



Review of Wollongong City Flood Study

Central FPM committee meeting

17/04/2018

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Agenda

1. Catchment overview
2. Need for a review of the Wollongong City Flood Study
3. Community consultation outcomes
4. Review of flooding at Swan Street
5. Flood model updates
6. Assessment of revised culvert blockage policy
7. Next steps

Catchment overview



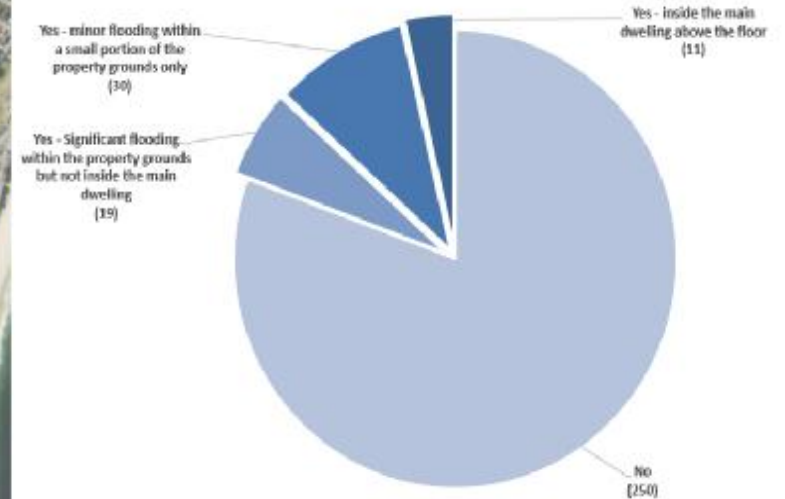
Need for a review of the Wollongong City Flood Study

- Revised Conduit Blockage Policy
- New ARR 2016 Guidelines and Council IFDs
- Recent urban development
- Changes in channel characteristics of the Gurungaty Waterway
- Lowering of the Gurungaty Causeway
- Recent flood events

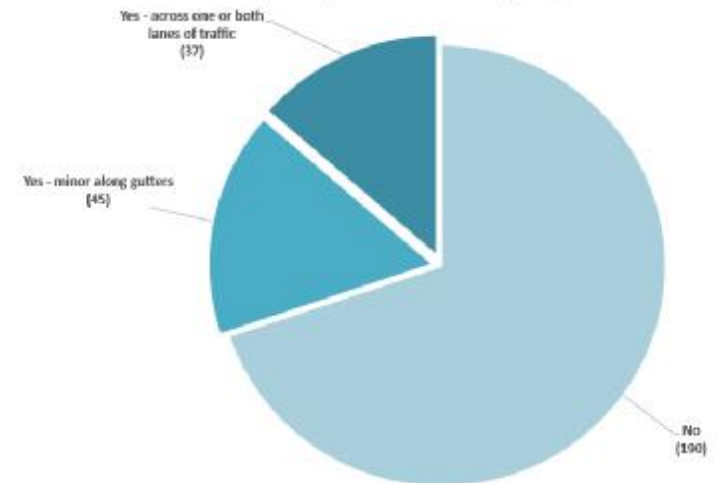
Community consultation outcomes



Have you experienced flooding at your property?



Have you experienced flooding on your Street?

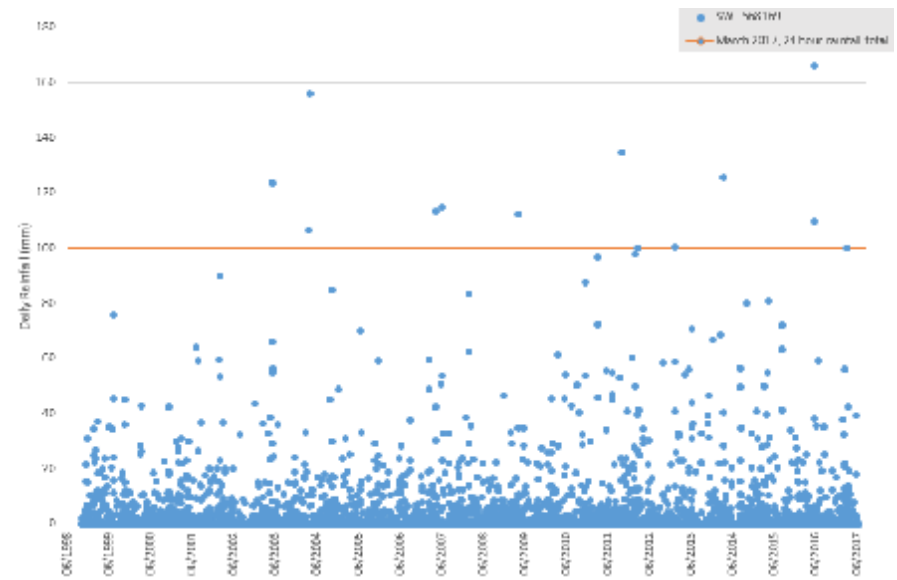
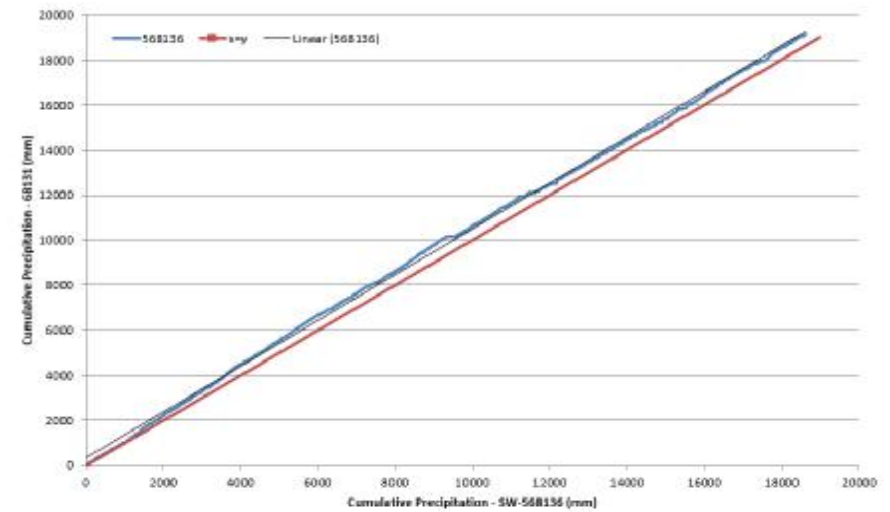
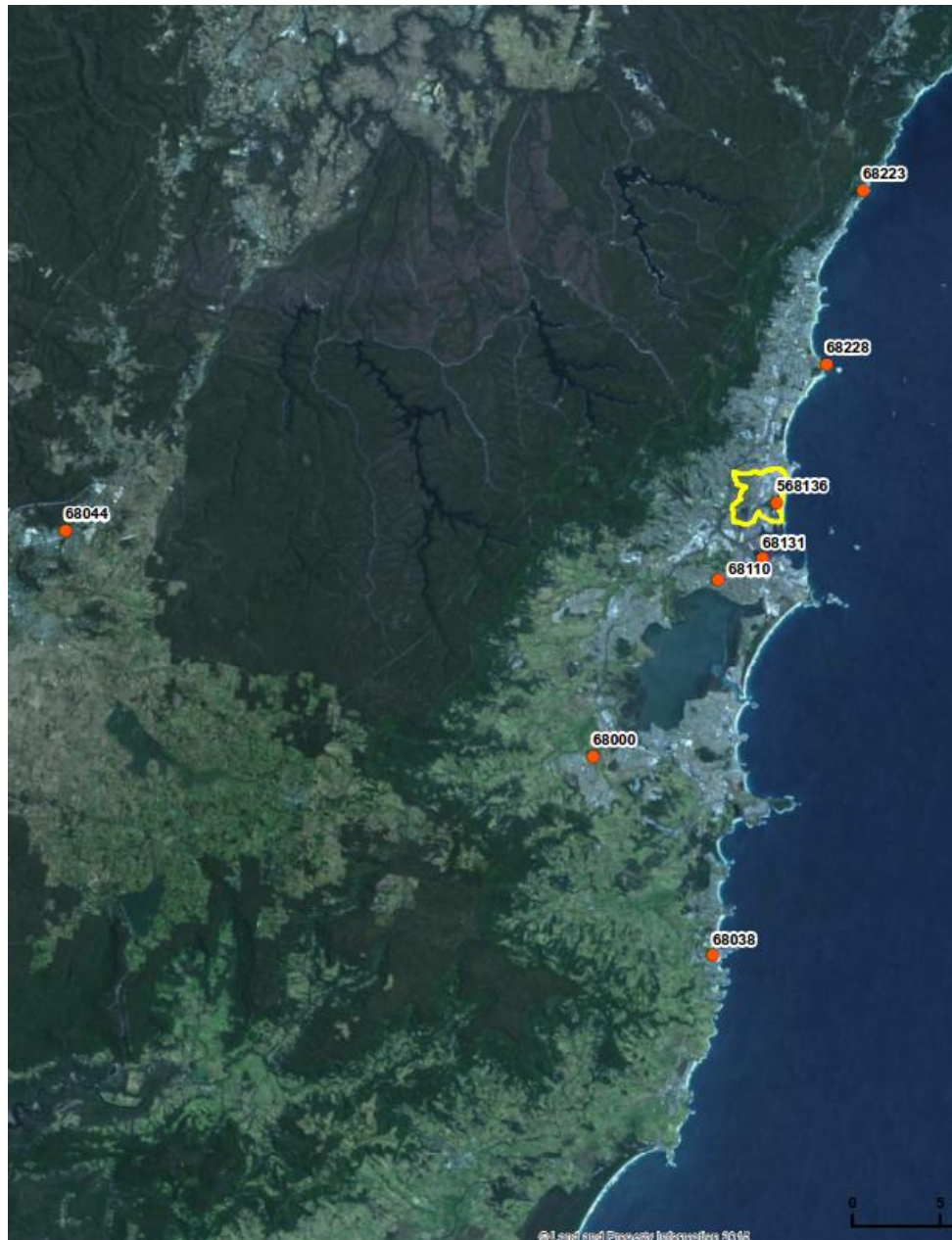


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Review of flooding at Swan Street

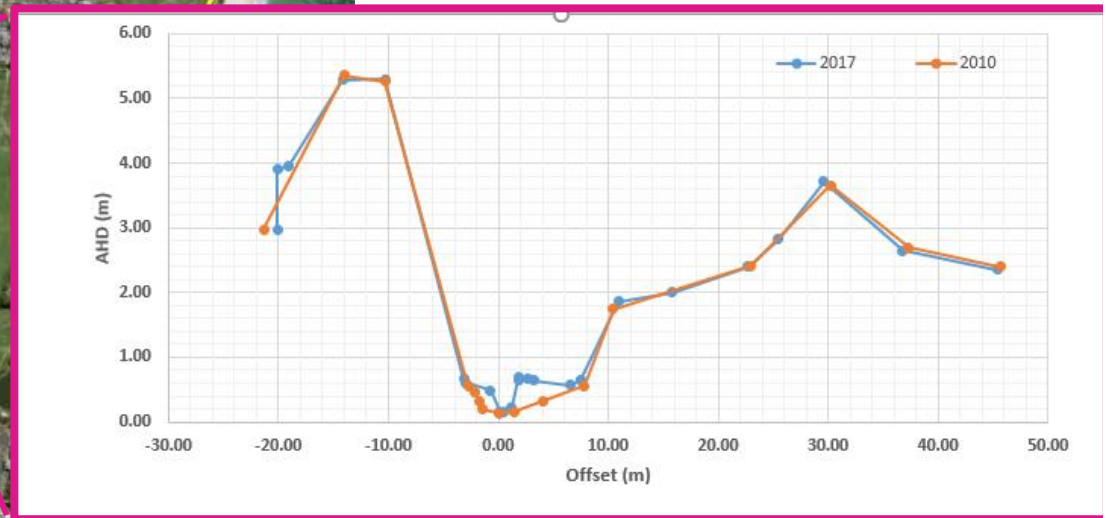
- Review of rainfall patterns
- Changes in the profile of the Gurungaty Waterway
- Changes in vegetation along the Gurungaty Waterway
- Review of Sydney Water wet weather overflows

Review of rainfall data



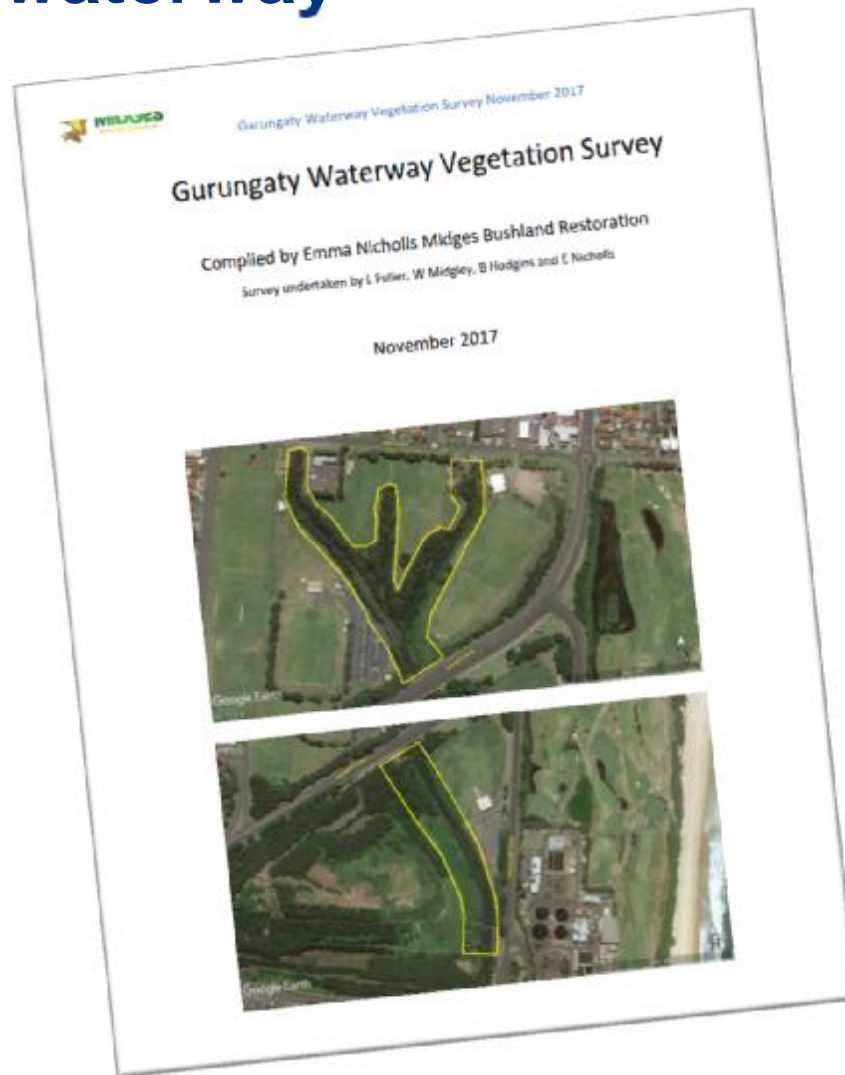
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Change in profile of the Gurungaty waterway





Changes in vegetation along the Gurungaty waterway



DP3



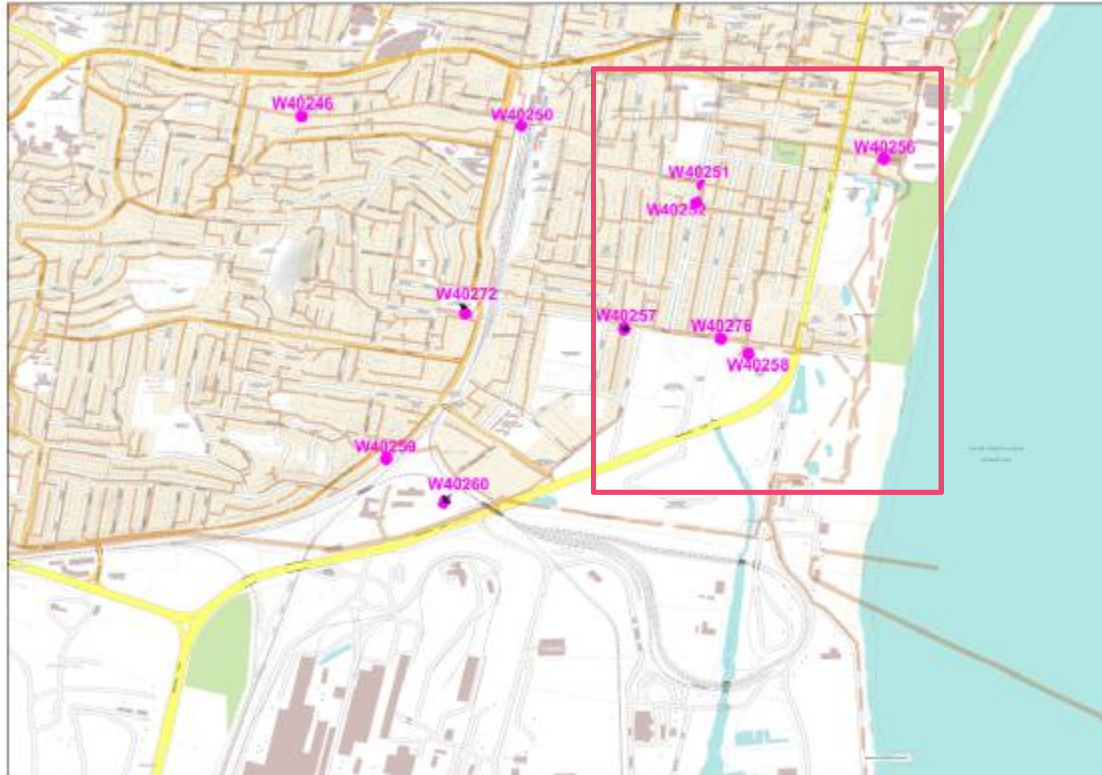
DP4

Slide 10

DP3 **downstream of Springhill Raod**
Dunne, Paul, 15/04/2018

DP4 **U/S Swan Street**
Dunne, Paul, 15/04/2018

Review of Sydney Water wet weather overflows

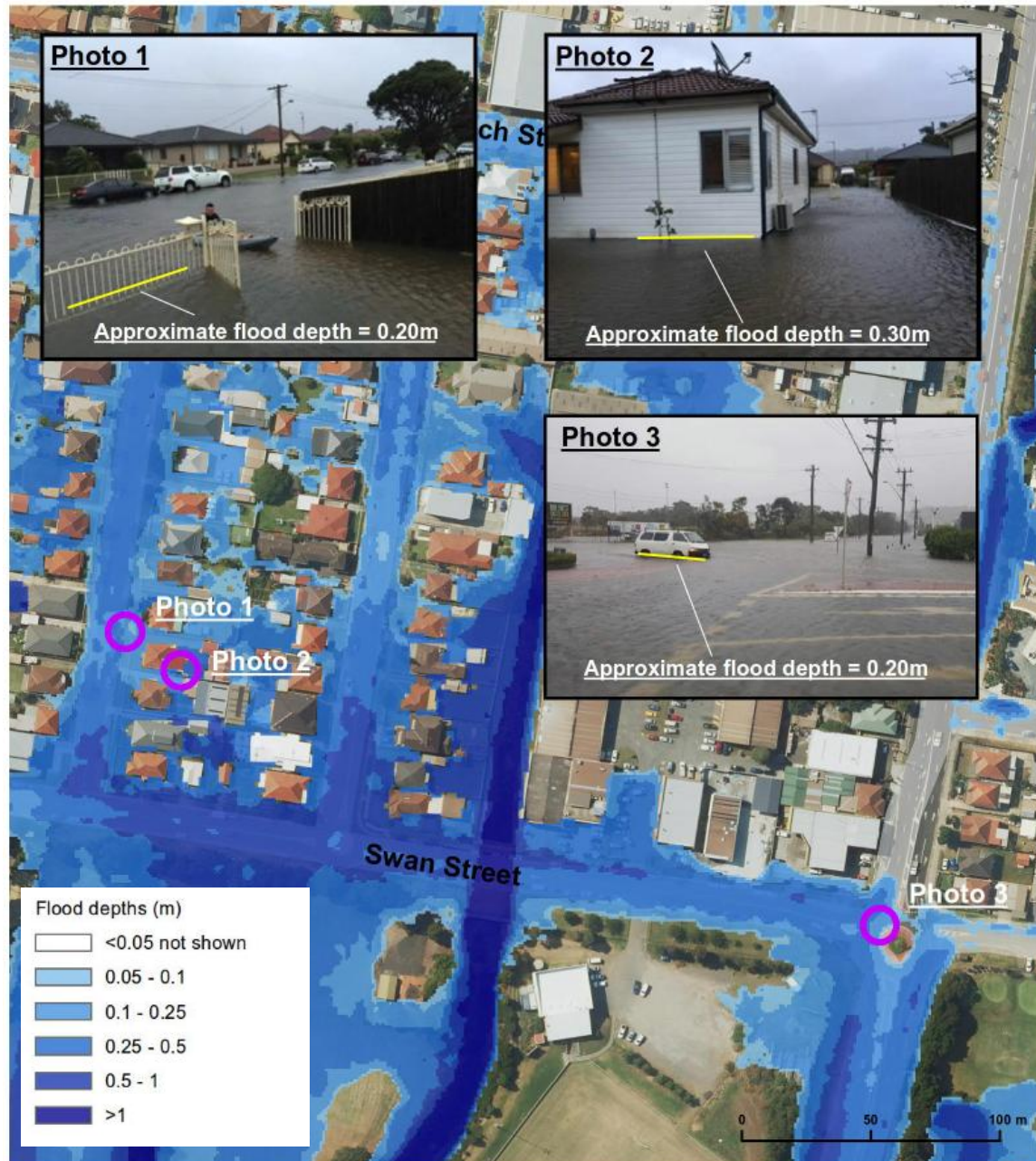


	March 2017	June 2016
Total flood event volume (m ³)*	128,568	368,476
Total overflow volume (m ³)**	1,714	11,137
Total overflow as a percentage of flood event volume	1%	3%

*Upstream of Springhill Road

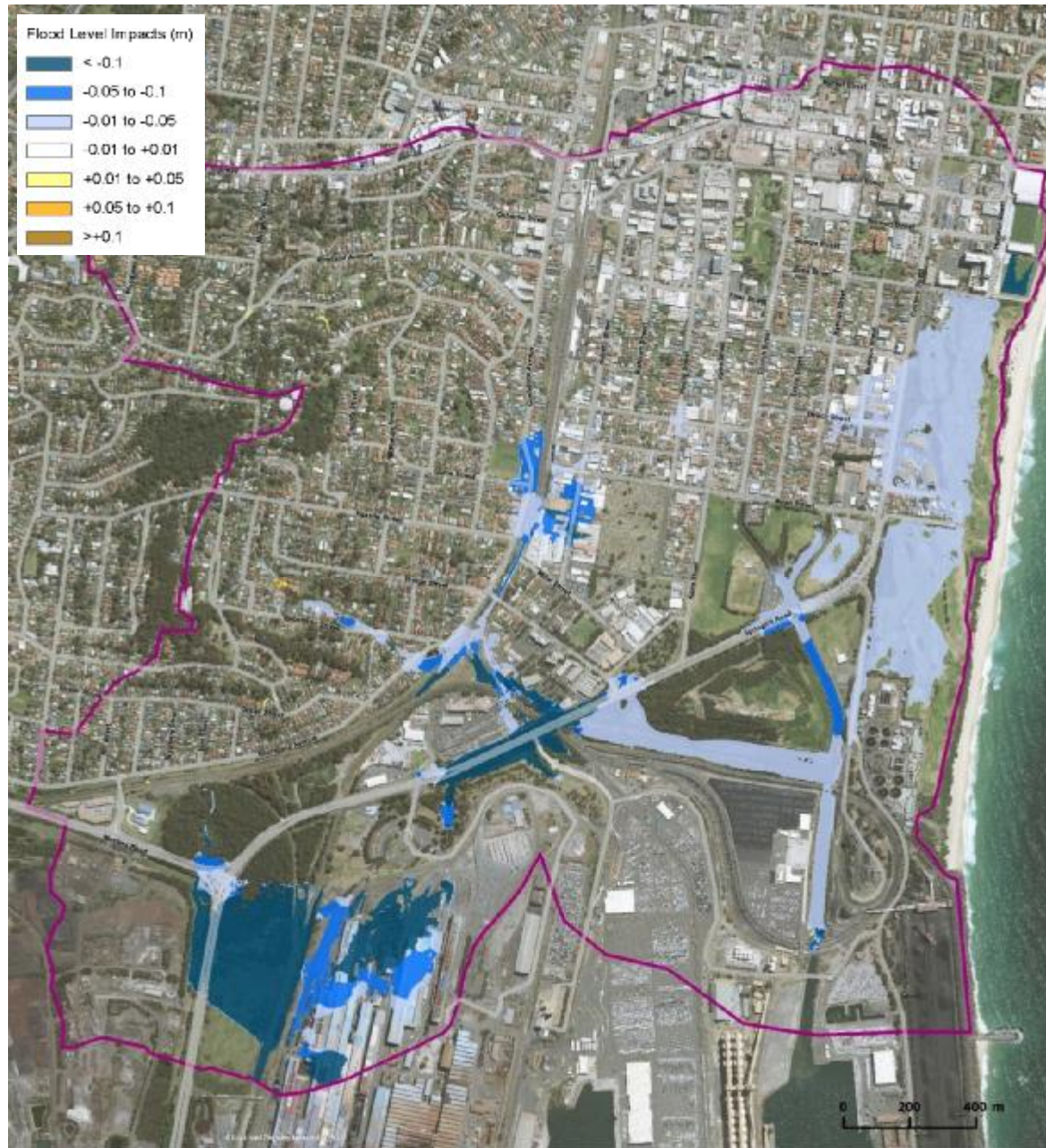
** For locations highlighted on map

Flood model updates



- 2017 catchment conditions
- Model validation to June 2016 and March 2017 flood events

Assessment of revised culvert blockage policy



- 2013 catchment conditions with Councils revised blockage policy

Next steps and program

Stage 2 – Modelling and mapping

- Scenario 3. Run updated flood model using ARR 2016 rainfall inputs (May 2018)
- Scenario 4. Undertake climate change and sensitivity analysis (June 2018)

Stage 3 – Flood Study Addendum

- Prepare draft Addendum to Flood Study Report (July 2018)
- Prepare Final Addendum to Flood Study Report (September 2018)

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