

### Main City and North Wagga Levee Upgrade Project



### Agenda

- Welcome
- Presentation on levee upgrade project, potential impacts, how to review information and share your views
- Open discussion



### **Brad Jeffrey**

Levee Upgrade Project Manager



### Presentation outline

What is the levee upgrade project?

What work has happened to date?

How will the proposed upgrade impact on me?

How do I review the documents?

How can I share my views?

How can I get further information about my property?



### What is the levee upgrade project?

- Increasing the height of the Main City Levee to provide protection against a 1 in 100 year river height
  - Currently 1 in 60
- Increasing the height of the North Wagga Levee to provide protection against a 1 in 20 year river height
  - Currently 1 in 17



### Flood heights and history





### **History of the Levees**

#### North Wagga Levees

- Temporary levees built since 1930's
- Levee formalized in 1990 to what was then thought to be a 1 in 20yr level of protection

#### Main City Levee

- Following the 1956 floods, planning started
- Levee constructed in 1960
- Levee height increased following 1974 flood

### **Gumly Levee**

- Temporarily constructed by Kyeamba Shire during the 1974 flood.
- Formalized in 1992 to a 1 in 10yr level.
- Provides protection against a 9.6m river



### What work has happened to date?

**Geotechnical Survey** 

**Aerial Laser Survey** 

2007/08

Topographical Survey

2008/09

2D Modelling

2009/10

Freeboard Analysis & Report

Preliminary Environmental Planning overview

**Levee Design Levels** 

**NSW Public Works Engaged** 

Flood

Concept Design Report

2010/11

Flood



### What work will follow this?

Now - March 2013

**Review of Environmental Factors** 

**Community Engagement Plan** 

March 2013 - March 2014

**Detailed Design** 

**2014 - ongoing** 

Construction

Ongoing lobbying to the State & Federal Governments and grant applications to existing programs



### Review of Environmental Factors

Reuben Robinson GHD



### Environmental issues

- Biodiversity (flora and fauna)
- Soils and water quality
- River flow and flooding
- Land use and property
- Noise and vibration
- Air quality
- Visual impacts

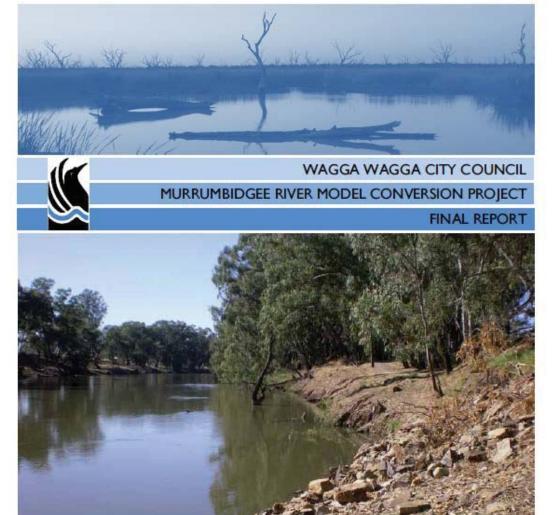


### Environmental issues (cont)

- Aboriginal and European heritage
- Traffic and access
- Social and economic impacts
- Waste management



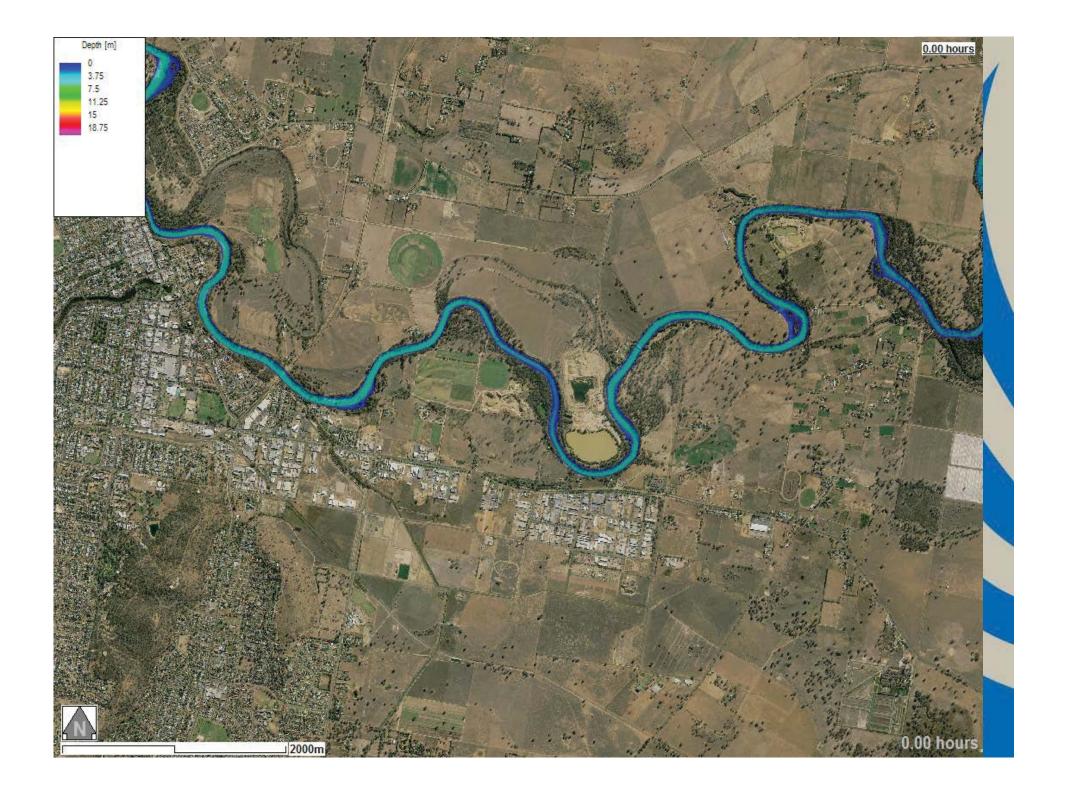




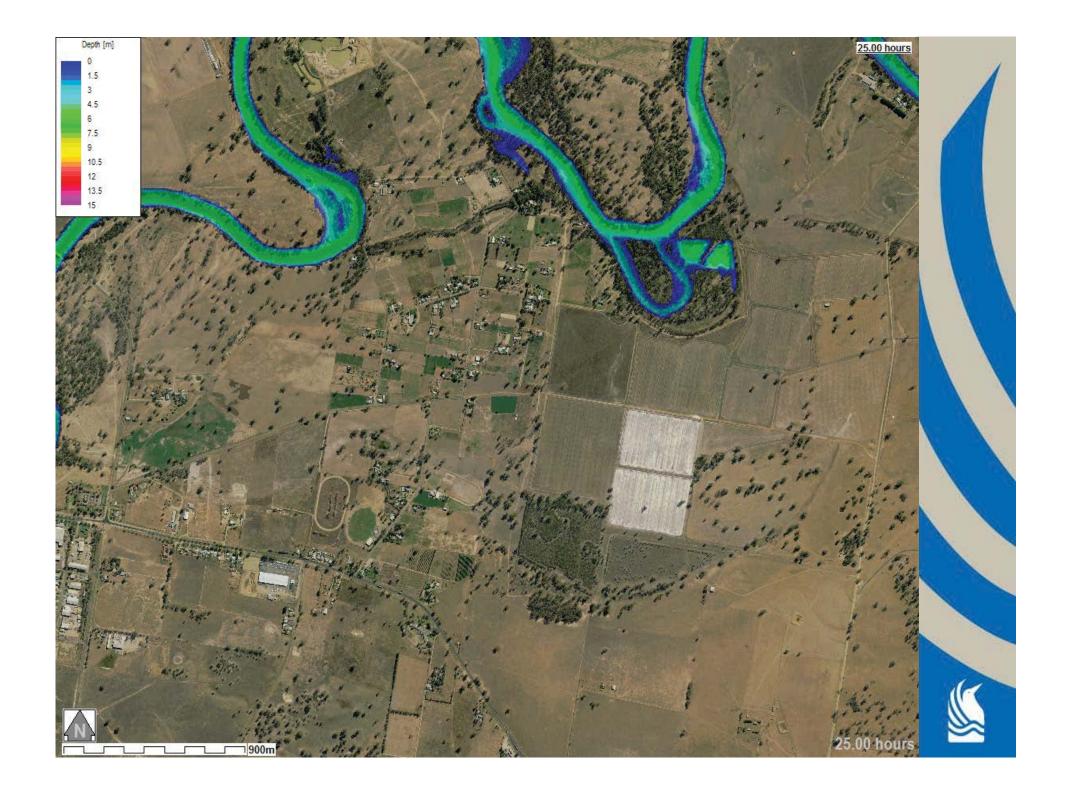
# What is Flood Modelling?





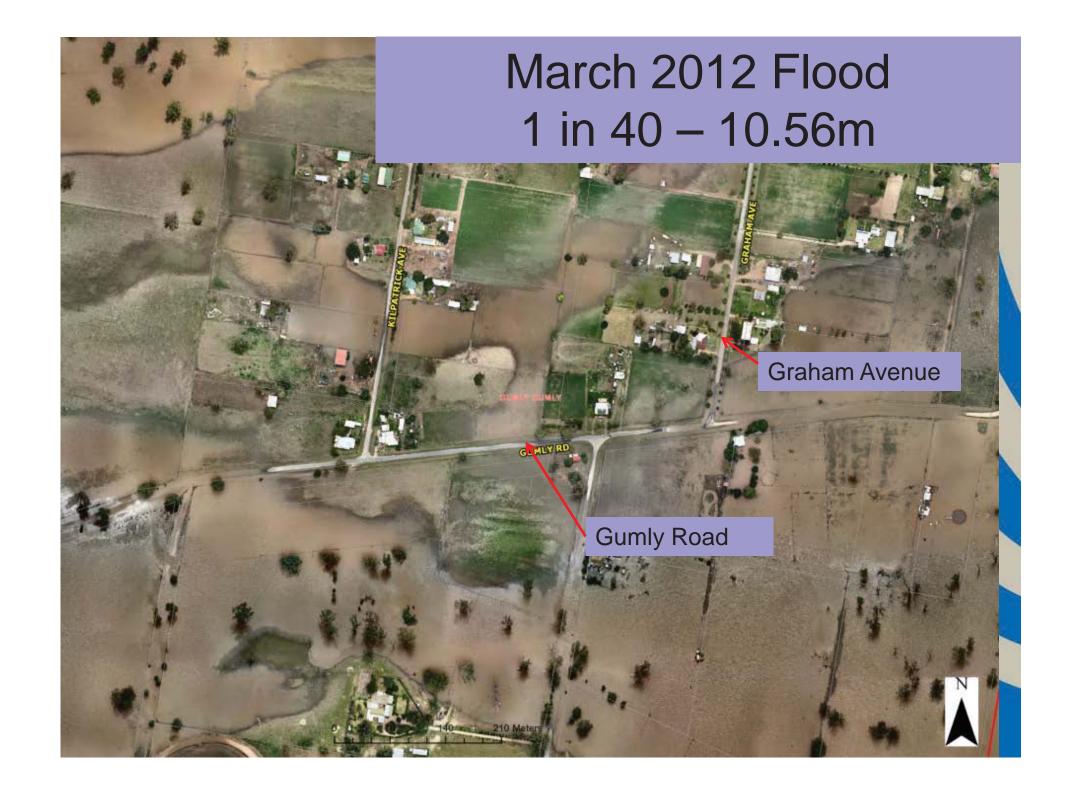


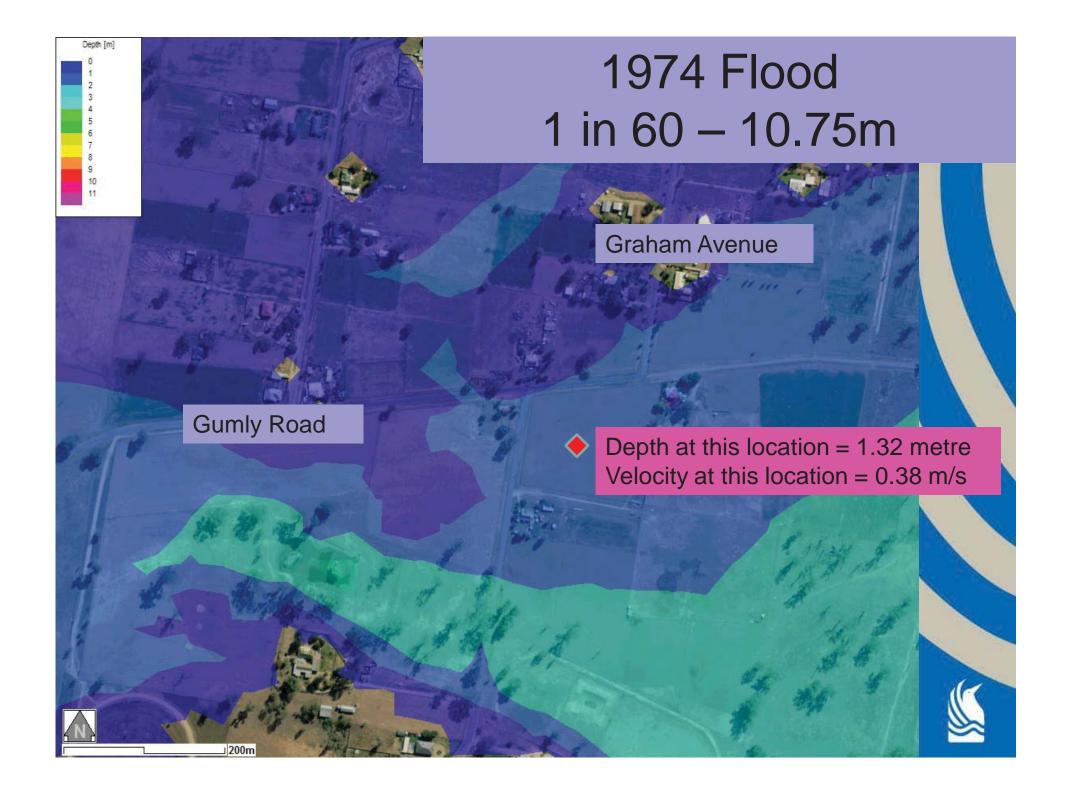


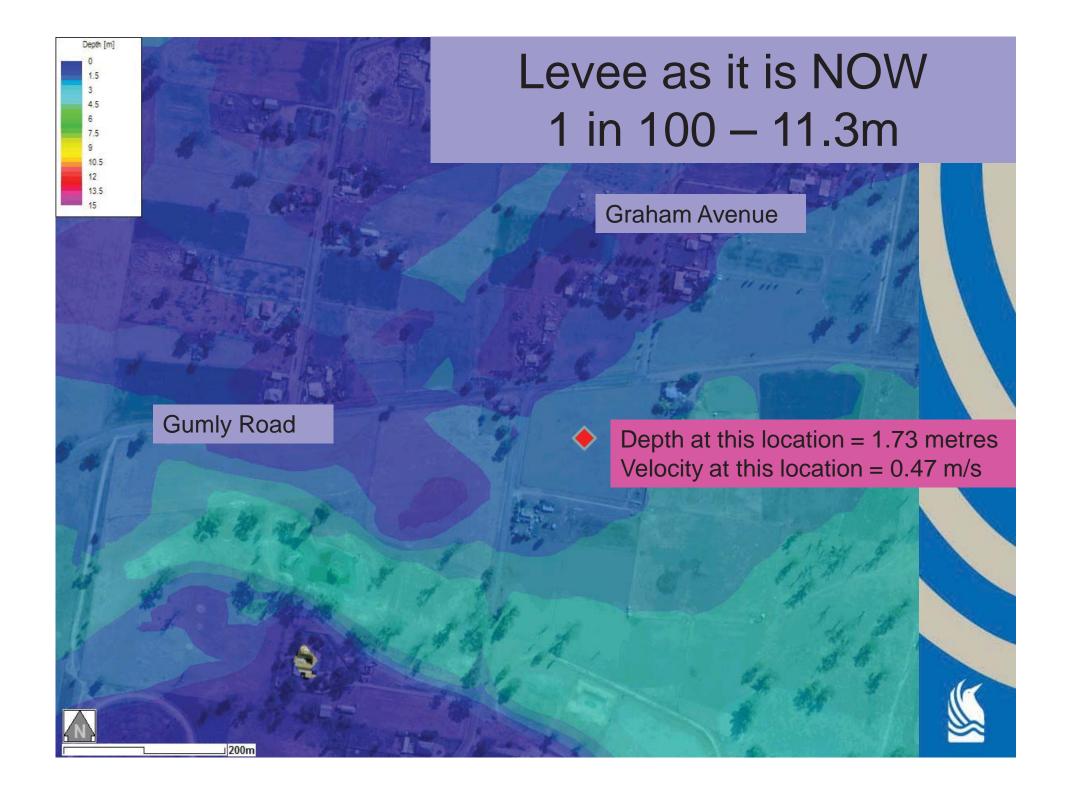


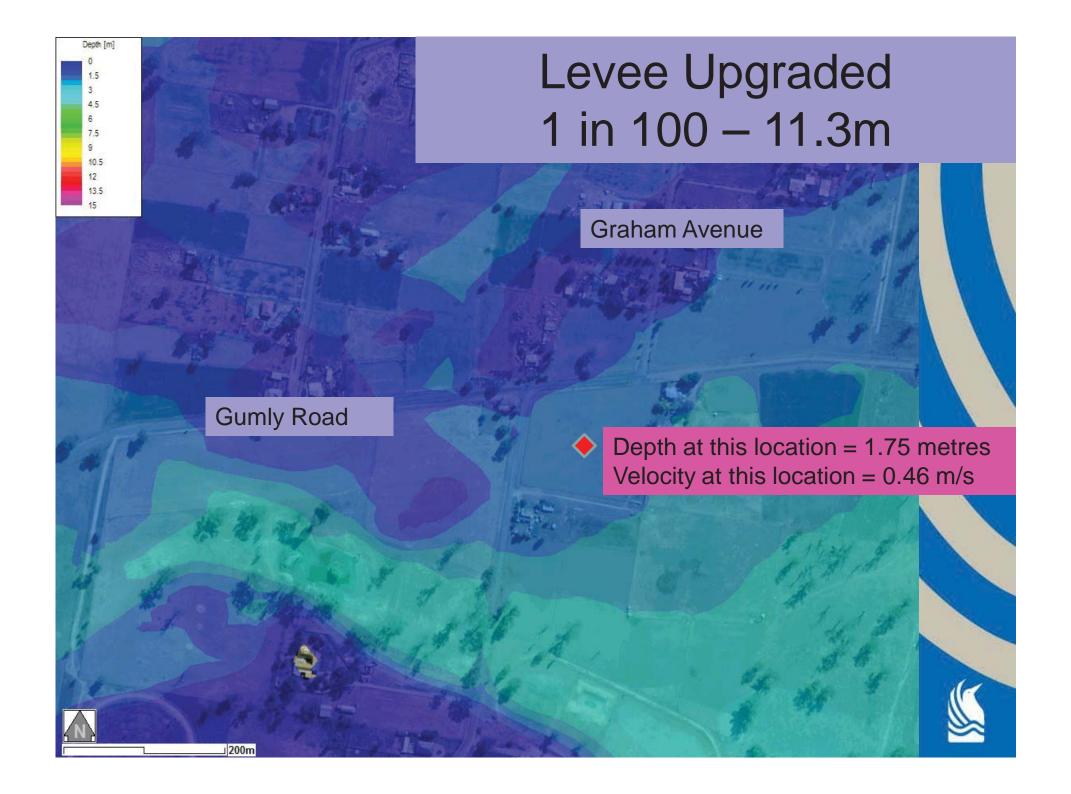
# What impact will an upgraded levee have on Gumly and East Wagga?



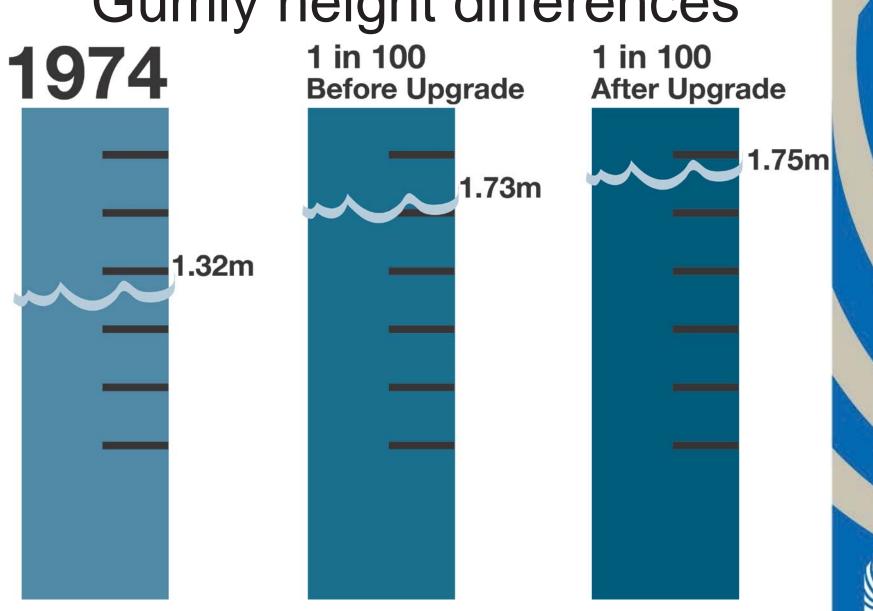








### Gumly height differences

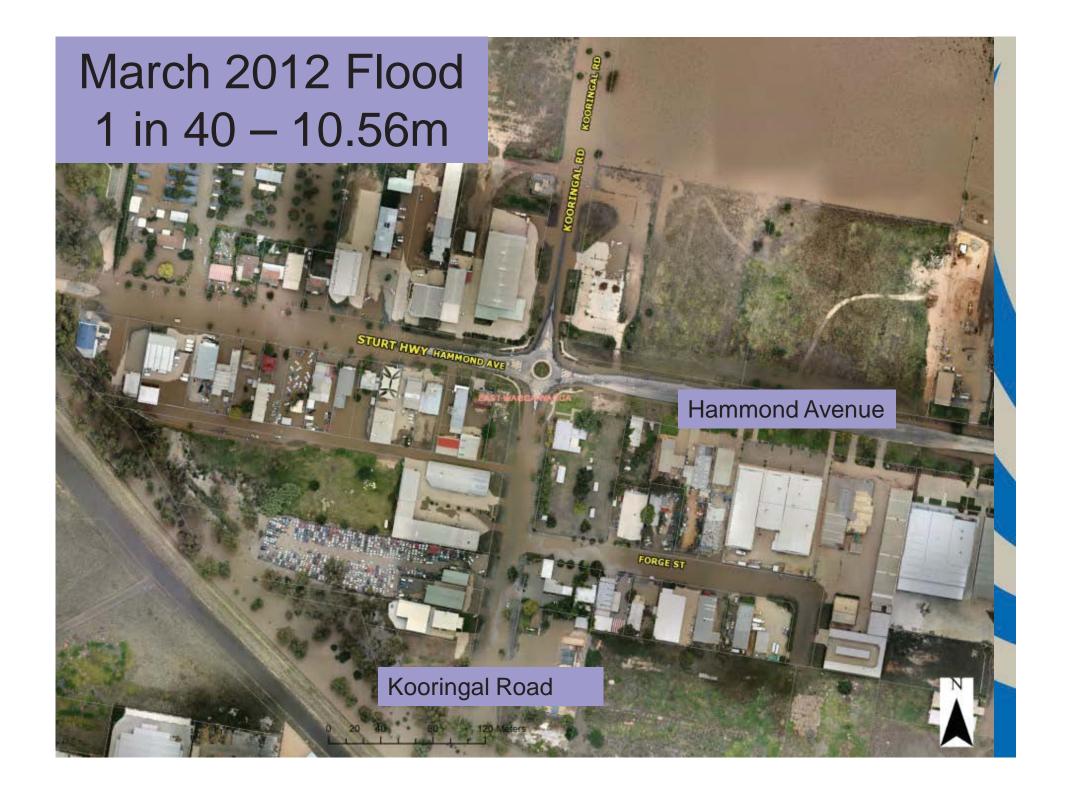


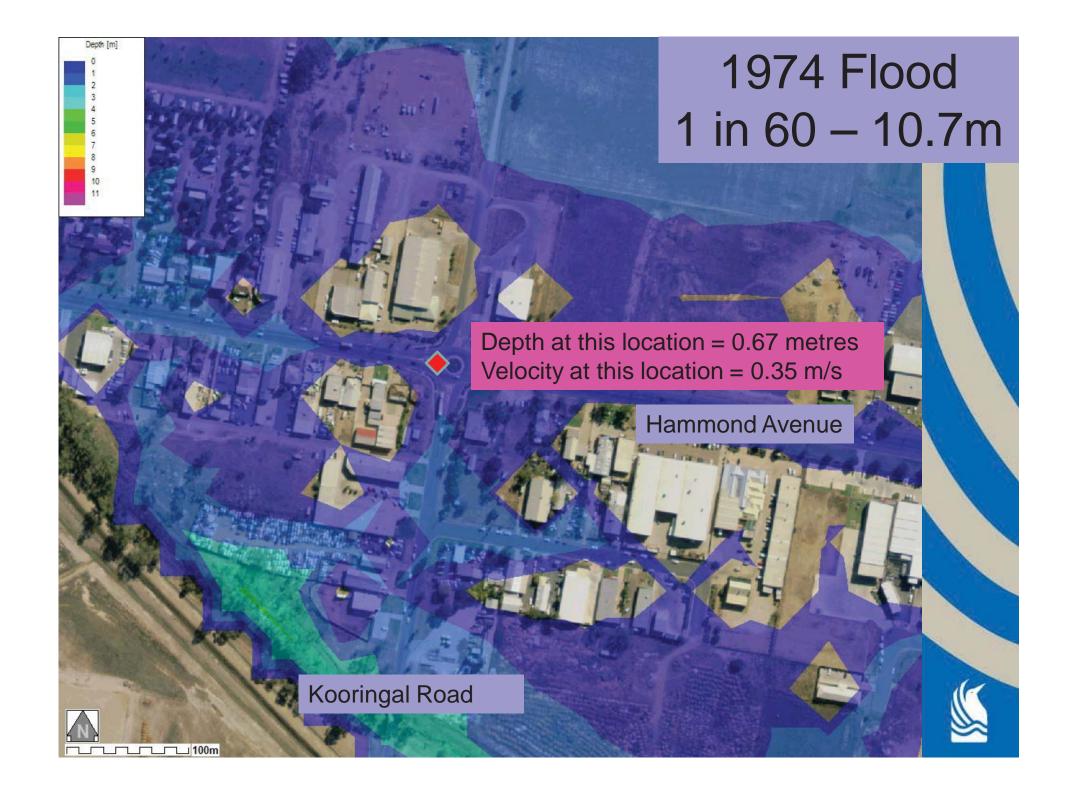
### Gumly Gumly

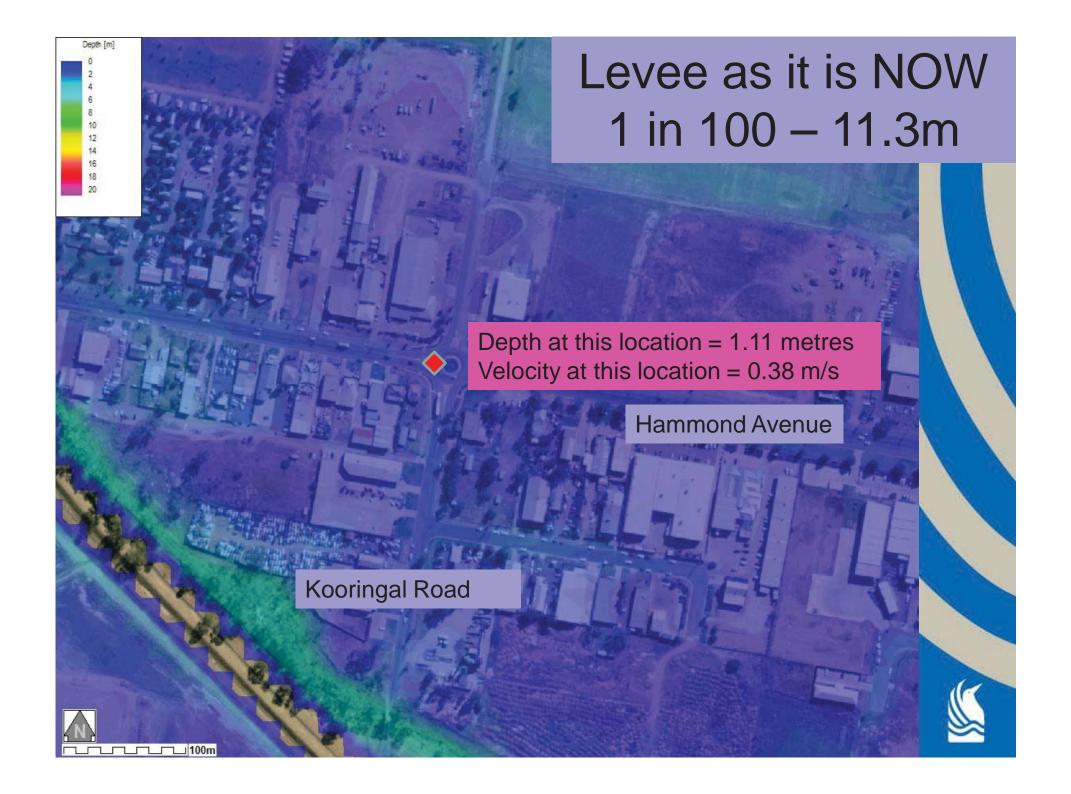
an approximate increase of

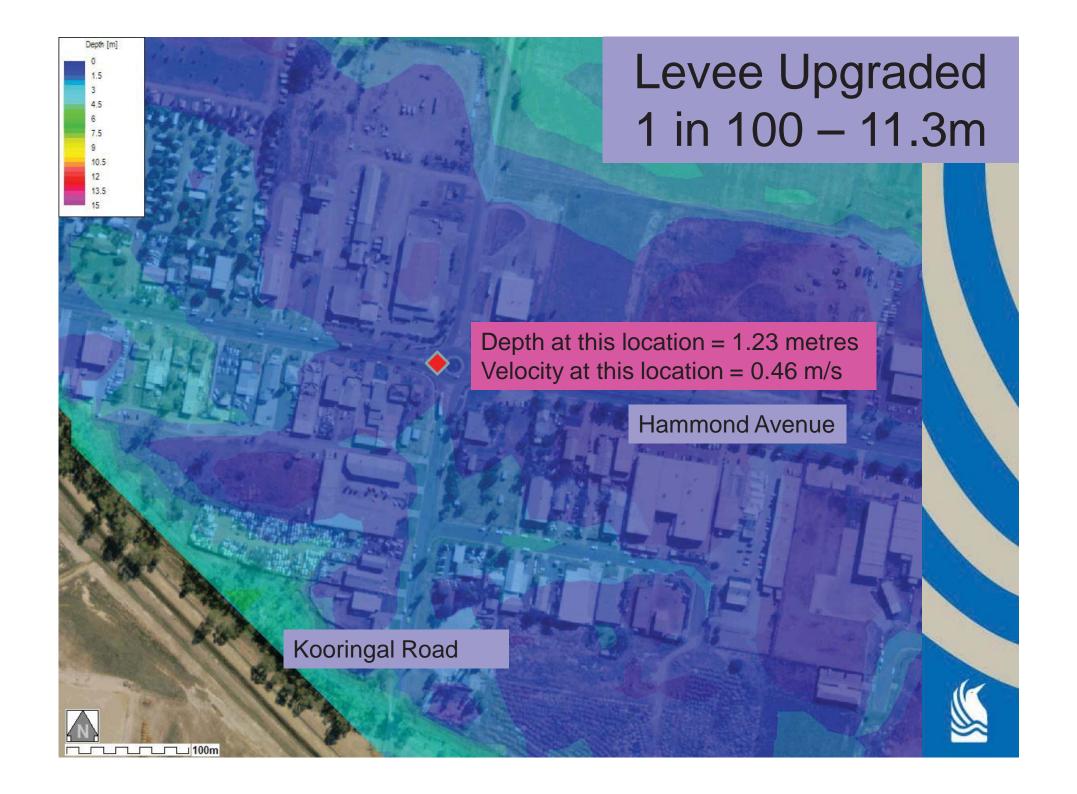
0.02 metre in a 1 in 100 yr flood



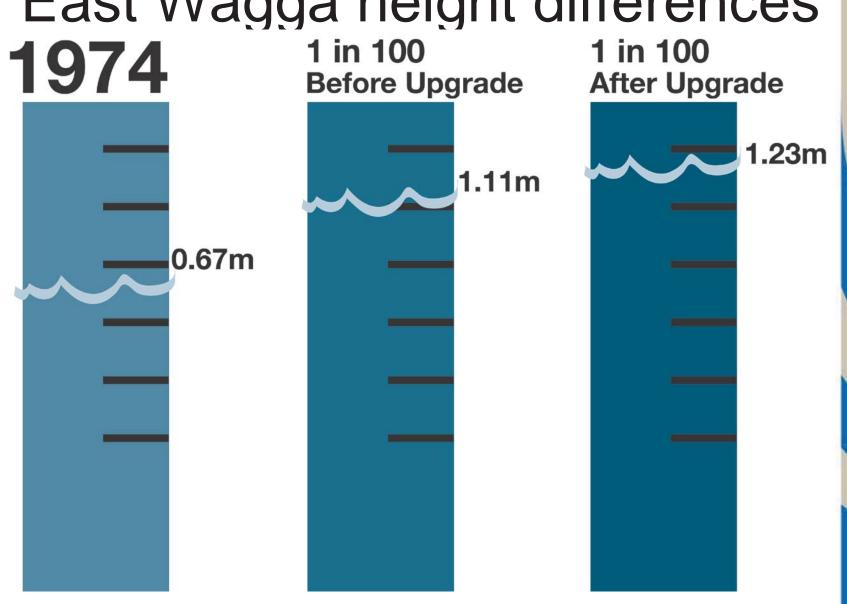








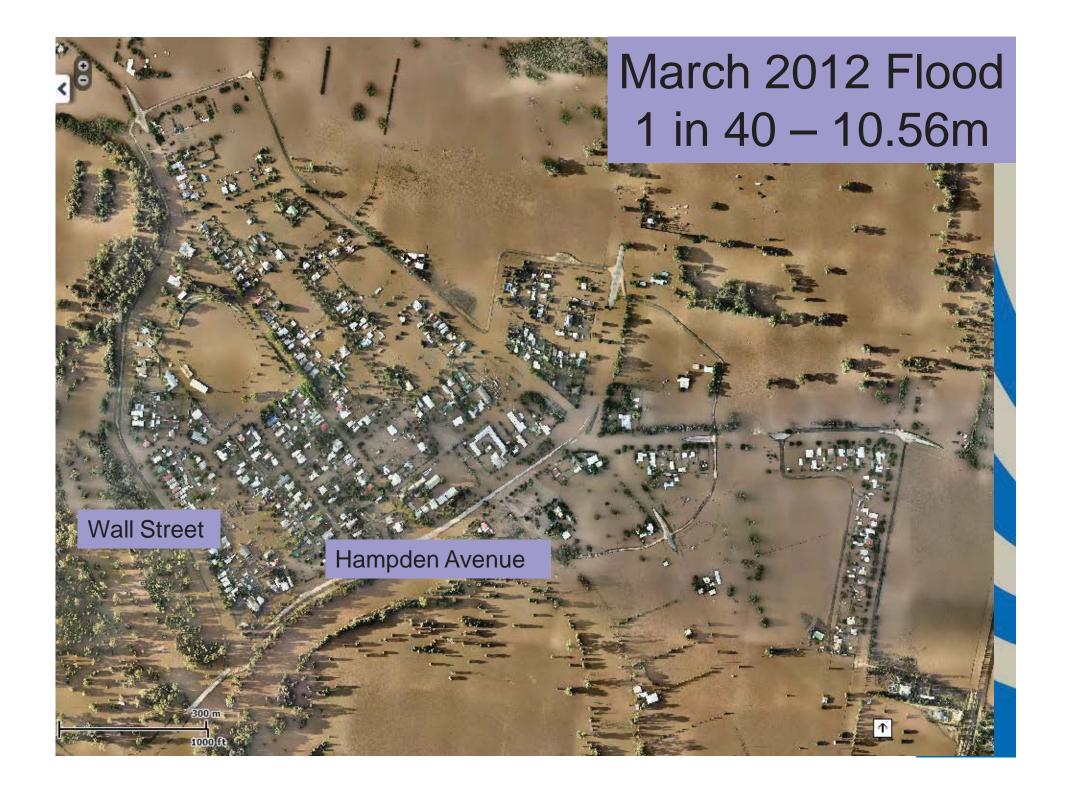
### East Wagga height differences

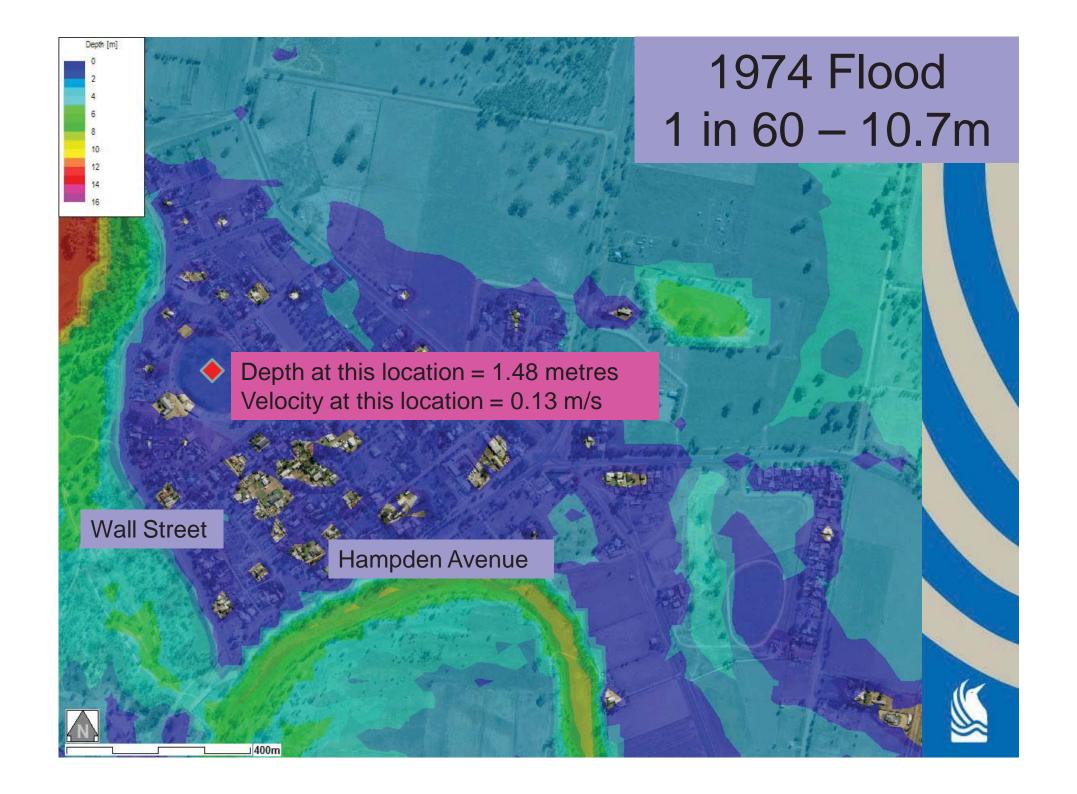


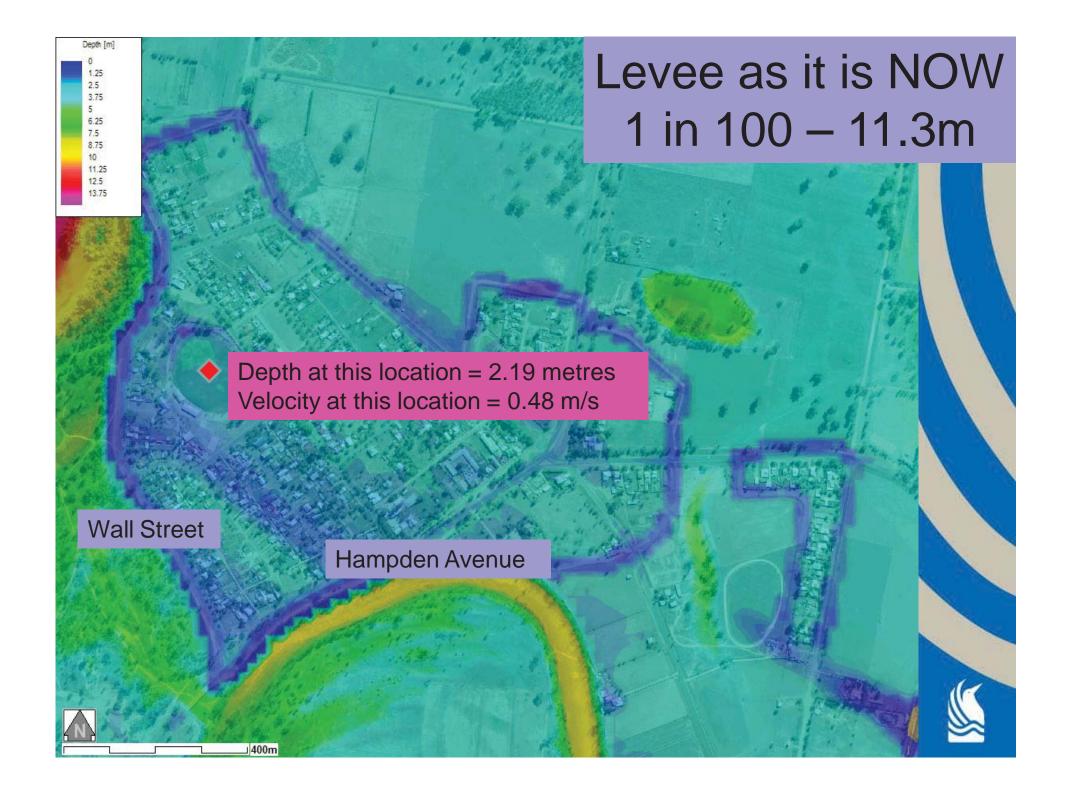
# East Wagga an approximate increase of

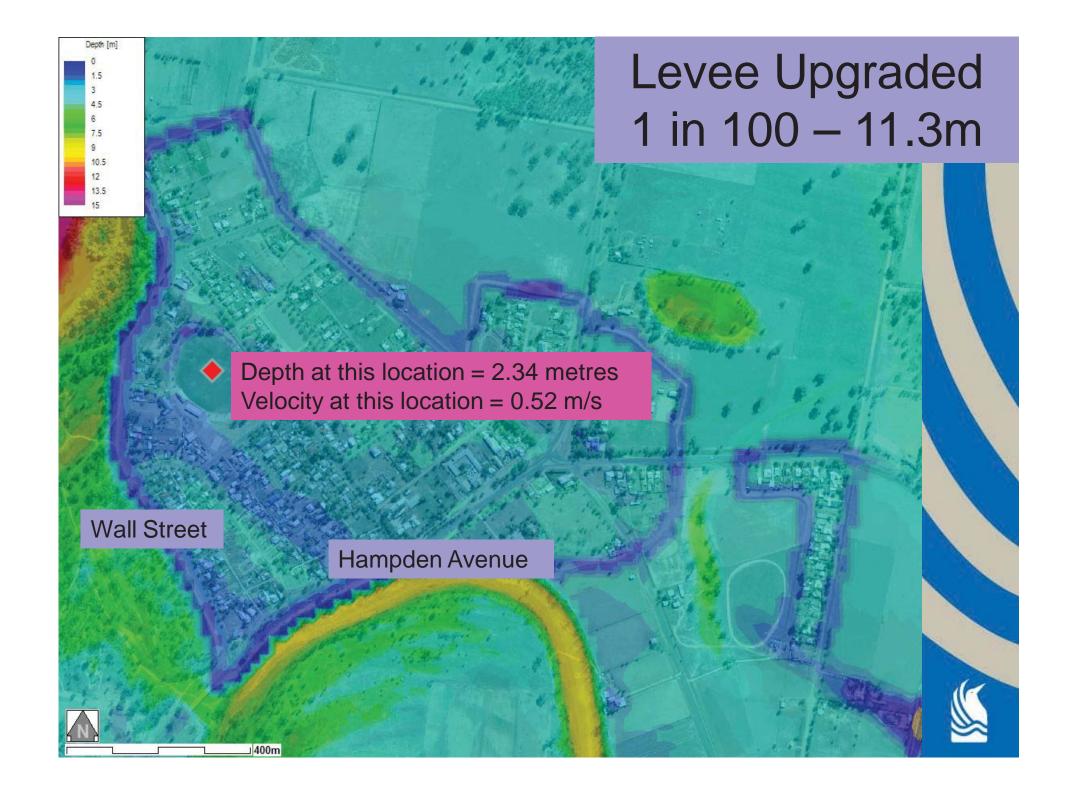
0.12 metre in a 1 in 100 yr flood



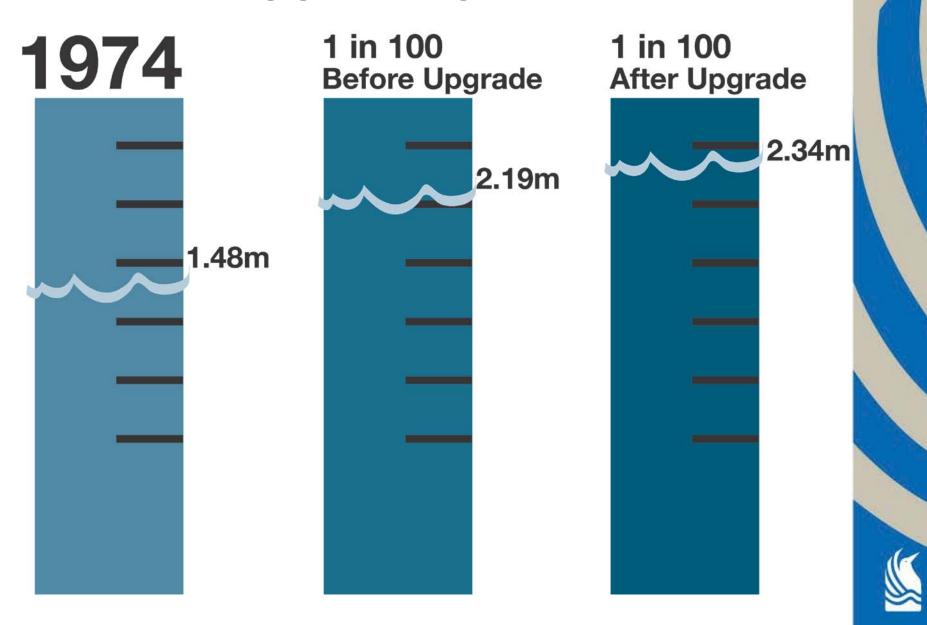








### North Wagga height differences

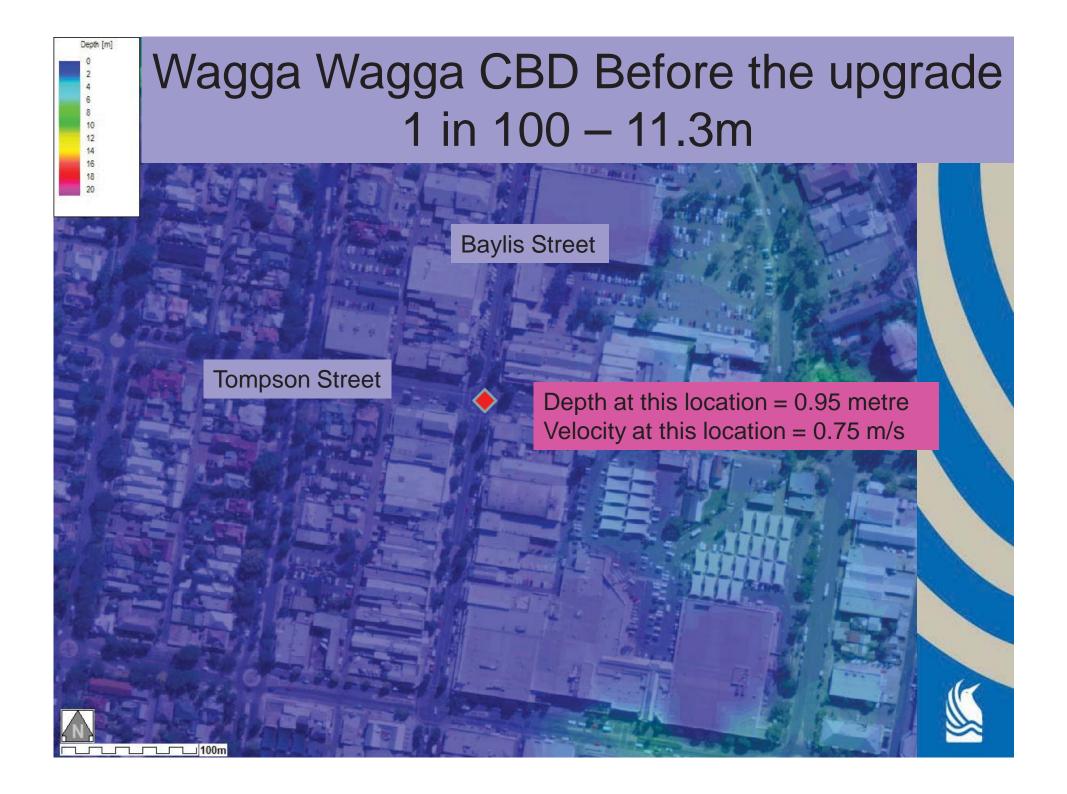


### North Wagga

an approximate increase of

0.15 metre in a 1 in 100 yr flood





## How do I get further information and assistance?



www www.wagga.nsw.gov.au/floodfutures



1300 292 442



leveeupgrade@wagga.nsw.gov.au



# How do I interpret the documents?



www.wagga.nsw.gov.au/floodfutures



### How can I share my views?



www.wagga.nsw.gov.au/floodfutures



PO Box 20 Wagga Wagga



leveeupgrade@wagga.nsw.gov.au



### Project Funding

The estimate for the upgrade of the levees, based upon the concept designs is \$18.8M.

Main City Levee = \$11.3 Million North Wagga Levee = \$7.5 Million

This estimate will be refined as part of the detailed design process.





### **OPEN DISCUSSION**

