

6. Onsite detention

WHAT IS THE PROJECT?

This option would involve capturing and temporarily holding rainwater on individual properties using onsite detention systems such as rainwater tanks or smart tanks. These tanks slow down how quickly water enters the drains after it rains.

They can be installed in new developments or added to existing properties that have enough space.

HOW WOULD THIS HELP?

Onsite detention tanks hold rainwater during storms and release it slowly into the drainage system.

This helps to reduce pressure on existing pipes by lowering peak water flow, especially during intense rain.

This option follows best practice for stormwater management and helps manage flooding over time. The impact of this option is difficult to be estimated as it requires large scale implementation.

WHAT DOES IT LOOK LIKE?

These tanks can be above or below ground, depending on the space available.

They are often connected to roofs and gutters, and can also be used to water gardens or flush toilets, adding environmental benefits.



Figure 17: Typical Onsite detention system.

FURTHER INFORMATION:

- > This option is easier to include in new buildings as part of the design.
- > Retrofitting tanks to older homes can be more difficult, especially where space is limited.
- > The impact of this option depends on number of properties participate.
- > Benefit is reduced if tanks are not empty at the start of a rain event.

INDICATIVE PROJECT COST	IMPLEMENTATION TIME	CAN THIS OPTION BE STAGED
Low.	Medium-term – more than five years.	Yes - the project can be applied in stages across different streets or areas.