



ATTACHMENTS PROVIDED UNDER SEPARATE COVER

FLOODPLAIN RISK MANAGEMENT ADVISORY COMMITTEE

15 February 2024

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Report submitted to the Floodplain Risk Management Advisory Committee on Thursday 15 February 2024.
Attachments

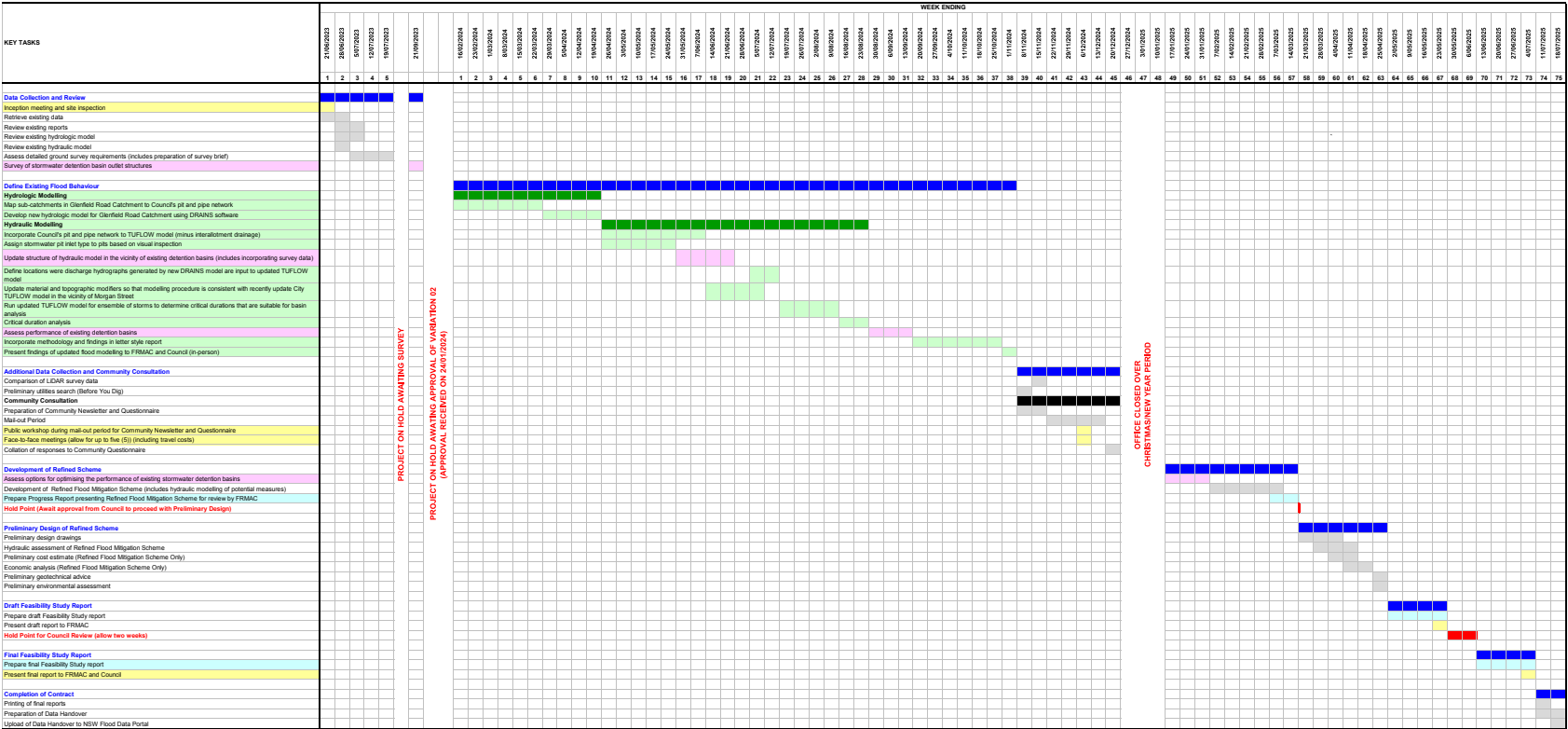


FIGURE 1
PROPOSED TIMETABLE
GLENFIELD ROAD DRAIN FLOODING INVESTIGATION



City of Wagga Wagga
Levee Pump Augmentation Project

Presented to FRMAC

Presenters:

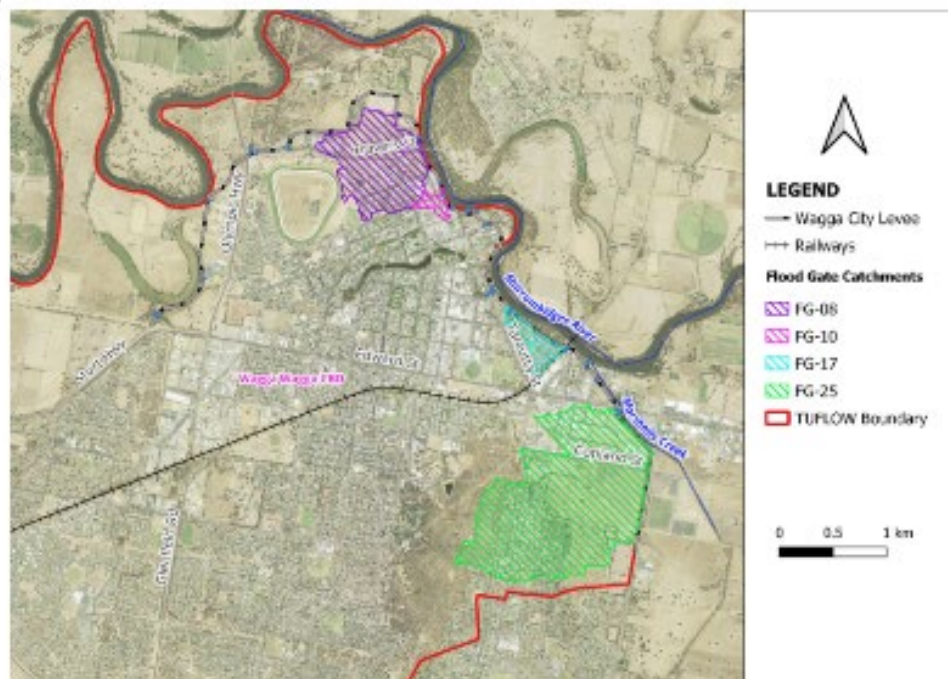
Manoj Shrestha and Andy Sheehan - Stantec
Andrew Mason – Wagga Wagga City Council

15th February 2024

Key Project Aim and Outcome – Flood modelling, catchment analysis and volume determination

- **Key Project Aim:**
 - determine recommended pump station duty flow rates to maintain acceptable flood conditions behind the flood levee in Wagga Wagga.

- **Key Project Outcome:**
 - Agree on design duty flows at each pump station site for development in the concept design stages.



Methodology

Step 1: Model updated based on review undertaken by Stantec

- Model updated with latest Light Detection and Ranging (LiDAR) data.
- Manning's values updated in the model based on latest aerial imagery.
- Model resolution increased to 2m for the catchments of floodgates- 8, 10, 17 and 25.
- Amendments to the pipe networks to resolve the major issues observed such as snapping the pipes, fixing the inverts of the pipes, removing adverse gradients etc.
- Updates to the missing pits and pipes, bridge structure and culverts based on available as-constructed drawings and information from site visits.

Step 2: Assess the requirements for the renewal and upgrade of four existing pump stations

- Agreed with Council model scenarios to be run
- Run the range of model scenarios required for the 1% AEP event
- Analyse and report on the model results for each scenario and recommendations to inform Council decision making on pumping requirements

Methodology

□ 5 Scenarios run in TUFLOW

Scenarios	Description
Scenario 1 – Baseline condition	All flood gates open
Scenario 2	Flood gates shut
Scenario 3	Flood gates shut with 300 L/s
Scenario 4	Flood gates shut with 600 L/s
Scenario 5	Flood gates shut with 900 L/s

Attachments
