

**YASS VALLEY COUNCIL**

**MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG  
FLOOD STUDY**

**ADDENDUM REPORT**

**JULY 2021**

**VOLUME 2 – FIGURES**

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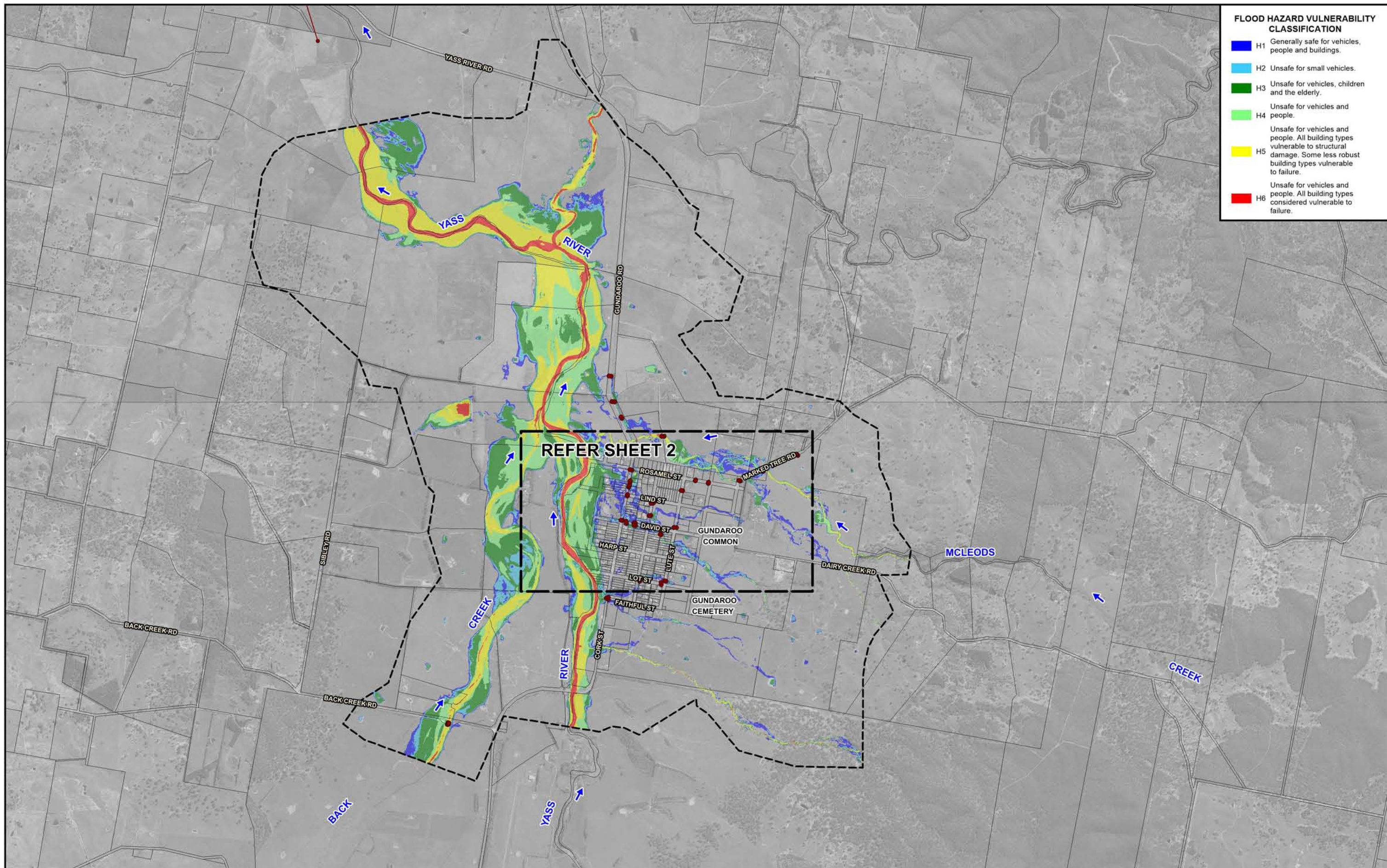
## **ANNEXURE E**

### **FIGURES RELATING TO THE VILLAGE OF GUNDAROO**

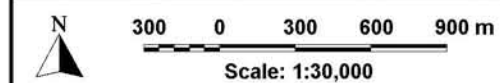
## LIST OF FIGURES (ANNEXURE E)

- E1 Gundaroo Flood Hazard Vulnerability Classification – 1% AEP (2 Sheets)
- E2 Gundaroo Flood Hazard Vulnerability Classification – 0.2% AEP (2 Sheets)
- E3 Gundaroo Flood Hazard Vulnerability Classification – PMF (2 Sheets)
- E4 Gundaroo Hydraulic Categorisation of Floodplain – 1% AEP (2 Sheets)
- E5 Gundaroo Flood Emergency Response Classification – 1% AEP (2 Sheets)
- E6 Extract of Yass Valley Flood Planning Map at Gundaroo (2 Sheets)
- E7 Extract of Yass Valley Flood Planning Constraint Category Map at Gundaroo (2 Sheets)





FLOOD HAZARD VULNERABILITY CLASSIFICATION	
<span style="color: blue;">■</span> H1	Generally safe for vehicles, people and buildings.
<span style="color: lightblue;">■</span> H2	Unsafe for small vehicles.
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<span style="color: red;">■</span> H6	Unsafe for vehicles and people. All building types considered vulnerable to failure.



**NOTE:**  
The ground surface model incorporated in TUFLOW is based on LiDAR survey which has been sampled on a 5 m grid and does not necessarily incorporate localised features which can influence flooding behaviour in individual allotments.

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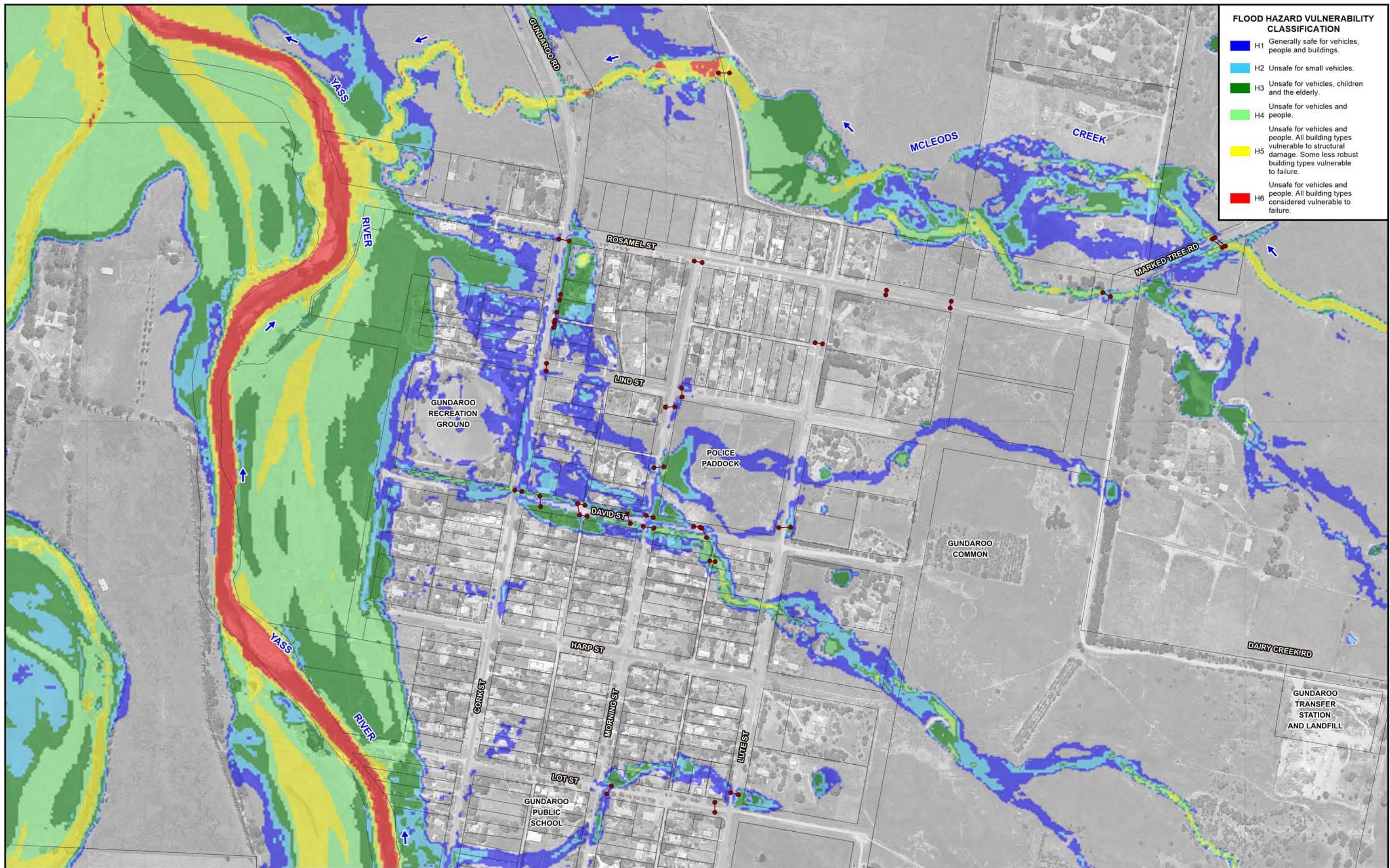
LEGEND	
<span style="color: black;">---</span>	Two-Dimensional Model Boundary
<span style="color: red;">—●—</span>	Modelled Stormwater Drainage System

## MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG FLOOD STUDY

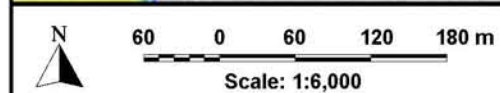
Figure E1  
(Sheet 1 of 2)

GUNDAROO FLOOD HAZARD VULNERABILITY CLASSIFICATION  
1% AEP





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**Lyll & Associates**

#### LEGEND

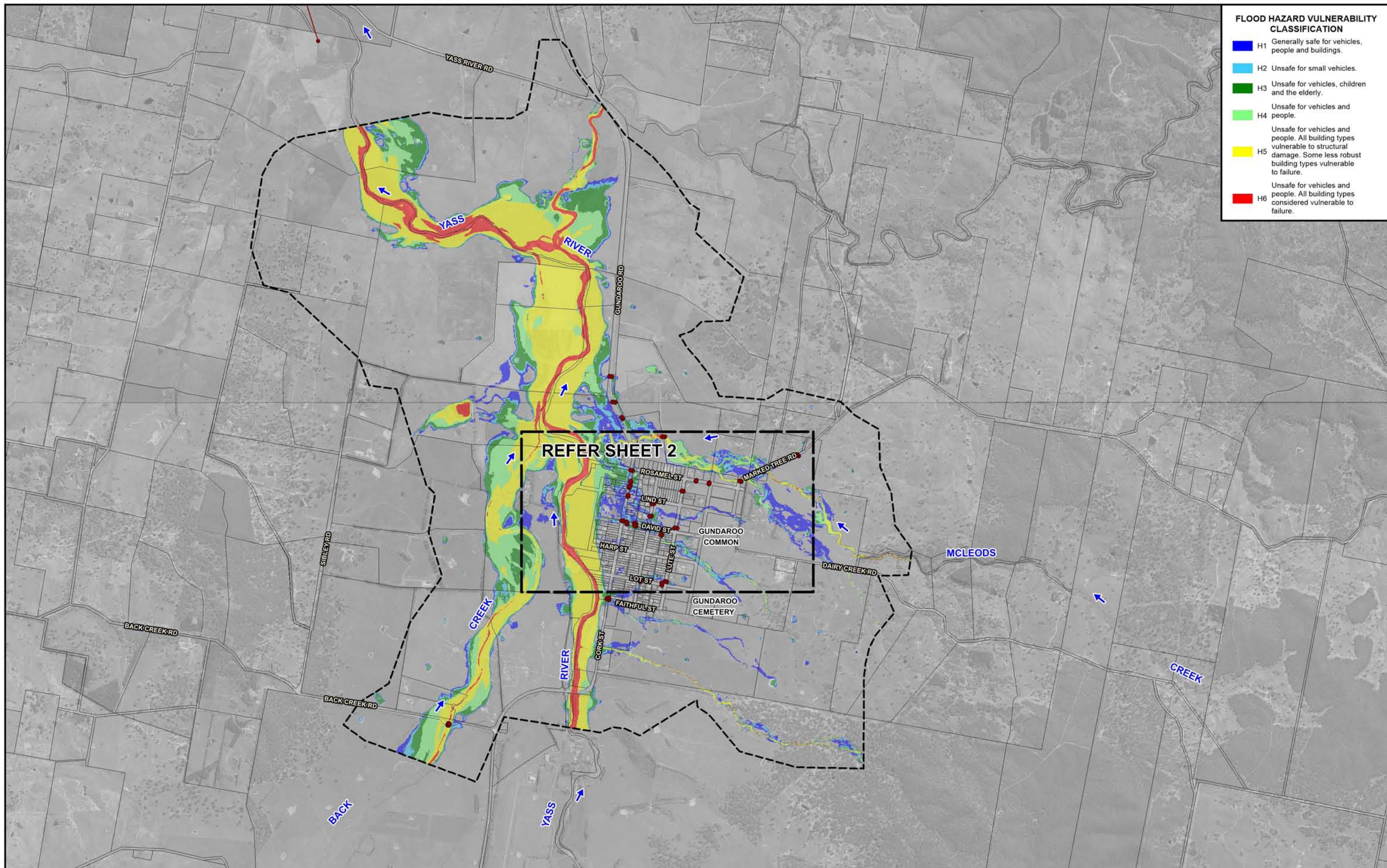
- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System

#### MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG FLOOD STUDY

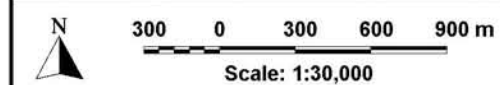
Figure E1  
(Sheet 2 of 2)

GUNDAROO FLOOD HAZARD VULNERABILITY CLASSIFICATION  
1% AEP





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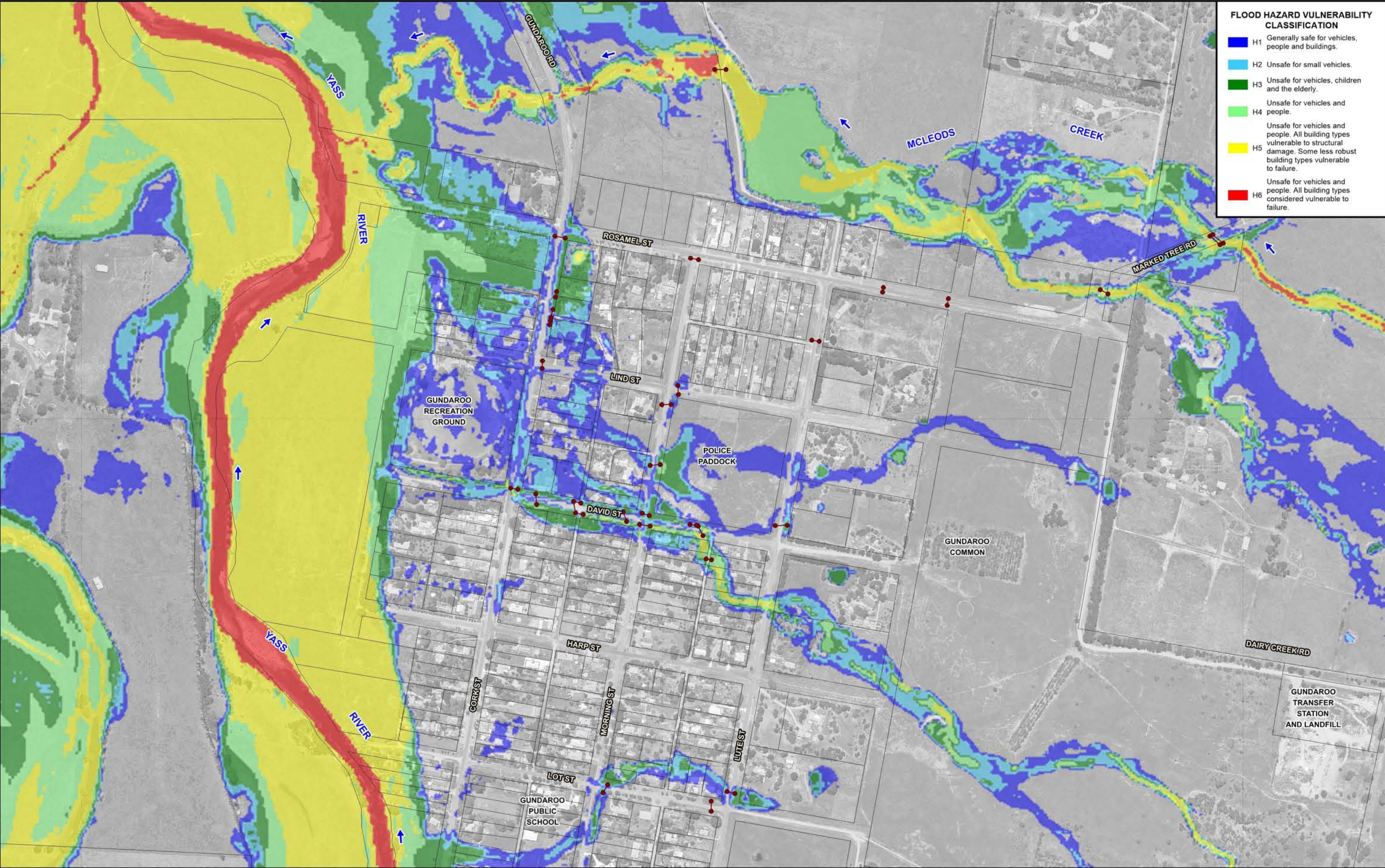
- LEGEND**
- Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System

**MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG  
FLOOD STUDY**

Figure E2  
(Sheet 1 of 2)

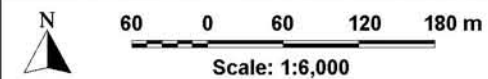
**GUNDAROO FLOOD HAZARD VULNERABILITY CLASSIFICATION  
0.2% AEP**





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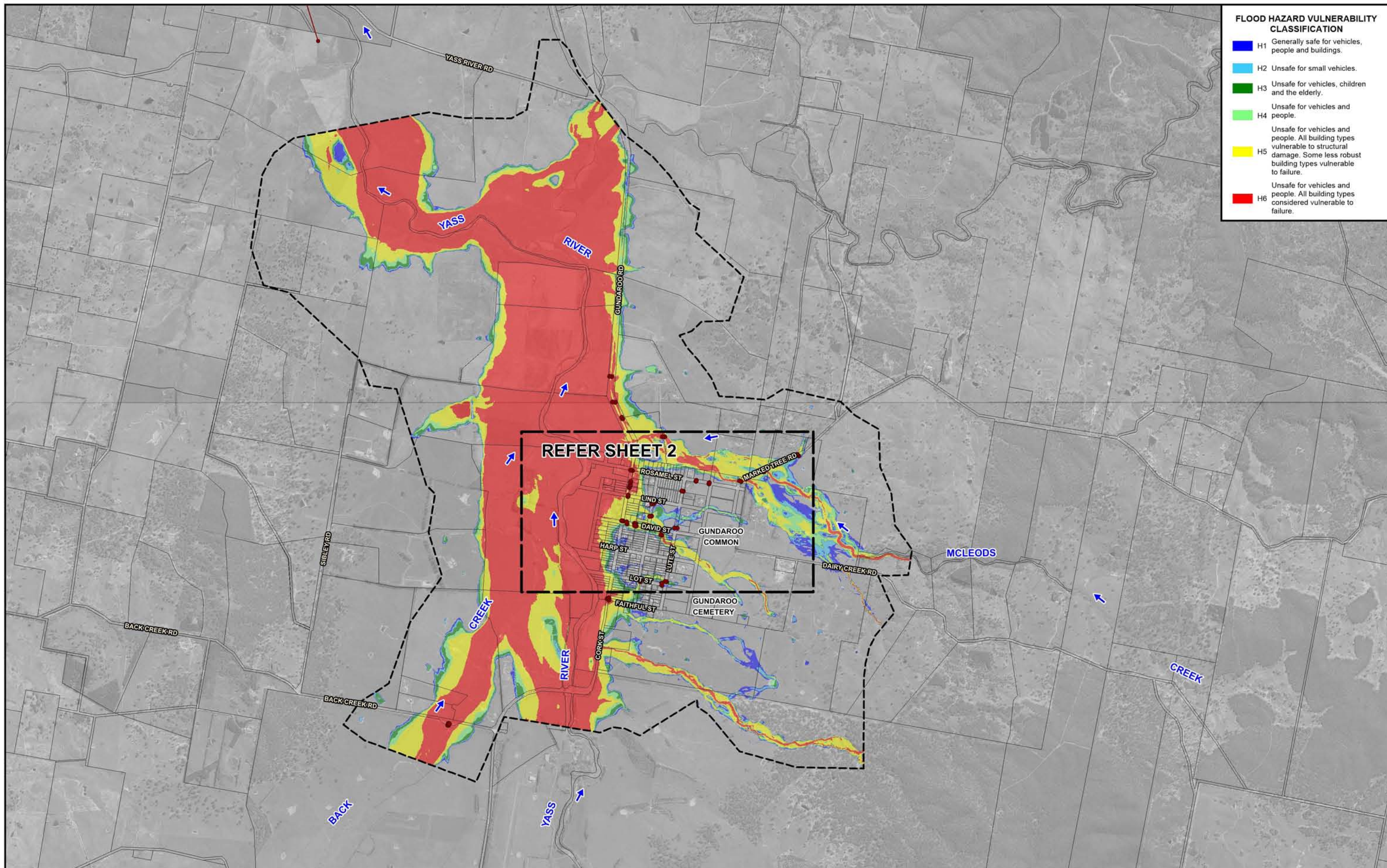
- LEGEND**
- Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System

**MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG FLOOD STUDY**

Figure E2  
 (Sheet 2 of 2)

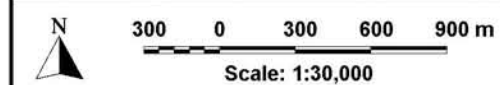
GUNDAROO FLOOD HAZARD VULNERABILITY CLASSIFICATION  
 0.2% AEP





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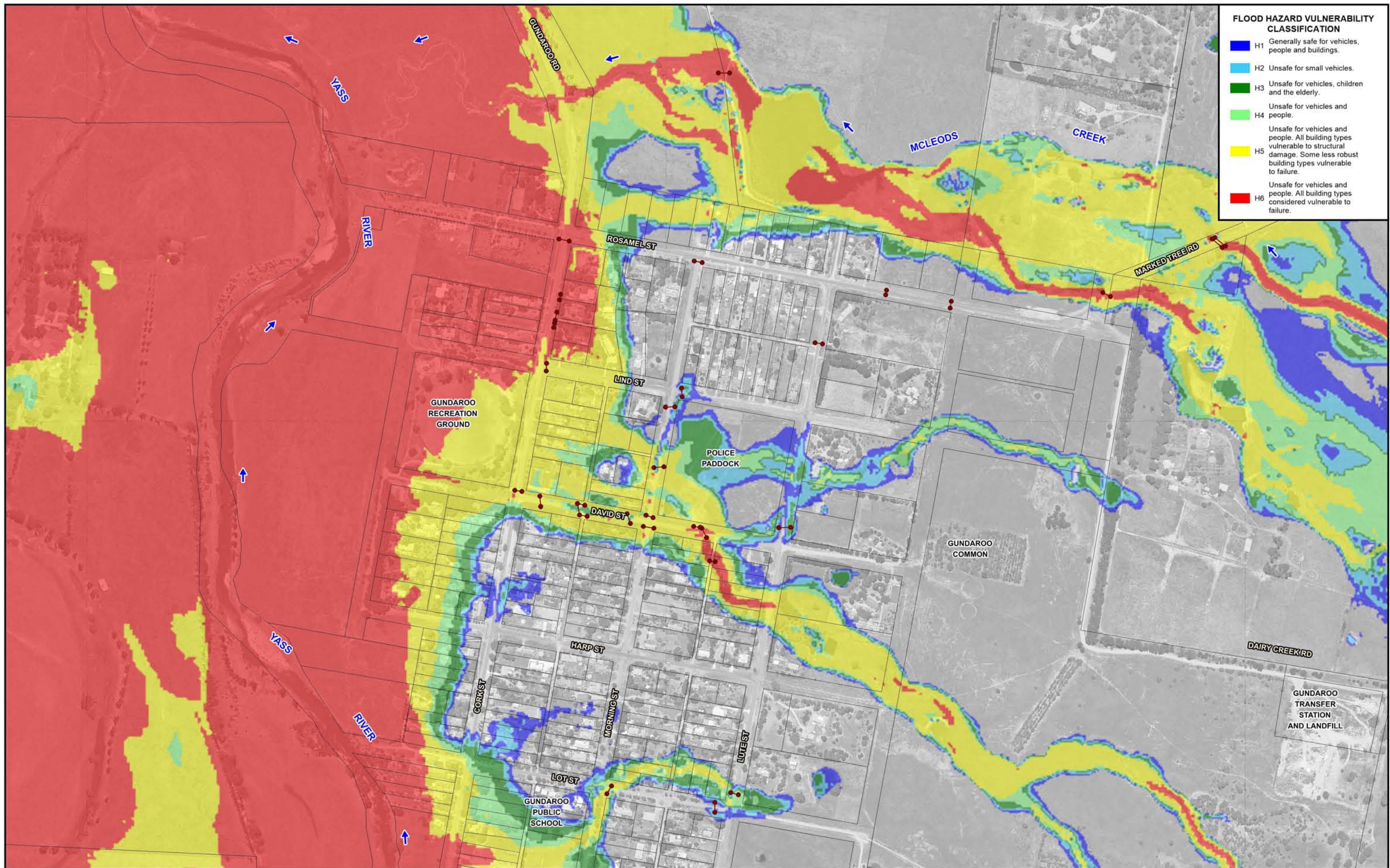
- LEGEND**
- Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System

**MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG FLOOD STUDY**

Figure E3  
(Sheet 1 of 2)

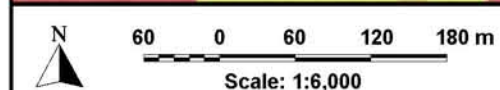
GUNDAROO FLOOD HAZARD VULNERABILITY CLASSIFICATION  
PMF





**FLOOD HAZARD VULNERABILITY CLASSIFICATION**

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**Lyall & Associates**

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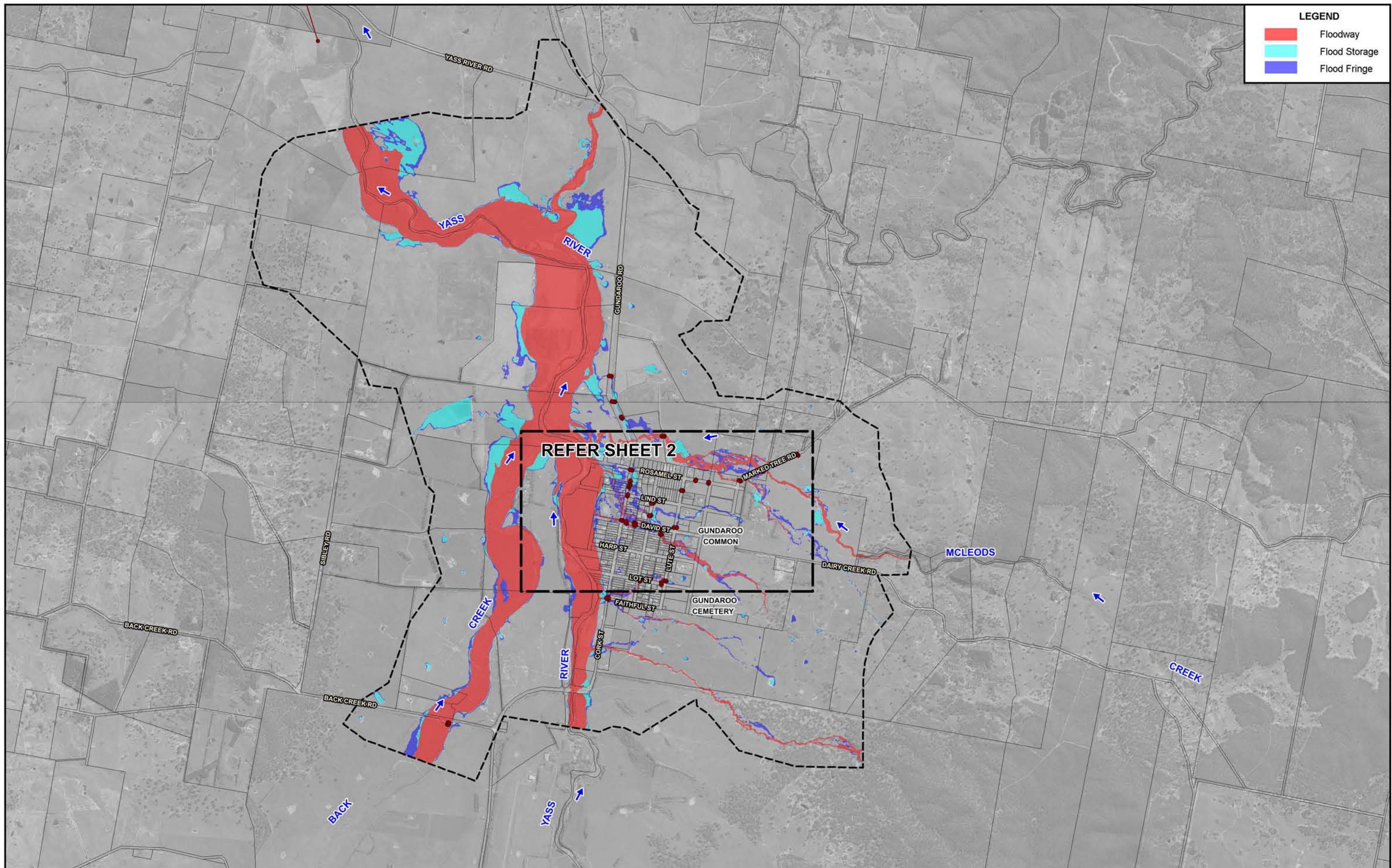
**LEGEND**  
 - - - - - Two-Dimensional Model Boundary  
 ● - - - - - Modelled Stormwater Drainage System

**MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG FLOOD STUDY**

Figure E3  
(Sheet 2 of 2)

GUNDAROO FLOOD HAZARD VULNERABILITY CLASSIFICATION  
PMF





**LEGEND**

- Floodway
- Flood Storage
- Flood Fringe

**Scale: 1:30,000**

300 0 300 600 900 m

**Lyall & Associates**

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**LEGEND**

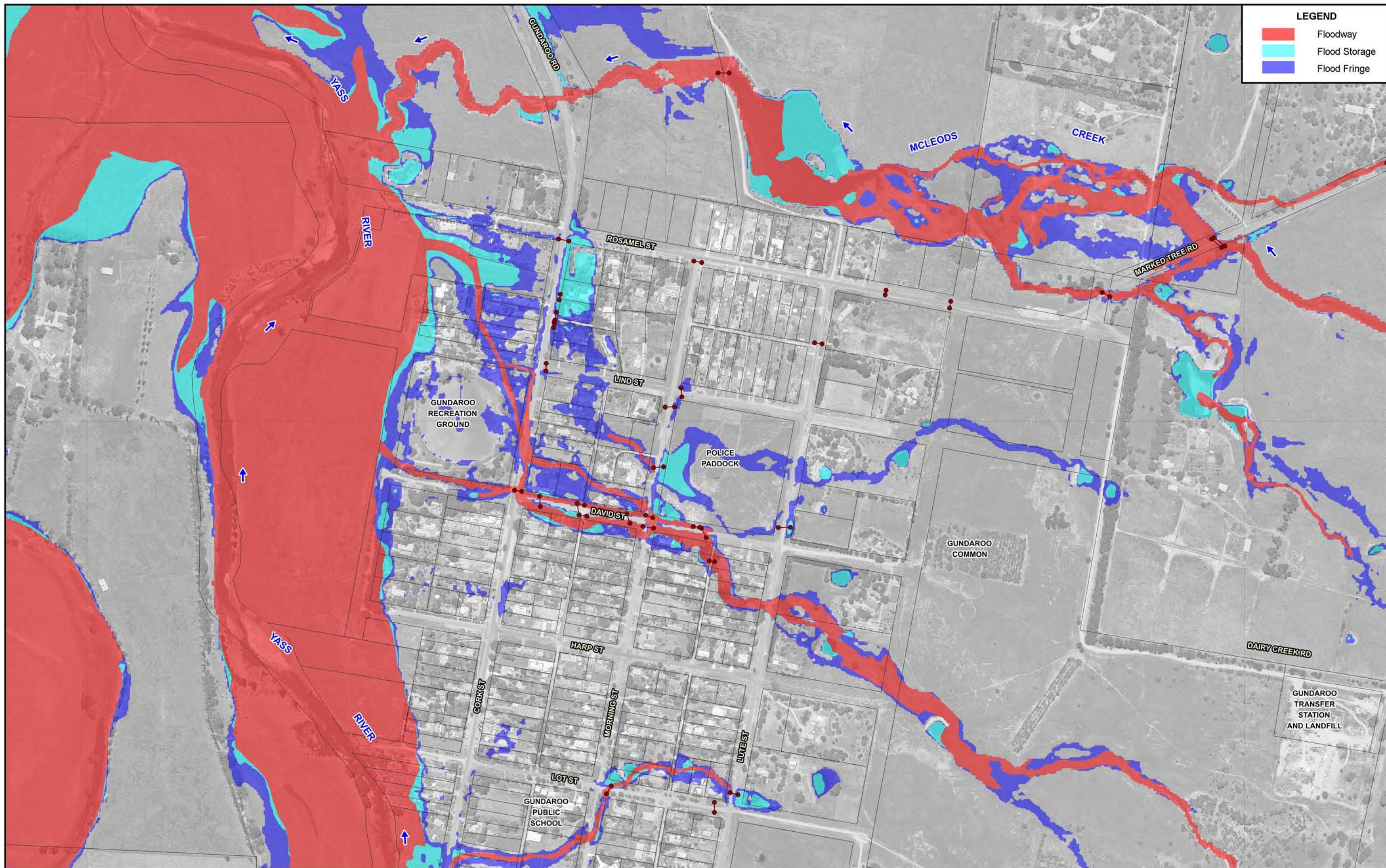
- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System

**MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG FLOOD STUDY**

Figure E4  
(Sheet 1 of 2)


**GUNDAROO HYDRAULIC CATEGORISATION OF FLOODPLAIN 1% AEP**





**LEGEND**

- Floodway
- Flood Storage
- Flood Fringe

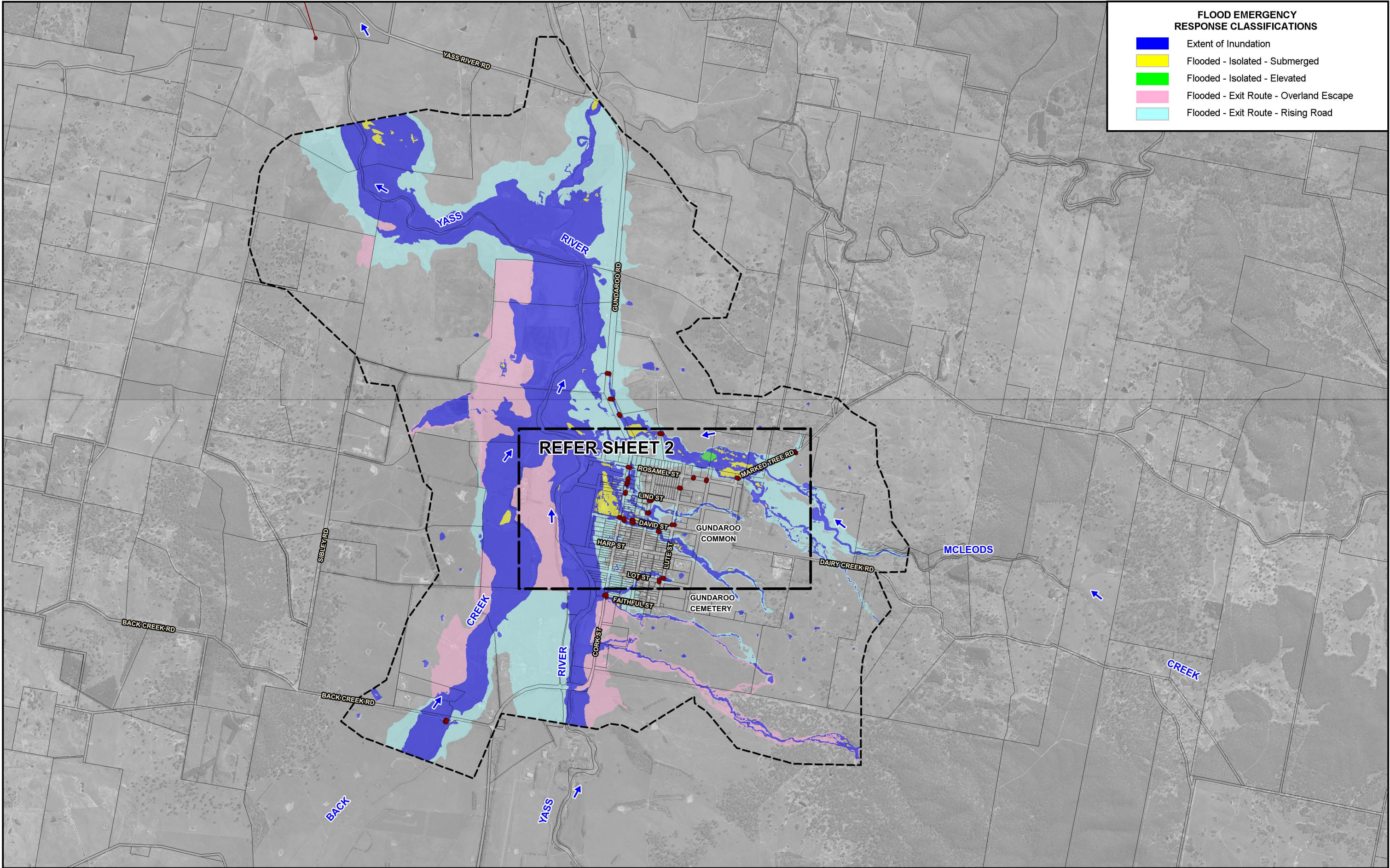

 60 0 60 120 180 m  
 Scale: 1:6,000  
**Lyll & Associates**

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**LEGEND**

- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System





**FLOOD EMERGENCY  
RESPONSE CLASSIFICATIONS**

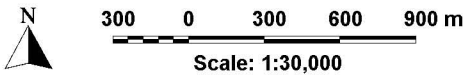
- Extent of Inundation
- Flooded - Isolated - Submerged
- Flooded - Isolated - Elevated
- Flooded - Exit Route - Overland Escape
- Flooded - Exit Route - Rising Road

REFER SHEET 2

ROSAMEL ST  
LIND ST  
DAVID ST  
HARP ST  
LOT ST  
LUTE ST  
FAITHFUL ST  
GUNDAROO COMMON  
GUNDAROO CEMETERY

MCLEODS

CREEK



**Lyall &  
Associates**

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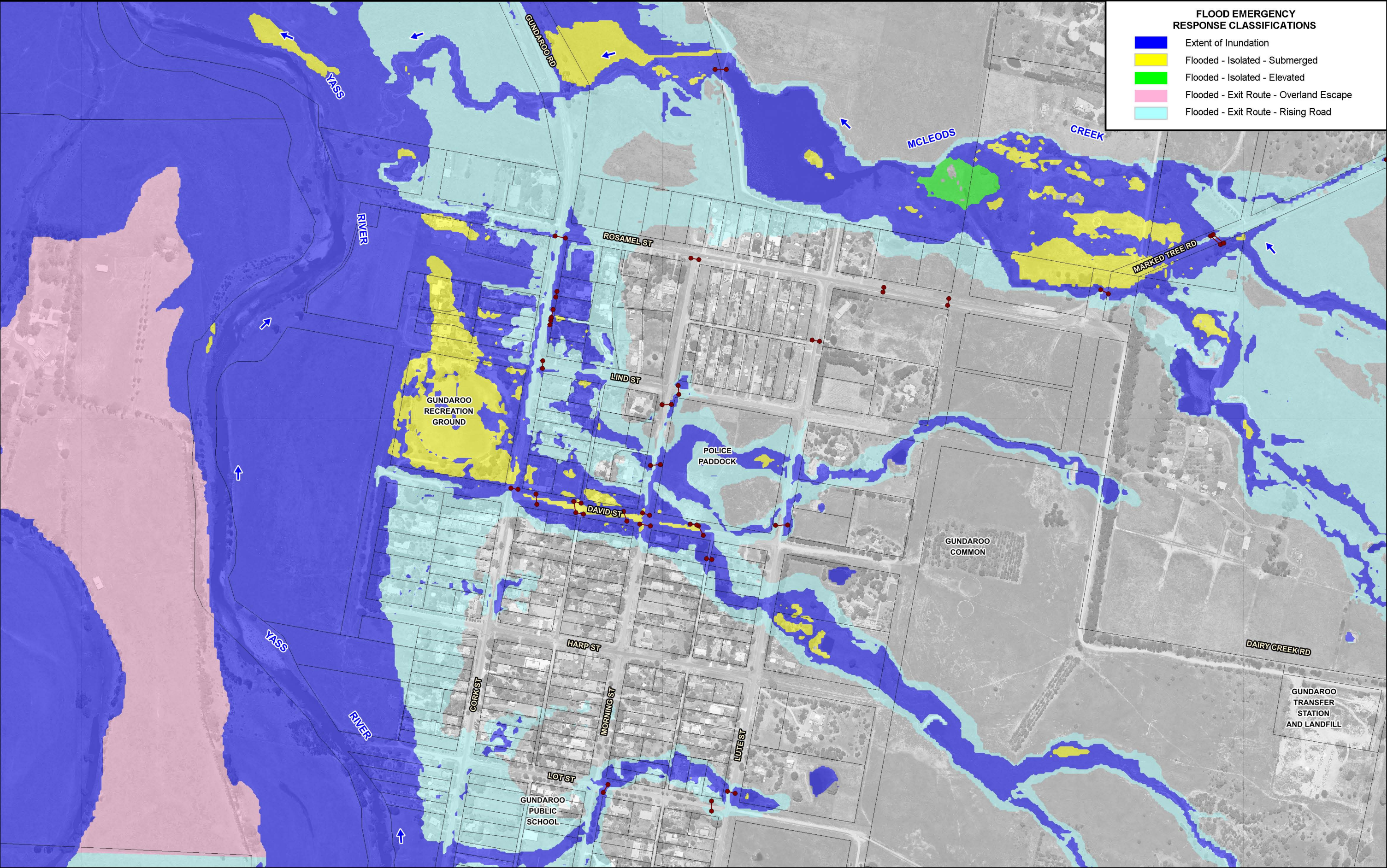
**LEGEND**

- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System

**MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG  
FLOOD STUDY**

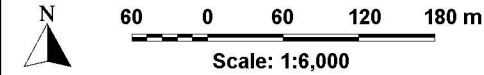
Figure E5  
(Sheet 1 of 2)  
**GUNDAROO FLOOD EMERGENCY RESPONSE CLASSIFICATION  
1% AEP**





**FLOOD EMERGENCY  
RESPONSE CLASSIFICATIONS**

- Extent of Inundation
- Flooded - Isolated - Submerged
- Flooded - Isolated - Elevated
- Flooded - Exit Route - Overland Escape
- Flooded - Exit Route - Rising Road



**Lyall & Associates**

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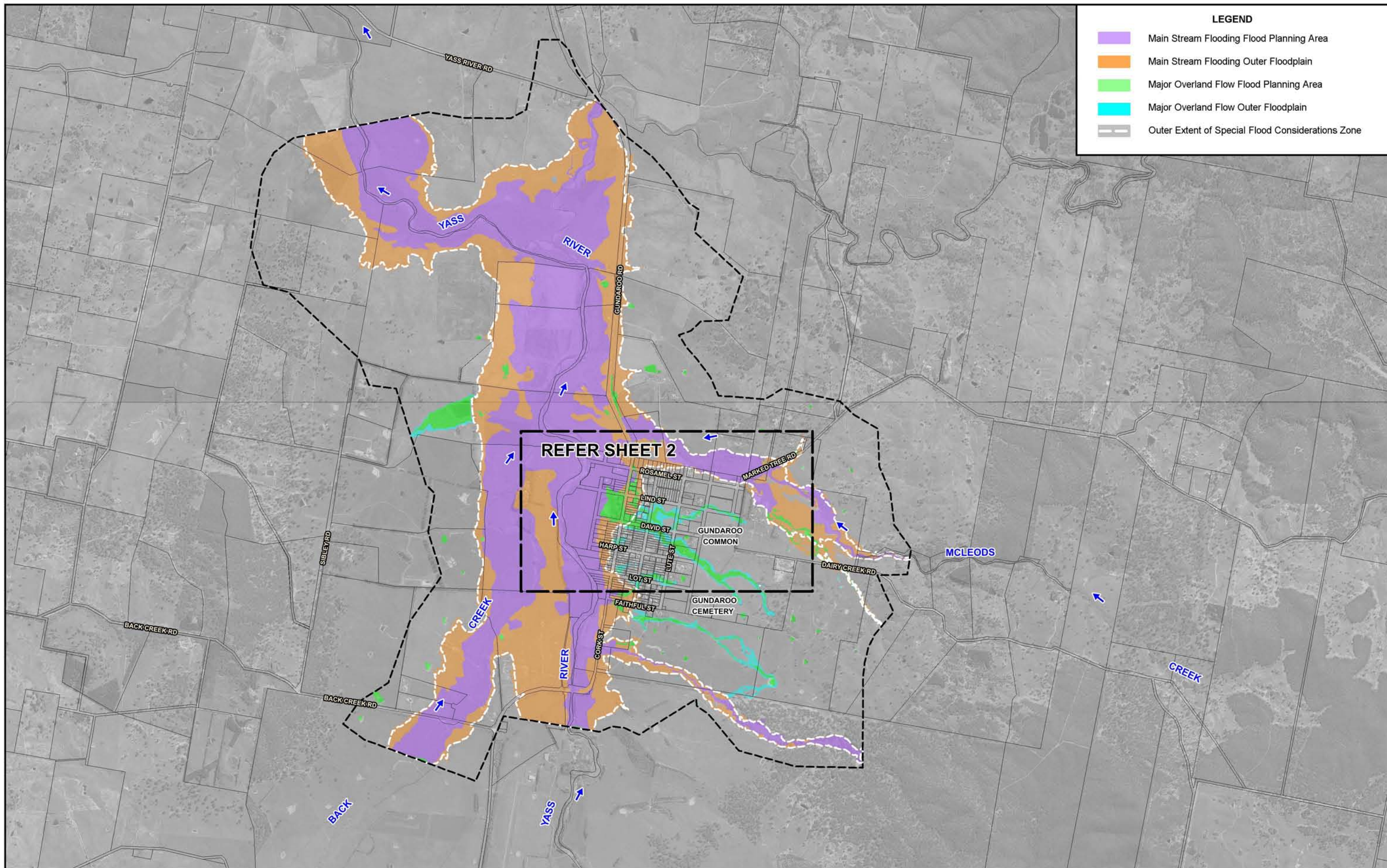
**LEGEND**

- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System

**MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG  
FLOOD STUDY**

Figure E5  
(Sheet 2 of 2)  
**GUNDAROO FLOOD EMERGENCY RESPONSE CLASSIFICATION  
1% AEP**





- LEGEND**
- Main Stream Flooding Flood Planning Area
  - Main Stream Flooding Outer Floodplain
  - Major Overland Flow Flood Planning Area
  - Major Overland Flow Outer Floodplain
  - Outer Extent of Special Flood Considerations Zone

N  
300 0 300 600 900 m  
Scale: 1:30,000

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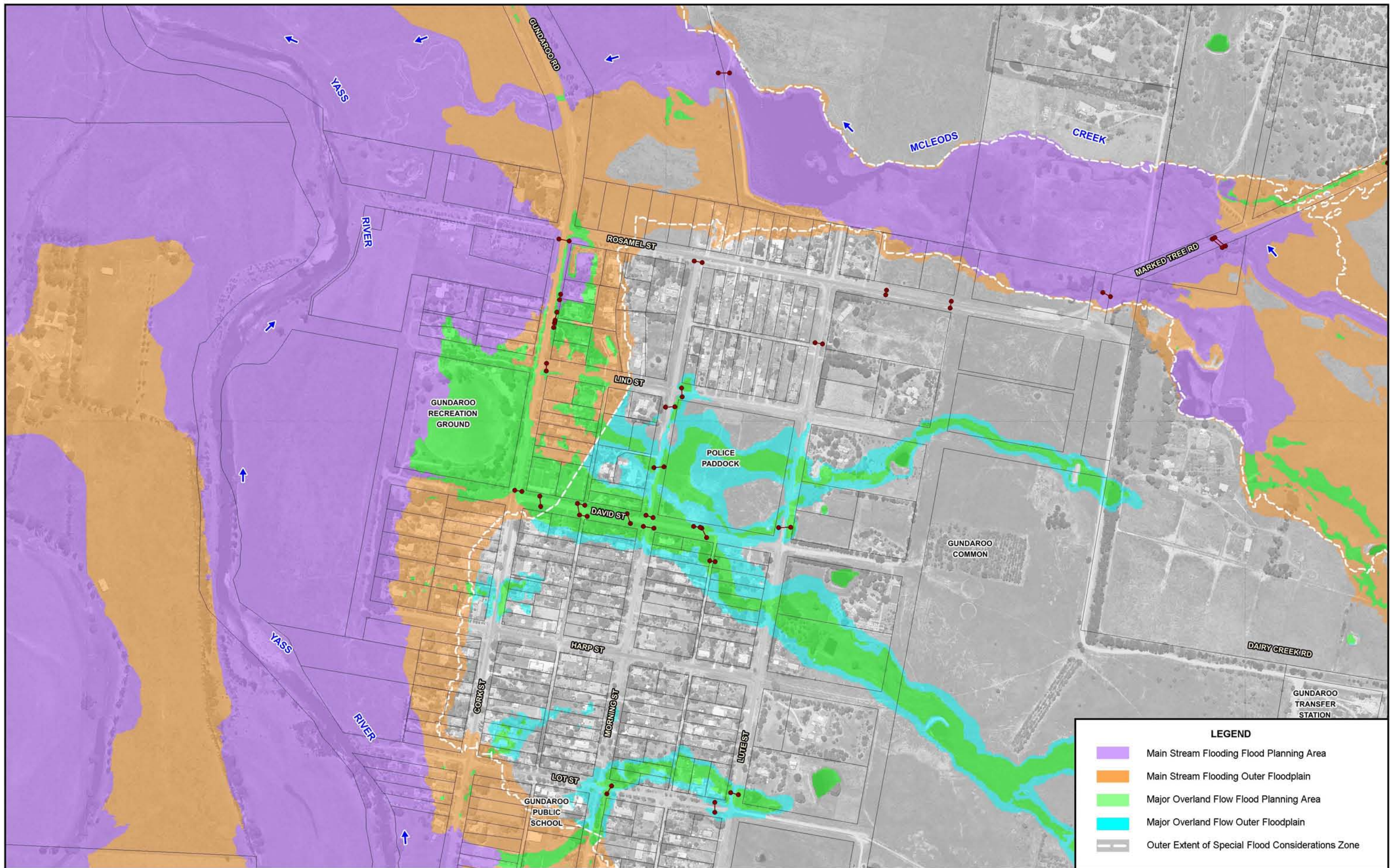
- LEGEND**
- Two-Dimensional Model Boundary
  - Modelled Stormwater Drainage System

**MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG  
FLOOD STUDY**

Figure E6  
(Sheet 1 of 2)

EXTRACT OF YASS VALLEY FLOOD PLANNING MAP AT GUNDAROO





**LEGEND**

- Main Stream Flooding Flood Planning Area
- Main Stream Flooding Outer Floodplain
- Major Overland Flow Flood Planning Area
- Major Overland Flow Outer Floodplain
- Outer Extent of Special Flood Considerations Zone

**Scale: 1:6,000**

60 0 60 120 180 m

**Lyall & Associates**

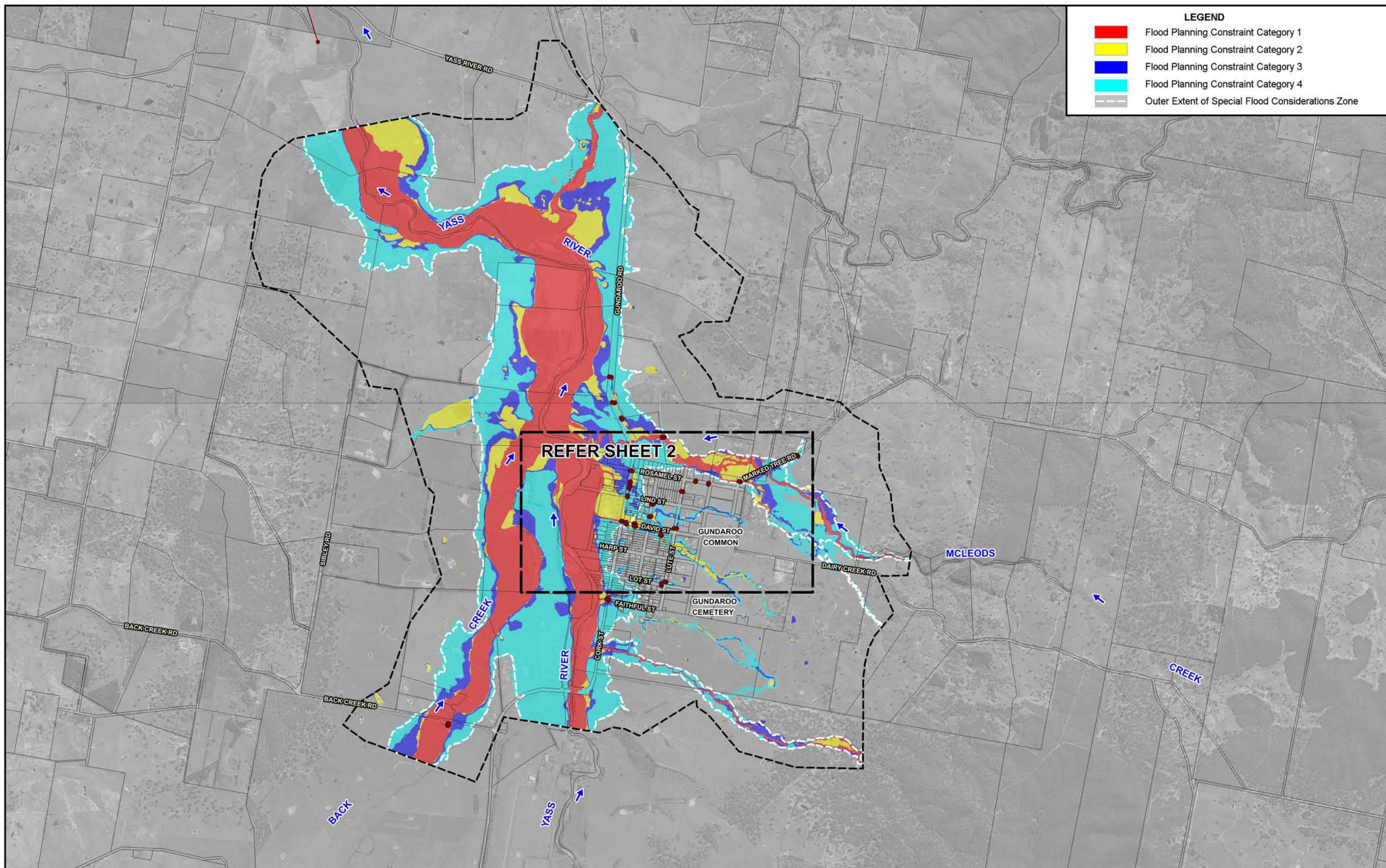
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**LEGEND**

- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System





**LEGEND**

- Flood Planning Constraint Category 1
- Flood Planning Constraint Category 2
- Flood Planning Constraint Category 3
- Flood Planning Constraint Category 4
- Outer Extent of Special Flood Considerations Zone

300 0 300 600 900 m
   
 Scale: 1:30,000

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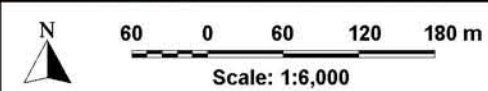
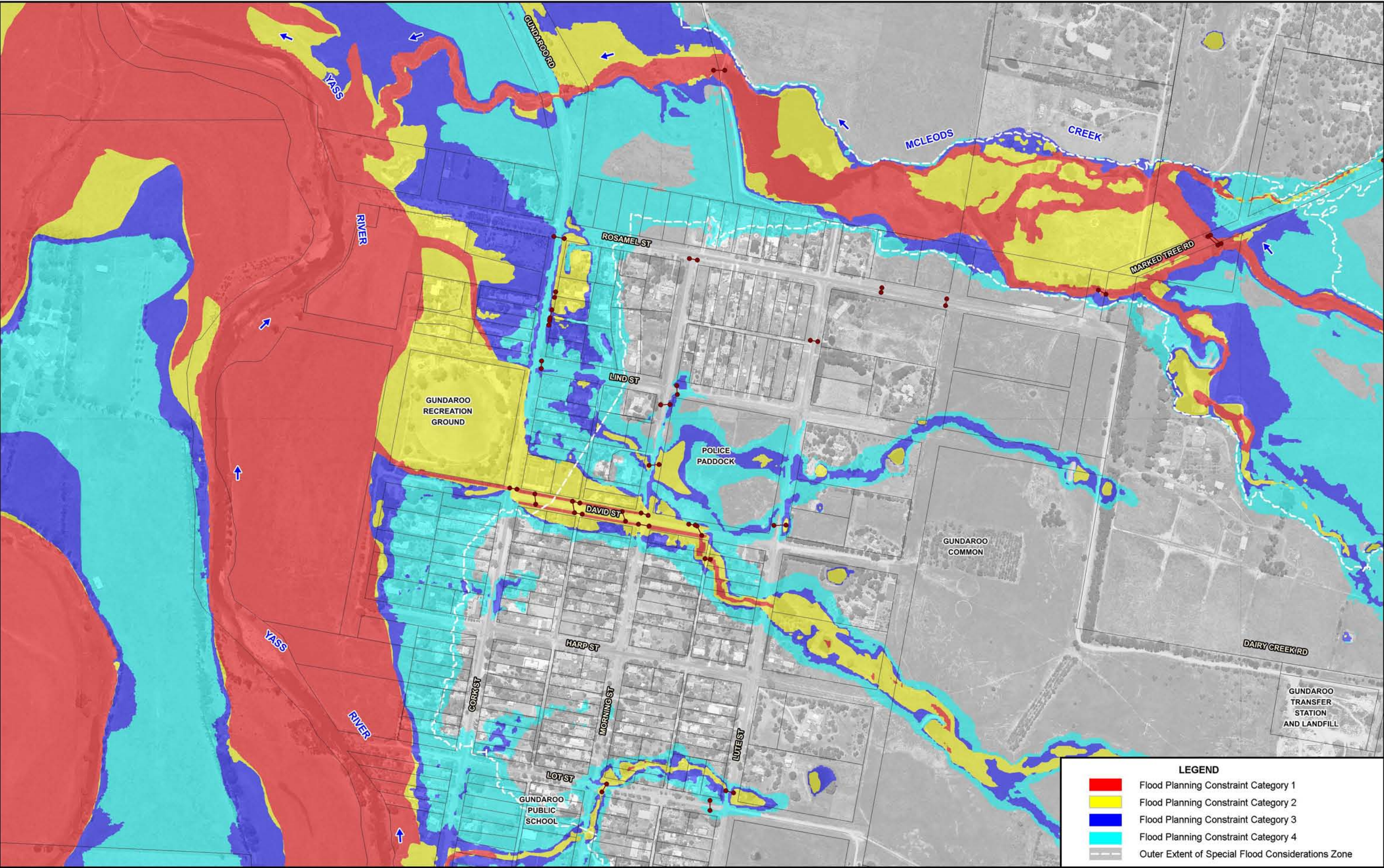
**LEGEND**

- Two-Dimensional Model Boundary
- Modelled Stormwater Drainage System

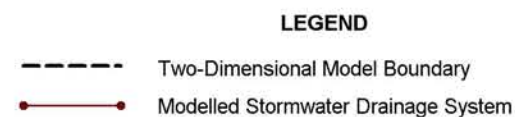
**MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG FLOOD STUDY**

Figure E7  
 (Sheet 1 of 2)





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**MURRUMBATEMAN, BOWNING, BOOKHAM AND BINALONG FLOOD STUDY**

Figure E7  
(Sheet 2 of 2)

**Lyll & Associates**

EXTRACT OF YASS VALLEY FLOOD PLANNING CONSTRAINT CATEGORY MAP AT GUNDAROO