD ASSESSMENT**  
**HAZARD ZONE DEFINITIONS**  
 Clifton

FIG. No. **Figure 7.11**

REV. **1**