

Fact Sheet 4: The Shortlist

Maribyrnong River catchment flood mitigation study – Phase 3

Together with the community, Melbourne Water is exploring flood mitigation options to help reduce flood risk in the lower Maribyrnong River catchment, recognising that some flood risk cannot be entirely eliminated. To ensure that we are ready for the future, flood mitigation options are tested against flood risk in the year 2100.

Last year during Phases 1 and 2, we asked community members what was important to them and shared a long list of flood mitigation options. Since Phase 2 our team of experienced flood mitigation specialists have refined the long list into a shortlist using several technical assessments alongside community feedback.

Developing the short list

The shortlisting process included assessing the options individually on how they performed during a simulated flood event using a computer model. We also assessed how they performed in combination with other mitigation options.

Alongside these technical assessments, we considered community feedback. This ensured we only carried forward options that were effective, feasible, and aligned with community priorities.

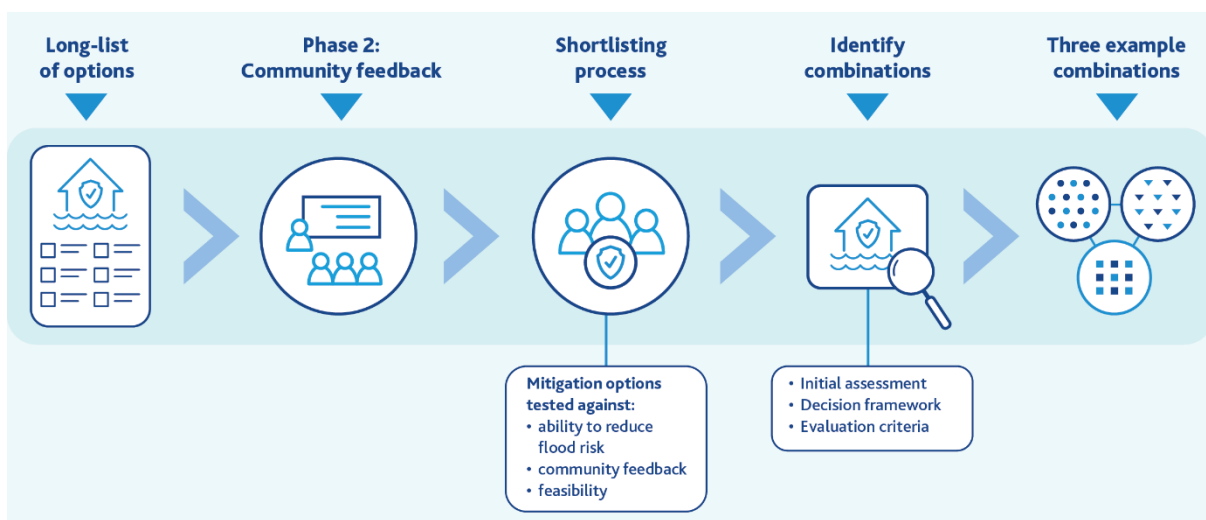
Three main inputs were used to refine the shortlist:

- **Flood risk reduction** - assessed each option to understand the extent of flooding reduction in the lower catchment using computer modelling.

- **Community feedback** – consultation from Phases 1 and 2 informed decisions by identifying community-supported options, areas of concern and key priorities.
- **Early feasibility checks** - how feasible and practical each option is, assessing the ability to construct, cost and time to implement.

The Evaluation Criteria was used during the shortlisting process. The Criteria helped the Project team prioritise options which aligned with key metrics, such as property and safety which had been informed by community feedback.

As part of these initial assessments, some mitigation options were removed from the shortlist because they were found to provide limited flood risk reduction, were not cost-effective compared to the benefits achieved or they did not align with community priorities.



What made it on the Shortlist

The shortlist includes structural and non-structural options. The following mitigation options progressed to the shortlist:

Structural options

Retarding basins

- Konagaderra Retarding Basin (RB60)
- Wildwood Retarding Basin (RB65)
- Arundel Retarding Basin (RB70)

Levees

- Rivervue Retirement Village Levee (L010)
- The Boulevard, Aberfeldie Levee (L020)
- Maribyrnong Township Protection Levee (L030)
- Woods Street, Ascot Vale Levee (L042)
- Kensington Banks Protection Levee (L056)
- Hobsons Road and Sims Street Levee (a combination of L054, L060, and L070)

Culverts

- Heavenly Queen Temple Culverts (Cu20)
- Canning Street Bridge Culverts (Cu50)

Multifunctional storages

- Defence Site Maribyrnong (S060)

Pier shielding

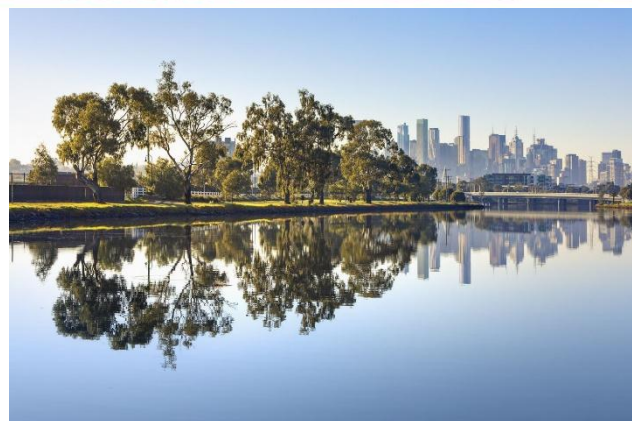
- Pier Shielding on Raleigh Road Bridge (Br10)

Non-structural options

- Agency and community flood preparedness (NS60)
- Flood warning system improvements (NS20)
- Flood resilient homes and flood proofing (NS15)
- Evacuation routes (NS80)

Nature-based solutions

- Natural Measures (NBS1)
- Reconnection of billabongs (NBS3)
- Leaky Dams (NBS4)



What's next?

After the shortlist was developed, we progressed to undertake a rigorous series of technical assessments to identify and determine the most effective, feasible and cost-efficient combination of mitigation options to reduce flood risk in the lower catchment.

To find out more information, visit the Let's Talk website to learn more about the project, view current and upcoming engagement opportunities and sign up to receive project updates.



www.letstalk.melbournewater.com.au/maribyrnong-river-flood-model/flood-mitigation-study

Speak to the team

If you have any questions, please call **131 722** or email **enquiry@melbournewater.com.au**