

Long Term Plan 2024-2034
Waihi Beach Stormwater re-prioritisation.
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Internal Submission Paper ✓

Internal submission	
	Description
Activity	<i>Stormwater</i>
Issue	<i>Waihi Beach Stormwater re-prioritisation</i>
Project No	<i>226355, 226356, 226357, 226358, 226360, 226364, 226365</i>
Related strategies/Activity Plans	<i>Stormwater Activity Plan</i>

Strategic Priorities	Does your project contribute to our strategic priorities? Yes/No	<i>Please explain how your project contributes to one or more of the below strategic priorities:</i>
Enabling housing.	Yes	<i>The purpose of these projects is to ensure sustainable and efficient water management practices. Enabling housing is supported by reducing flood risks, making land safer for development. Empowering communities is achieved through transparent, community-involved planning and the implementation of green infrastructure, which enhances local environments. These efforts also foster authentic Te Tiriti-based relationships by incorporating Te ao Māori perspectives in water management, while providing resilient, well-maintained infrastructure that adapts to climate change challenges, ensuring long-term sustainability.</i>
Empowering communities.	Yes	
Growing authentic Te Tiriti based relationships.	Yes	
Providing resilient, well maintained, and efficient infrastructure.	Yes	
Responding to climate change.	Yes	

Submissions received through the LTP Consultation process.

Council received several submissions relating to Waihi Beach Stormwater through the LTP consultation process. Topics included Waihi Beach Tennis Club Stormwater and Waihi Beach Stormwater. These are acknowledged and responded to through the stormwater activity issues and options paper however it should be noted that support was received from the Waihi Beach Stormwater Action Team (SWAT) with the relevant submission responses set out below to provide context for this internal submission.

Stormwater Maintenance:

SWAT emphasizes the importance of regular stormwater maintenance and pre-storm checks. It is SWAT's opinion that the effects of the 2013 and 2023 floods could have been mitigated with ongoing maintenance. SWAT requests that council employ a local caretaker to conduct regular checks and alert the council to issues, supplementing the customer service requests.

Infrastructure Upgrades in the Draft LTP:

SWAT supports the expenditure on necessary infrastructure upgrades in the draft Long Term Plan (LTP). SWAT urges that projects be able to proceed promptly following work of the Stormwater Liaison Group as key projects have previously been deferred in past LTP.

Community Support:

There is strong community support for stormwater upgrades, as evidenced by surveys and conversations. There is acknowledgment and appreciation from the community, of the thorough work by staff and the collaboration between the Community Board, SWAT, and the Stormwater Liaison Group in these projects.

Response

Waihi Beach Earth Dam

The Waihi Beach Earth Dam project is a priority due to the necessity to comply with new dam safety guidelines. During heavy rainfall, the current dam embankment risks being overtopped, posing a significant threat of failure. To prevent over topping of the dam water must be released faster, increasing the flood hazard in the One-Mile Creek catchment area, affecting the campground, Surf Life Saving Club, local shops, and residential areas. All modification options for the dam lead to an increased flood risk downstream.

To offset this increased flood hazard, it is proposed to enhance channelling and containment within the One-Mile Creek catchment. Since the dam poses the highest risk for cost escalation, council staff are exploring the removal of the dam as the preferred option. While these changes may alter the dam's recreational value, they also present an opportunity for improvement. Based on recent estimates it is recommended that an additional \$8.2 million is required to complete the Waihi Beach Dam Upgrade and One-mile creek flow path Improvements. This could be funded by re-allocating funds from other stormwater projects in Waihi Beach where the scope is unclear and are at risk of being delivered when planned or may have significant cost escalation. Funds could be reallocated back to these projects in the next LTP cycle following a levels of service review when the scope of these projects are better understood. It is recommended to keep funds to design these projects. The projects recommended to be re-allocated are:

- Darley Drain Upper Catchment Attenuation
- Maranui Diversion
- Two-mile Creek Upper Catchment Attenuation
- Pio Shores Stormwater Improvements (partial re-allocation).

Waihi beach Stormwater Improvements

Following recent feasibility and prioritisation assessments the following projects are recommended to be reprioritised for the first four years of this LTP. These projects were already included in the draft LTP under project 226365 - Stormwater Flooding Improvements. It is proposed to re-budget these funds to specific projects now that project scope has been better defined through the Stormwater Liaison Group. No additional funding is requested.

Pio Shores Stormwater Improvements: It is recommended that funds for this project are partially re-allocated to the Waihi Beach Dam Upgrade. This will allow council enough time to better define the scope and understand the exact cost, benefit and feasibility of this project. The project could then be assessed against the planned level of service review. This project will still have \$950,000 In the LTP for planned upgrades.

Darley drain outlet upgrade and Brighton reserve diversion. (New project.) It is recommended that the Darley drain outlet upgrade and Brighton reserve diversion is prioritised in the LTP, this can be done within existing budgets (Stormwater flooding improvements 226365) and will require a re-budget. The project is at the bottom of the catchment and will allow for other projects upstream to progress if feasible, the existing outlet is also at the end of its useful life, so the timing is ideal.

Maranui Diversion and two-mile creek upper catchment attenuation: Due to its high complexity and low benefit ranking, It is recommended that funds for this project are re-allocated to the Waihi Beach Dam Upgrade, and that design is completed during this LTP cycle. This will allow council enough time to better define the scope and understand the exact cost, benefit and feasibility of this project. The project could then be assessed against the planned level of service review.

Wilson Road/Otto Road Pump Station: Due to its low complexity, it is recommended that this project remains within this LTP cycle, and no changes are made to timing.

Darley Drain upper catchment attenuation Dams: Due to its high complexity and low benefit ranking, it is recommended that funds for this project are re-allocated to the Waihi Beach Dam Upgrade. Early modelling results have shown that the dams would be considered high risk for little to no benefit.

Beach road Boardwalk: (New Project.) The existing boardwalk poses a high health and safety risk to residents and is causing erosion under an existing dwelling. It is recommended that this project is prioritised for the first year of the LTP, this project can be completed with existing budgets.

Walnut Ave pipe replacement: (New Project.) The existing pipe poses a high risk to homes if it fails as it is current located under existing dwellings. The pipe is in poor condition and at the end of its useful life. It is recommended this project is programmed to follow the Darley Drain outlet upgrade. The outlet upgrade is an enabling project as it is directly upstream, this project can be completed with existing budgets.

Wilson Park Overland Flow path Improvements: It is recommended to implement bunding and improved swale design through Wilson park to prevent reduce the flood risk to habitable floors in the area. This is recommended for construction in years two and three of the LTP and can be achieved with existing budgets.

Edinburgh Street Pipe: The construction of the new pipe at Edinburgh Street is not deemed feasible due to the lack of clearance around other infrastructure. It is recommended to remove this from the LTP and re-allocate the budget to the Waihi Beach Earth Dam.

Levels of Service Review: It is recommended to reallocate \$100,000 per year for the first three years of the LTP towards the planned level of service review planned in the Infrastructure strategy. This requires a re-budget of some funds from CAPEX to OPEX.

These projects align with best practice in that they start at the bottom of the catchment and look to replace below ground infrastructure with open drains where practicable. This doesn't set unrealistic expectations for future stormwater infrastructure projects such as large pumps or dams to protect properties and gives council time to review stormwater levels of service before the next LTP as discussed in councils' infrastructure strategy. As part of the levels of service review council could explore the request for a maintenance cyclic role for stormwater infrastructure.

As for the Earth Dam. Council is obligated to meet the new dam safety guidelines or remove the dam so that it no longer meets the threshold of being considered a classifiable dam.

Options (recommended option in bold)	
1	<p><i>Option 1: THAT Council approves the re-budget of Waihi Beach stormwater projects including removal of the Waihi Beach Earth Dam as a priority and re-prioritisation of the improvements to One-Mile Creek, AND THAT Council approves the Re-prioritisation of Waihi Stormwater Projects as contained in Appendix A, AND THAT Council approves additional operational funding of \$100,000 per year for three years from 2024/25 (Year 1) to 2026/27 (Year 3) funded through the uniform targeted rate for a stormwater level of service review across the district.</i></p>
2	<p>That Council does not approve the re-budget of Waihi Beach stormwater projects to prioritise the Dam and One-Mile Creek Improvements, and THAT Council does not approve the re-prioritisation of Waihi Stormwater Projects as contained in Appendix A.</p>

RECOMMENDED OPTION	<i>Option 1: THAT Council approves the re-budget of Waihi Beach stormwater projects including removal of the Waihi Beach Earth Dam as a priority and re-prioritisation of the improvements to One-Mile Creek, AND THAT Council approves the Re-prioritisation of Waihi Stormwater Projects as contained in Appendix A, AND THAT Council approves additional operational funding of \$100,000 per year for three years from 2024/25 (Year 1) to 2026/27 (Year 3) funded through the uniform targeted rate for a stormwater level of service review across the district.</i>
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<p>Advantages</p> <ul style="list-style-type: none"> • Reduce the risk of a complete Dam Failure. • Compliance with Dam Safety Guidelines. • Align Waihi Beach stormwater projects with recent strategic priorities. • Delivery of key projects for Waihi Beach stormwater management. 	<p>Disadvantages</p> <ul style="list-style-type: none"> • Change of recreational value of the Dam. • Perceived deferral of projects from community.
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Option 1: Implications for Work Programme/Budgets

y/e June	2024/25 \$000	2025/26 \$000	2026/27 \$000	2027/28 \$000	2028/29 \$000	2029/30 \$000	2030/31 \$000	2031/32 \$000	2032/33 \$000	2033/34 \$000	Comments
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Capital cost e.g. Asset

Capex funding	-1,961	1,868	5,804	-663	-605	-1,493	-2,375	75	-725	75	<i>See Appendix A Below</i>
• Rates (Loan)	-1,961	1,758	5,556	-648	-579	-1,467	-2,375	75	-725	75	
• Fin Contribution	0	110	248	-15	-26	-26	-	-	-	0	
• External											
• Other (specify)											

Opex cost e.g. grants, service delivery, maintenance

- Other
(specify)
- Ongoing
Opex costs

Opex cost *No Changes*

Recommended Decision (to be completed by staff prior to decision-making meeting)

*Option 1: THAT Council approves the re-budget of Waihi Beach stormwater projects including removal of the Waihi Beach Earth Dam as a priority and re-prioritisation of the improvements to One Mile Creek, AND
THAT Council approves the Re-prioritisation of Waihi Stormwater Projects as contained in Appendix A, AND
THAT Council approves additional operational funding of \$100,000 per year for three years from 2024/25 (Year 1) to 2026/27 (Year 3) funded through the uniform targeted rate for a stormwater level of service review across the district.*

Decision

(To be completed in the decision making meeting)

Reason

(To be completed in the decision making meeting)

Appendix A - Proposed Changes

Project Number	Project Name	2024/25 \$000	2025/26 \$000	2026/27 \$000	2027/28 \$000	2028/29 \$000	2029/30 \$000	2030/31 \$000	2031/32 \$000	2032/33 \$000	2033/34 \$000
226353	Stormwater, Waihi Beach, Two Mile Creek West Bank	140									
226355	Stormwater, Waihi Beach, One Mile Creek Improved Flow Path				(330)						
226356	Stormwater, Waihi Beach, Diversion of Maranui Flood Water	100	(535)	(1,248)							
226357	Stormwater, Waihi Beach, Darley Drain Upper Catchment Attenuation						(676)				
226358	Stormwater, Waihi Beach, Two Mile Creek Upper Catchment Attenuation	(200)	(873)	(1,946)	(324)						
226360	Stormwater, Waihi Beach, Edinburgh Street Pipe Upgrade	(140)									
226361	Stormwater, Waihi Beach, Pio Shores Stormwater Improvements	(350)				(680)	(680)				
226363	Stormwater, Waihi Beach, Otto Road Pipe Upgrades from proposed Wilson Road Carpark			(201)							
226364	Stormwater, Waihi Beach, Waihi Beach Earth Dam	150	3,000	6,480	(750)						
226365	Stormwater, Waihi Beach, Network Improvements	(1,711)	(1,572)	(381)	41	75	(137)	(2,375)	75	(725)	75
331501	Stormwater, Waihi Beach, Otawhiwhi Marae Stormwater Drain	(400)	398								
344601	Stormwater, Waihi Beach, Athenree Stormwater Improvement		200								
New Project	Stormwater, Waihi Beach, Brighton Road Diversion and Darley Dain Outlet Improvements	100	500	2,000							
New Project	Stormwater, Waihi Beach, Wallnutt Avenue Pipe Renewal	50		600	700						
New Project	Stormwater, Waihi Beach, Beach Road Boardwalk Renewal	250	250								
New Project	Stormwater, Waihi Beach, Wilson Park/ The Crescent Stormwater improvements	50	500	500							
New Project	Stormwater, District Wide, Levels of Service Review	100	100	100							

Proposed Budgets

Project Number	Project Name	2024/25 \$000	2025/26 \$000	2026/27 \$000	2027/28 \$000	2028/29 \$000	2029/30 \$000	2030/31 \$000	2031/32 \$000	2032/33 \$000	2033/34 \$000
226353	Stormwater, Waihi Beach, Two Mile Creek West Bank	1,140									
226355	Stormwater, Waihi Beach, One Mile Creek Improved Flow Path										
226356	Stormwater, Waihi Beach, Diversion of Maranui Flood Water	100									
226357	Stormwater, Waihi Beach, Darley Drain Upper Catchment Attenuation										
226358	Stormwater, Waihi Beach, Two Mile Creek Upper Catchment Attenuation										
226360	Stormwater, Waihi Beach, Edinburgh Street Pipe Upgrade										
226361	Stormwater, Waihi Beach, Pio Shores Stormwater Improvements	150		800							
226363	Stormwater, Waihi Beach, Otto Road Pipe Upgrades from proposed Wilson Road Carpark			450							
226364	Stormwater, Waihi Beach, Waihi Beach Earth Dam	150	3,000	7,350							
226365	Stormwater, Waihi Beach, Network Improvements	100	200	150	200	150	150	100	150	100	150
331501	Stormwater, Waihi Beach, Otawhiwhi Marae Stormwater Drain	100	1,000								
344601	Stormwater, Waihi Beach, Athenree Stormwater Improvement		200								
New Project	Stormwater, Waihi Beach, Brighton Road Diversion and Darley Dain Outlet Improvements	100	500	2,000							
New Project	Stormwater, Waihi Beach, Wallnutt Avenue Pipe Renewal	50		600	700						
New Project	Stormwater, Waihi Beach, Beach Road Boardwalk Renewal	250	250								
New Project	Stormwater, Waihi Beach, Wilson Park/ The Crescent SW improvements	50	500	500							
New Project	Levels of Service Review	100	100	100							