



COMMUNITY PRESENTATION
FOR
**TUGGERAH LAKES FLOODPLAIN RISK
MANAGEMENT STUDY AND PLAN**

Presented by -

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Why are we here??

Council is preparing a floodplain risk management plan (the Plan) for the area you live, work or socialise in. An important part of formalising the plan is Community Consultation and community input.



The study area covers all the areas (not just the flood prone areas) around Tuggerah Lake, Budgewoi Lake and Lake Munmorah.



Glossary:

Flood

- relatively high stream flow which overtops the natural or artificial banks in any part of a stream, river, channel, estuary lake or dam,
and/or
- local overland flooding associated with drainage before entering a watercourse, and or coastal inundation resulting from super elevated sea levels and or waves overtopping coastline defences excluding tsunamis.



Glossary cont:

Floodplain:

- this is the area subject to inundation by floods up to and including the Probable Maximum Flood (PMF) event.

Also referred to as flood prone land.

PMF:

- is the largest flood that could possibly occur at a particular location, usually estimated from probable maximum precipitation



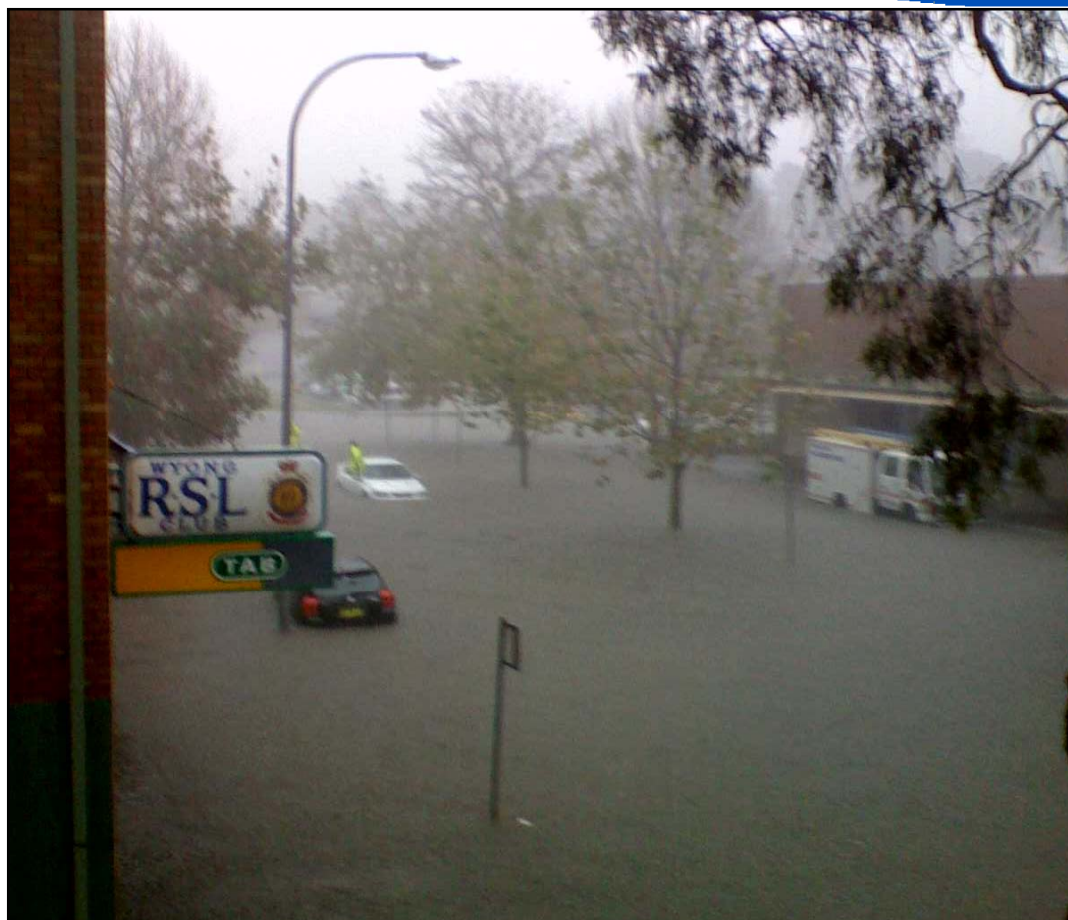
Porters Creek flooding - October 2004



Ourimbah Creek and Tuggerah Lakes flooding – June 2007



Wyong River flooding - June 2007



Urban flooding – Wyong town centre June 2007



Flood Photos:



Urban nuisance flooding - June 2007



What is a Floodplain Risk Management Plan?

- a management plan developed in accordance with the principles and guidelines of the NSW Floodplain Development Manual (2005).
- The plan includes information on how particular areas of floodprone land should be managed to achieve specific objectives as well as managing the existing flood risk.

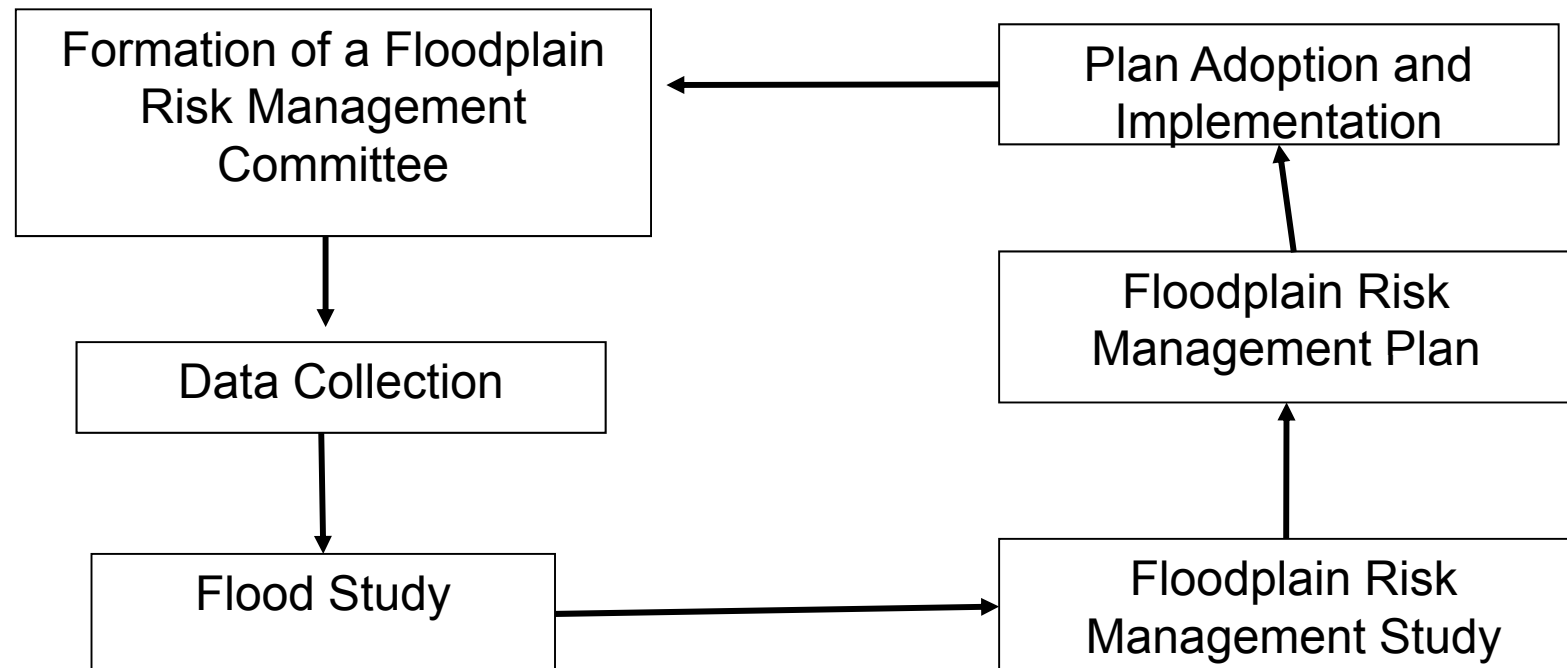


Why do we need a Floodplain Risk Management Plan for Tuggerah Lakes?

- Reduce the social and financial costs from the risks associated with occupying the floodplain
- Increase the sustainable benefits of using the floodplain; and
- Improve or maintain floodplain ecosystems dependent on flood inundation



Steps Involved in Formalising Floodplain Risk Management Study and Plan





Flood Study – Tuggerah Lakes catchment

- Completed in 1994;
- Design flood levels for PMF, 1%, 5%, 20% and 50% AEP design storm events;
- Approximately 8,700 properties are affected by flood planning level,
- Approximately 2,800 properties with floor levels below the flood planning level.



Floodplain Risk Management Study

- Study for the Tuggerah Lakes area is currently being carried out by WMAWater
- Analyse all factors and risks associated with flooding
- Analyse potential risk management options



Flood Risk Management Options

Property Modification Measures:

- Zoning, Voluntary House Raising, Building and Development Controls, Flood proofing Building

Response Modification Measures:

- Community Awareness, Flood Prediction and Warning, Local Flood Plan, Evacuation Arrangements

Flood Modification Measures:

- Retarding Basins, Levees, Channel Improvements, Flood Gates, Opening or dredging the Entrance channel



Property Modification Measures:



Floor above Flood
Planning Level



Property Modification Measures:



Inappropriate
Planning



Property Modification Measures:

Voluntary house
raising so the
floor level is
above Flood
Planning Level





Flood Modification Measures:



Culvert
upgrades



Flood Modification Measures:





How can you help?

As an inhabitant of the Tuggerah Lakes area, the community has a key role in the preparation, implementation and success of the Floodplain Risk Management Plan.

How?

- By providing any information in relation to historic flood events or flooding experiences, and/or
- suggestions of how Council can manage flood prone land.



What are the outcomes of the Plan?

Develop a Plan that

- Reduces flood risk to the community
- Increases community resilience to flood risk
- Introduce planning controls that are specific to all flood prone areas in Tuggerah Lakes area.
- Create greater community awareness that Council is actively involved with floodplain management
- Provide information for preparing Local Flood Plans – for SES.



Where to from here?

- Final draft of plan → public exhibition for review and comment,
- Final report and plan → sent to Council for adoption.
- Adopted plan → implement recommendations, such as planning controls and construction works.
- The Plan will be reviewed every 5 years



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Any Questions???



THANK YOU