

## 4. Clive River dredging in 2030

**This proposal is about deepening the Clive River as far as Kohupātiki Marae to improve river use and flood protection and deposit the silt to land instead of the sea.**

Clive River is a popular place for recreation. It's always busy with cyclists and walkers on the river trails. Waka ama paddlers and rowers train every day in the river, with powered boats in the area between Clive bridge and the sea.

At times of heavy rain in the past, the river would flood on land around Hastings and at Clive. To fix this, a massive engineering project diverted the river to a new channel at Pākōwhai in 1969. Now the river's flow comes solely from the catchments feeding the Karamū and Raupare streams. This river system still needs to be managed for flood control, but often there is only a modest flow of water and not enough to flush out the sediment that washes back from the Ngaruroro River mouth at Waitangi.

About once every 10 years we dredge the Clive River channel to remove a build-up of sediment - the sludgy material that creeps in, mostly from the Ngaruroro River. We do this so that river users can continue to enjoy this special place as a part of social and cultural practices. In the past we have dredged up to the rowing club at Farndon Park, but we've been asked to extend this up to Kohupātiki Marae.

### **What has changed?**

Dredging is a very expensive process requiring people and equipment to come into the region each time we do it. In the past we have vacuumed the sediment using a big tube that takes the dredge materials as far as the coast. In our conversations with Tangata Whenua and the community we know that it will not be desirable in the future to dispose of the dredging materials into the sea. It's very expensive to change, but we think it's the right thing to do and we want to shift from ocean disposal, to using nearby land as a more sustainable and long-term option.

### **Do you agree we should change the way we dredge Clive River?**

To do this, we would put aside more money each year. To reduce the impact on ratepayers we will seek Government funding to help with the extra costs. No allowance for central government funding has been included in this proposal. We would buy the required land in 2025 to prepare for the dredging and disposing of the sediment around 2029.

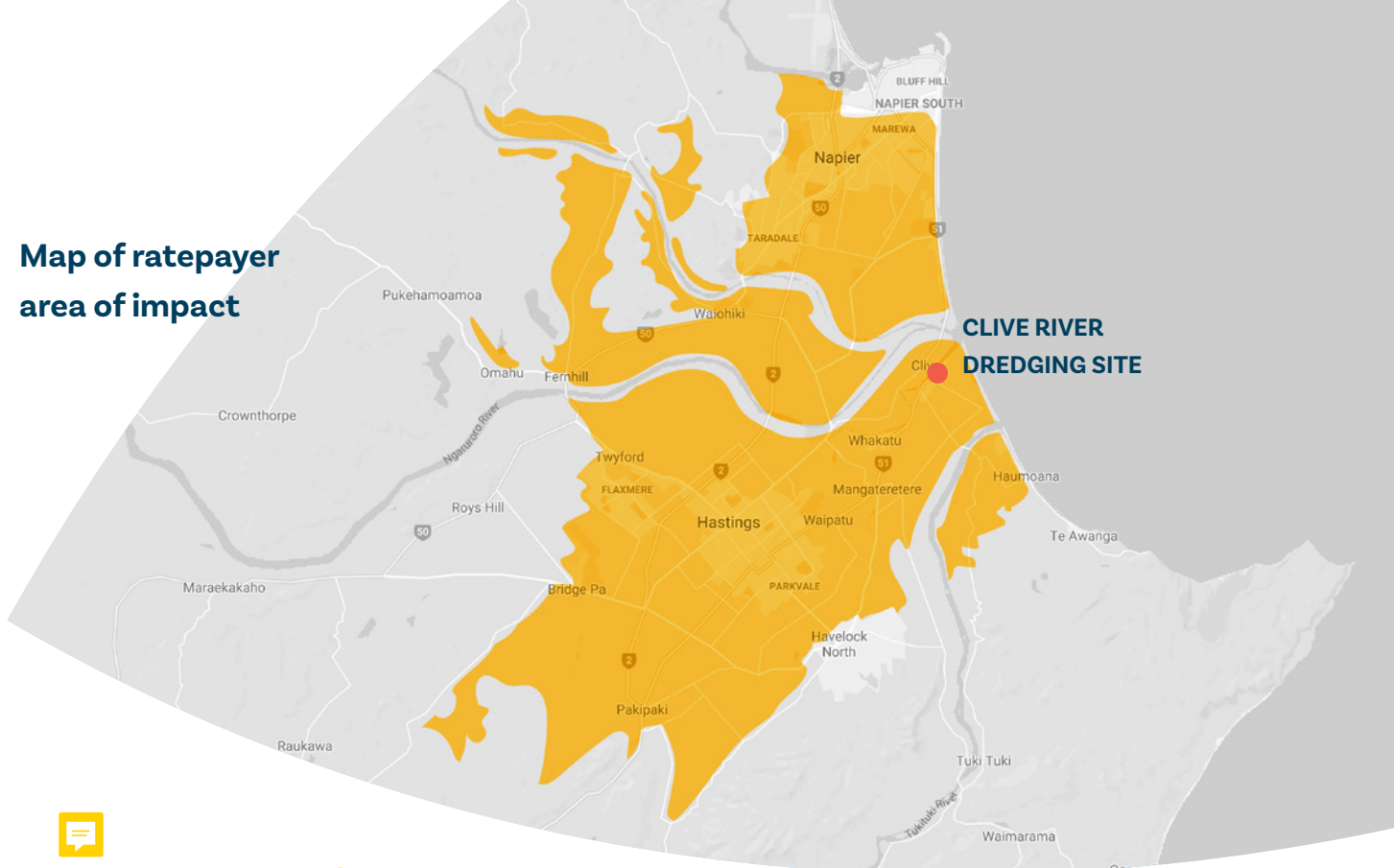
### **RIVER MANAGEMENT**

The Regional Council provides 25 flood control and drainage schemes in Hawke's Bay to reduce the risk of flood and erosion damage while maintaining a high quality river environment. We maintain networks of stopbanks, hydraulic structures and pump stations and manage the river, stream and drainage channels to ensure they work as expected during floods to help protect life and property.

Many of the stopbanks are now used for cycle trail routes, and Pākōwhai Regional Park is now established on flood and drainage scheme land.



## Map of ratepayer area of impact



OPTION 1 (preferred option)	OPTION 2	OPTION 3
<p>Dredge the river in ten years as far up as Kohupātiki Marae (1.6 km) and pump the sediment to nearby land.</p> <p><b>Impact on levels of service:</b> Improve the dredging solution for a larger section of the river, for users and the marine environment.</p> <p><b>Total cost:</b> \$5.9 million to be spent in years 5 and 9, of which \$2.5 million is loan funded in year 9.</p>	<p>Dredge the river in ten years as far up as the rowing club (1.2 km) and pump the sediment to nearby land.</p> <p><b>Impact on levels of service:</b> Improve the dredging solution for the same section of the river, for users and the marine environment.</p> <p><b>Total cost:</b> \$3.4 million to be spent in years 5 and 9.</p>	<p>Status quo – continue our 10-yearly dredging programme and pump the sediment into the sea.</p> <p><b>Impact on levels of service:</b> No change</p> <p><b>Total cost:</b> \$1.2 million to be spent in year 9.</p>
<p><b>Impact on rates:</b> included in rate increase            Year 2 \$240,000 0.8% increase            Year 3 \$246,000 0.7% increase            Year 4 \$253,000 0.7% increase            Totalling \$2.8 million over 9 years.</p> <p>70% funded through the targeted Heretaunga Plains Flood Protection scheme rate; 30% from general rates.</p>	<p><b>Impact on rates:</b> included in rate increase            Year 2 \$240,000 0.8% increase            Year 3 \$246,000 0.7% increase            Year 4 \$253,000 0.7% increase            Totalling \$2.4 million over 9 years.</p> <p>70% funded through the targeted Heretaunga Plains Flood Protection scheme rate; 30% from general rates.</p>	<p><b>Impact on rates:</b> Nil</p>
<p><b>Impact on debt:</b> \$2.5m in Year 9</p>	<p><b>Impact on debt:</b> Nil</p>	<p><b>Impact on debt:</b> No impact</p>

Options 1 and 2 do not relate to the current dredging cycle.