

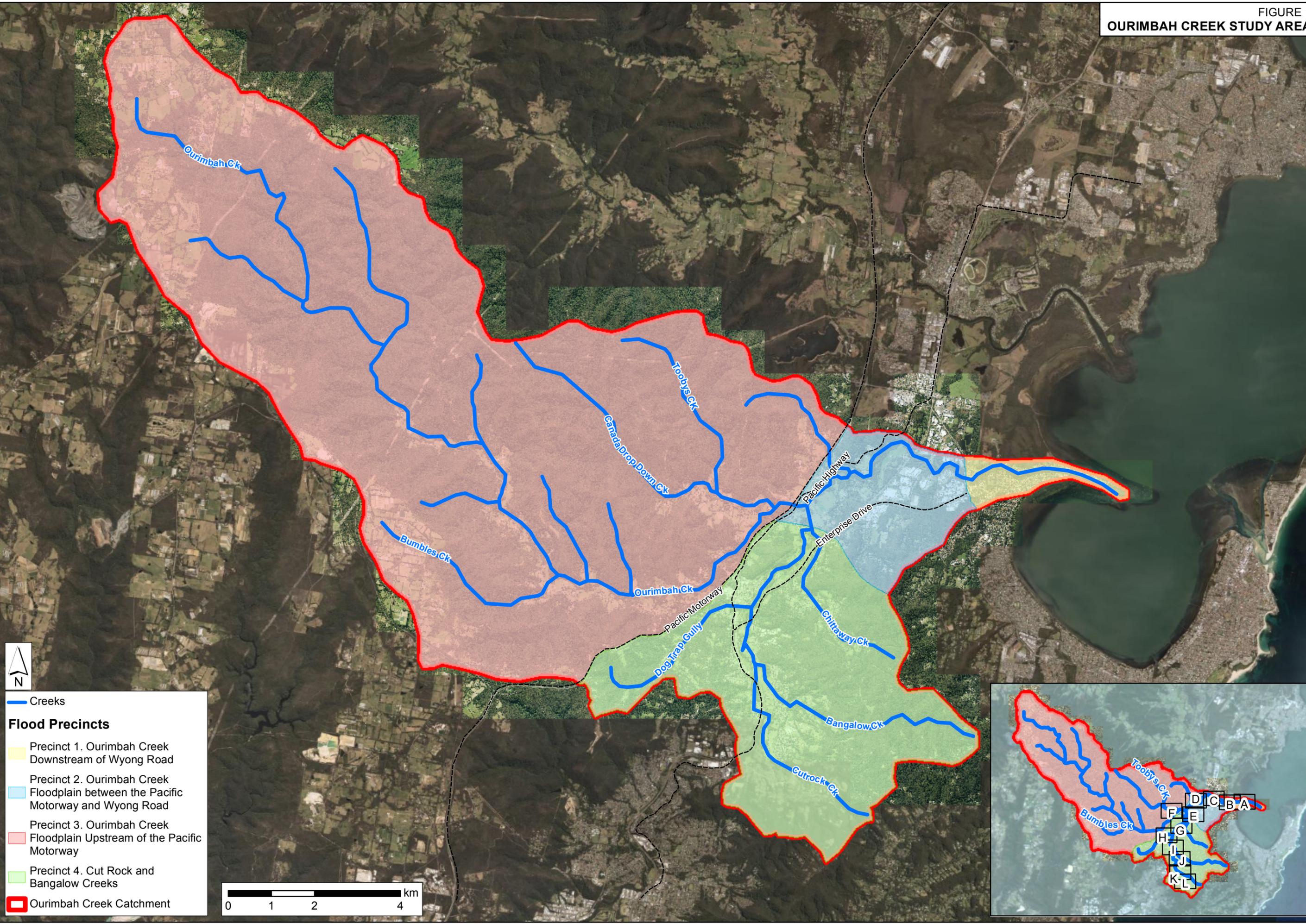
OURIMBAH CREEK FLOODPLAIN RISK MANAGEMENT STUDY AND PLAN July 2019

Central
Coast
Council



A3 Figures 1 to 9 (excluding Figure 2)

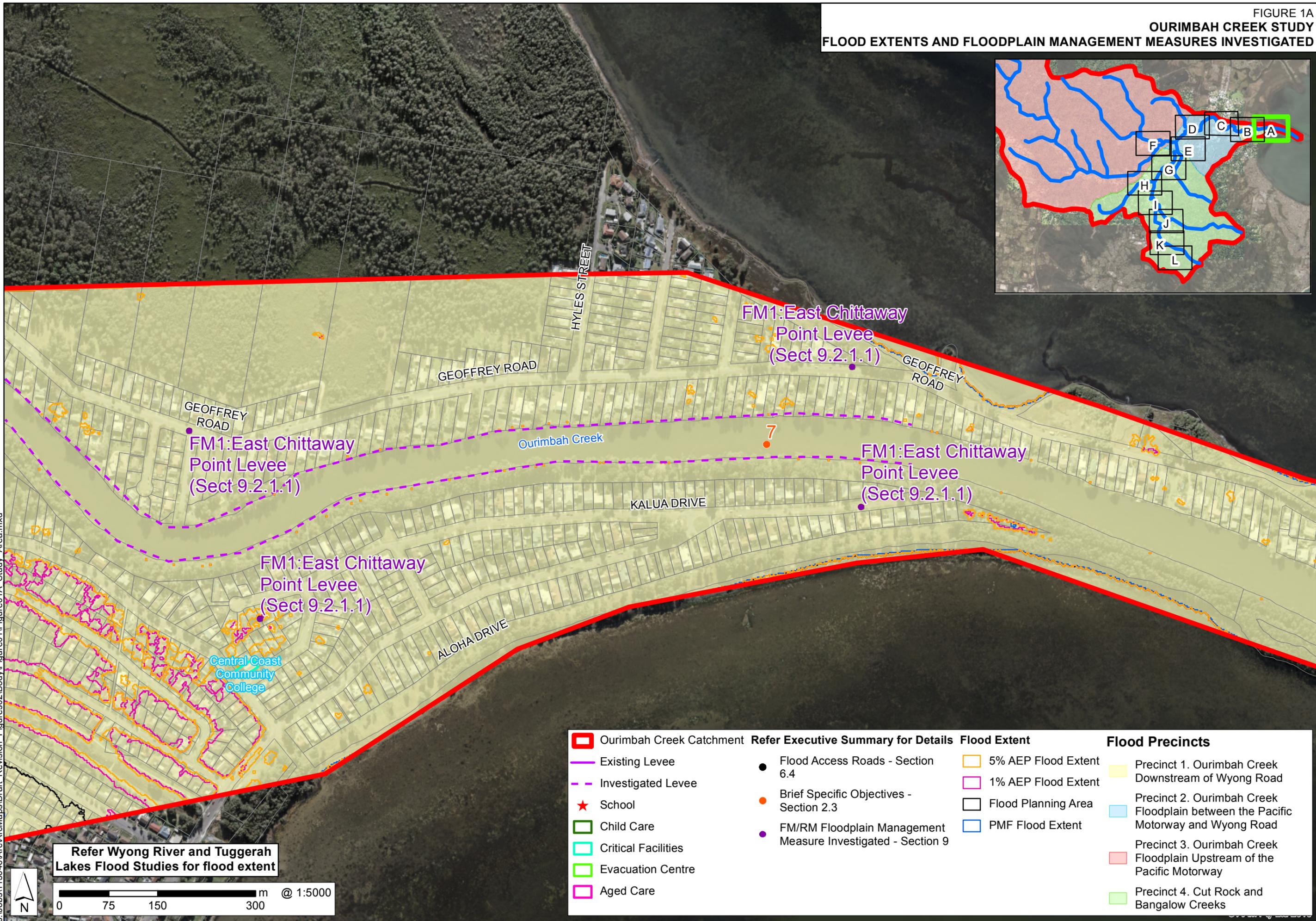
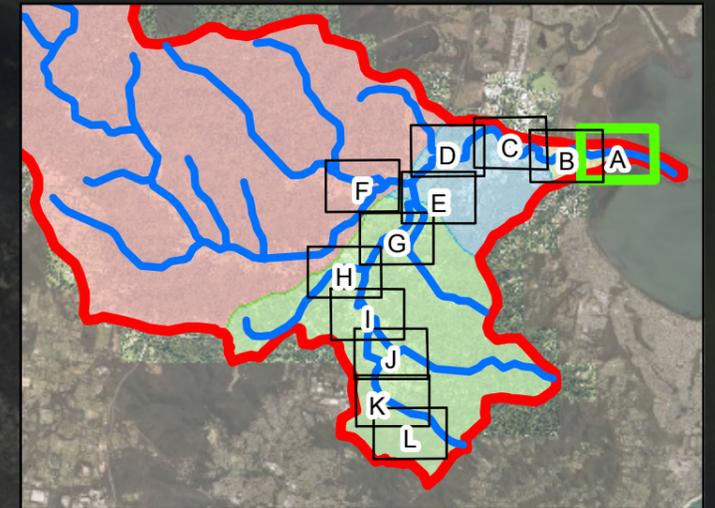
FIGURE 1
OURIMBAH CREEK STUDY AREA



- Creeks
- Flood Precincts**
- Precinct 1. Ourimbah Creek Downstream of Wyong Road
- Precinct 2. Ourimbah Creek Floodplain between the Pacific Motorway and Wyong Road
- Precinct 3. Ourimbah Creek Floodplain Upstream of the Pacific Motorway
- Precinct 4. Cut Rock and Bangalow Creeks
- Ourimbah Creek Catchment



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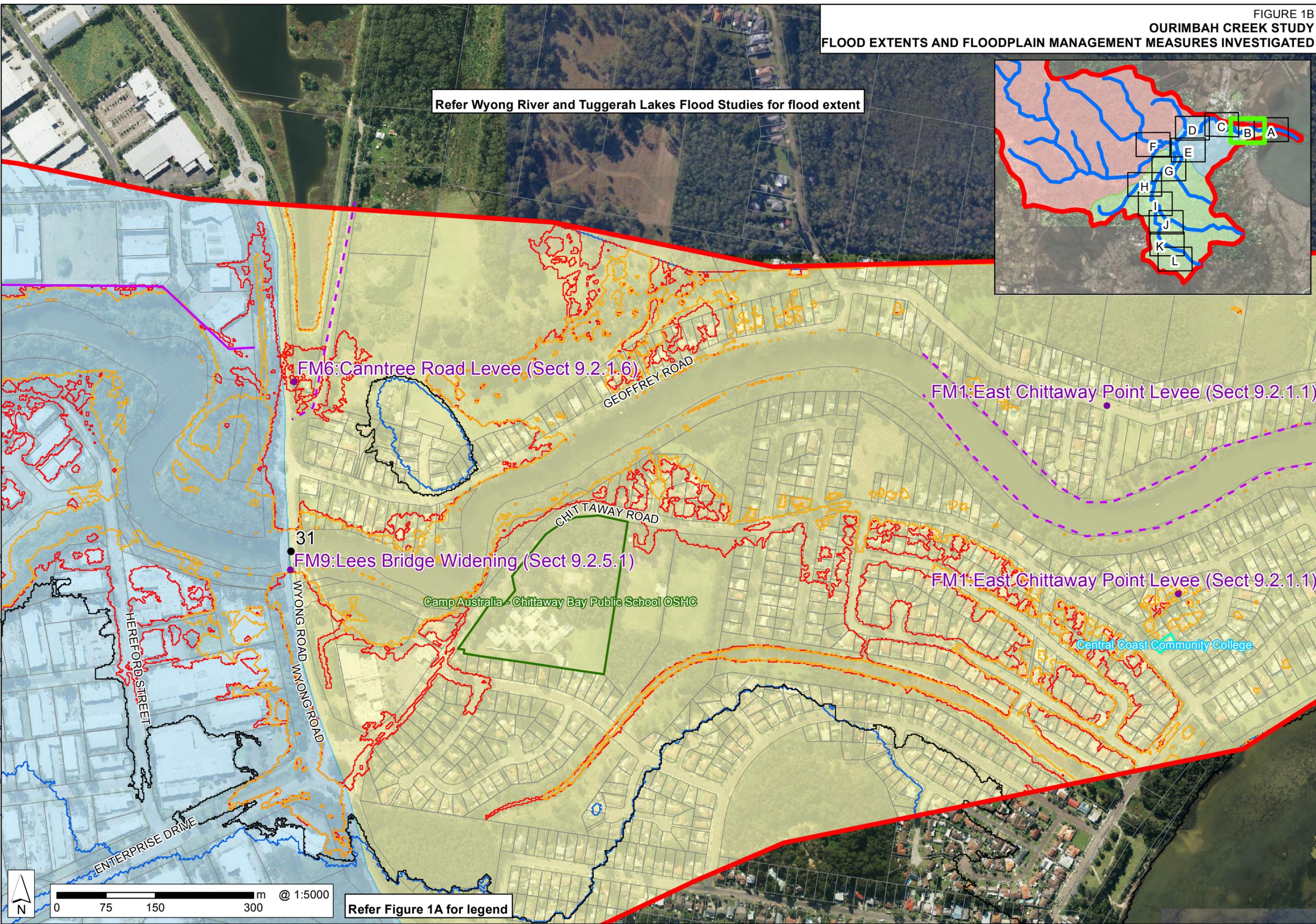
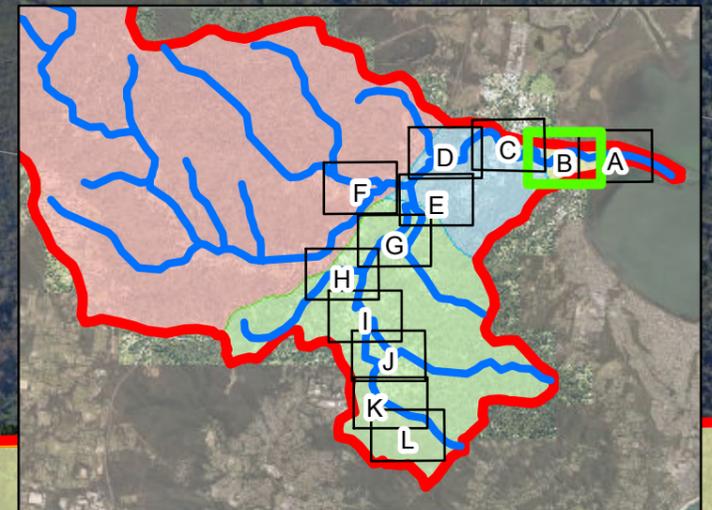
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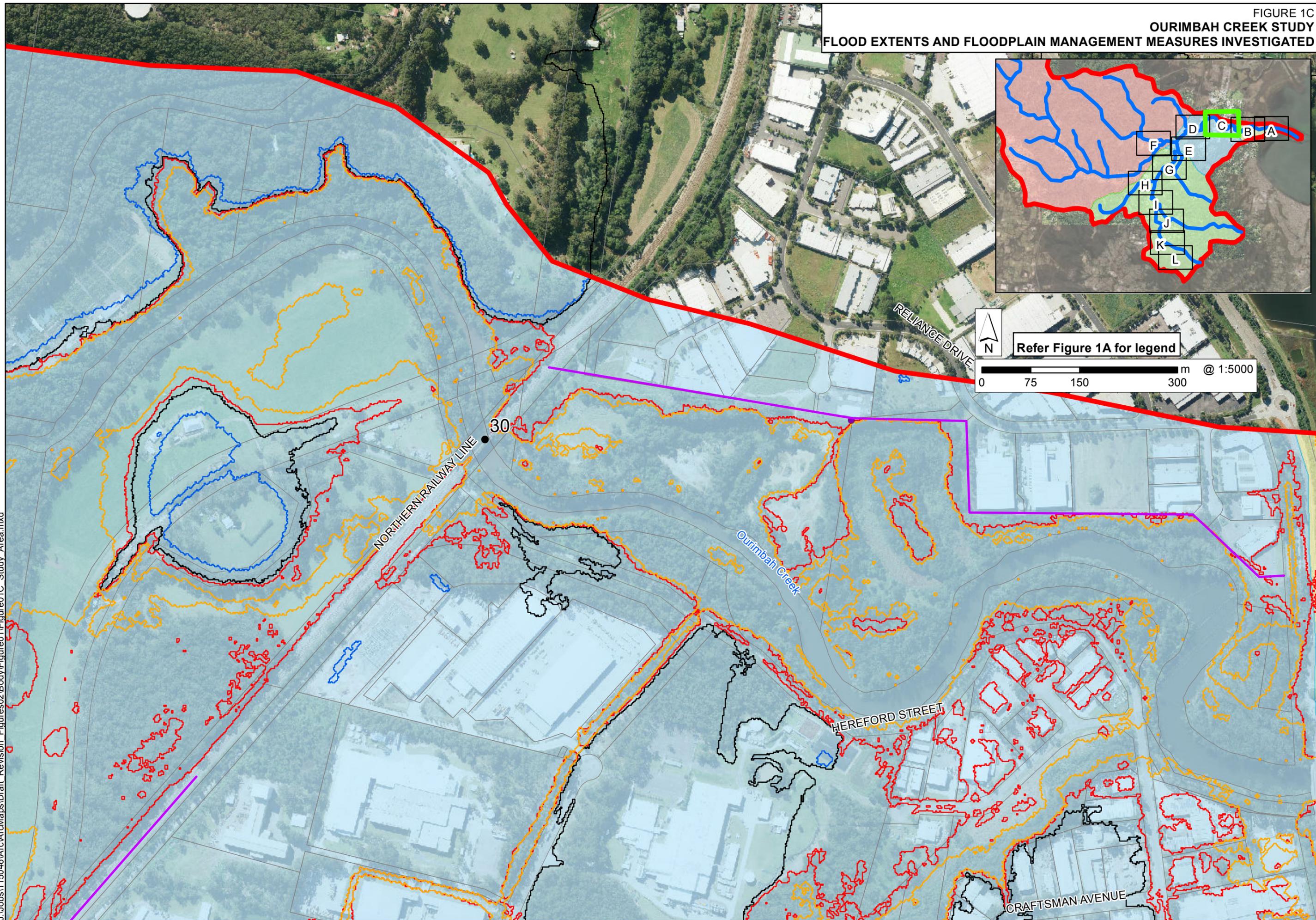
Refer Wyong River and Tuggerah Lakes Flood Studies for flood extent

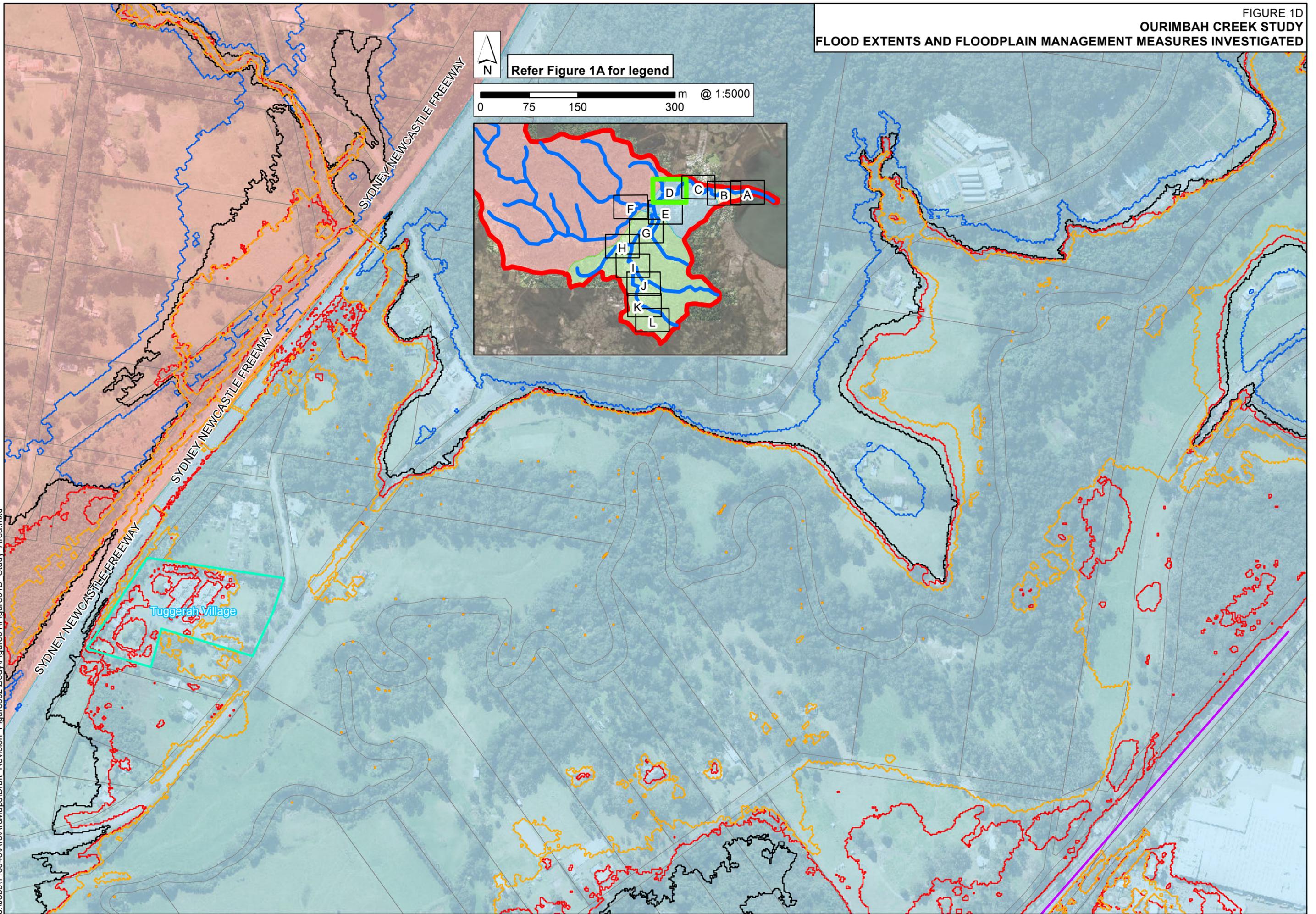


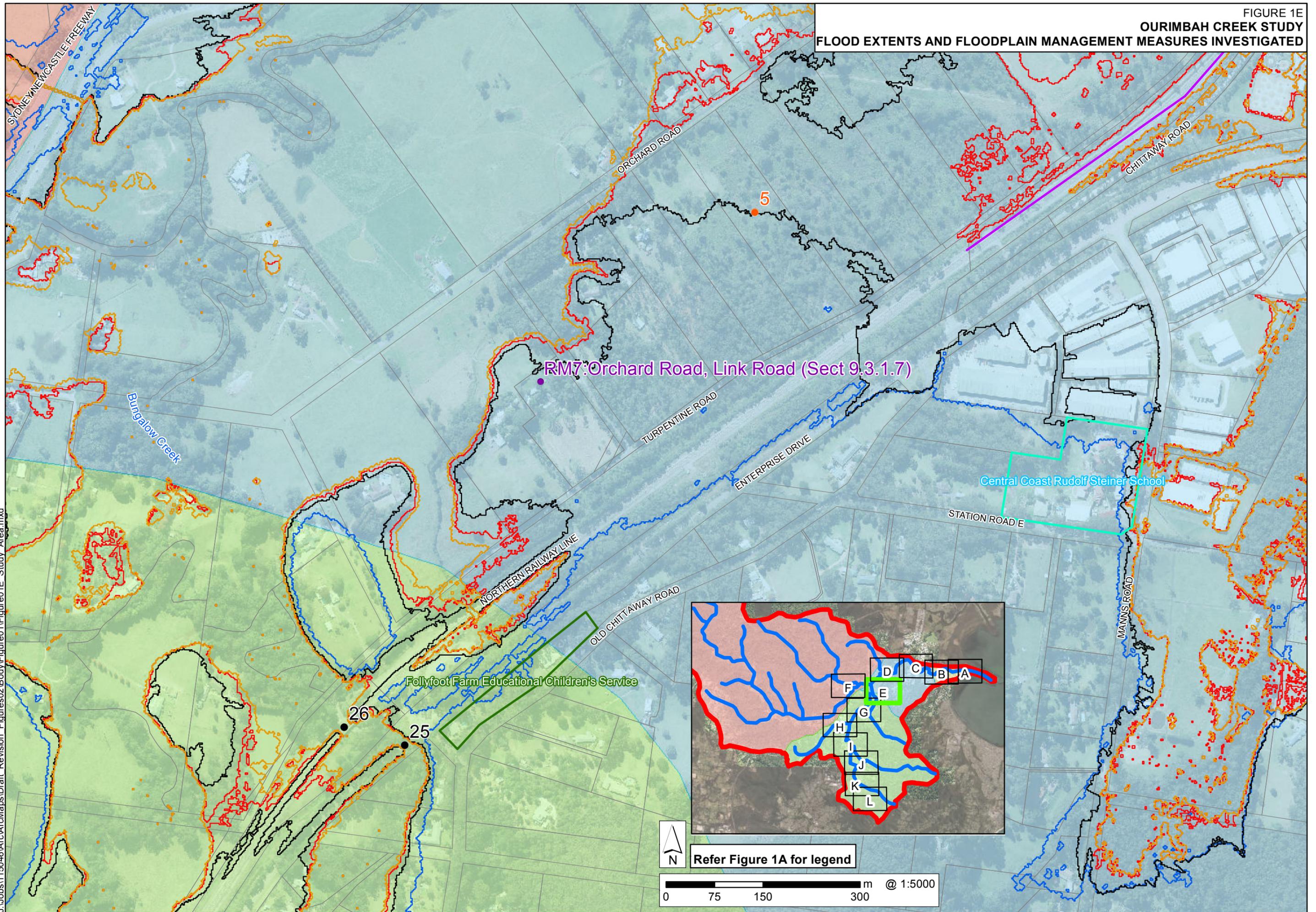
| Refer Executive Summary for Details | | Flood Extent | Flood Precincts |
|-------------------------------------|--|---------------------|---|
| Ourimbah Creek Catchment | Flood Access Roads - Section 6.4 | 5% AEP Flood Extent | Precinct 1. Ourimbah Creek Downstream of Wyong Road |
| Existing Levee | Brief Specific Objectives - Section 2.3 | 1% AEP Flood Extent | Precinct 2. Ourimbah Creek Floodplain between the Pacific Motorway and Wyong Road |
| Investigated Levee | FM/RM Floodplain Management Measure Investigated - Section 9 | Flood Planning Area | Precinct 3. Ourimbah Creek Floodplain Upstream of the Pacific Motorway |
| School | | PMF Flood Extent | Precinct 4. Cut Rock and Bangalow Creeks |
| Child Care | | | |
| Critical Facilities | | | |
| Evacuation Centre | | | |
| Aged Care | | | |

Refer Wyong River and Tuggerah Lakes Flood Studies for flood extent

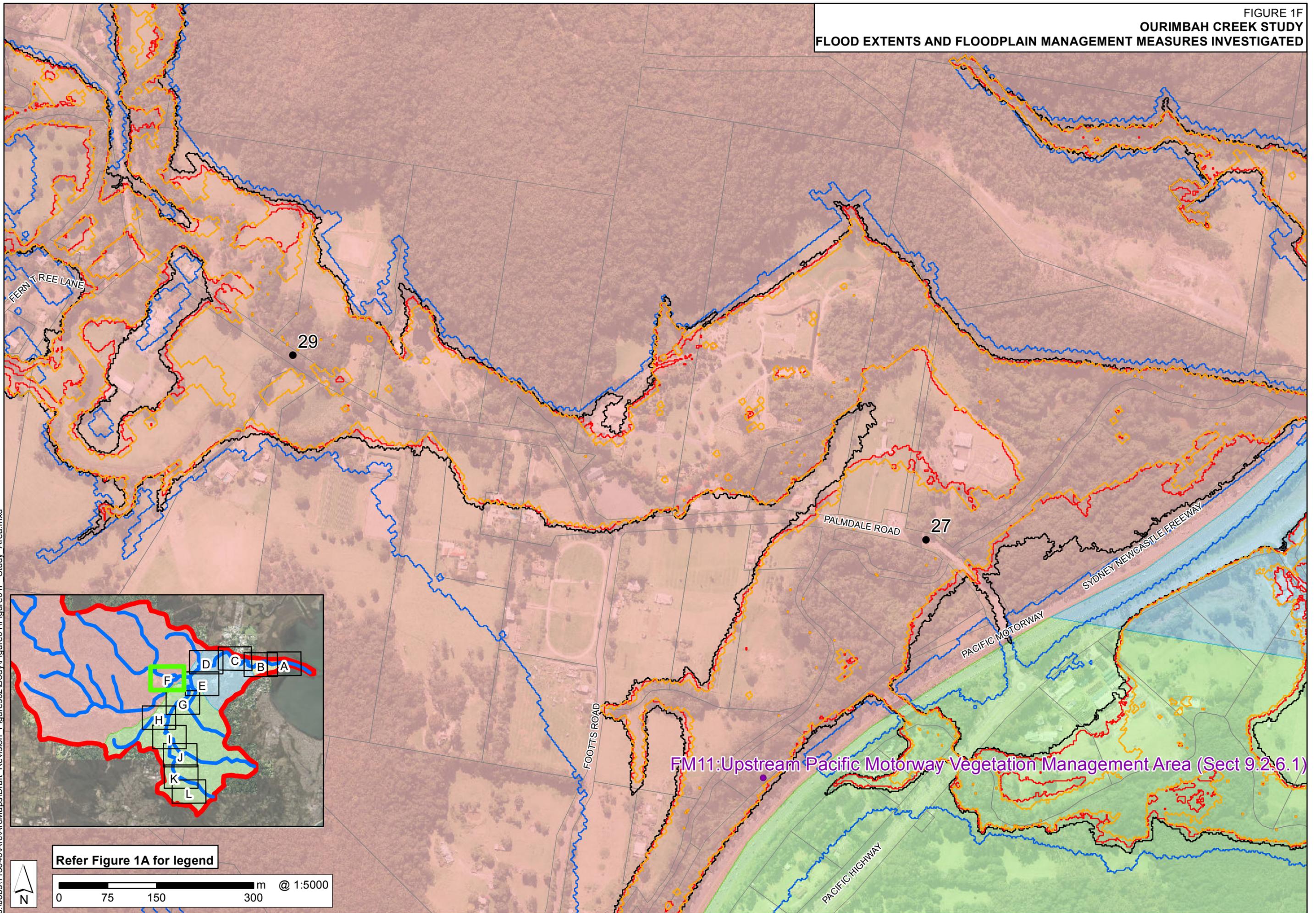








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Refer Figure 1A for legend

0 75 150 300 m @ 1:5000

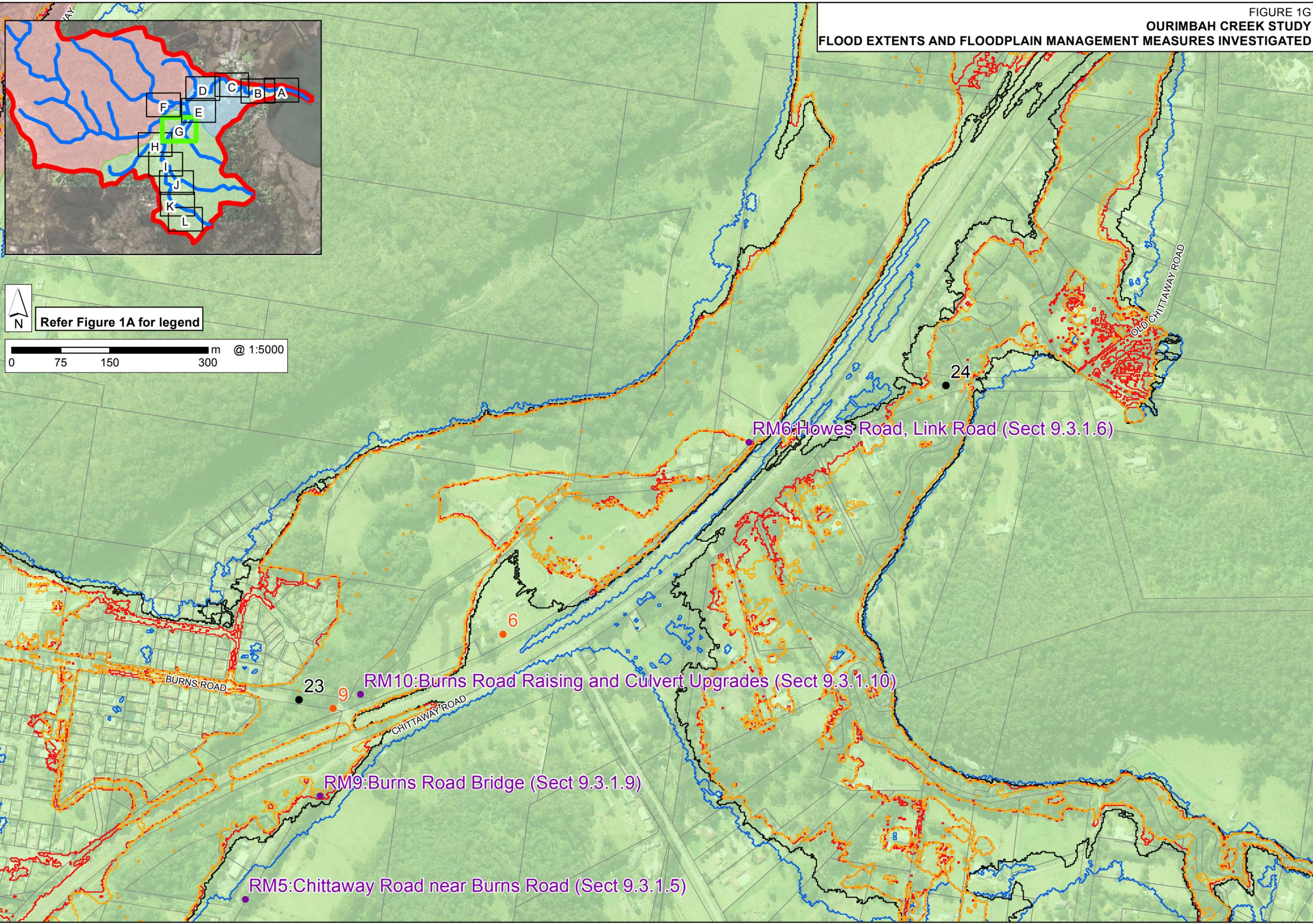
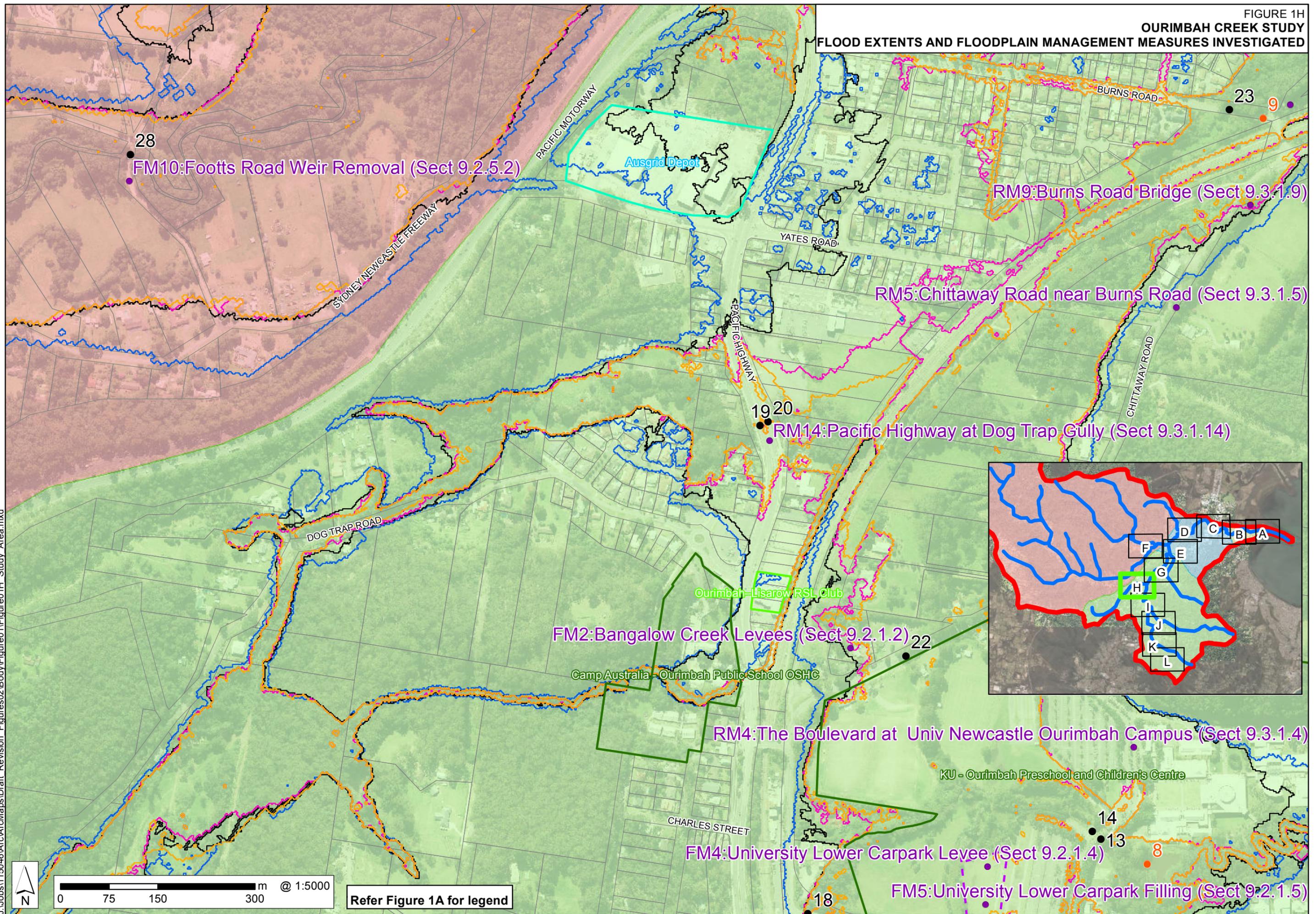
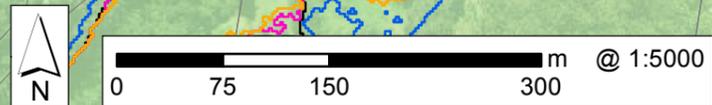


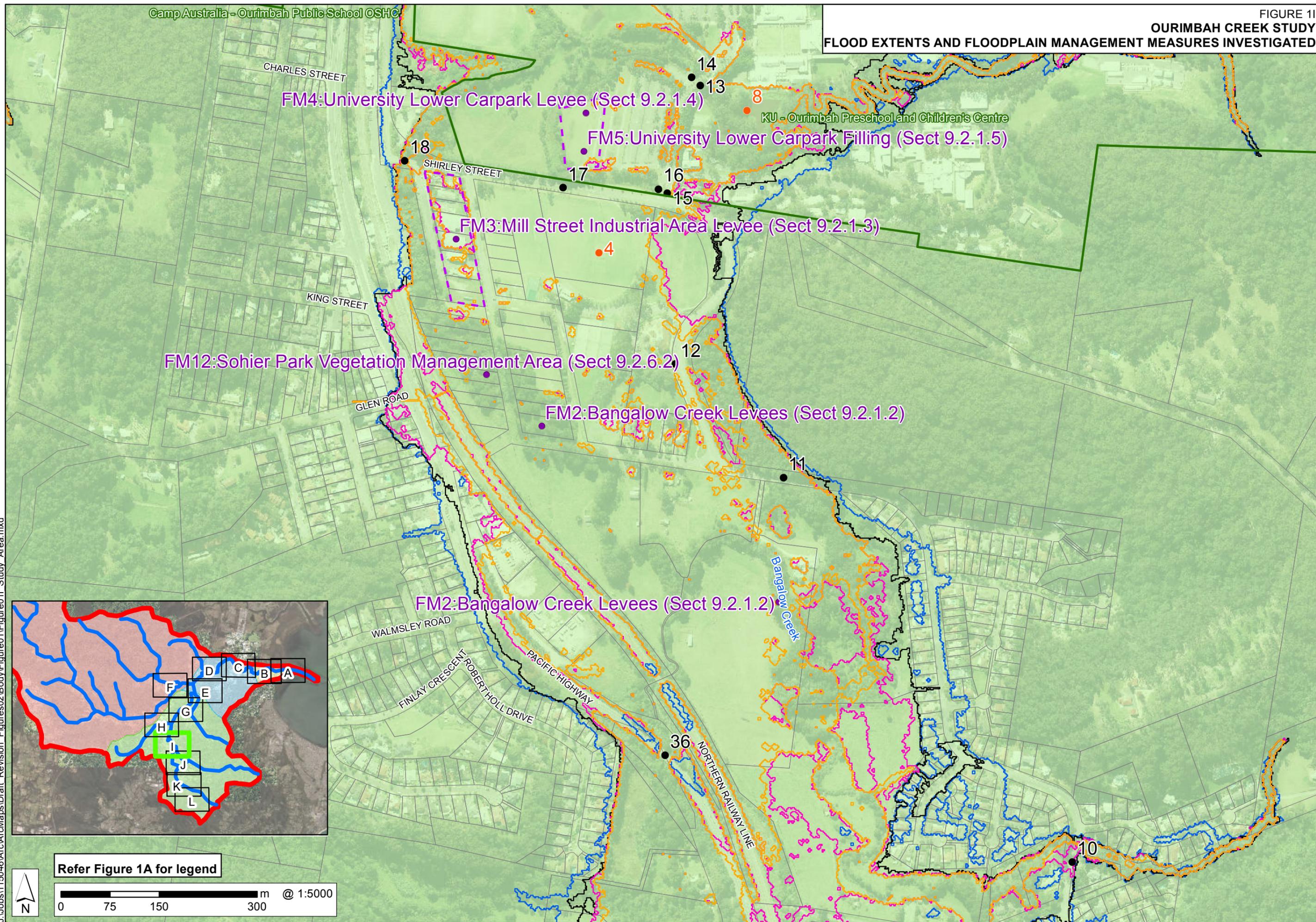
FIGURE 1H
OURIMBAH CREEK STUDY
FLOOD EXTENTS AND FLOODPLAIN MANAGEMENT MEASURES INVESTIGATED



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Refer Figure 1A for legend

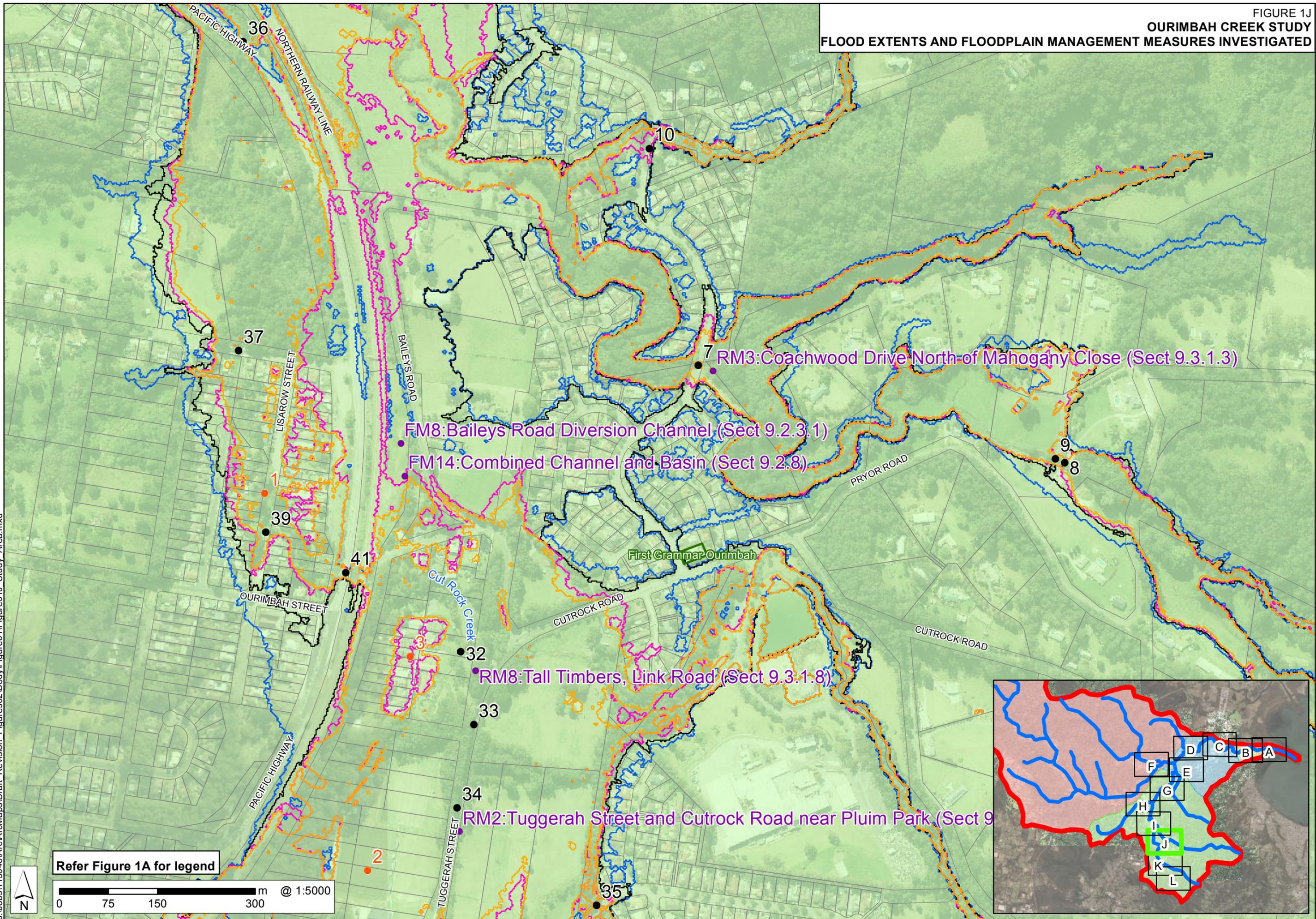


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Refer Figure 1A for legend

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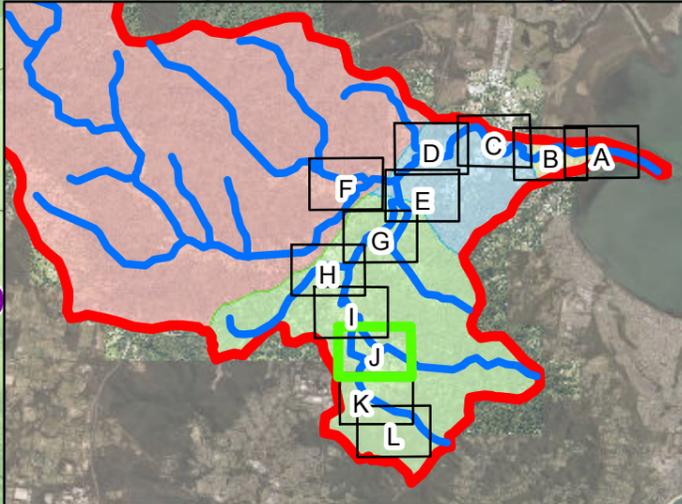


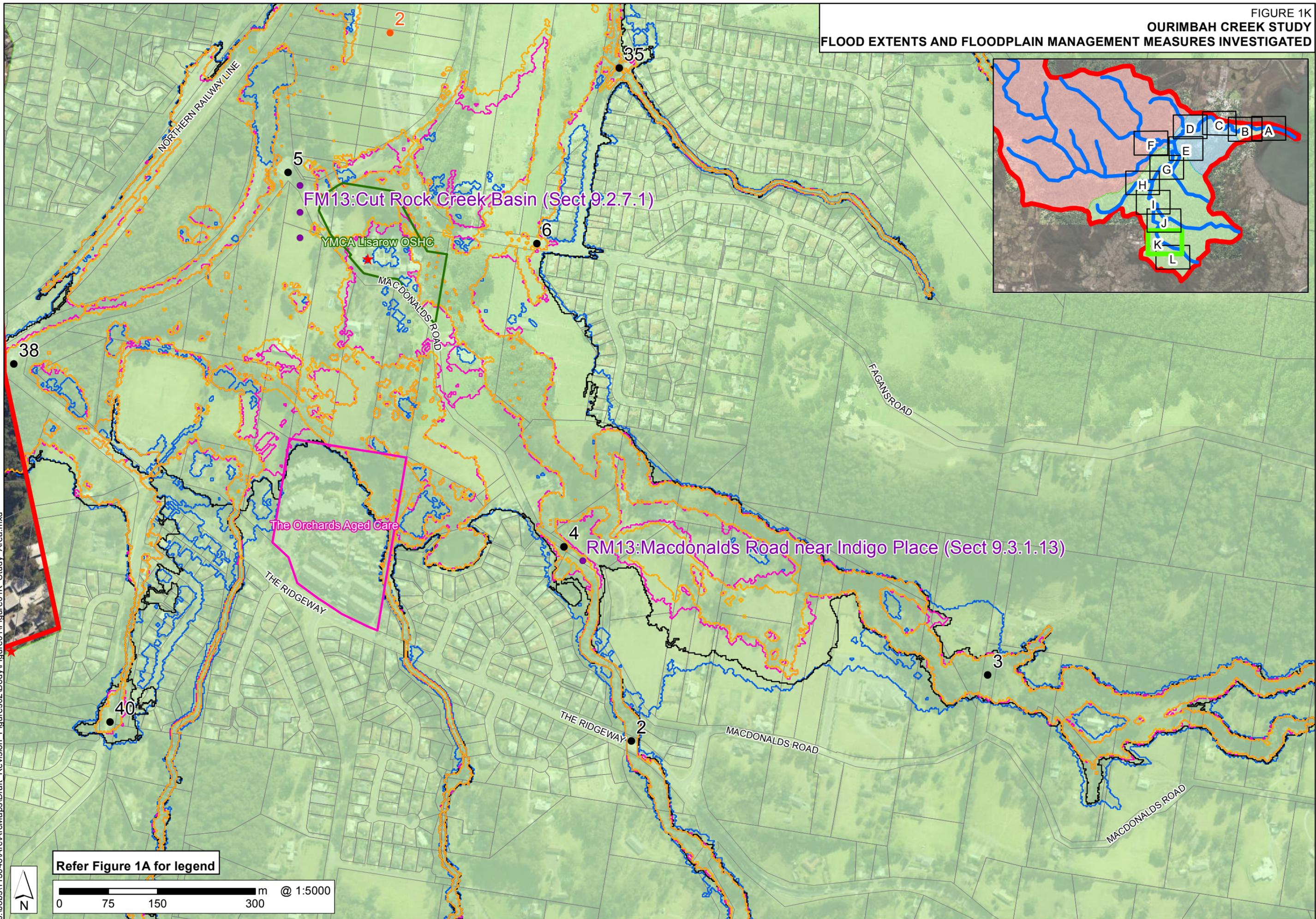


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Refer Figure 1A for legend

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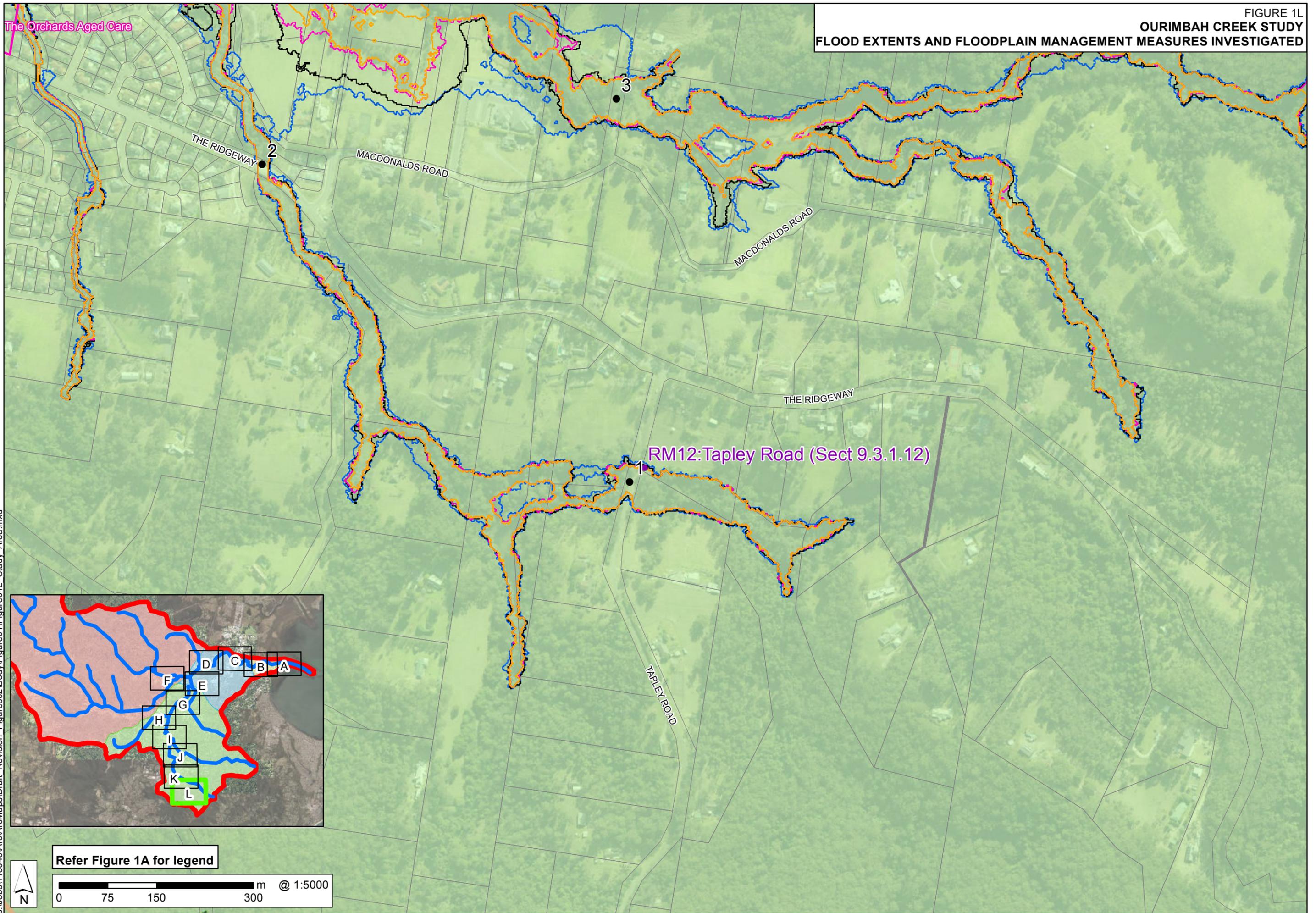




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Refer Figure 1A for legend

0 75 150 300 m @ 1:5000



RM12: Tapley Road (Sect 9.3.1.12)

THE RIDGEWAY

MACDONALDS ROAD

MACDONALDS ROAD

THE RIDGEWAY

TAPLEY ROAD

The Orchards Aged Care

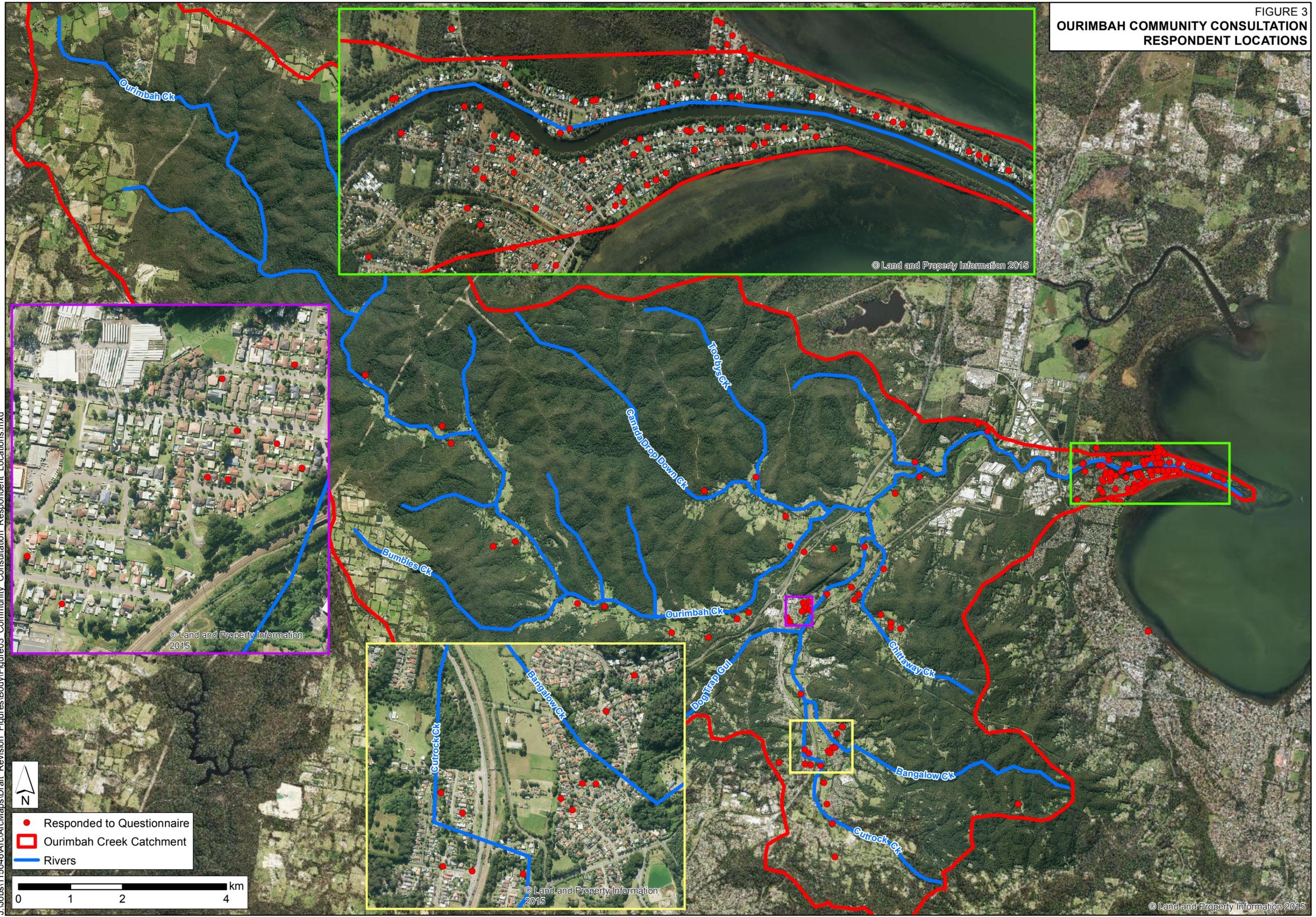
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Refer Figure 1A for legend

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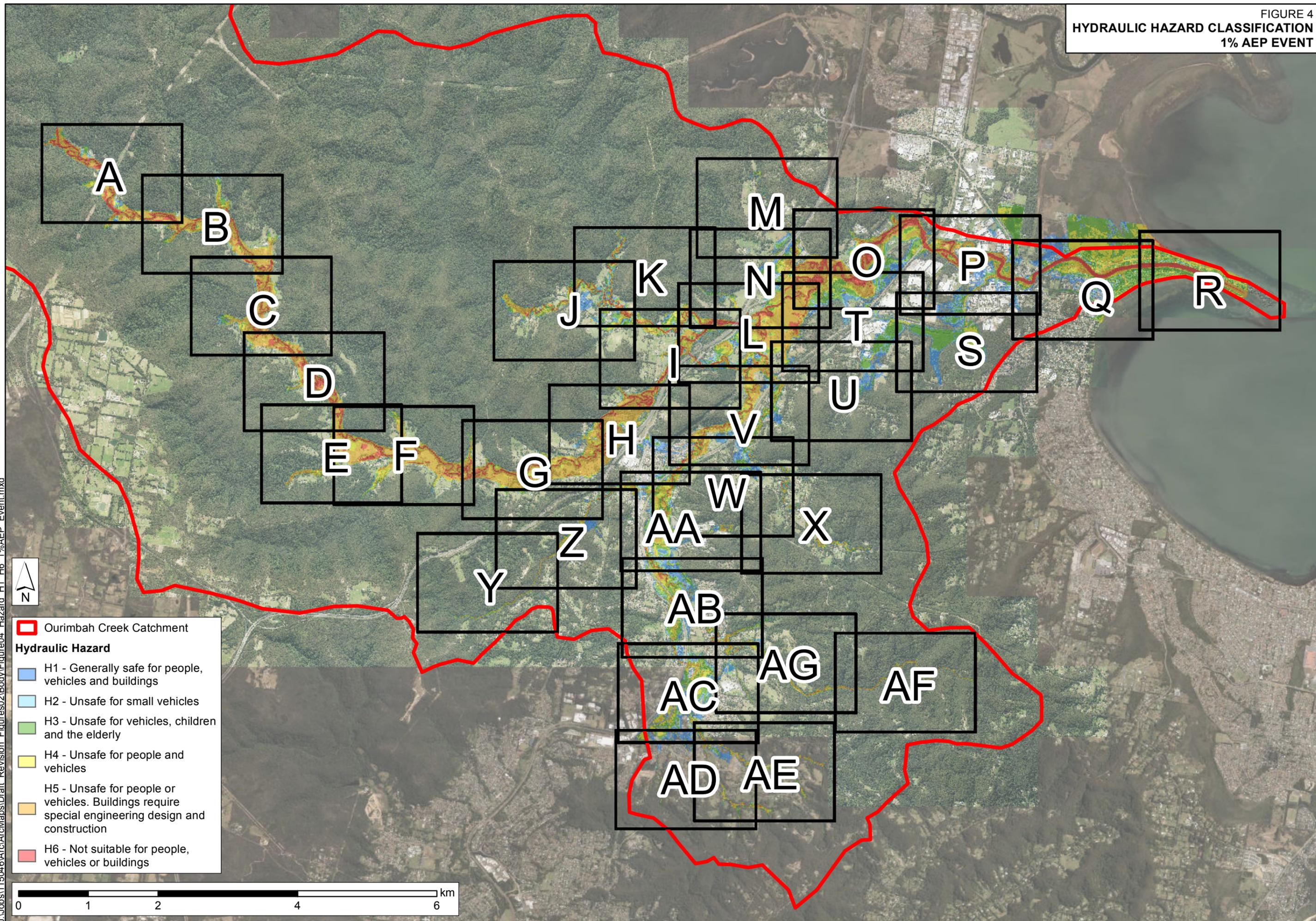


FIGURE 3
OURIMBAH COMMUNITY CONSULTATION
RESPONDENT LOCATIONS



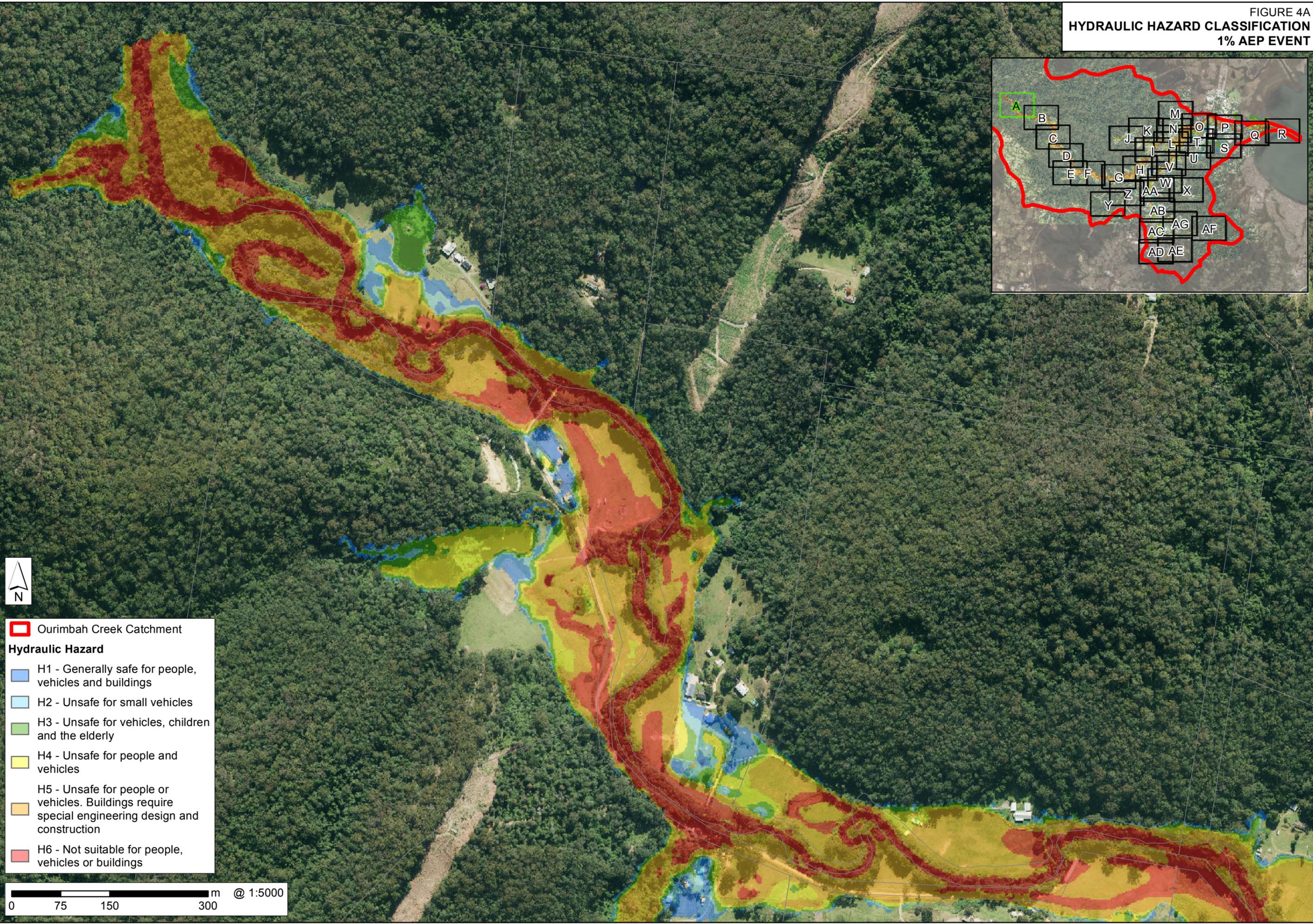
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FIGURE 4
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



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FIGURE 4A
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



Ourimbah Creek Catchment

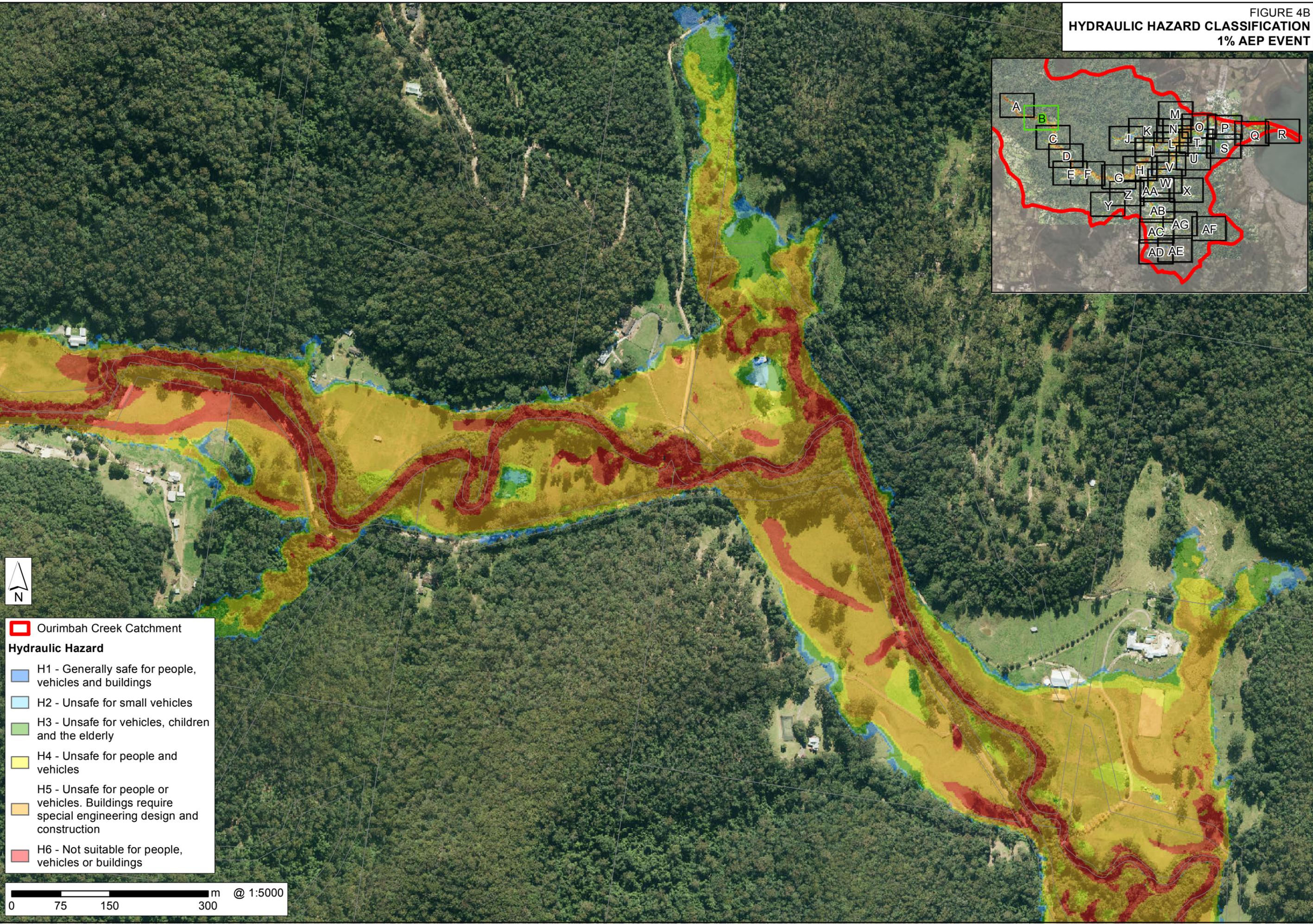
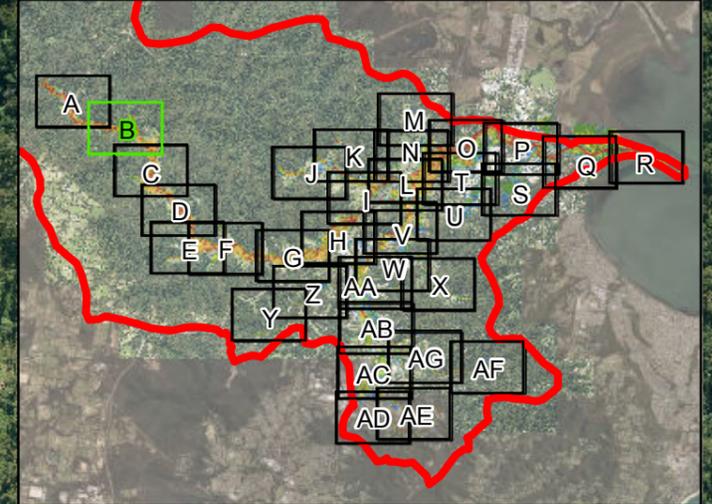
Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000

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FIGURE 4B
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT

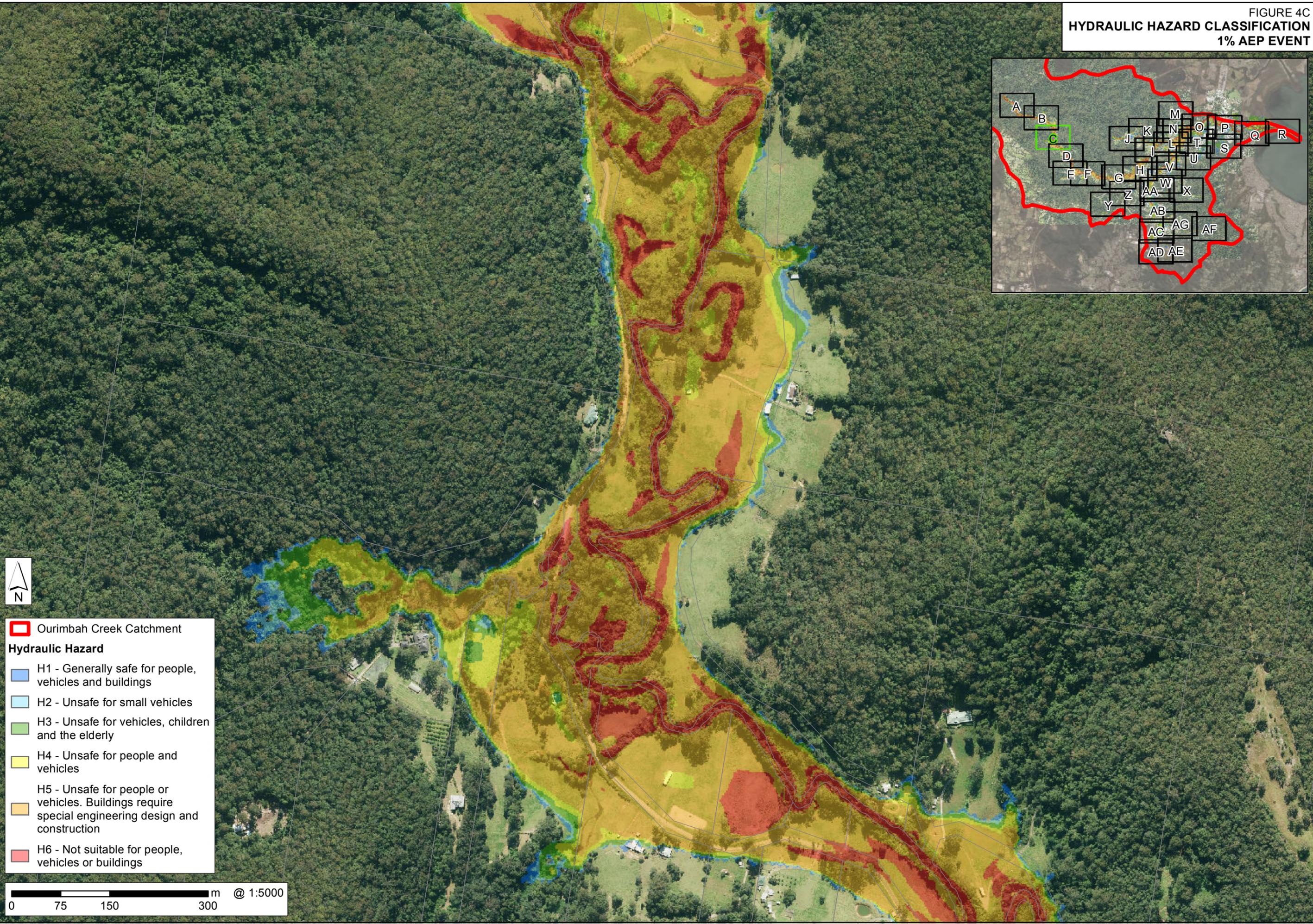
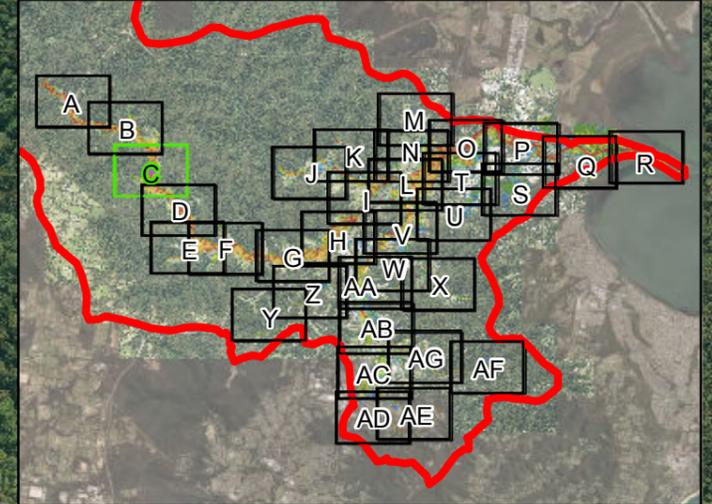


- ▭ Ourimbah Creek Catchment
- Hydraulic Hazard**
- ▭ H1 - Generally safe for people, vehicles and buildings
- ▭ H2 - Unsafe for small vehicles
- ▭ H3 - Unsafe for vehicles, children and the elderly
- ▭ H4 - Unsafe for people and vehicles
- ▭ H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- ▭ H6 - Not suitable for people, vehicles or buildings



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FIGURE 4C
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT

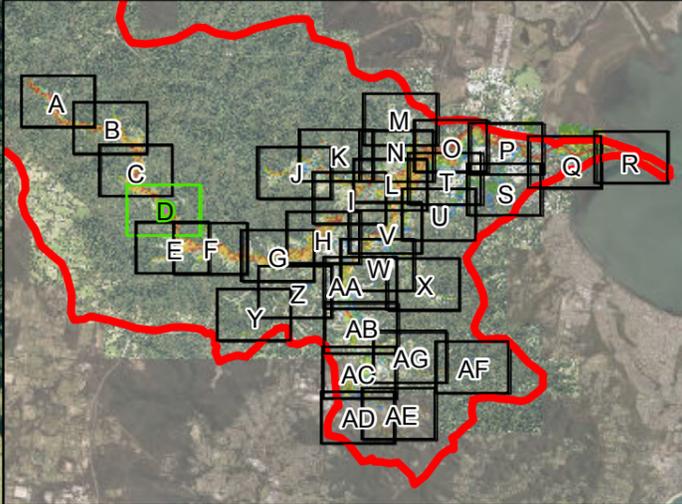
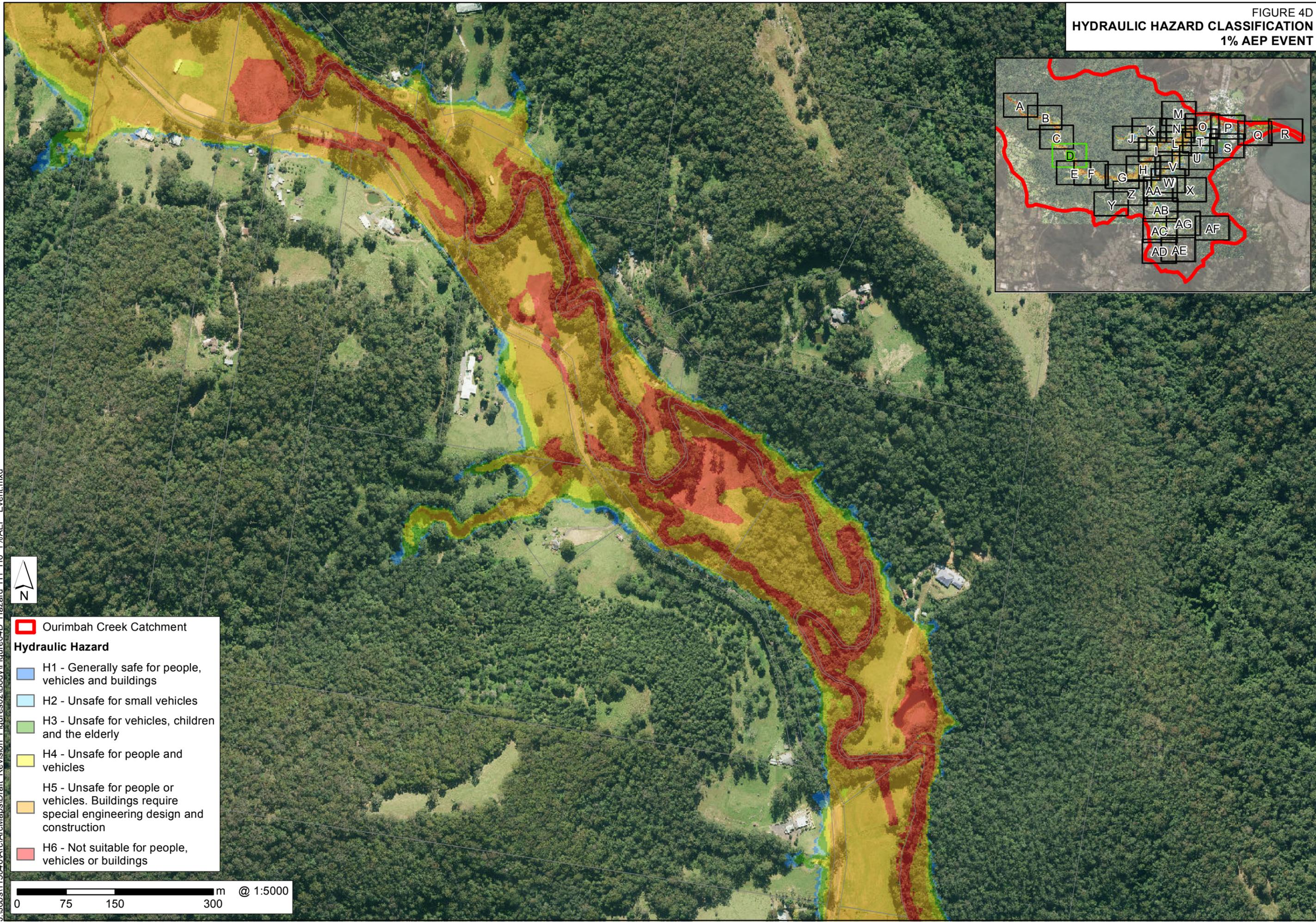


-  Ourimbah Creek Catchment
- Hydraulic Hazard**
-  H1 - Generally safe for people, vehicles and buildings
-  H2 - Unsafe for small vehicles
-  H3 - Unsafe for vehicles, children and the elderly
-  H4 - Unsafe for people and vehicles
-  H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
-  H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000

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FIGURE 4D
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT

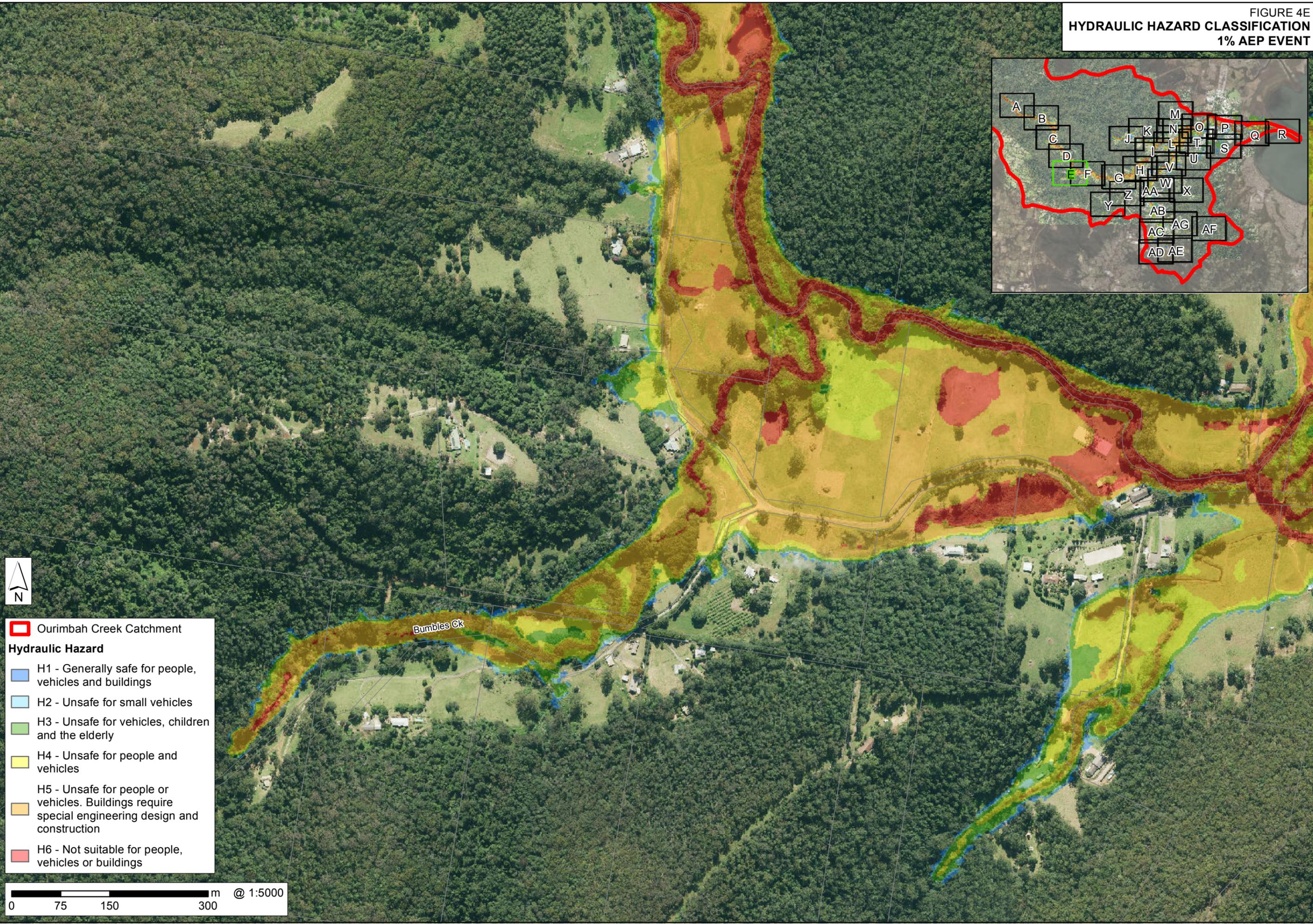
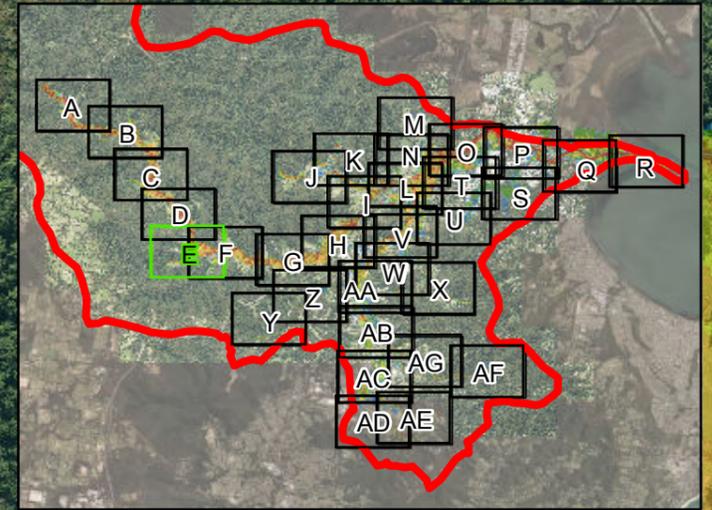


- ▭ Ourimbah Creek Catchment
- Hydraulic Hazard**
- ▭ H1 - Generally safe for people, vehicles and buildings
- ▭ H2 - Unsafe for small vehicles
- ▭ H3 - Unsafe for vehicles, children and the elderly
- ▭ H4 - Unsafe for people and vehicles
- ▭ H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- ▭ H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000

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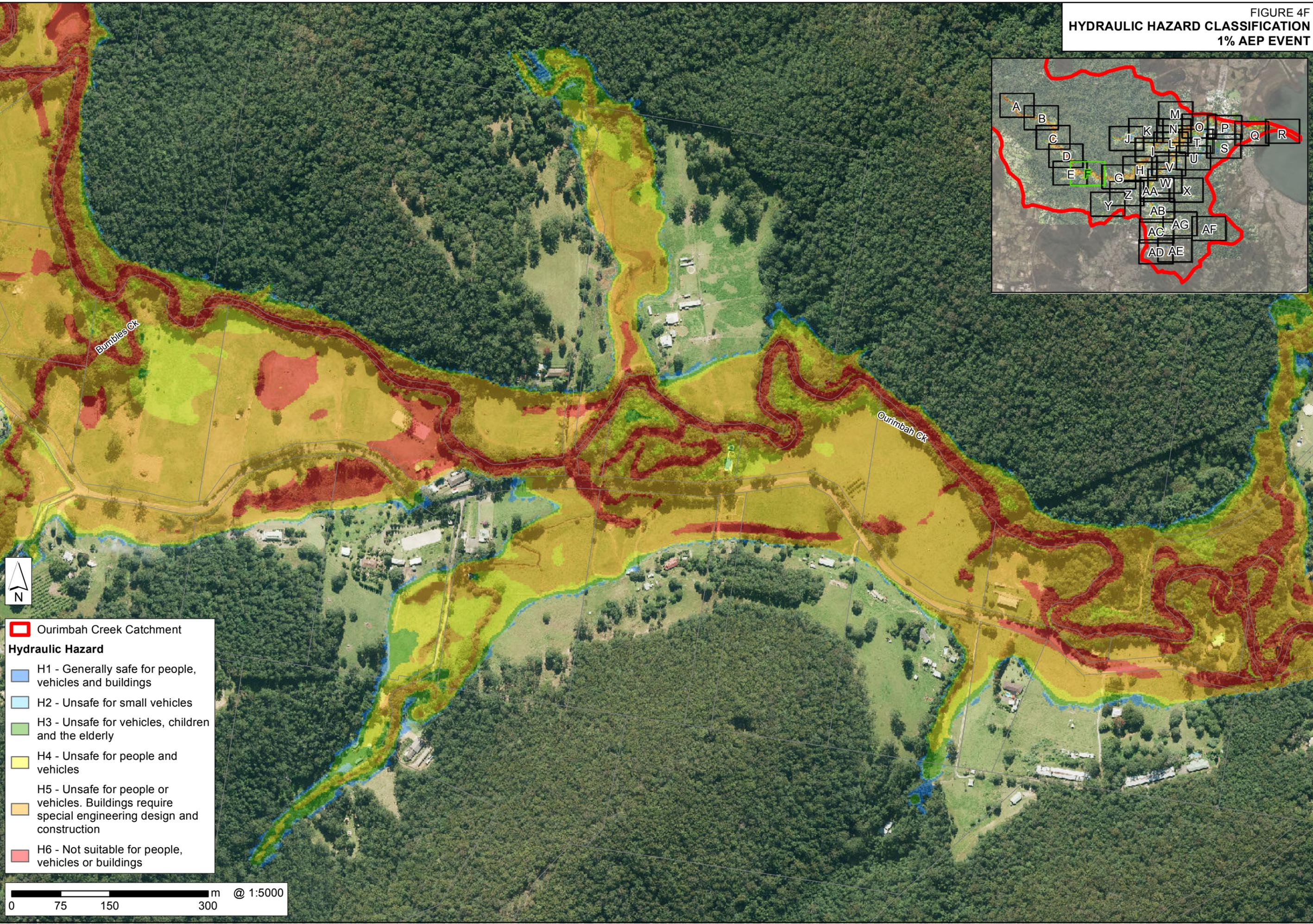
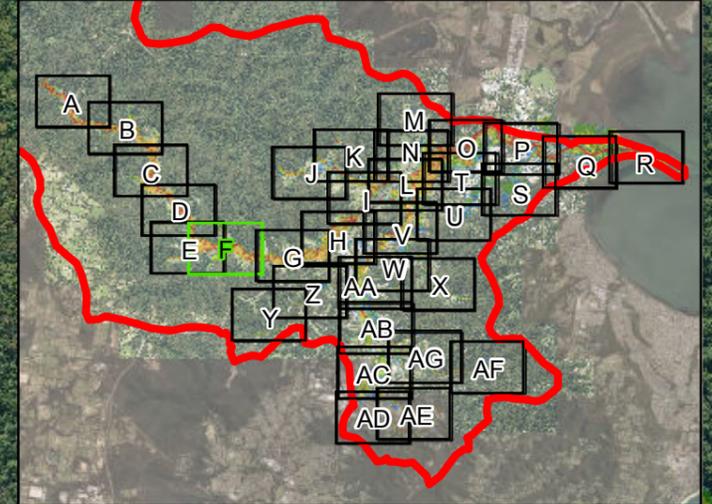
FIGURE 4E
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



-  Ourimbah Creek Catchment
- Hydraulic Hazard**
-  H1 - Generally safe for people, vehicles and buildings
 -  H2 - Unsafe for small vehicles
 -  H3 - Unsafe for vehicles, children and the elderly
 -  H4 - Unsafe for people and vehicles
 -  H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
 -  H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000

FIGURE 4F
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT

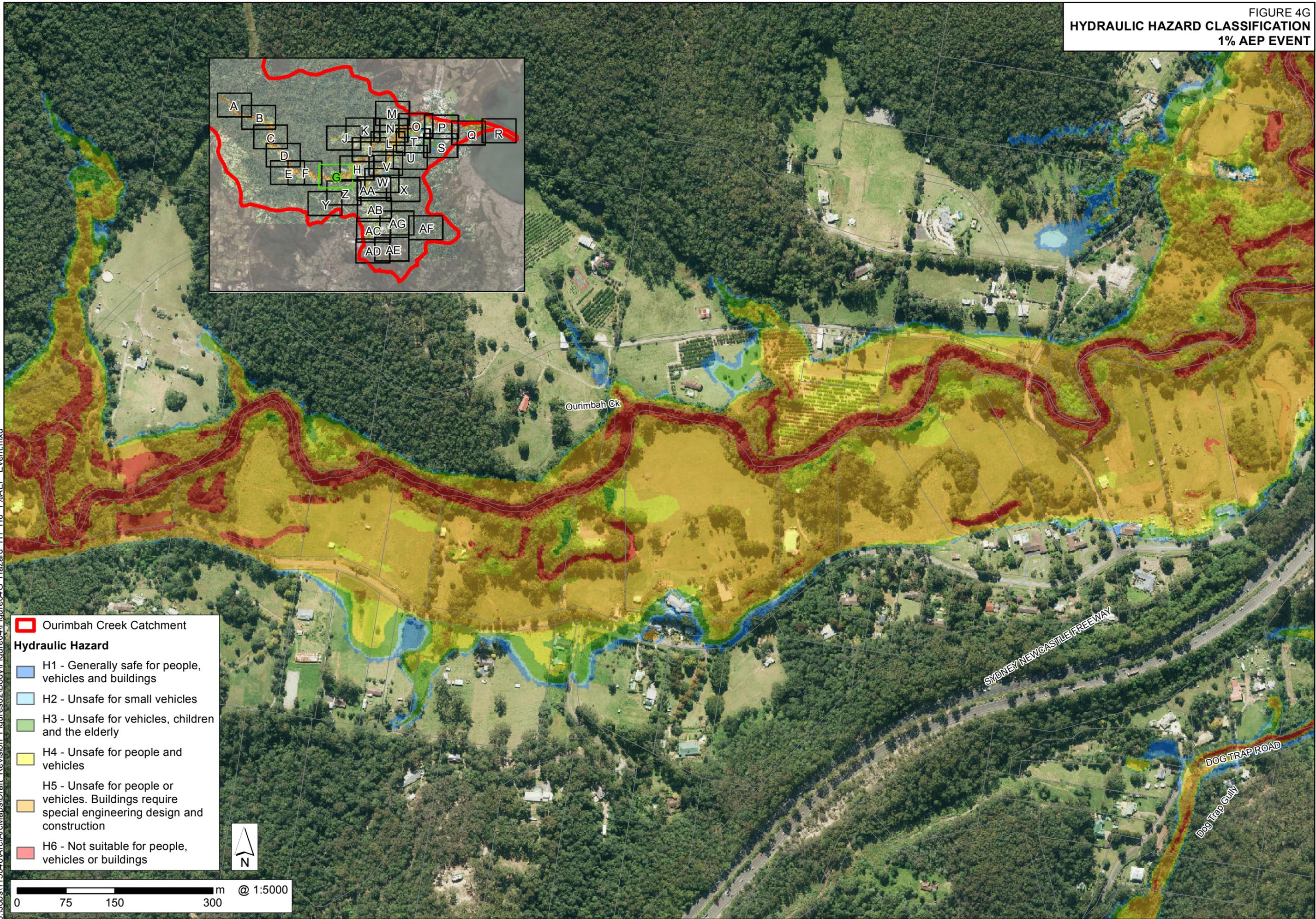
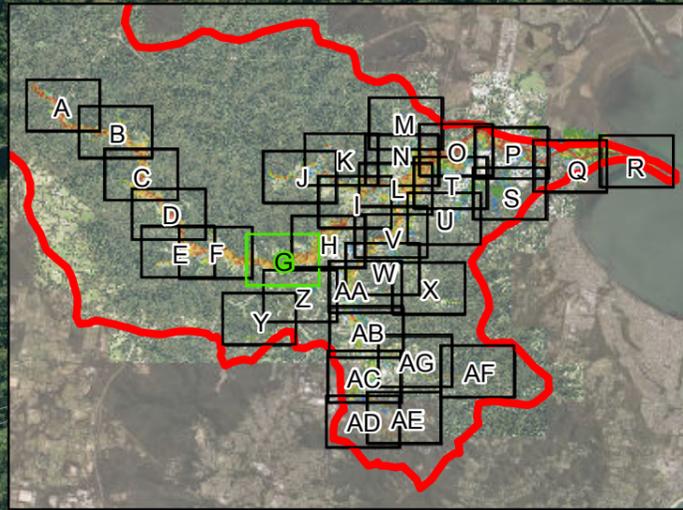


- ▭ Ourimbah Creek Catchment
- Hydraulic Hazard**
- ▭ H1 - Generally safe for people, vehicles and buildings
- ▭ H2 - Unsafe for small vehicles
- ▭ H3 - Unsafe for vehicles, children and the elderly
- ▭ H4 - Unsafe for people and vehicles
- ▭ H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- ▭ H6 - Not suitable for people, vehicles or buildings



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FIGURE 4G
HYDRAULIC HAZARD CLASSIFICATION
 1% AEP EVENT



- ▭ Ourimbah Creek Catchment
- Hydraulic Hazard**
- ▭ H1 - Generally safe for people, vehicles and buildings
- ▭ H2 - Unsafe for small vehicles
- ▭ H3 - Unsafe for vehicles, children and the elderly
- ▭ H4 - Unsafe for people and vehicles
- ▭ H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- ▭ H6 - Not suitable for people, vehicles or buildings



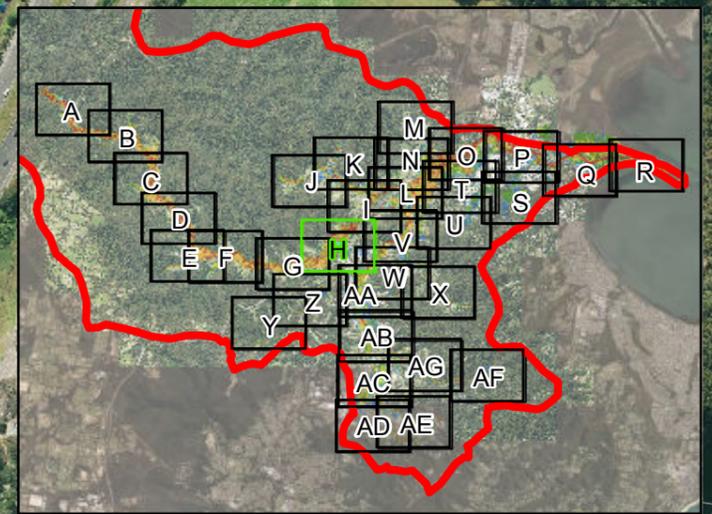
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0 75 150 300 m @ 1:5000

FIGURE 4H
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT

- Ourimbah Creek
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings



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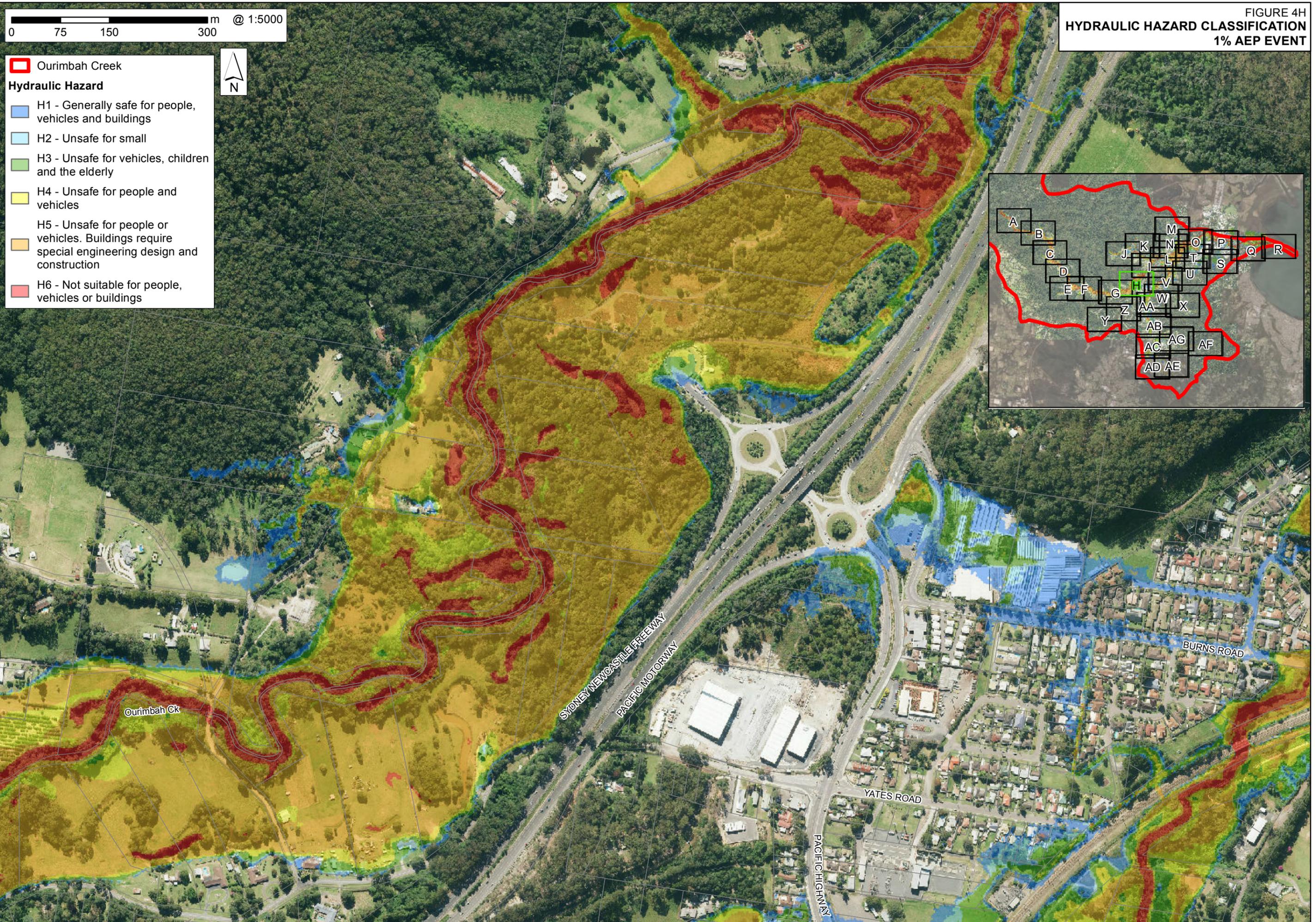
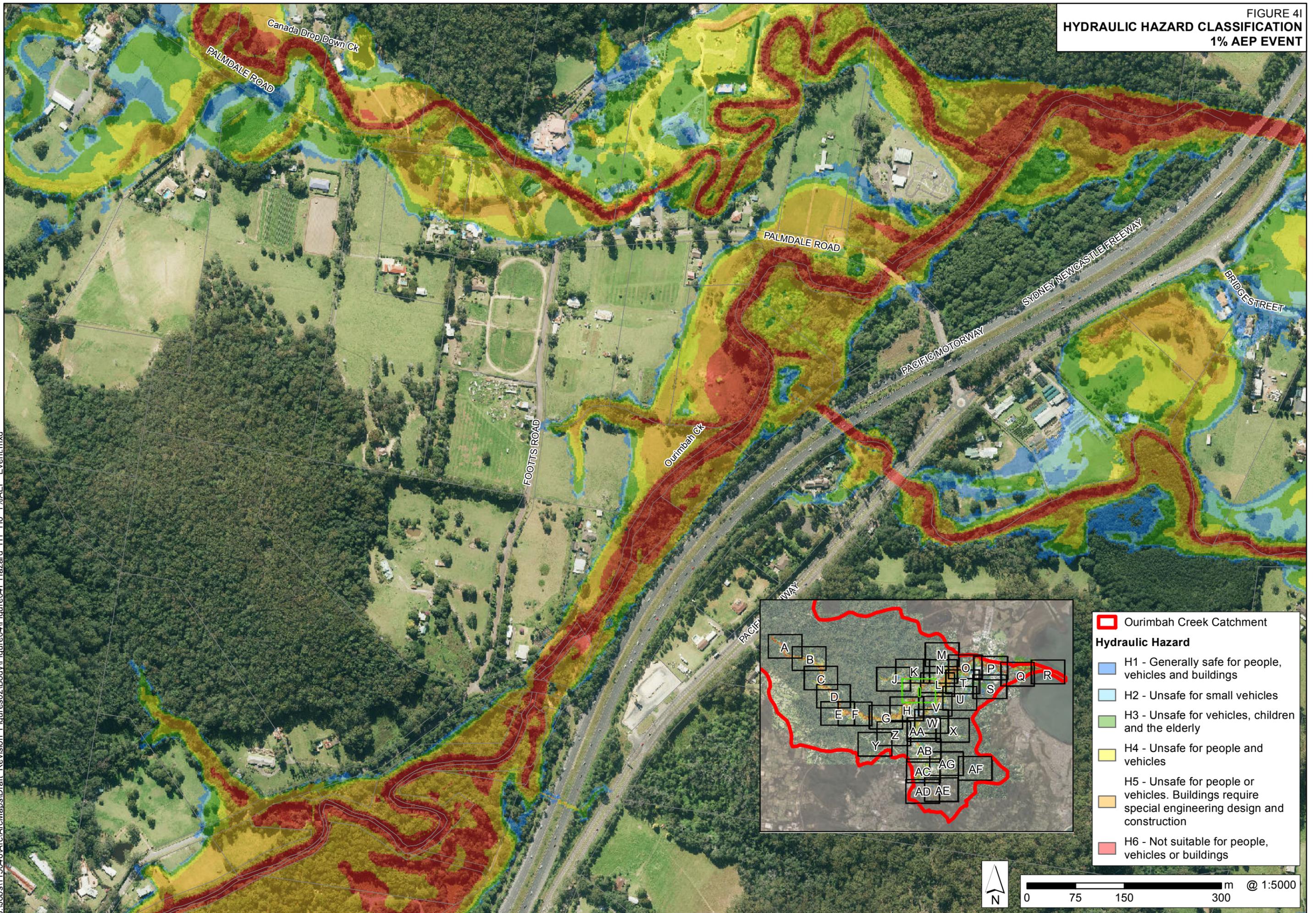


FIGURE 41
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



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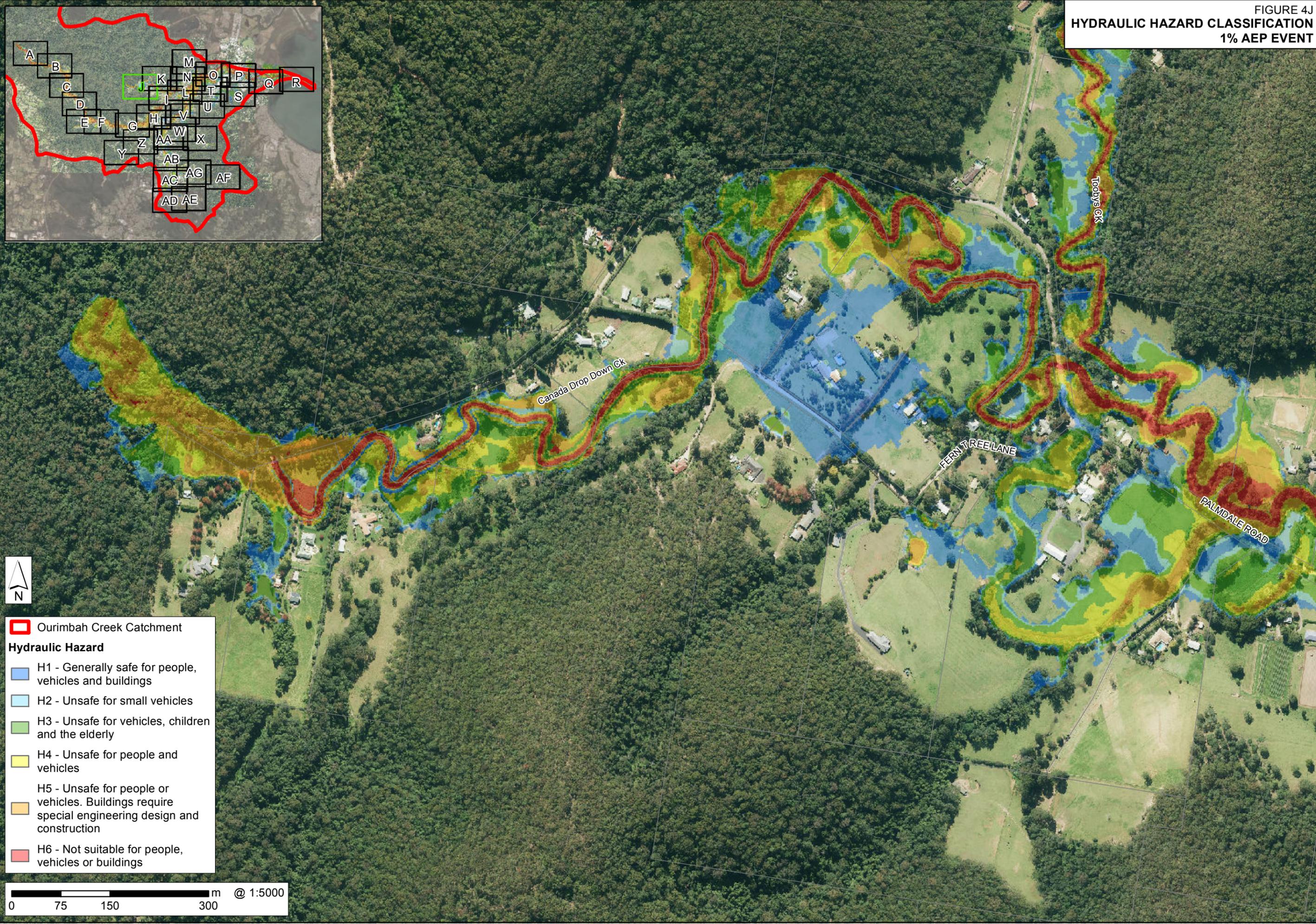
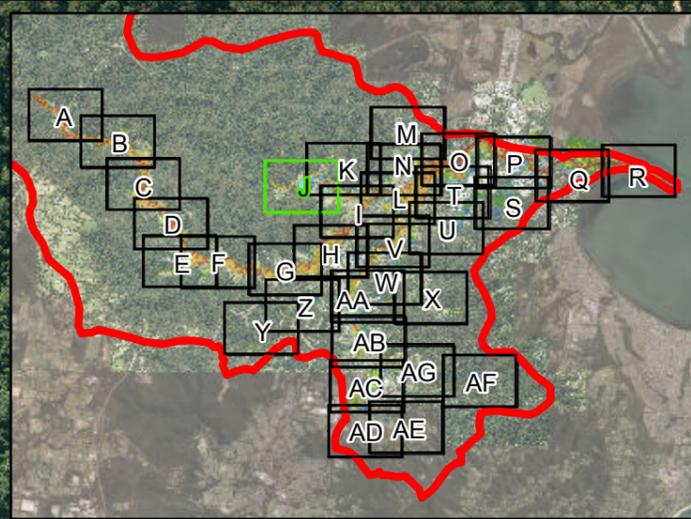
Ourimbah Creek Catchment

Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings



FIGURE 4J
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



-  Ourimbah Creek Catchment
- Hydraulic Hazard**
-  H1 - Generally safe for people, vehicles and buildings
 -  H2 - Unsafe for small vehicles
 -  H3 - Unsafe for vehicles, children and the elderly
 -  H4 - Unsafe for people and vehicles
 -  H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
 -  H6 - Not suitable for people, vehicles or buildings

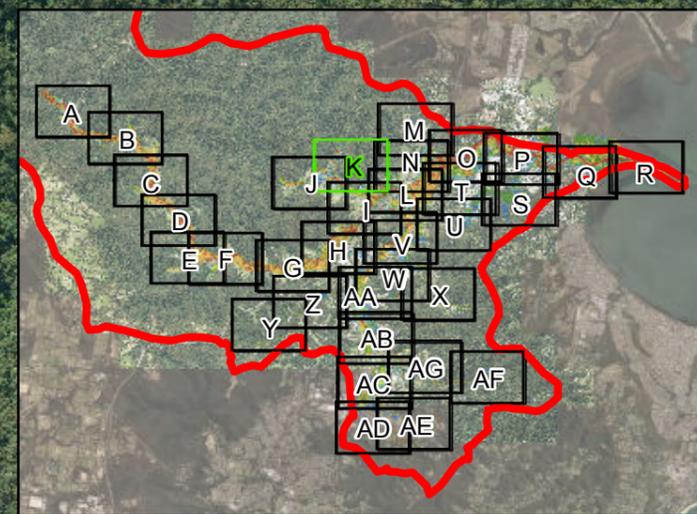


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HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



- Ourimbah Creek Catchment
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and the elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
 - H6 - Not suitable for people, vehicles or buildings



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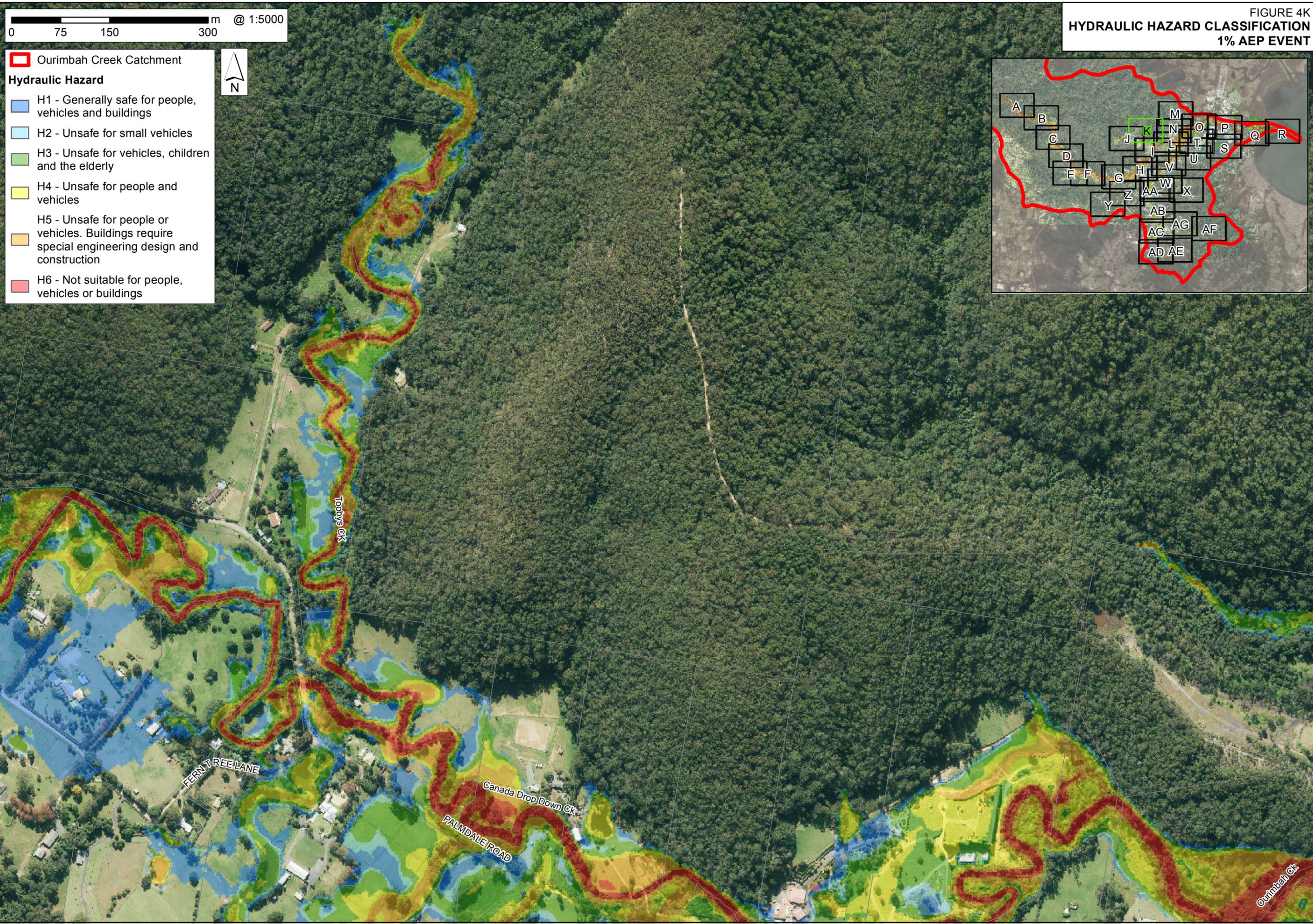
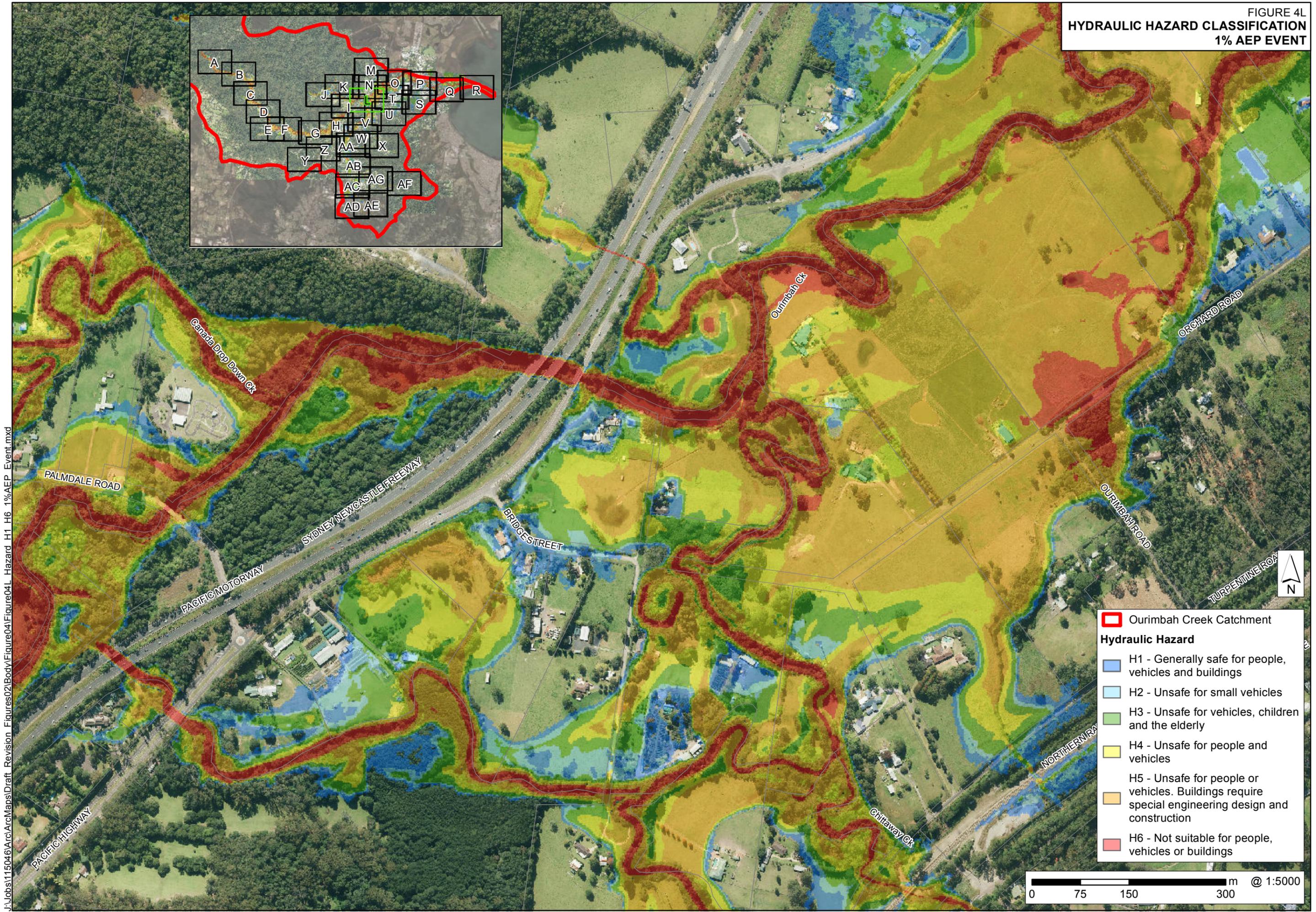


FIGURE 4L
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



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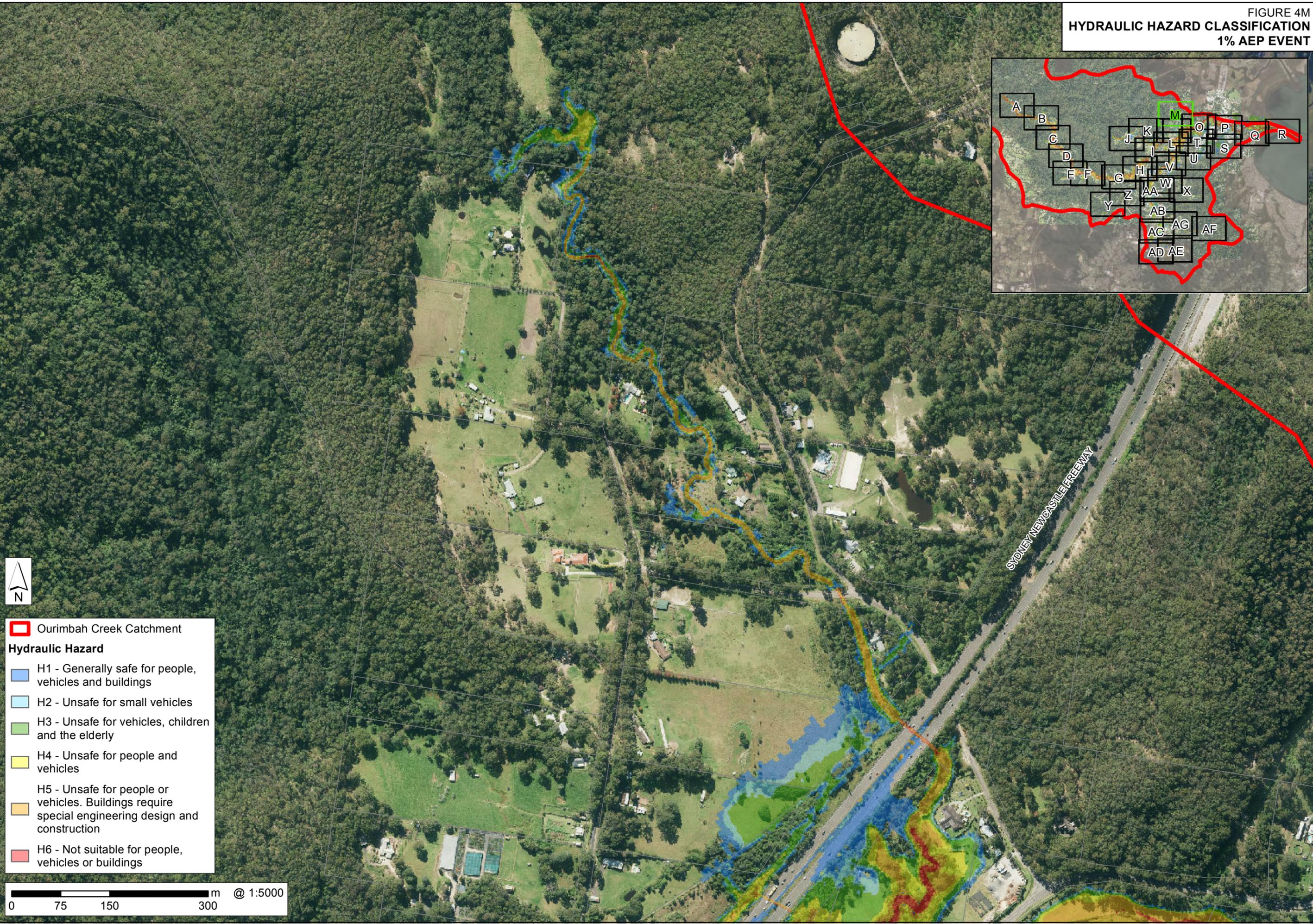
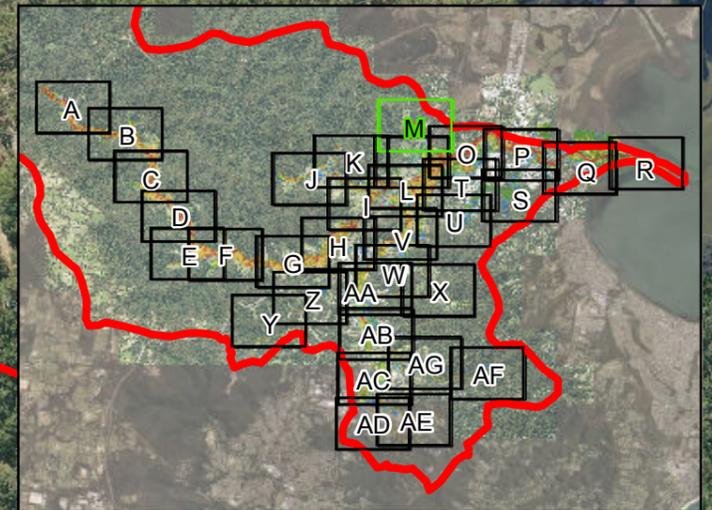
Ourimbah Creek Catchment

Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings



FIGURE 4M
HYDRAULIC HAZARD CLASSIFICATION
 1% AEP EVENT



- Ourimbah Creek Catchment
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings

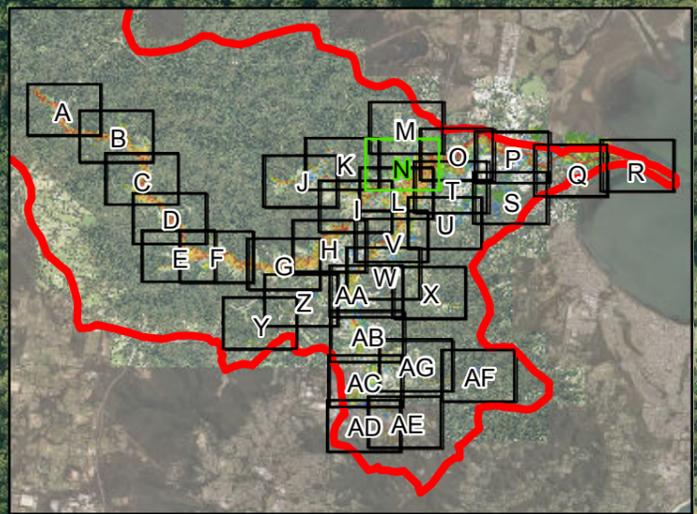


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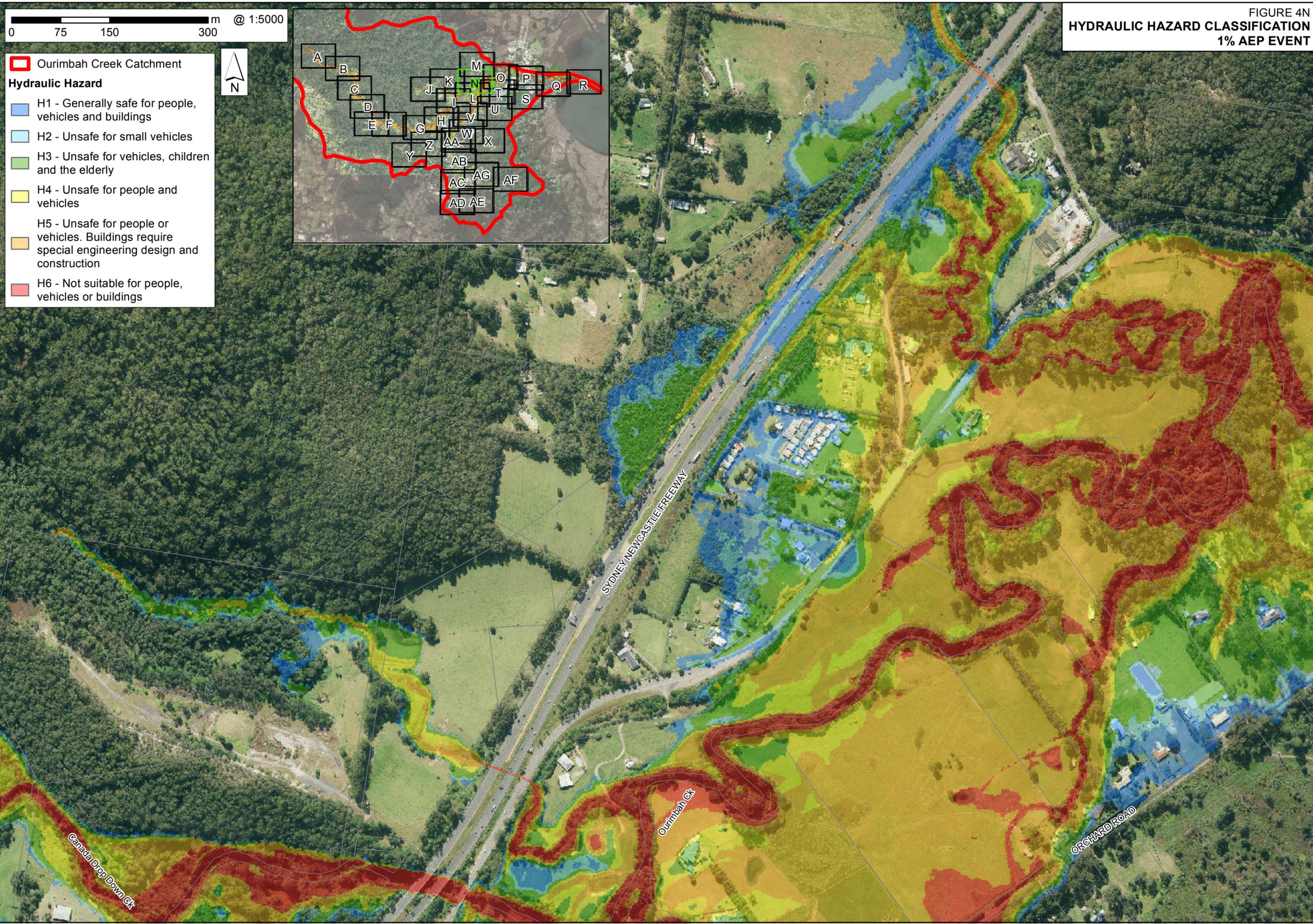
FIGURE 4N
HYDRAULIC HAZARD CLASSIFICATION
 1% AEP EVENT

0 75 150 300 m @ 1:5000

- Ourimbah Creek Catchment**
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and the elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
 - H6 - Not suitable for people, vehicles or buildings



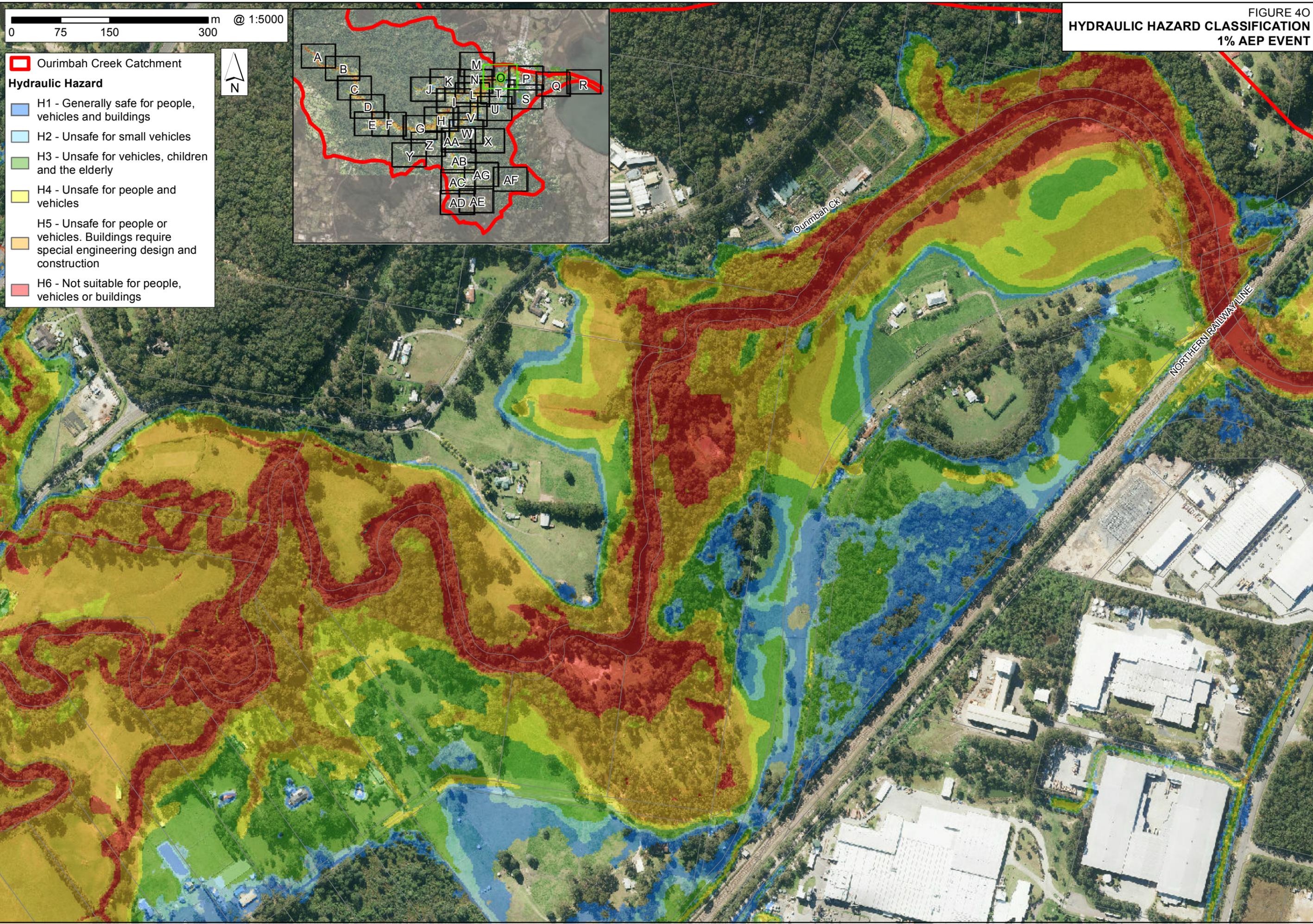
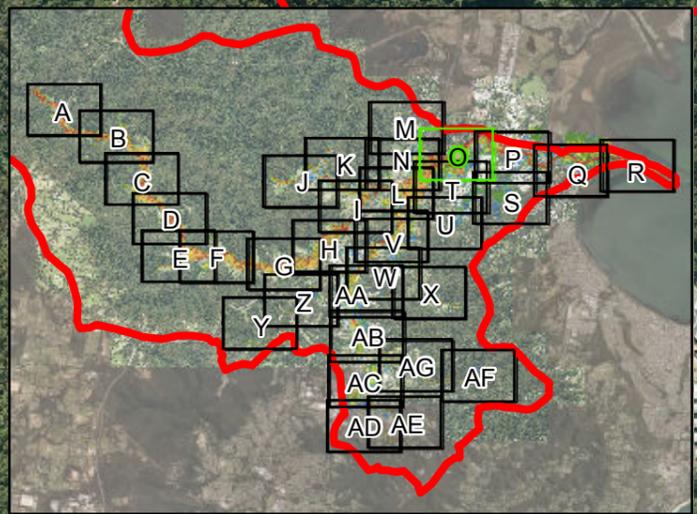
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**HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT**

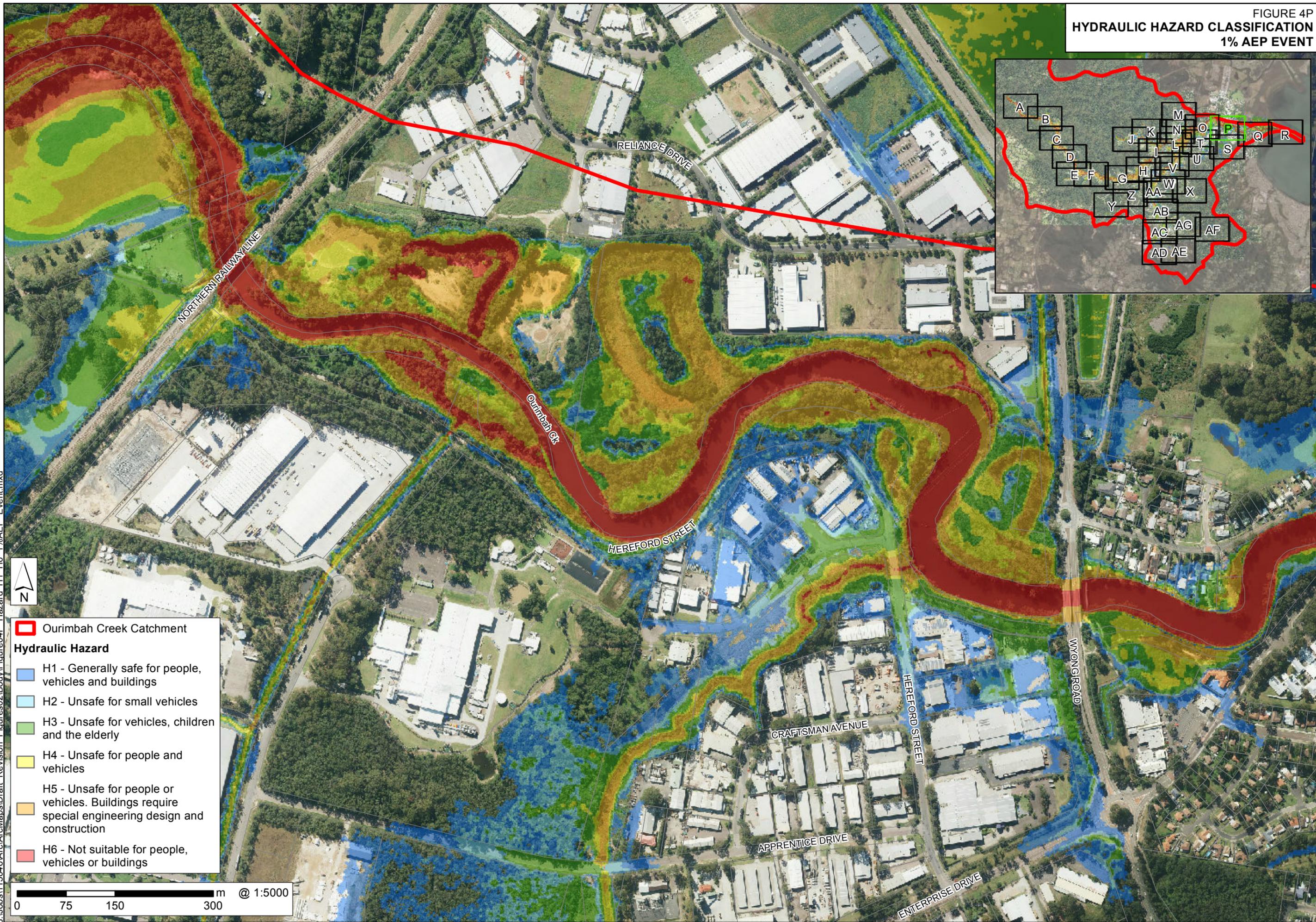
0 75 150 300 m @ 1:5000

- Ourimbah Creek Catchment
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings



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FIGURE 4P
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



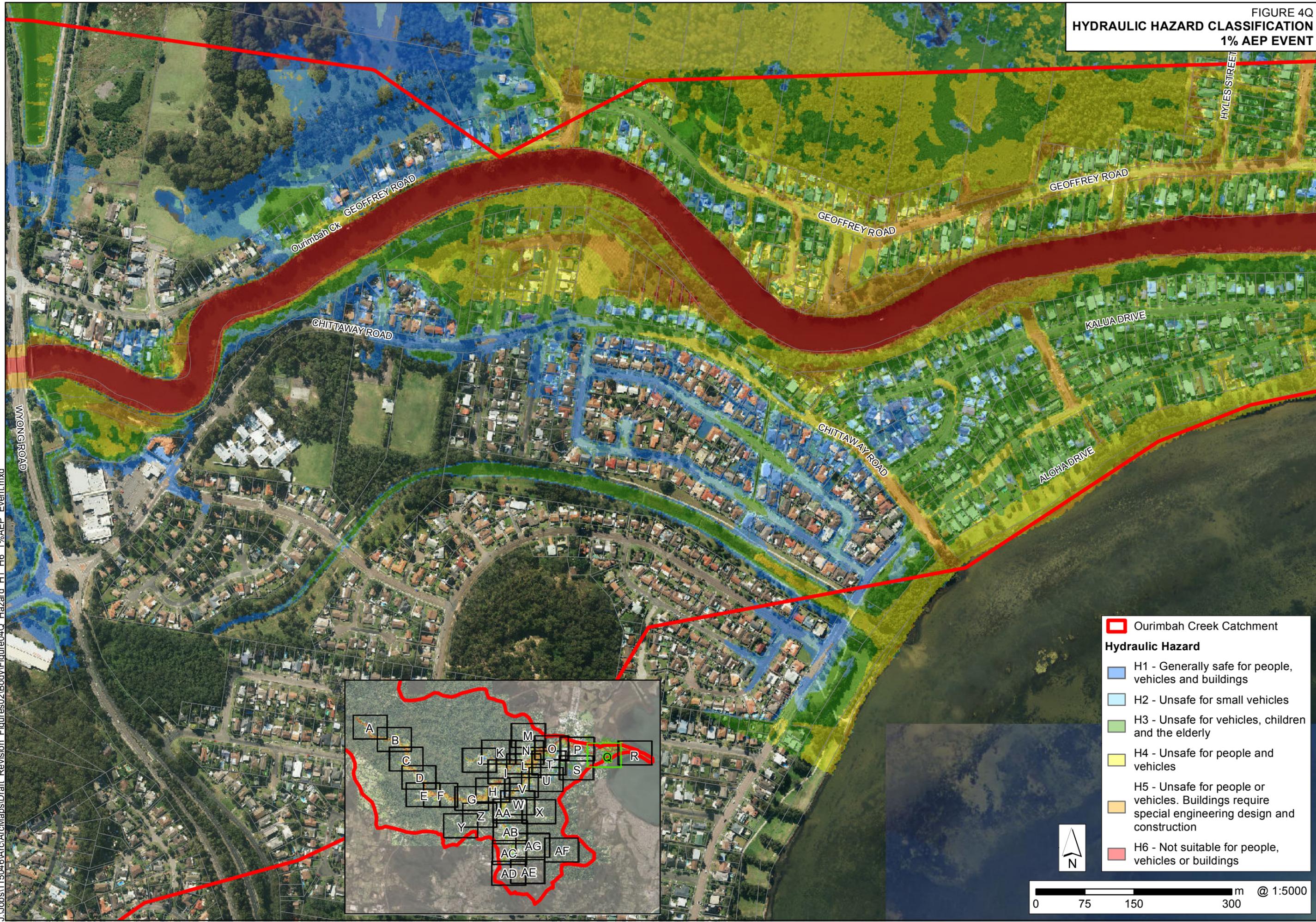
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- ▭ Ourimbah Creek Catchment
- Hydraulic Hazard**
- ▭ H1 - Generally safe for people, vehicles and buildings
- ▭ H2 - Unsafe for small vehicles
- ▭ H3 - Unsafe for vehicles, children and the elderly
- ▭ H4 - Unsafe for people and vehicles
- ▭ H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- ▭ H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000

FIGURE 4Q
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



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Ourimbah Creek Catchment

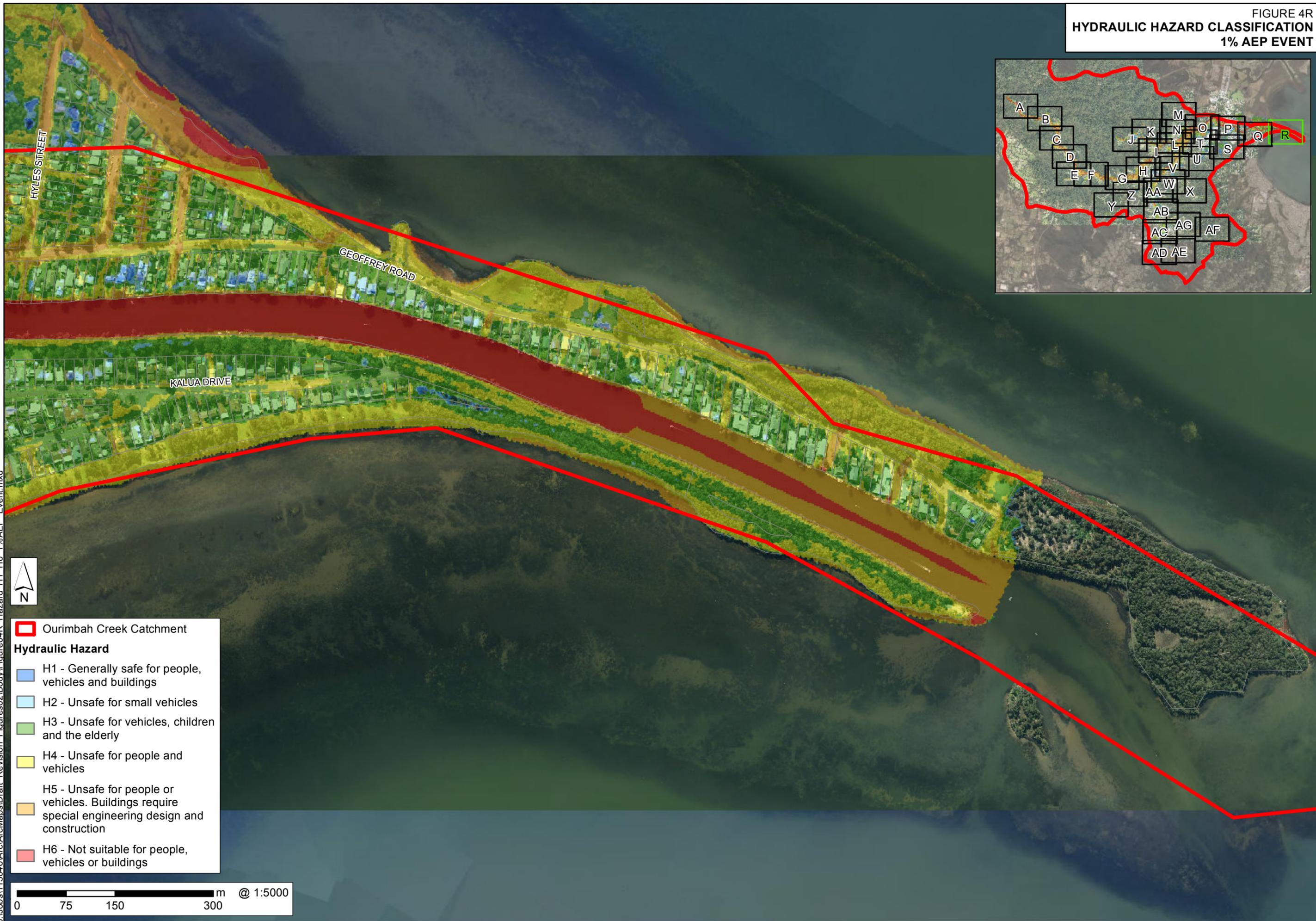
Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings



0 75 150 300 m @ 1:5000

FIGURE 4R
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



Ourimbah Creek Catchment

Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000

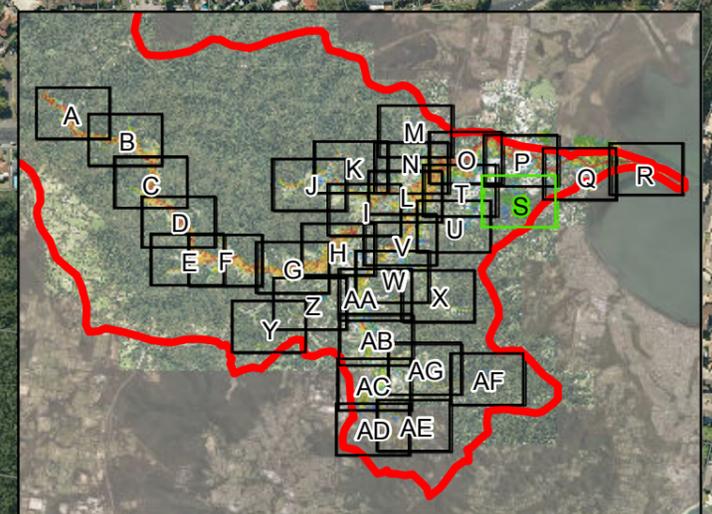
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FIGURE 4S
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



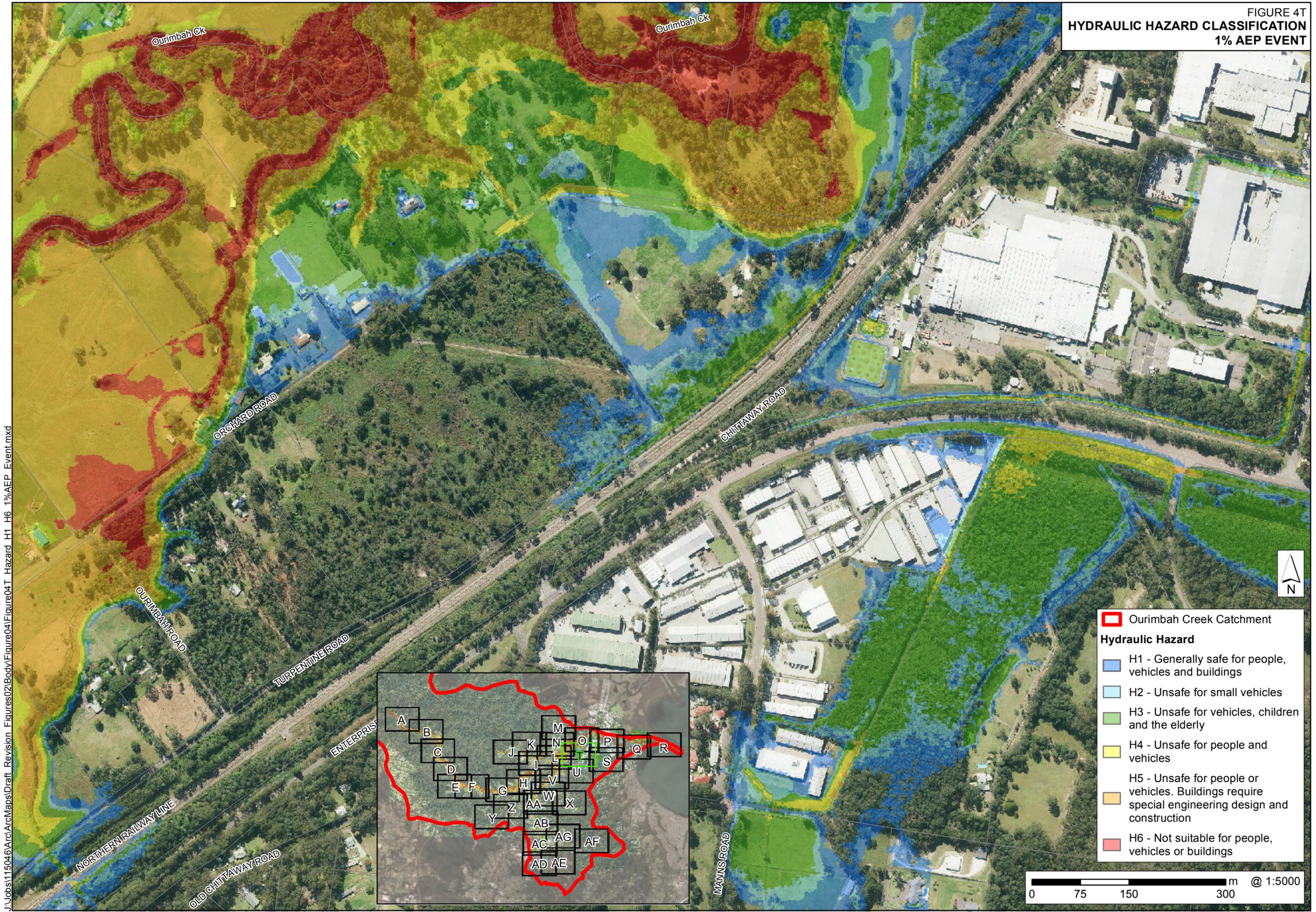
- Ourimbah Creek Catchment
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000



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FIGURE 4T
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT

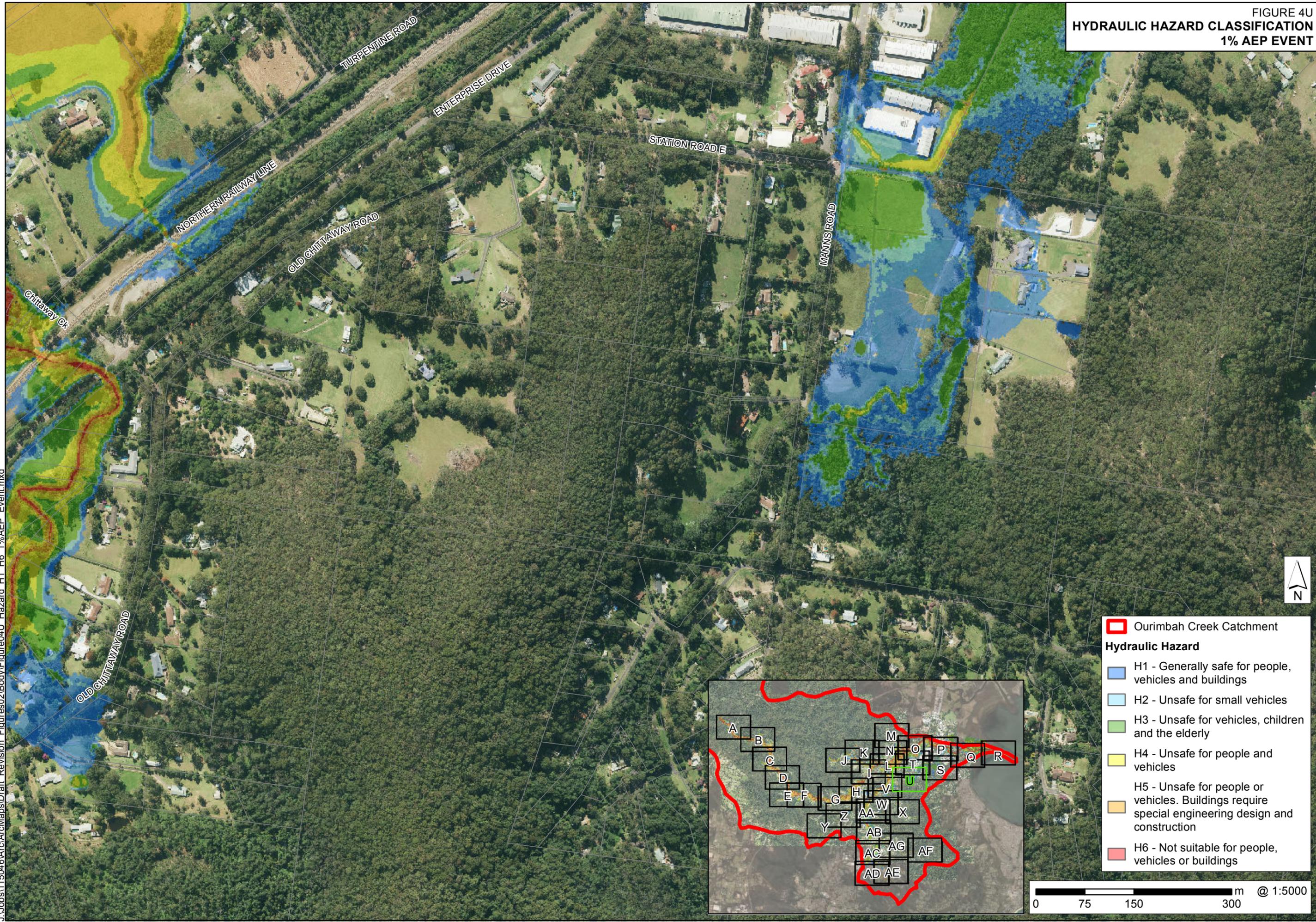


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- ▭ Ourimbah Creek Catchment
- Hydraulic Hazard**
- ▭ H1 - Generally safe for people, vehicles and buildings
- ▭ H2 - Unsafe for small vehicles
- ▭ H3 - Unsafe for vehicles, children and the elderly
- ▭ H4 - Unsafe for people and vehicles
- ▭ H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- ▭ H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000

FIGURE 4U
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



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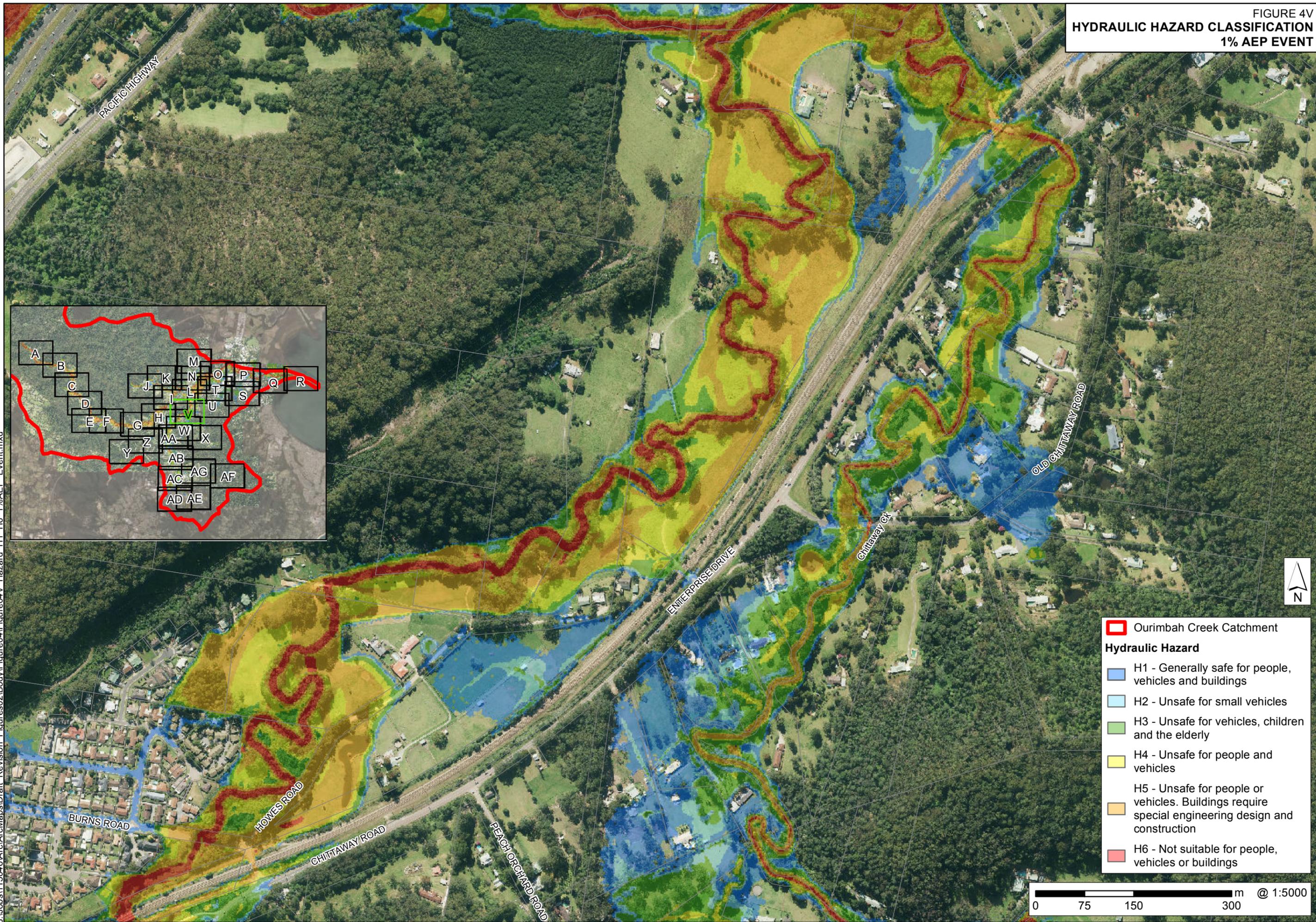
Ourimbah Creek Catchment

Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000

FIGURE 4V
HYDRAULIC HAZARD CLASSIFICATION
 1% AEP EVENT



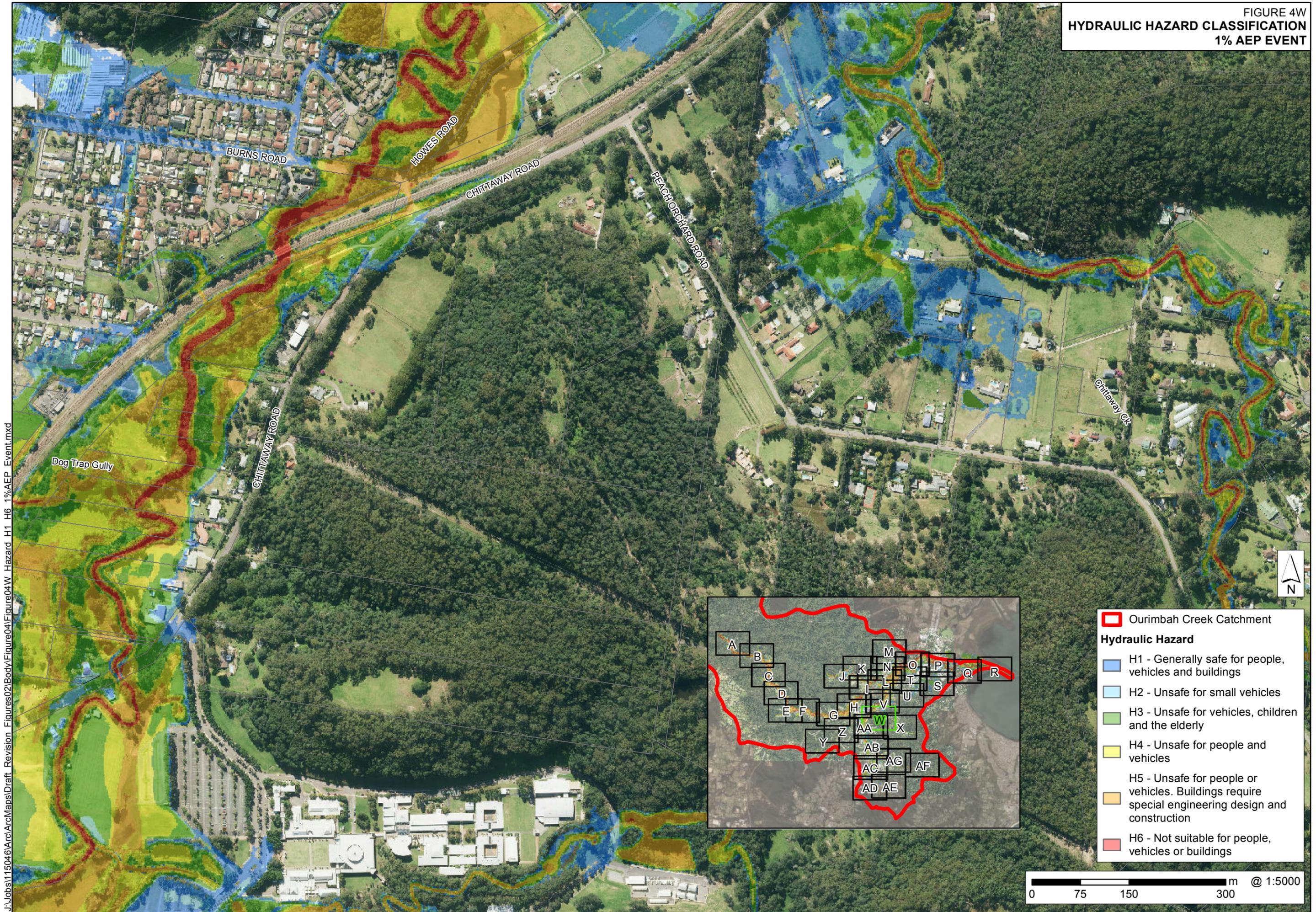
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- ▭ Ourimbah Creek Catchment
- Hydraulic Hazard**
- ▭ H1 - Generally safe for people, vehicles and buildings
- ▭ H2 - Unsafe for small vehicles
- ▭ H3 - Unsafe for vehicles, children and the elderly
- ▭ H4 - Unsafe for people and vehicles
- ▭ H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- ▭ H6 - Not suitable for people, vehicles or buildings



FIGURE 4W
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



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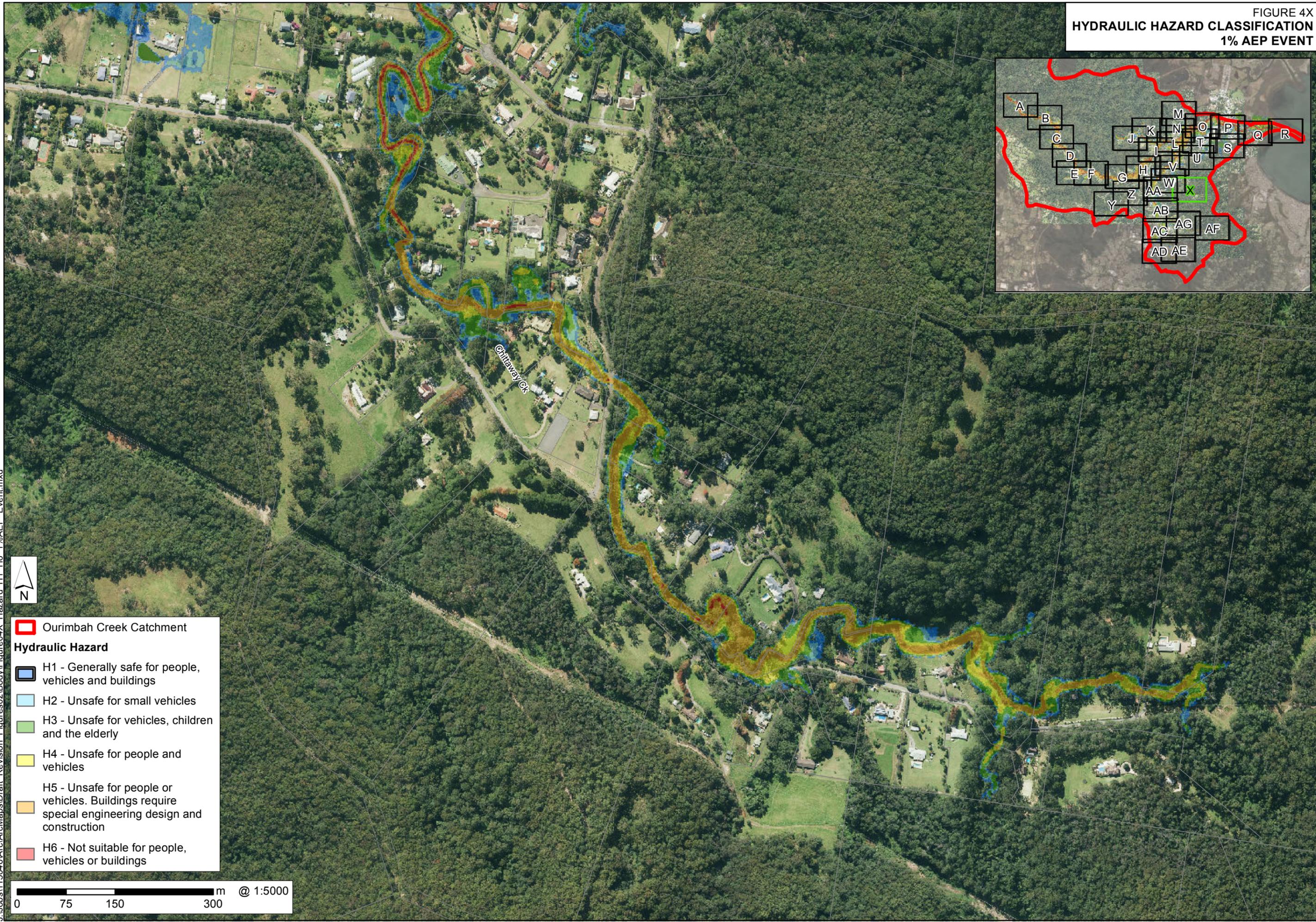
Ourimbah Creek Catchment

Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000

FIGURE 4X
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT

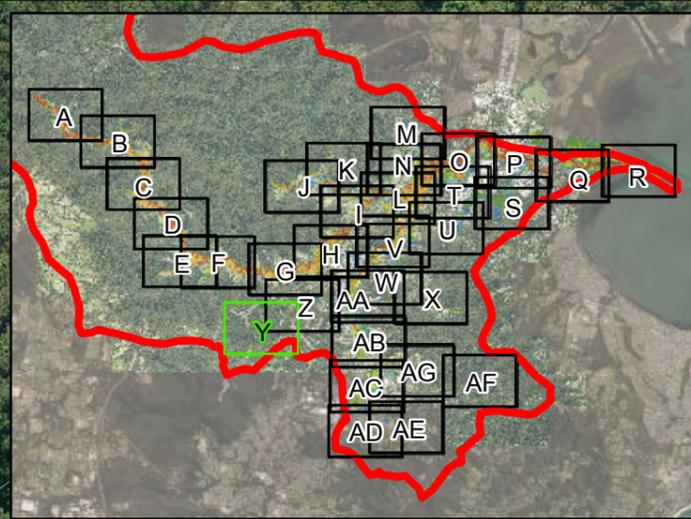


- Ourimbah Creek Catchment
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000

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FIGURE 4Y
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT

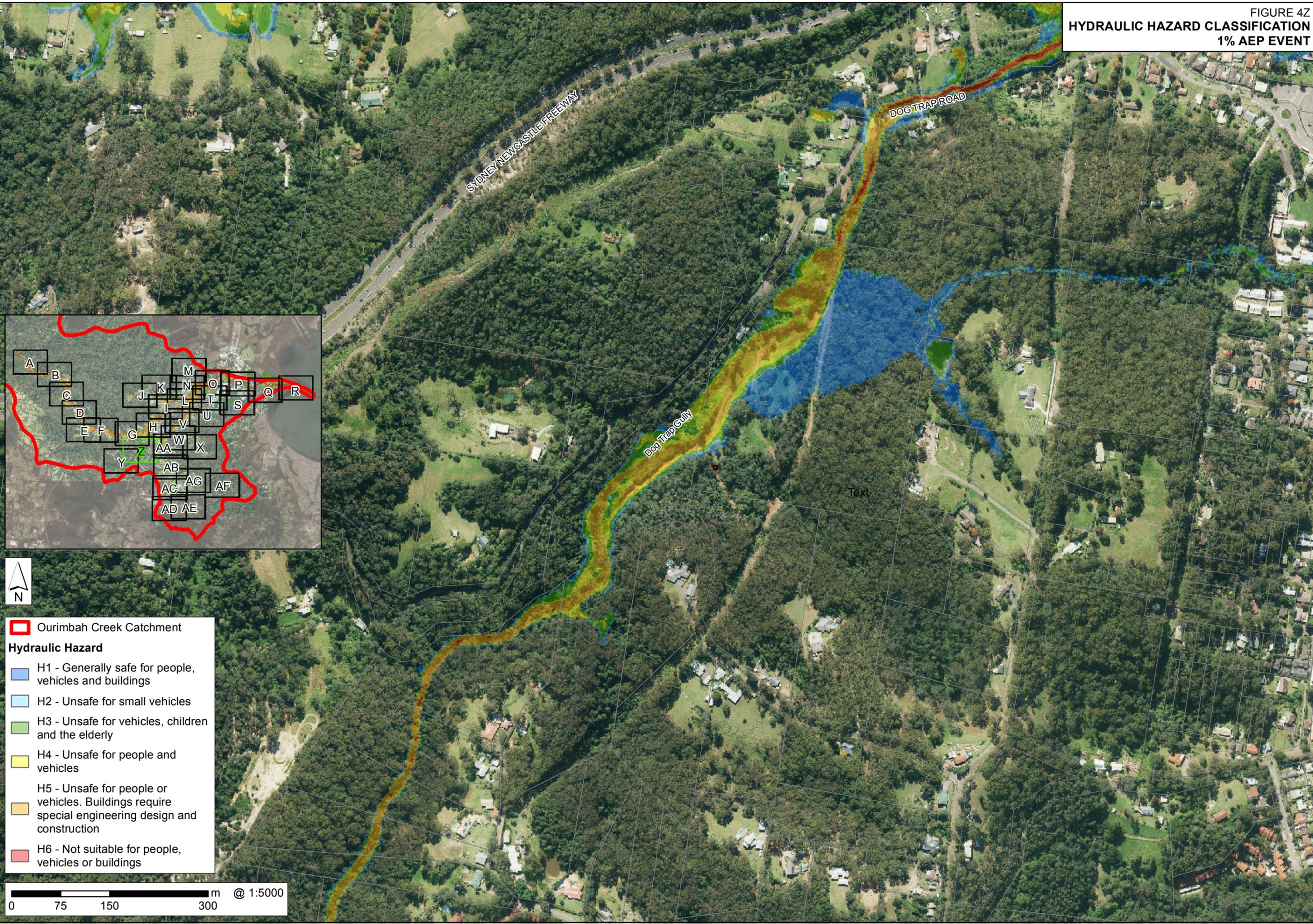


- Ourimbah Creek Catchment
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings

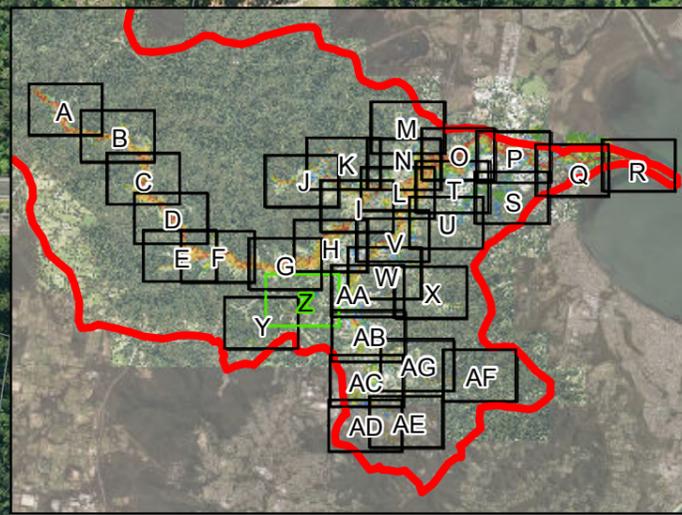


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FIGURE 4Z
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



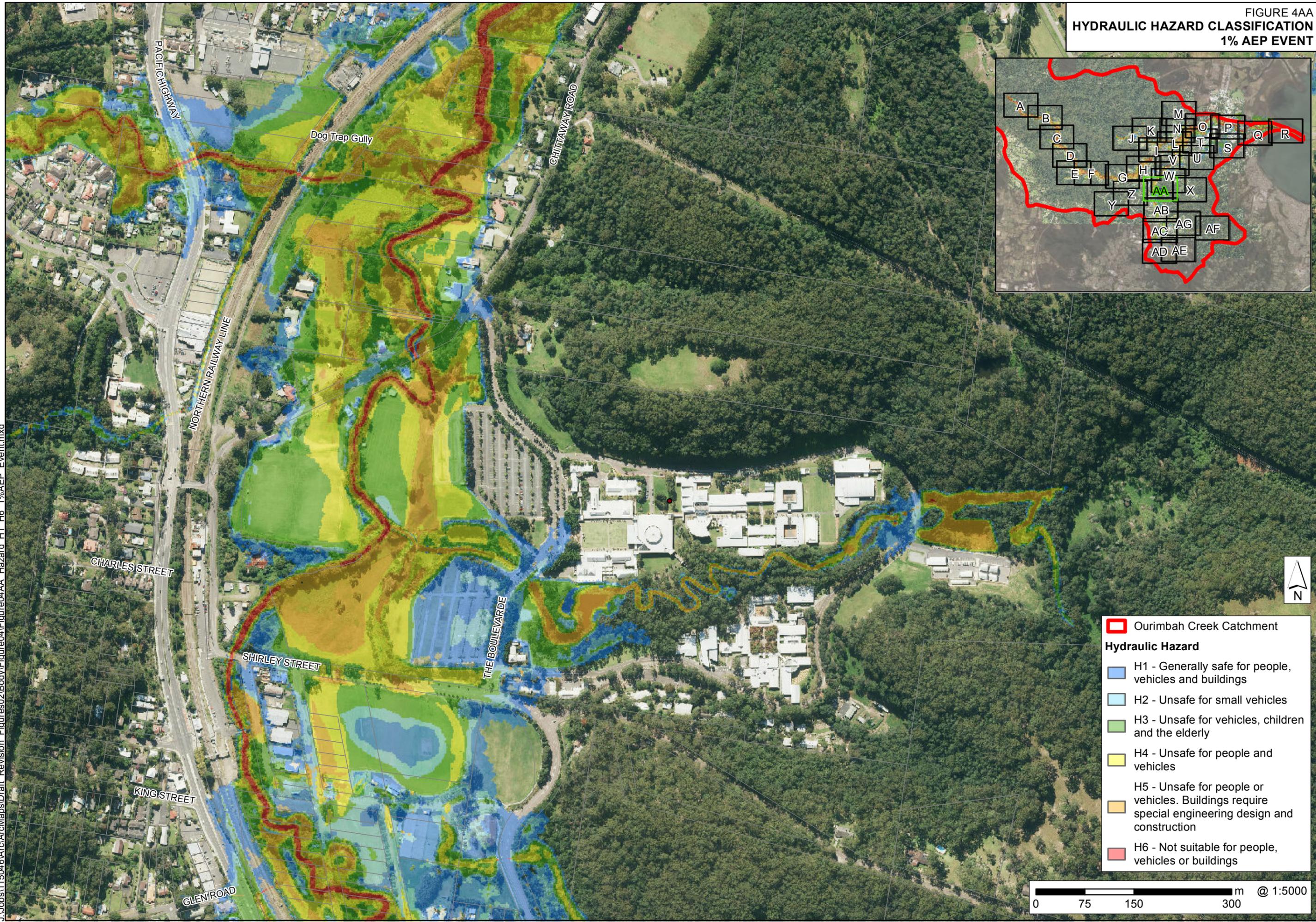
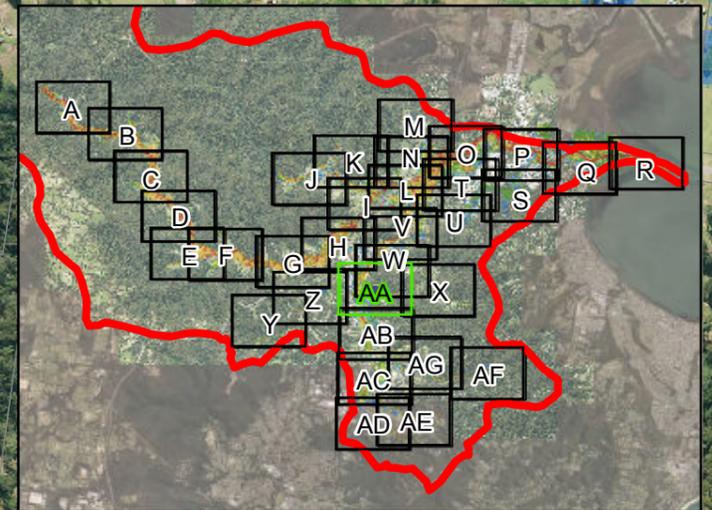
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- Ourimbah Creek Catchment
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings



FIGURE 4AA
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



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Ourimbah Creek Catchment

Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings



PACIFIC HIGHWAY

Dog Trap Gully

CHITTAWAY ROAD

NORTHERN RAILWAY LINE

CHARLES STREET

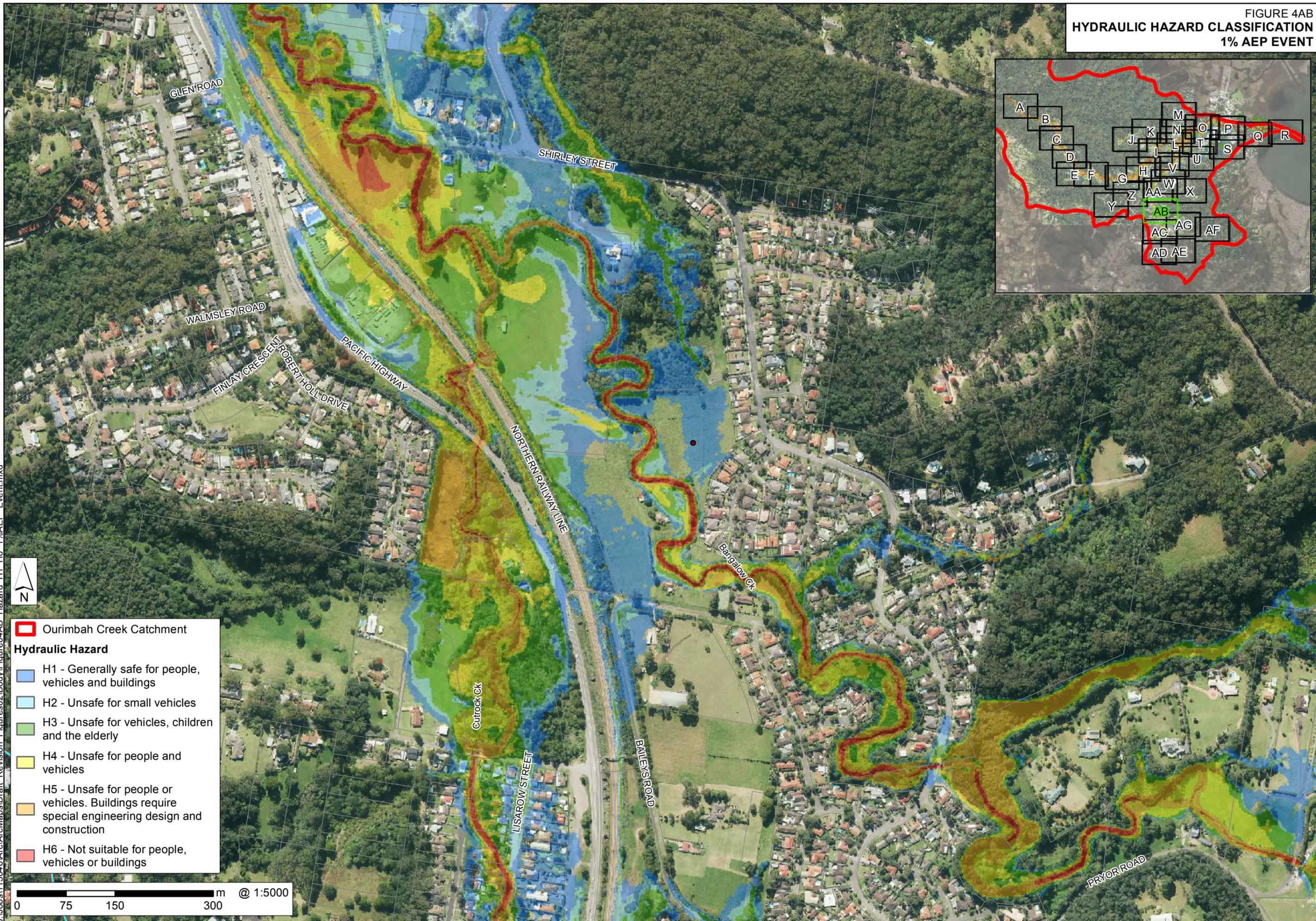
SHIRLEY STREET

THE BOULEVARDE

KING STREET

GLEN ROAD

FIGURE 4AB
 HYDRAULIC HAZARD CLASSIFICATION
 1% AEP EVENT

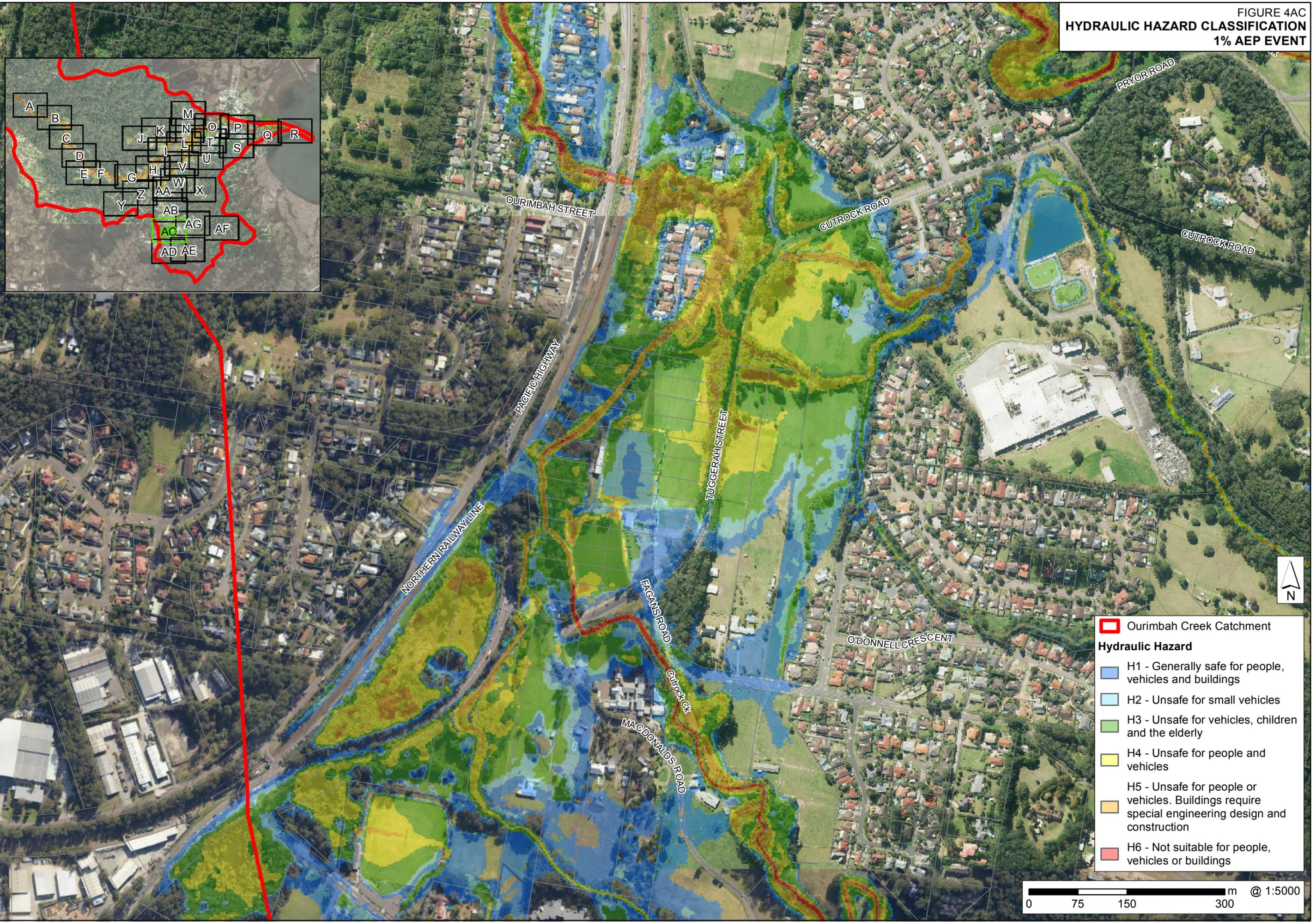
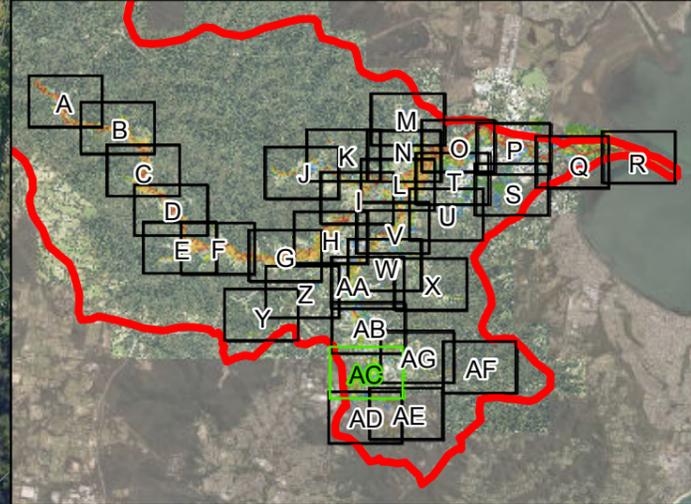


- Ourimbah Creek Catchment
- Hydraulic Hazard**
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000

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FIGURE 4AC
HYDRAULIC HAZARD CLASSIFICATION
 1% AEP EVENT



Ourimbah Creek Catchment

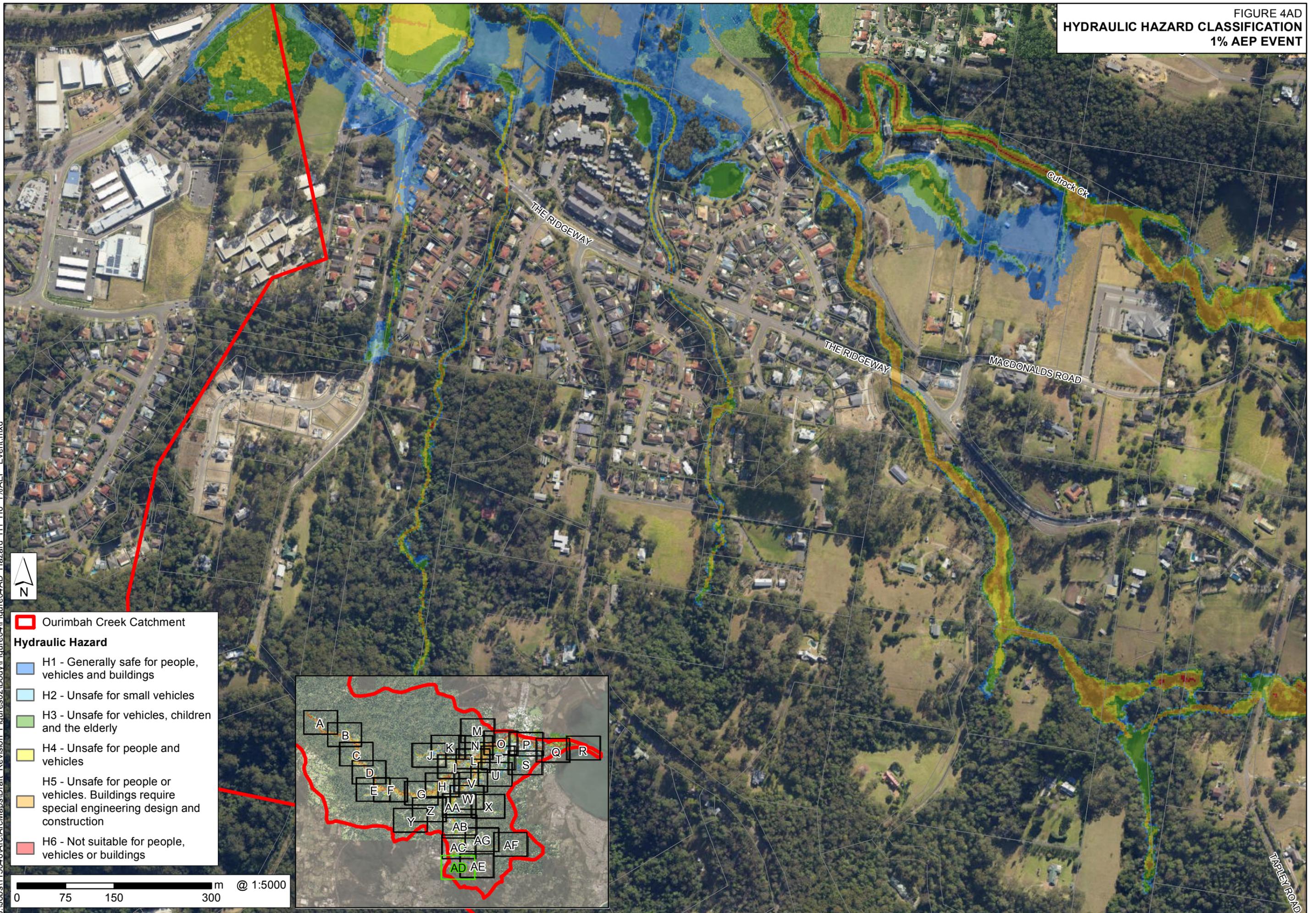
Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings



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FIGURE 4AD
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



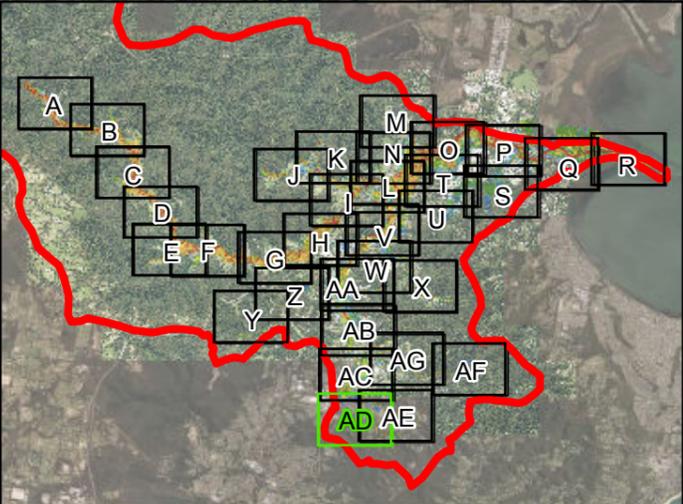
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Ourimbah Creek Catchment

Hydraulic Hazard

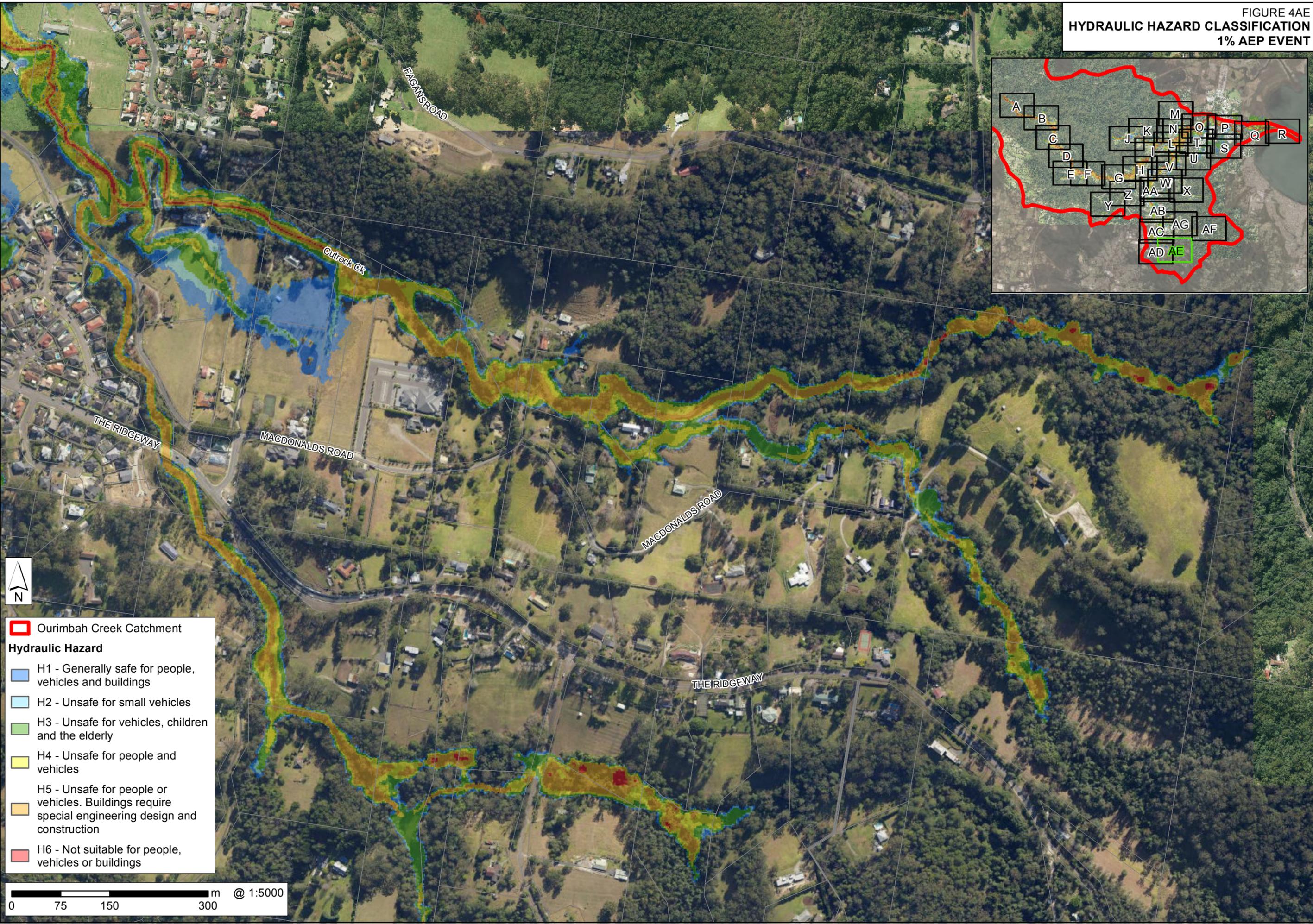
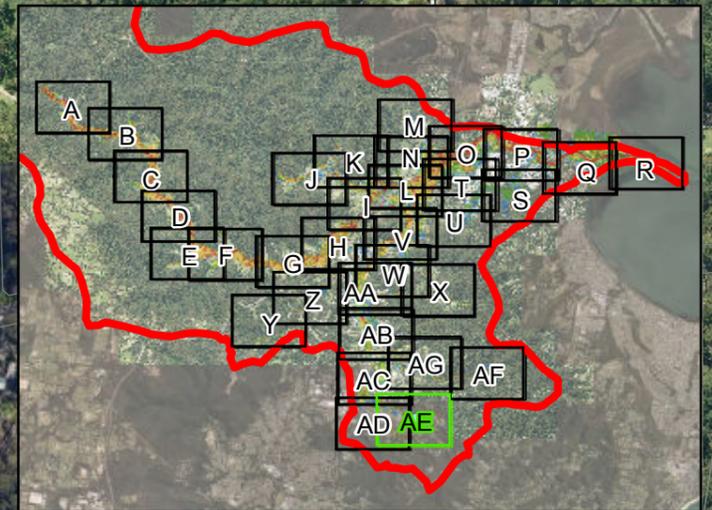
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings

0 75 150 300 m @ 1:5000



TRILEY ROAD

FIGURE 4AE
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



Ourimbah Creek Catchment

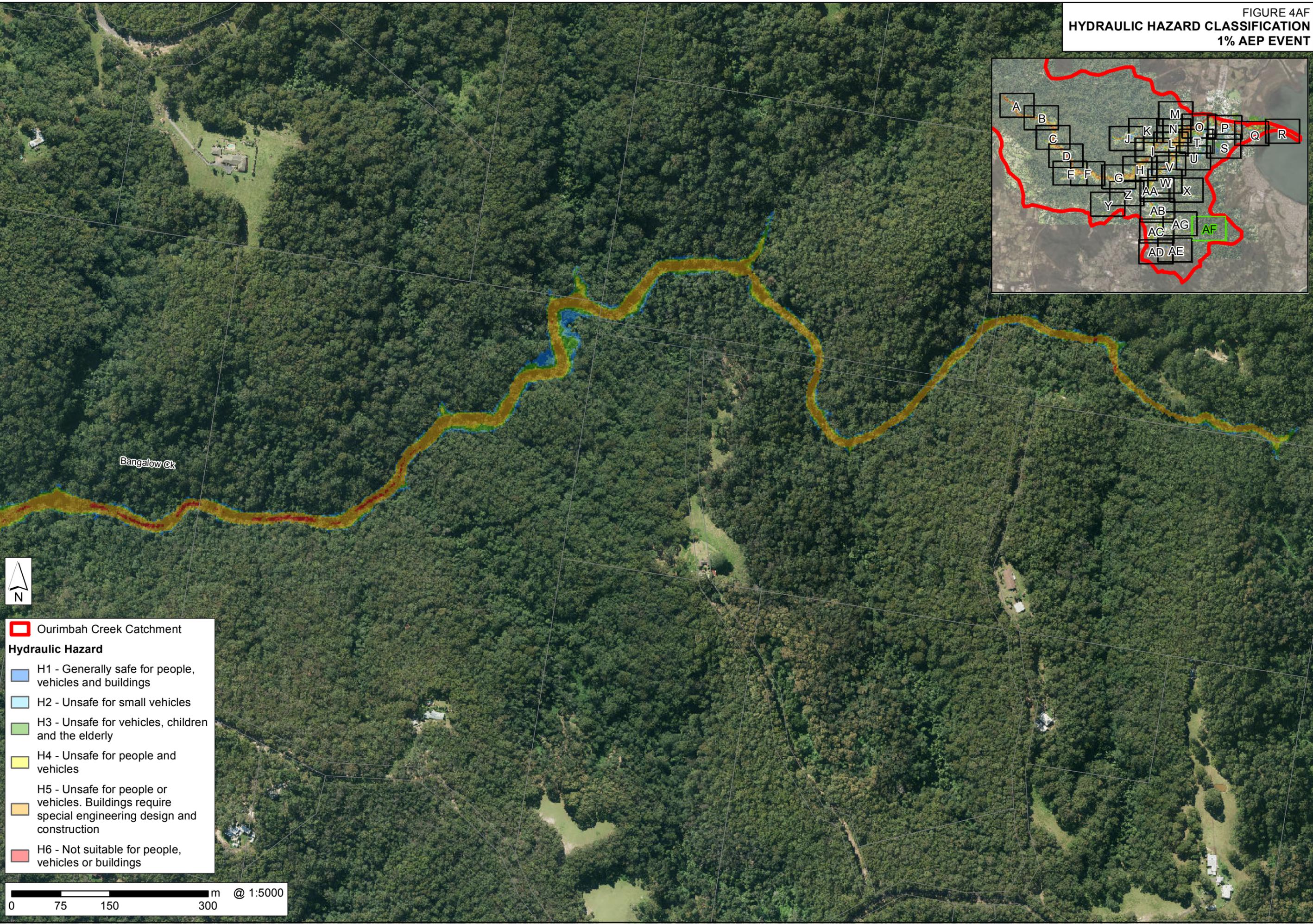
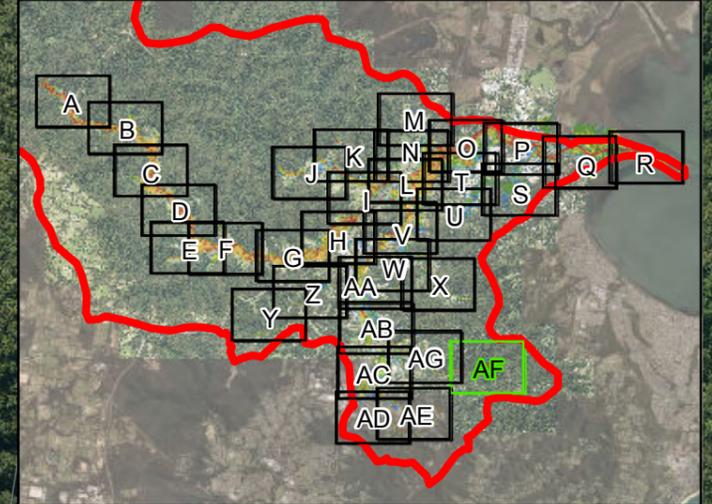
Hydraulic Hazard

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
- H6 - Not suitable for people, vehicles or buildings



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FIGURE 4AF
HYDRAULIC HAZARD CLASSIFICATION
1% AEP EVENT



Bangalow Ck

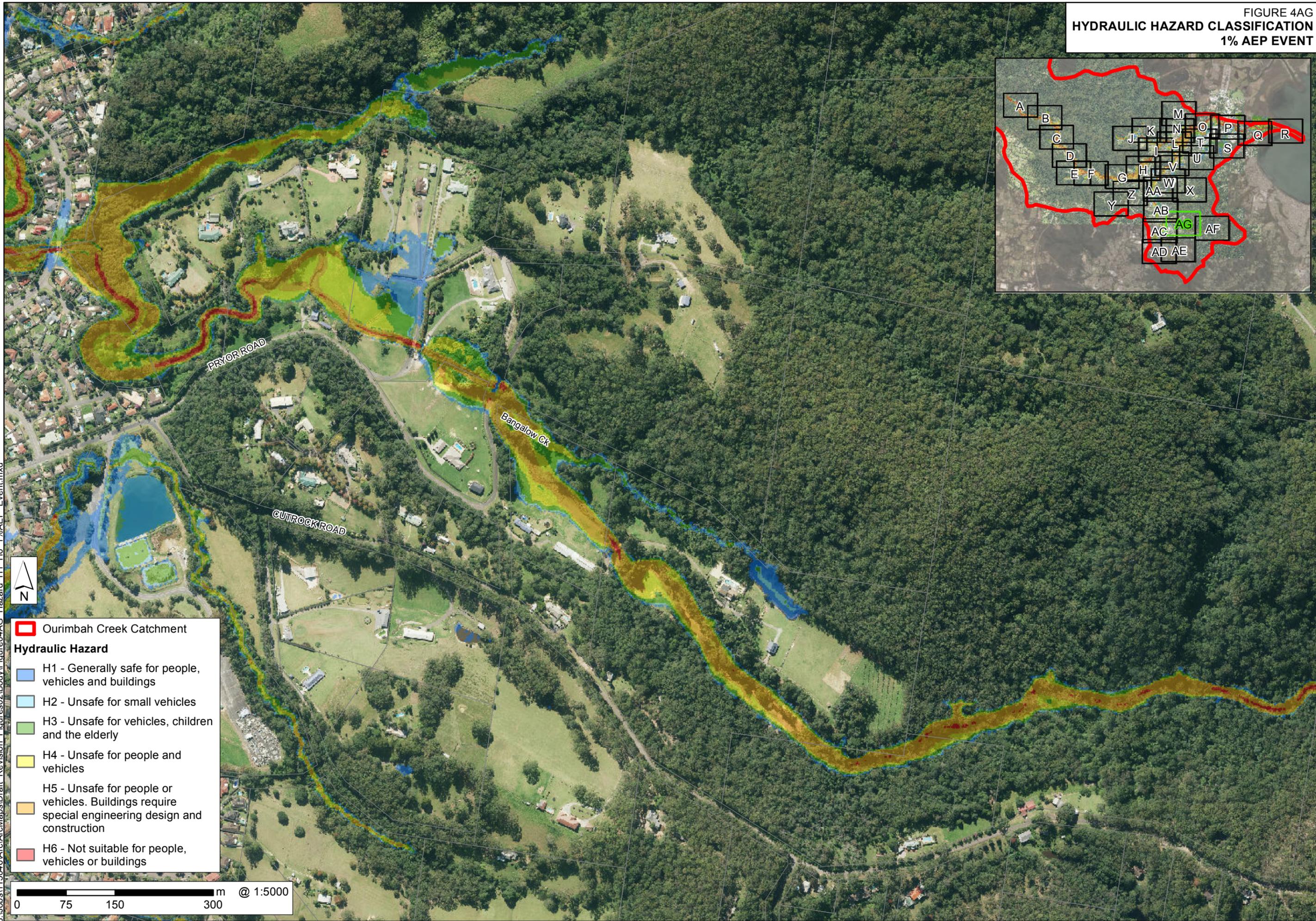
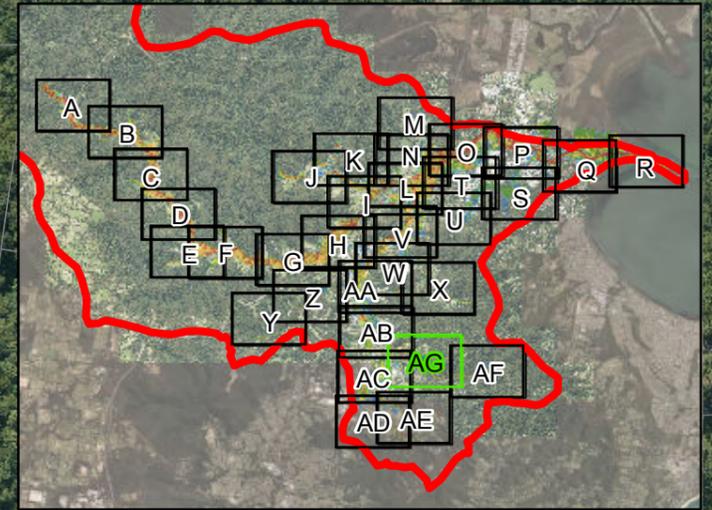


-  Ourimbah Creek Catchment
- Hydraulic Hazard**
-  H1 - Generally safe for people, vehicles and buildings
-  H2 - Unsafe for small vehicles
-  H3 - Unsafe for vehicles, children and the elderly
-  H4 - Unsafe for people and vehicles
-  H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
-  H6 - Not suitable for people, vehicles or buildings



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FIGURE 4AG
HYDRAULIC HAZARD CLASSIFICATION
 1% AEP EVENT



-  Ourimbah Creek Catchment
- Hydraulic Hazard**
-  H1 - Generally safe for people, vehicles and buildings
-  H2 - Unsafe for small vehicles
-  H3 - Unsafe for vehicles, children and the elderly
-  H4 - Unsafe for people and vehicles
-  H5 - Unsafe for people or vehicles. Buildings require special engineering design and construction
-  H6 - Not suitable for people, vehicles or buildings



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