

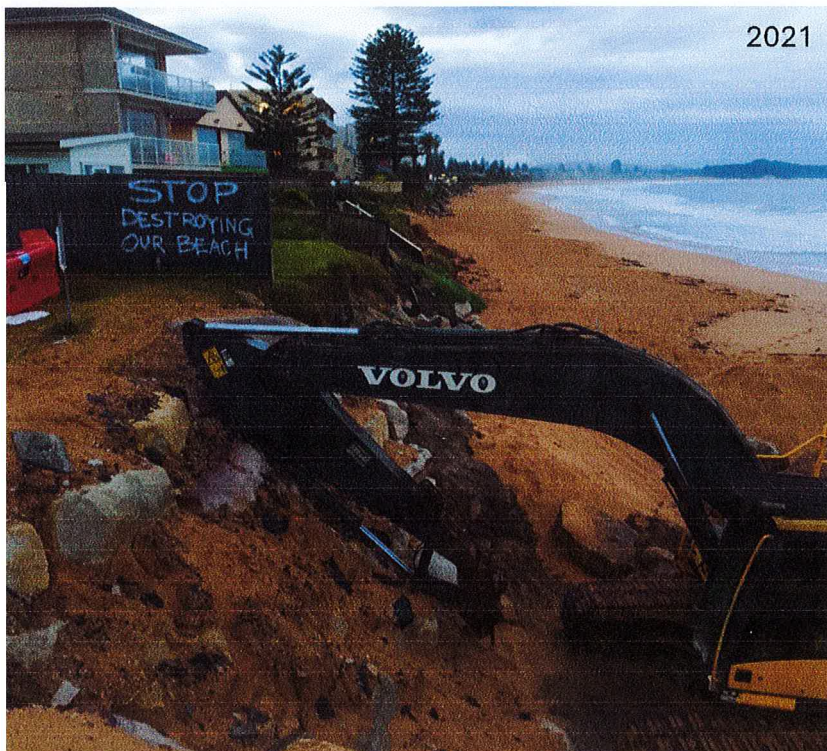
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## A Line in the Sand

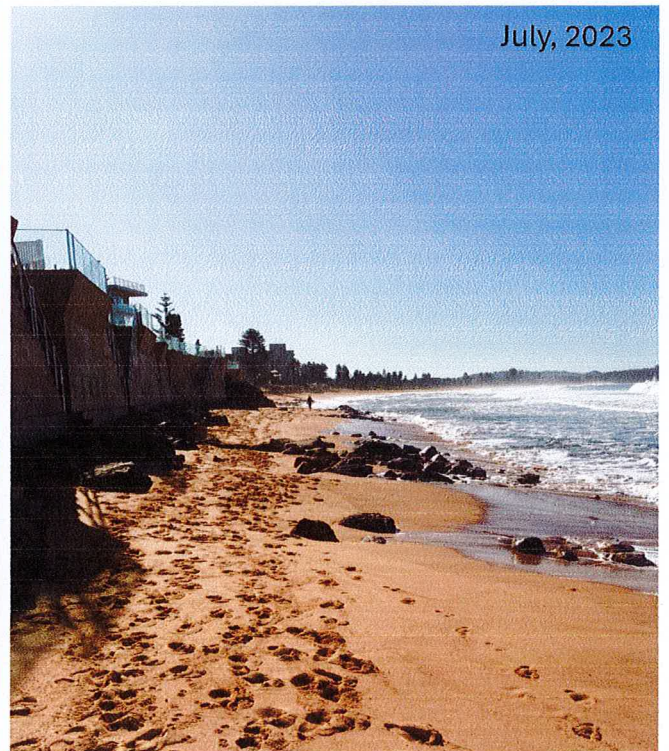
The People's Campaign Against Seawalls - 17 November 2002  
Brendan Donohoe

Surfrider Foundation

2002



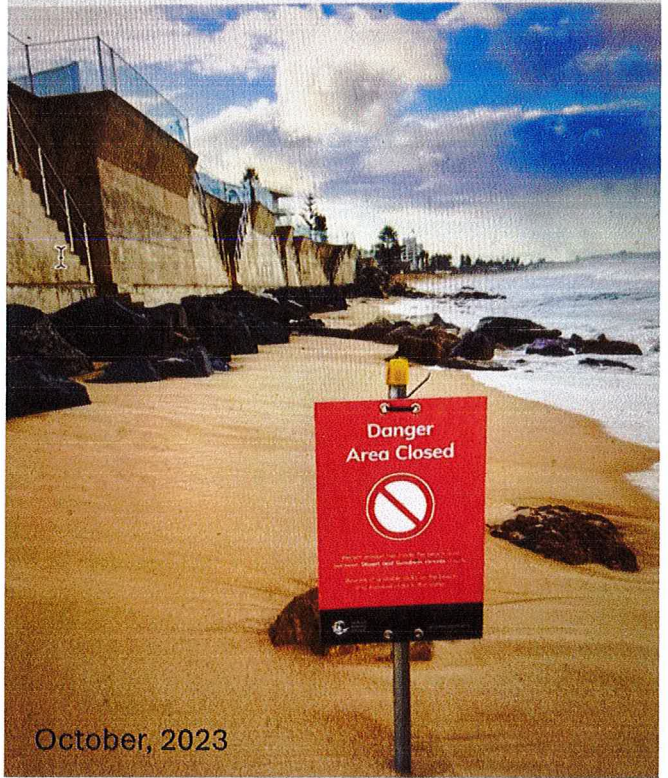
2021



July, 2023



January, 2022



October, 2023

April, 2022











Sand slugs nourish multiple surfbreaks in the embayment

The world famous Narrabben Left

Optimum Lake outlet position

Wide flat delta like flood plane opening

AERIAL SHOT SOMETIME IN THE 1940'S

PHOTO: COURTESY GEOFF ETHERINGTON.



## Shoreline without seawall

Waves move sand on and off the beach, and erosion from the cliffs helps replenish what's lost.





# Shoreline with seawall

The barrier helps dissipate wave energy and fend off surging water.



The seawall disrupts the natural replenishment of sand.



# Gradual loss of beach



The seawall limits sand replenishment and locks the shoreline in place.

The sea continues to rise, squeezing out the beach.