



SOUTHSHORE

Area	Southshore
Issue	Risk of erosion in Southshore
Option	Phase One - Investigate erosion and private structures.
Plain English explanation	<p>Along the estuary edge there are currently a variety of different structures built by previous landowners from different materials which provide various levels of erosion management. These structures are in varying condition, but many are still effective at providing erosion management to some extent.</p> <p>We are in the process of identifying the worst-affected parts of the estuary edge. We know there are pockets where erosion is increasing immediately behind private structures. While this is not a risk to any properties or community assets, it is affecting small sections of red zone land and parts of the LINZ bund that is close to the estuary edge.</p> <p>Because we are dealing with a variety of existing structures, there is not a single, or simple solution to erosion management in this area and we need to investigate possible options. Possible options could include raising, repairing or infilling existing structures, removing and replacing structures and/or estuary bed re-nourishment. We would carry out this investigation with an advisory panel of consultants to capture the expertise of those who have been involved in recent work for the Southshore community.</p> <p>As these structures are right on the estuary edge, we know that any work that arises from this investigation would require a number of consents, with a lot of uncertainty about whether those consents would be granted. Total estimated cost for Phase One is approximately \$300,000.</p>
Description	<p>This option involves an assessment of current erosion processes on the estuary edge; an analysis of the effectiveness of the existing structures in managing erosion risk; and an assessment of methods to resolve. Methods could include:</p> <ul style="list-style-type: none"> • Raising, repairing or infilling existing structures • Removing and replacing structures • Estuary bed re-nourishment
Estimated Cost	\$300,000



Timing	Between 6 and 12 months.
Implementation Requirements	There is potential for this work to be carried out with an advisory panel of consultants to capture the expertise of those who have been involved in recent work for Southshore.
Considerations	<p>The coastal environment is dynamic and conditions can change in relatively short stretches of estuary edge. It is therefore important to have specific local information on which to base design options that are particular to actual conditions.</p> <p>Ecological information could be gathered at the same time to inform design options.</p>
Community Input	This option links to community options requesting that estuary edge structures are stabilised and made safe to help prevent erosion and consideration of different erosion management methods.