

8. Field Street North Pipe Upgrade

WHAT IS THE PROJECT?

The City investigated potential upgrades to parts of the drainage system through the Field Street North catchment.

This option would involve increasing pipe sizes along a large section of the local drainage network, including parts of Eggleston Street, Blackwood Place, Kestrel Place, Sandpiper Court, Field Street North, Cuthbertson Drive, Thacker Street and the drainage connection towards Blue Lake.

The area is affected by overland flow, which occurs when stormwater travels across the ground surface during heavy rainfall because the drainage system is full or unable to capture all flows.

This option was explored to understand whether increasing the capacity of the pipe network could help capture more stormwater, including flows moving across Thacker Street from the north, and reduce flooding impacts in the surrounding area.

HOW WOULD THIS HELP?

- > The study suggests this option could reduce flood risk for approximately 19-27 properties during an intense rain event (1 per cent AEP).

FURTHER INFORMATION:

- > This option would involve extensive upgrades across a large drainage network and would require significant further investigation before it could be considered for future delivery.
- > Due to the scale of the proposed works, early technical review indicates this option may involve very high costs and significant construction challenges compared with other mitigation options being investigated. For this reason, this option has not been progressed to more detailed design at this stage.

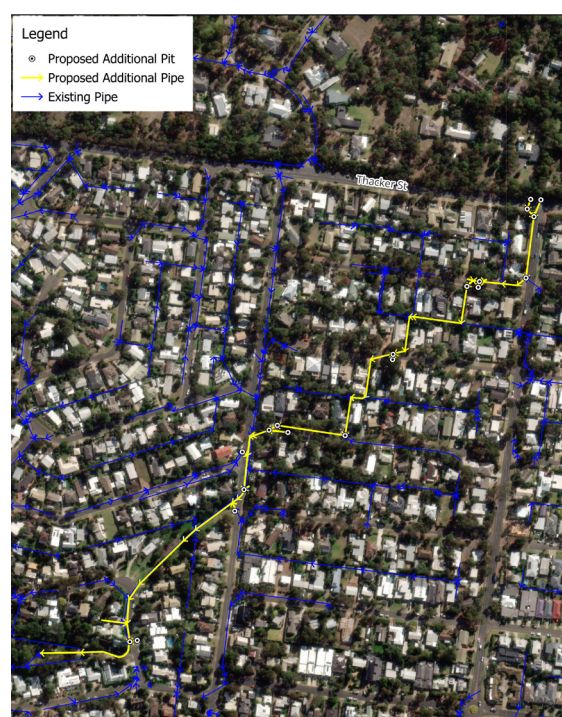


Figure 25: Field Street North Pipe Upgrade

WHAT DOES FLOOD RISK LOOK LIKE IF THIS PROJECT IS BUILT?

The diagrams below show the modelled change in flooding if this option was delivered.

Green = Decreased flooding

Pink = No longer occur for the event shown.

Different shades of green show different levels of flood reduction. In some areas, even a small reduction in flood depth may help reduce the potential impact of flooding during a major storm event.

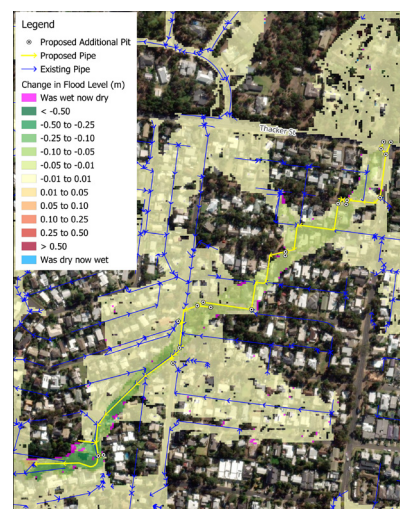


Figure 26: 1 per cent annual exceedance probability (AEP) modelling results.

INDICATIVE PROJECT COST	IMPLEMENTATION TIME	CAN THIS OPTION BE STAGED
High – more than \$5 million	Long-term – more than 10 years	No - the full project would need to be completed at one-time.