

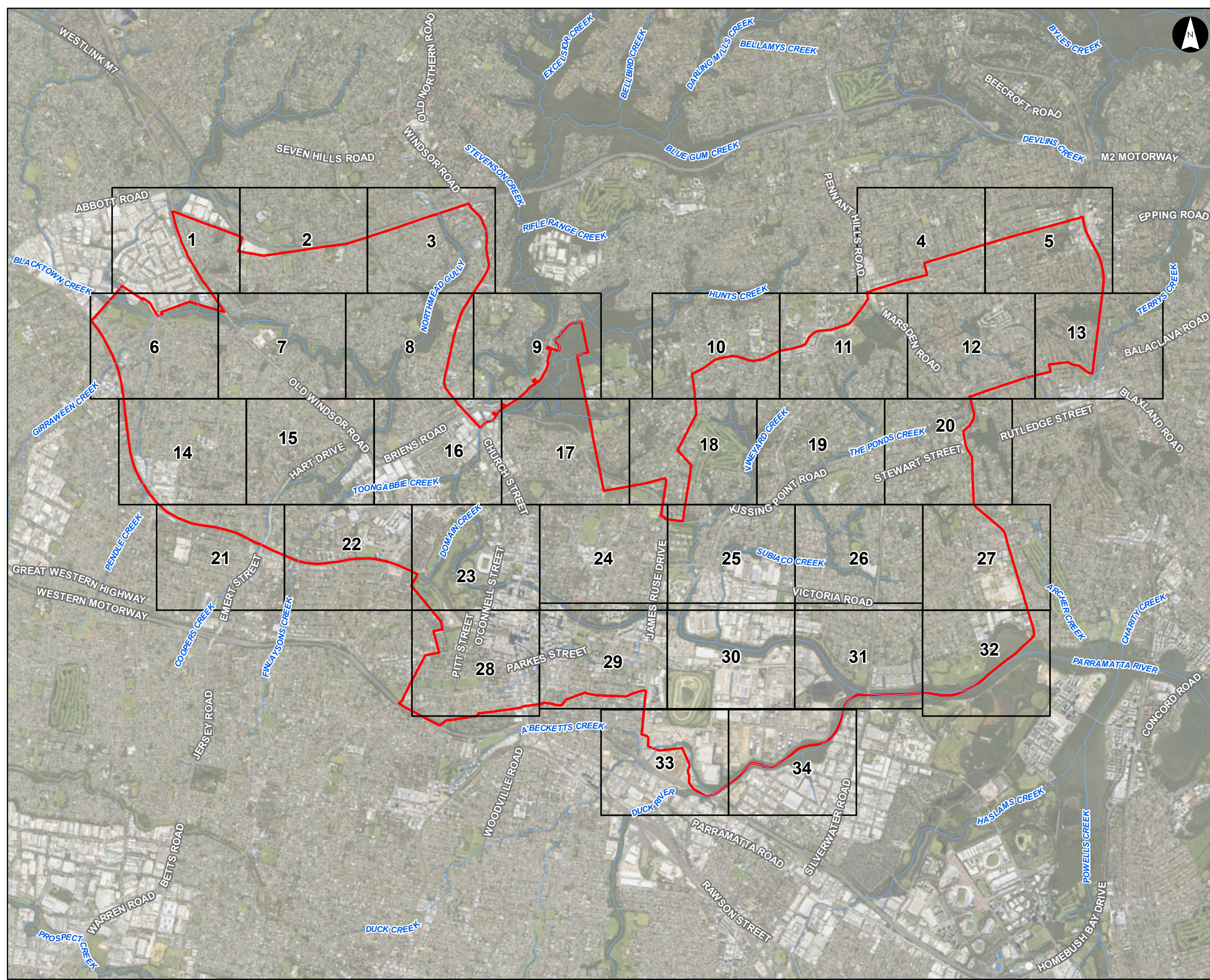
APPENDIX

# M

SENSITIVITY ANALYSIS

DRAFT - FOR PUBLIC EXHIBITION





**Sensitivity Analysis  
Overview and Figure  
Index Sheet**

Parramatta River Flood Study

Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-068-SensitivityIndex.mxd  
 Rev: 02  
 Date: 2023-05-30

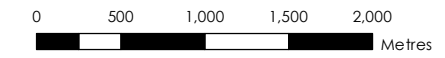
**Legend**

- Study Area
- Watercourse
- Map Grid

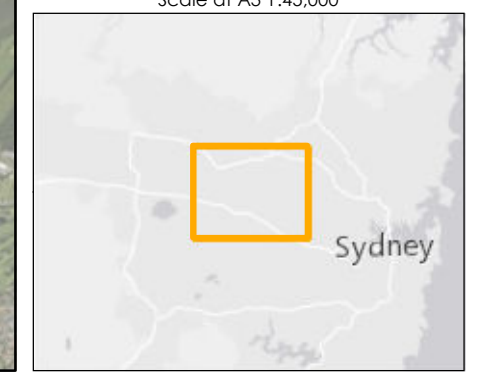
**Figure M1.1**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap



Scale at A3 1:45,000



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Sensitivity Analysis SS1  
 Mannings Roughness +20%  
 FFA 1% AEP Peak Flood  
 Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-054-  
 1p\_SensitivityPlus20\_FLCD\_5k.mxd  
 Rev: 04  
 Date: 2023-06-12

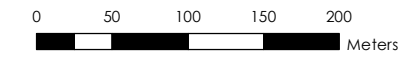
### Legend

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
  - Building Footprint
  - Tufload Model Extent
- MN+20% Flood Depth (m)**
- 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

**Figure M2.1**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000



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Sensitivity Analysis SS1  
Mannings Roughness +20%  
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Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074  
Drawn By: AS  
Map: 59916074-GS-054-  
1p\_SensitivityPlus20\_FLCD\_5k.mxd  
Rev: 04  
Date: 2023-06-12

### Legend

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

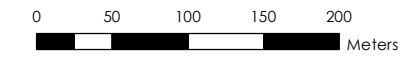
### MN+20% Flood Depth (m)

- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

Figure M2.2

Notes:  
1. Coordinate System: GDA 1994 MGA Zone 56

- References:
1. Base data supplied by NSW SS and Esri
  2. Aerial imagery supplied by MetroMap
  3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000







Sensitivity Analysis SS1  
 Mannings Roughness +20%  
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Parramatta River Flood Study

Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-054-  
 1p\_SensitivityPlus20\_FLCD\_5k.mxd  
 Rev: 04  
 Date: 2023-06-12

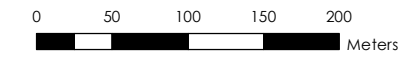
### Legend

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
  - Building Footprint
  - Tuflow Model Extent
- MN+20% Flood Depth (m)**
- 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

**Figure M2.3**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC

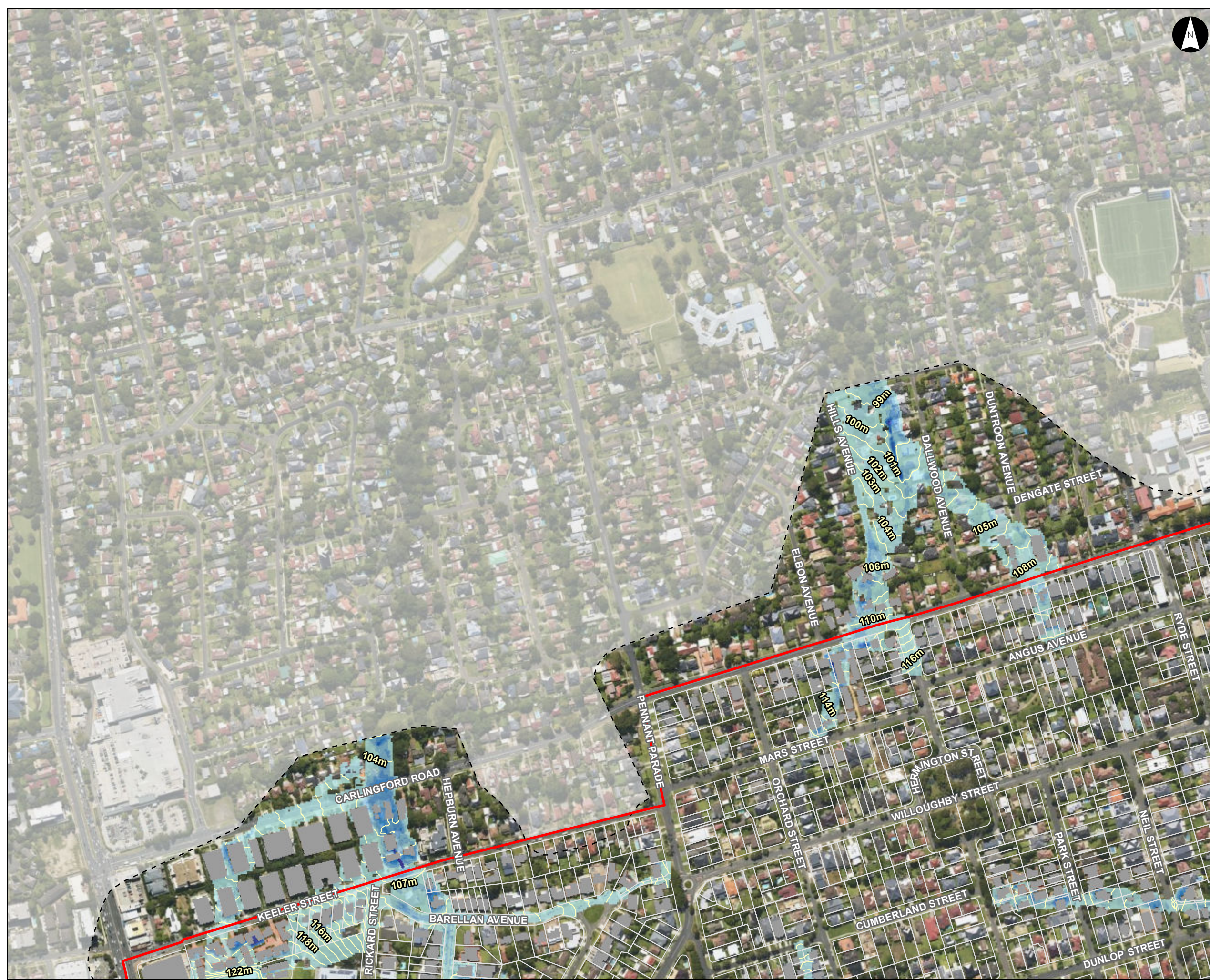


Scale at A3 1:5,000



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Sensitivity Analysis SS1  
Mannings Roughness +20%  
FFA 1% AEP Peak Flood  
Level, Contours and Depths

Parramatta River Flood Study

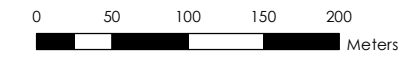
Project Code: 59916074  
Drawn By: AS  
Map: 59916074-GS-054-  
1p\_SensitivityPlus20\_FLCD\_5k.mxd  
Rev: 04  
Date: 2023-06-12

### Legend

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent
- MN+20% Flood Depth (m)**
  - 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

**Figure M2.4**

- Notes:
- Coordinate System: GDA 1994 MGA Zone 56
- References:
- Base data supplied by NSW SS and Esri
  - Aerial imagery supplied by MetroMap
  - Cadastre (2015) supplied by PCC

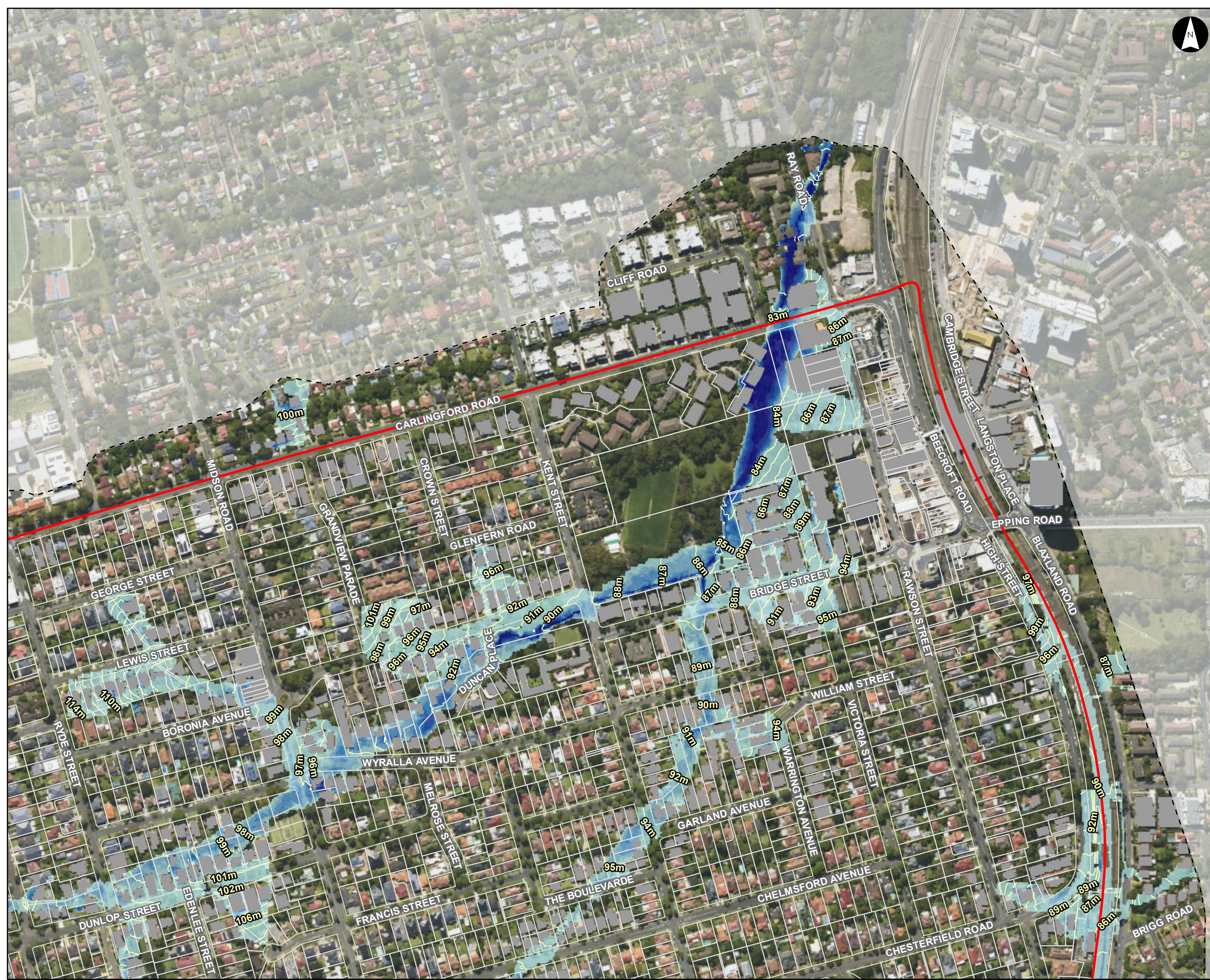


Scale at A3 1:5,000



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Sensitivity Analysis SS1  
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Project Code: 59916074  
Drawn By: AS  
Map: 59916074-GS-054-  
1p\_SensitivityPlus20\_FLCD\_5k.mxd  
Rev: 04  
Date: 2023-06-12

### Legend

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

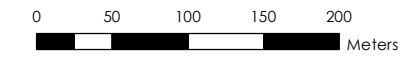
### MN+20% Flood Depth (m)

- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

Figure M2.5

Notes:  
1. Coordinate System: GDA 1994 MGA Zone 56

- References:
1. Base data supplied by NSW SS and Esri
  2. Aerial imagery supplied by MetroMap
  3. Cadastre (2015) supplied by PCC

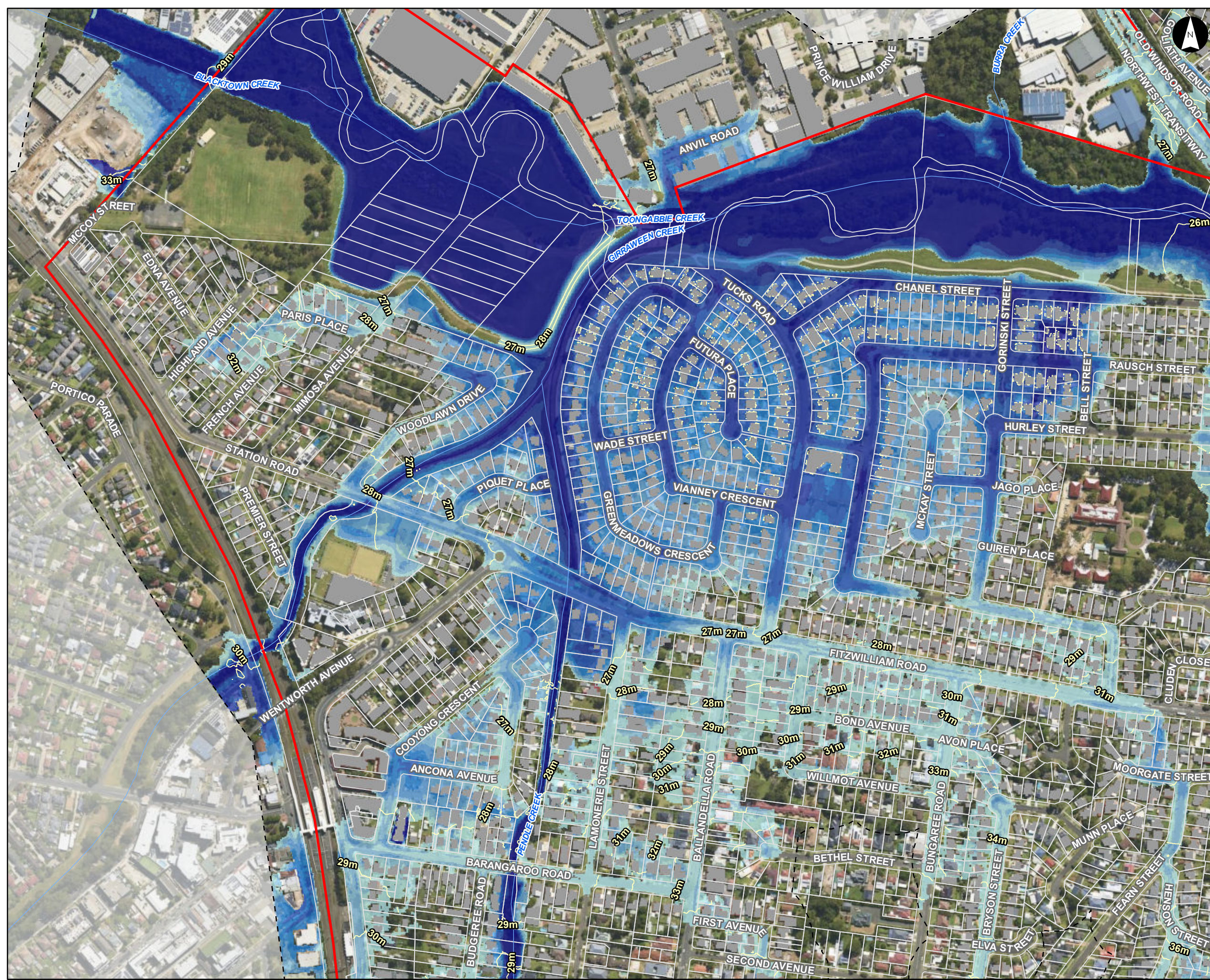


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Parramatta River Flood Study

Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-054-  
 1p\_SensitivityPlus20\_FLCD\_5k.mxd  
 Rev: 04  
 Date: 2023-06-12

**Legend**

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tufflow Model Extent

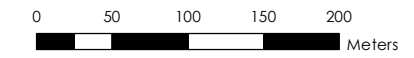
**MN+20% Flood Depth (m)**

- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

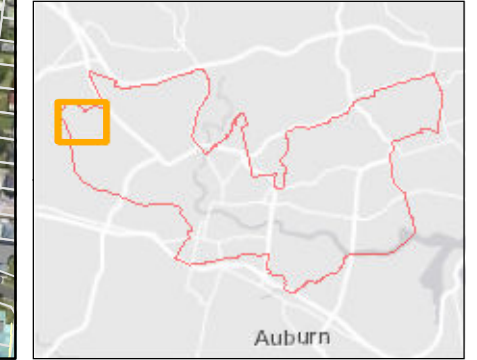
**Figure M2.6**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

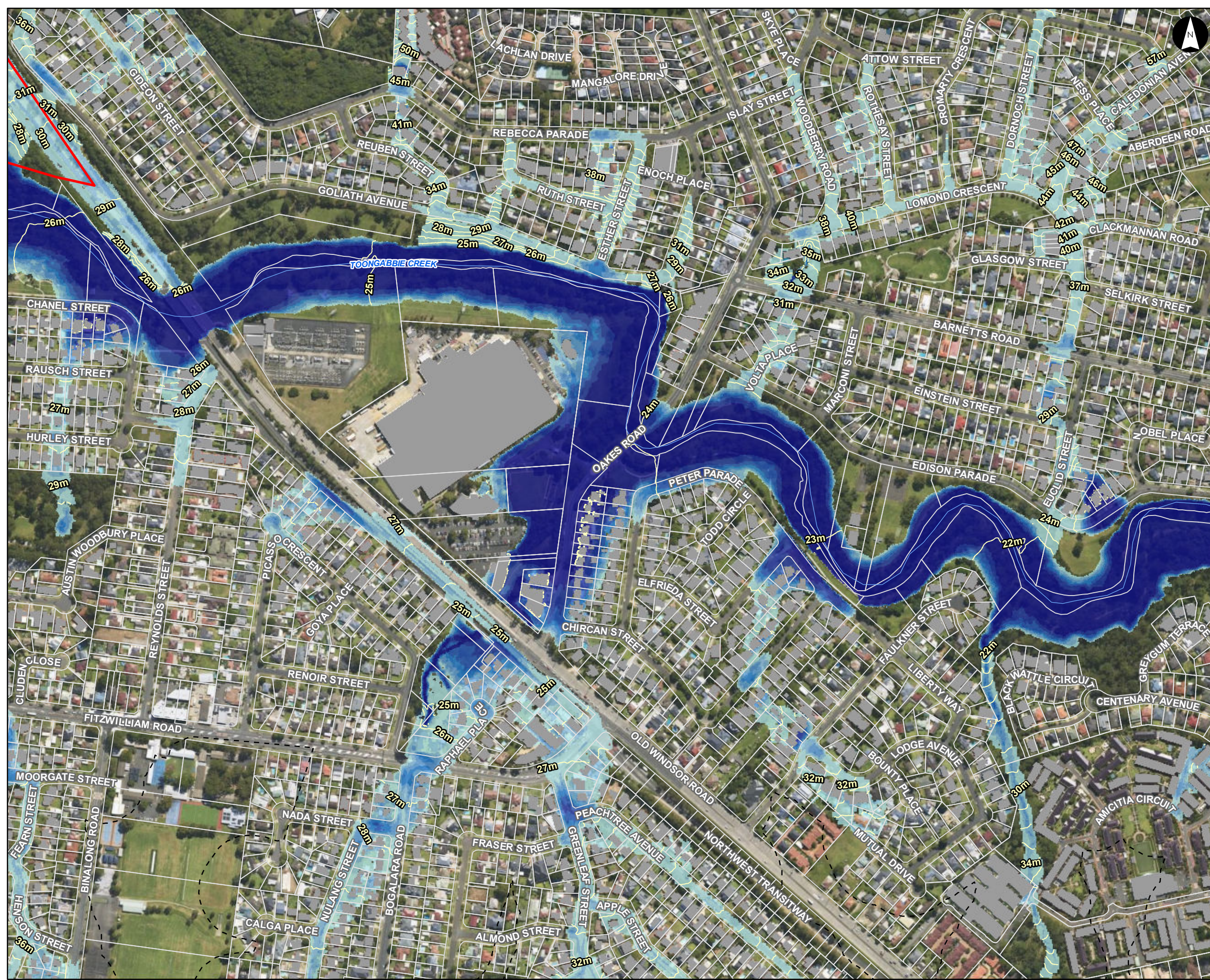
References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000







Sensitivity Analysis SS1  
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Parramatta River Flood Study

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Drawn By: AS  
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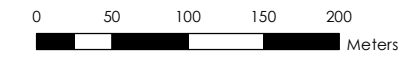
### Legend

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflo Model Extent
- MN+20% Flood Depth (m)**
  - 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

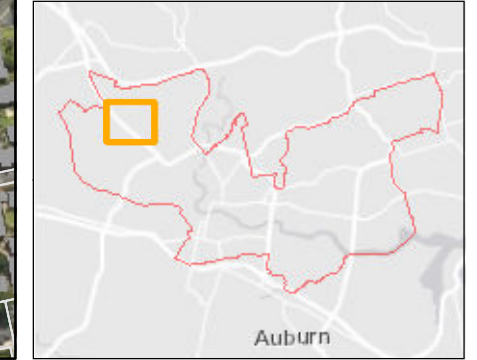
Figure M2.7

Notes:  
1. Coordinate System: GDA 1994 MGA Zone 56

- References:
1. Base data supplied by NSW SS and Esri
  2. Aerial imagery supplied by MetroMap
  3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000

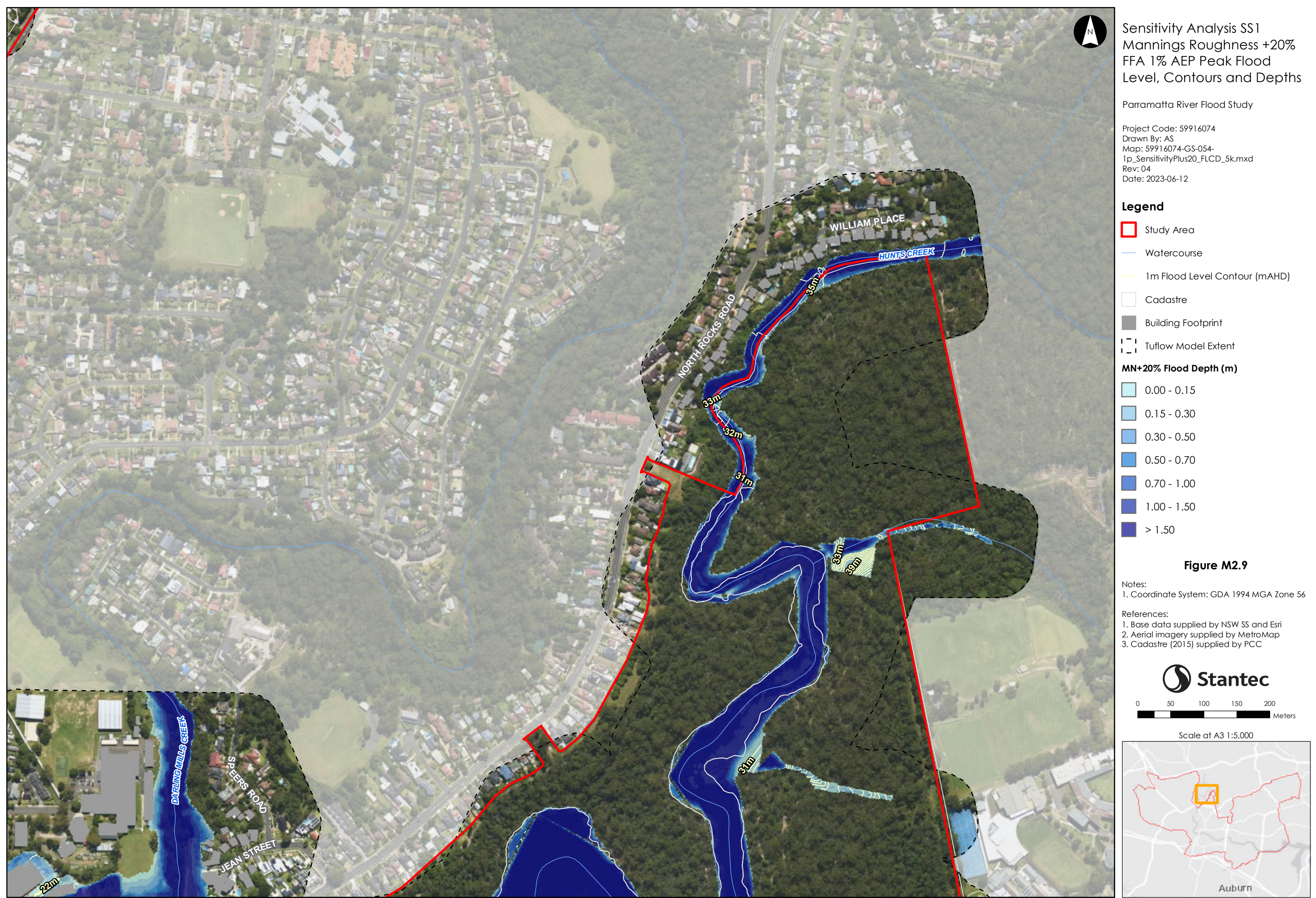






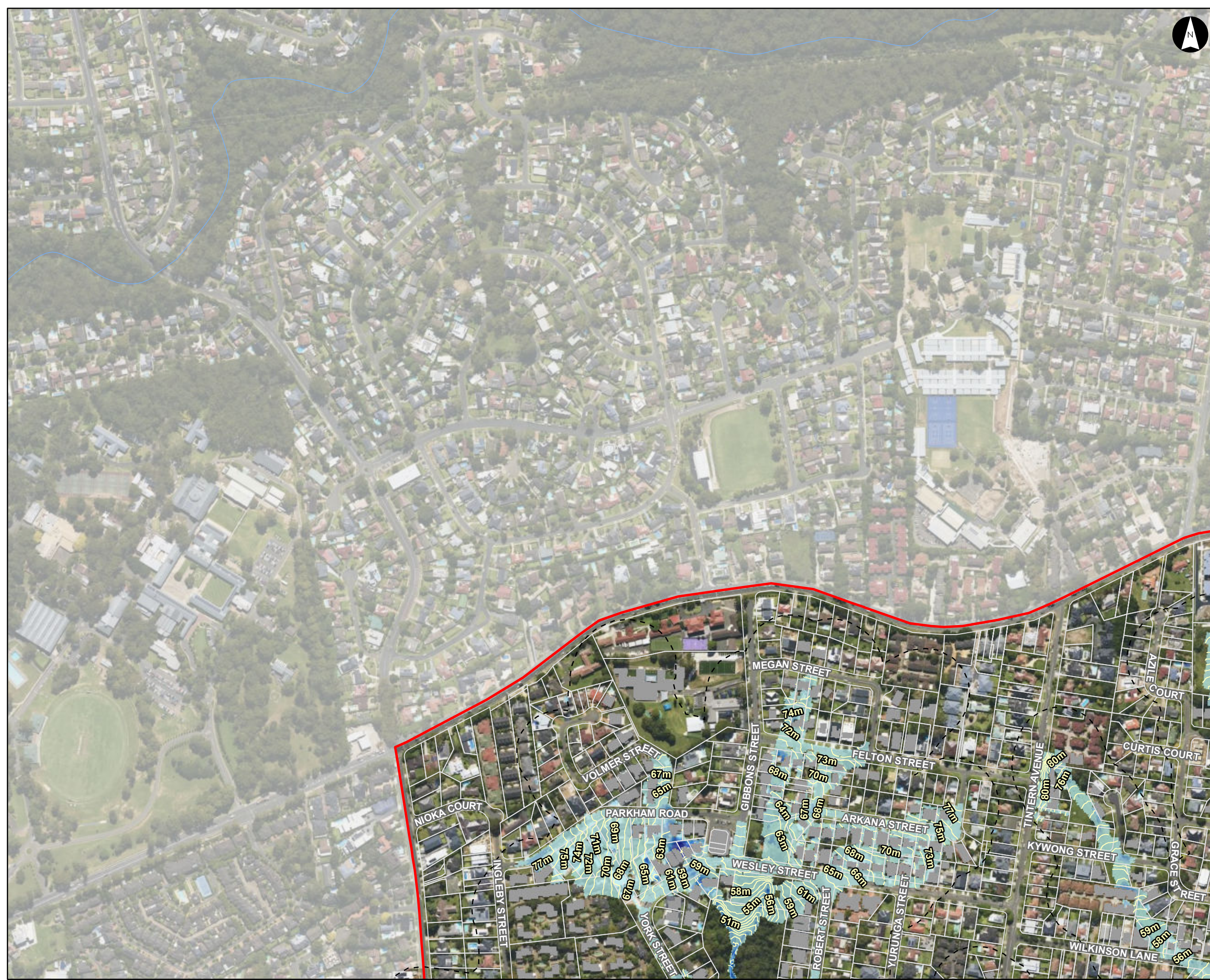
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Parramatta River Flood Study

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Map: 59916074-GS-054-  
1p\_SensitivityPlus20\_FLCD\_5k.mxd  
Rev: 04  
Date: 2023-06-12

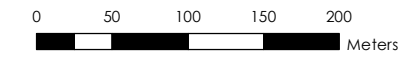
### Legend

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent
- MN+20% Flood Depth (m)**
  - 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

Figure M2.10

Notes:  
1. Coordinate System: GDA 1994 MGA Zone 56

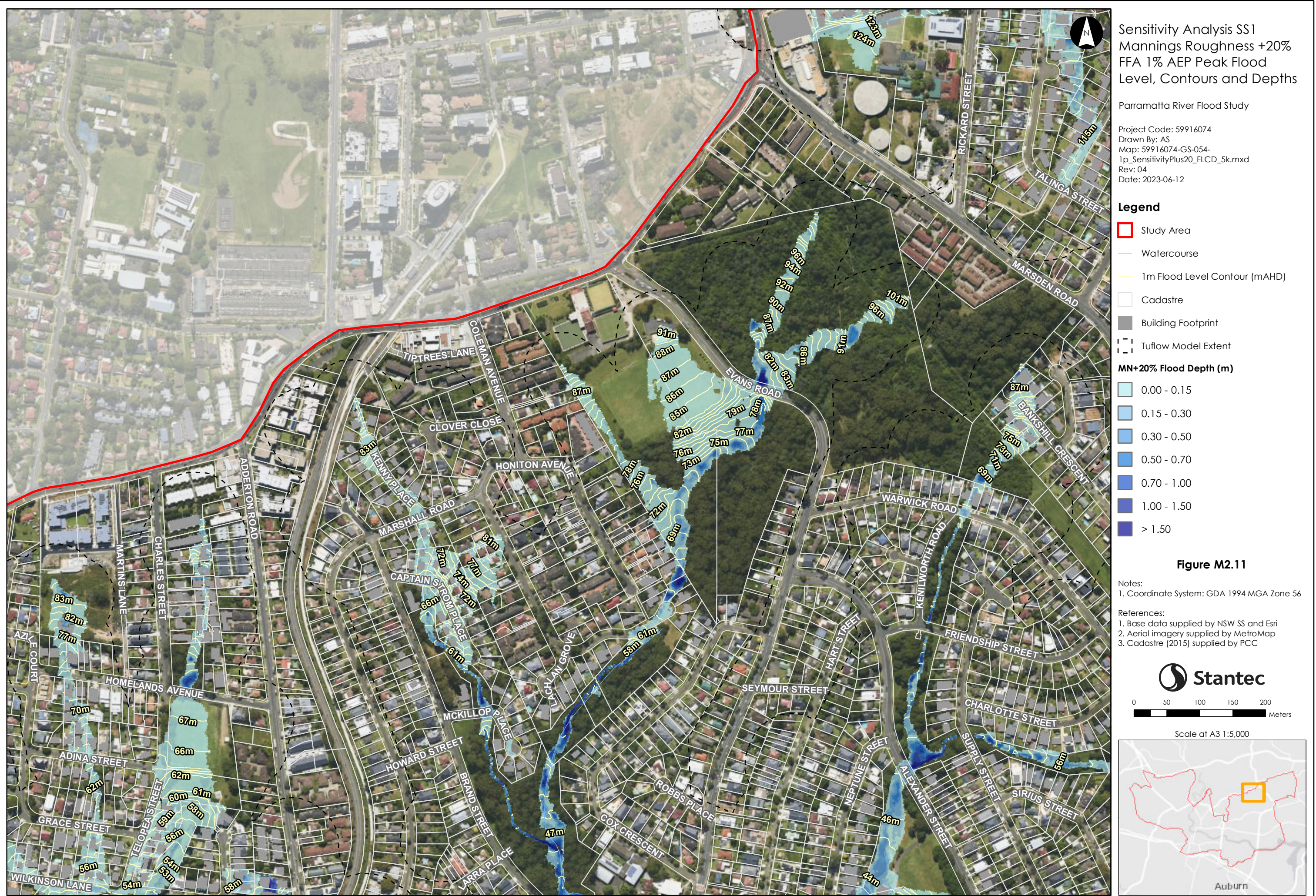
- References:
1. Base data supplied by NSW SS and Esri
  2. Aerial imagery supplied by MetroMap
  3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000











Sensitivity Analysis SS1  
 Mannings Roughness +20%  
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 Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-054-  
 1p\_SensitivityPlus20\_FLCD\_5k.mxd  
 Rev: 04  
 Date: 2023-06-12

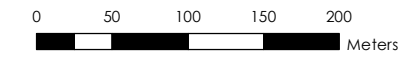
### Legend

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
  - Building Footprint
  - Tufflow Model Extent
- MN+20% Flood Depth (m)**
- 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

**Figure M2.12**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



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 Drawn By: AS  
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 1p\_SensitivityPlus20\_FLCD\_5k.mxd  
 Rev: 04  
 Date: 2023-06-12

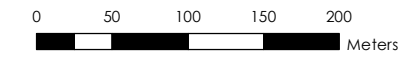
**Legend**

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
  - Building Footprint
  - Tuflow Model Extent
- MN+20% Flood Depth (m)**
- 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

**Figure M2.13**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC

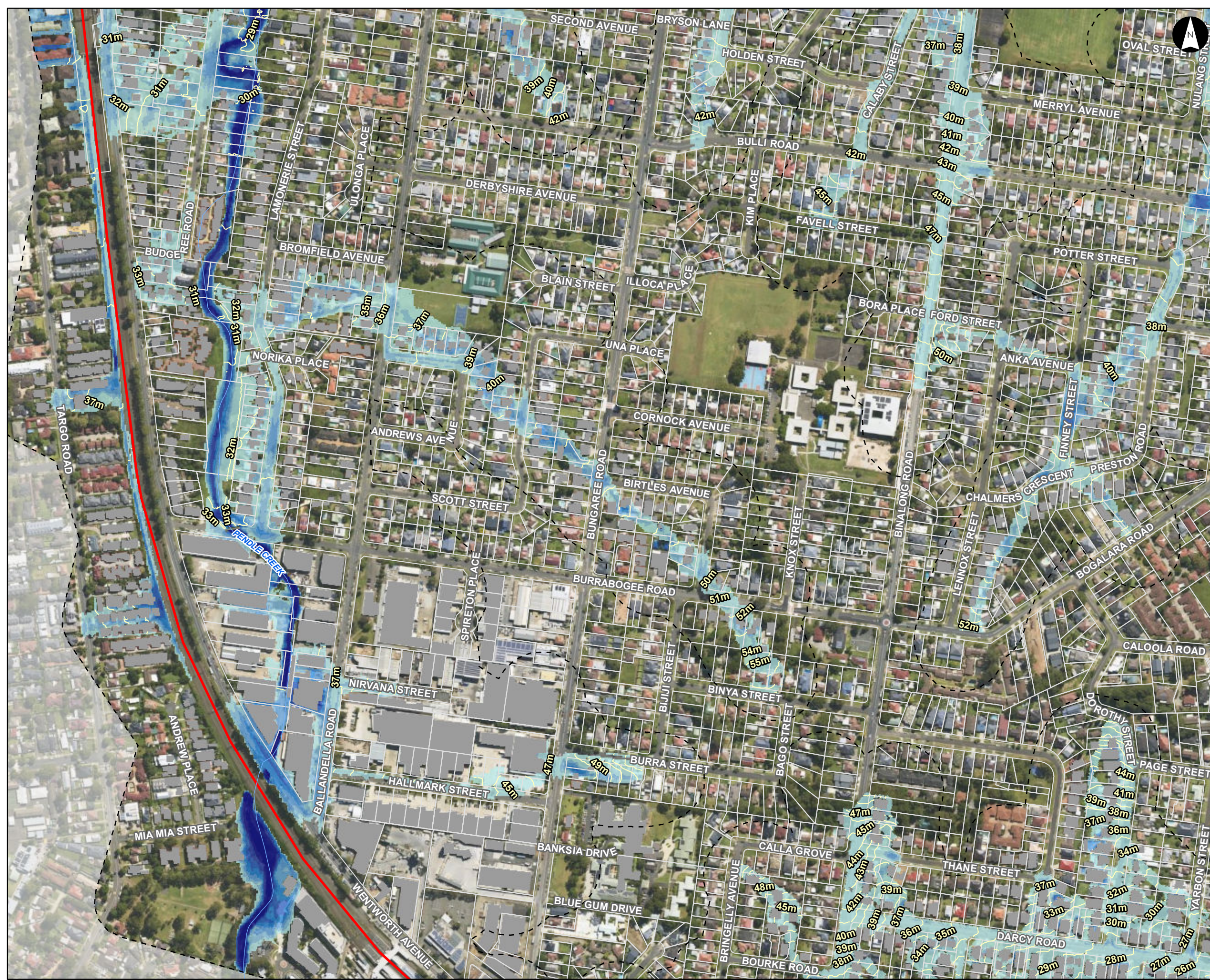


Scale at A3 1:5,000



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Parramatta River Flood Study

Project Code: 59916074  
Drawn By: AS  
Map: 59916074-GS-054-  
1p\_SensitivityPlus20\_FLCD\_5k.mxd  
Rev: 04  
Date: 2023-06-12

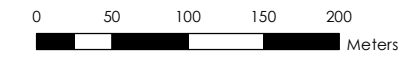
### Legend

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflo Model Extent
- MN+20% Flood Depth (m)**
  - 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

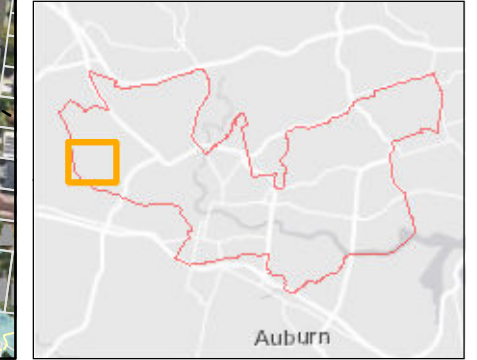
Figure M2.14

Notes:  
1. Coordinate System: GDA 1994 MGA Zone 56

References:  
1. Base data supplied by NSW SS and Esri  
2. Aerial imagery supplied by MetroMap  
3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000







Sensitivity Analysis SS1  
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FFA 1% AEP Peak Flood  
Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074  
Drawn By: AS  
Map: 59916074-GS-054-  
1p\_SensitivityPlus20\_FLCD\_5k.mxd  
Rev: 04  
Date: 2023-06-12

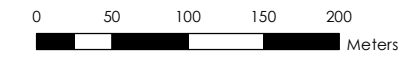
### Legend

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tufflow Model Extent
- MN+20% Flood Depth (m)**
  - 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

Figure M2.15

Notes:  
1. Coordinate System: GDA 1994 MGA Zone 56

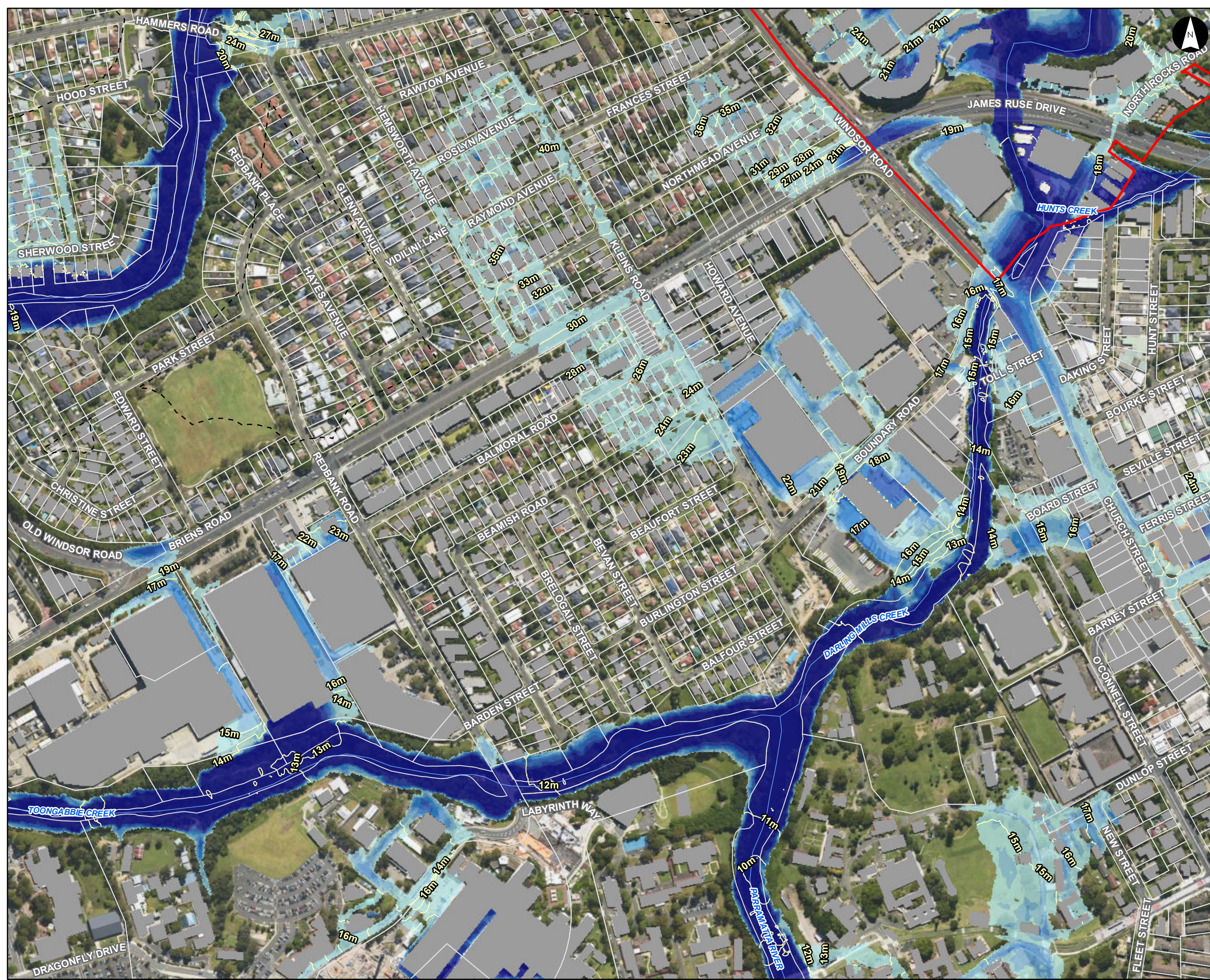
References:  
1. Base data supplied by NSW SS and Esri  
2. Aerial imagery supplied by MetroMap  
3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000







Sensitivity Analysis SS1  
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 Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-054-  
 1p\_SensitivityPlus20\_FLCD\_5k.mxd  
 Rev: 04  
 Date: 2023-06-12

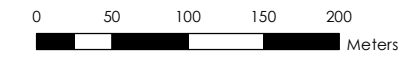
**Legend**

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
  - Building Footprint
  - Tufflow Model Extent
- MN+20% Flood Depth (m)**
- 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

**Figure M2.16**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000







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Map: 59916074-GS-054-  
1p\_SensitivityPlus20\_FLCD\_5k.mxd  
Rev: 04  
Date: 2023-06-12

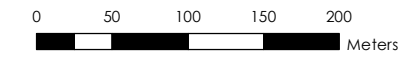
### Legend

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tufflow Model Extent
- MN+20% Flood Depth (m)**
  - 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

Figure M2.17

Notes:  
1. Coordinate System: GDA 1994 MGA Zone 56

References:  
1. Base data supplied by NSW SS and Esri  
2. Aerial imagery supplied by MetroMap  
3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000







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 Drawn By: AS  
 Map: 59916074-GS-054-  
 1p\_SensitivityPlus20\_FLCD\_5k.mxd  
 Rev: 04  
 Date: 2023-06-12

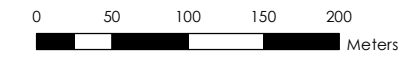
### Legend

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
  - Building Footprint
  - Tuflow Model Extent
- MN+20% Flood Depth (m)**
- 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

**Figure M2.18**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000



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Sensitivity Analysis SS1  
Mannings Roughness +20%  
FFA 1% AEP Peak Flood  
Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074  
Drawn By: AS  
Map: 59916074-GS-054-  
1p\_SensitivityPlus20\_FLCD\_5k.mxd  
Rev: 04  
Date: 2023-06-12

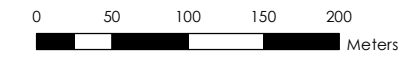
### Legend

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tufflow Model Extent
- MN+20% Flood Depth (m)**
  - 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

Figure M2.19

Notes:  
1. Coordinate System: GDA 1994 MGA Zone 56

References:  
1. Base data supplied by NSW SS and Esri  
2. Aerial imagery supplied by MetroMap  
3. Cadastre (2015) supplied by PCC



Scale at A3 1:5,000



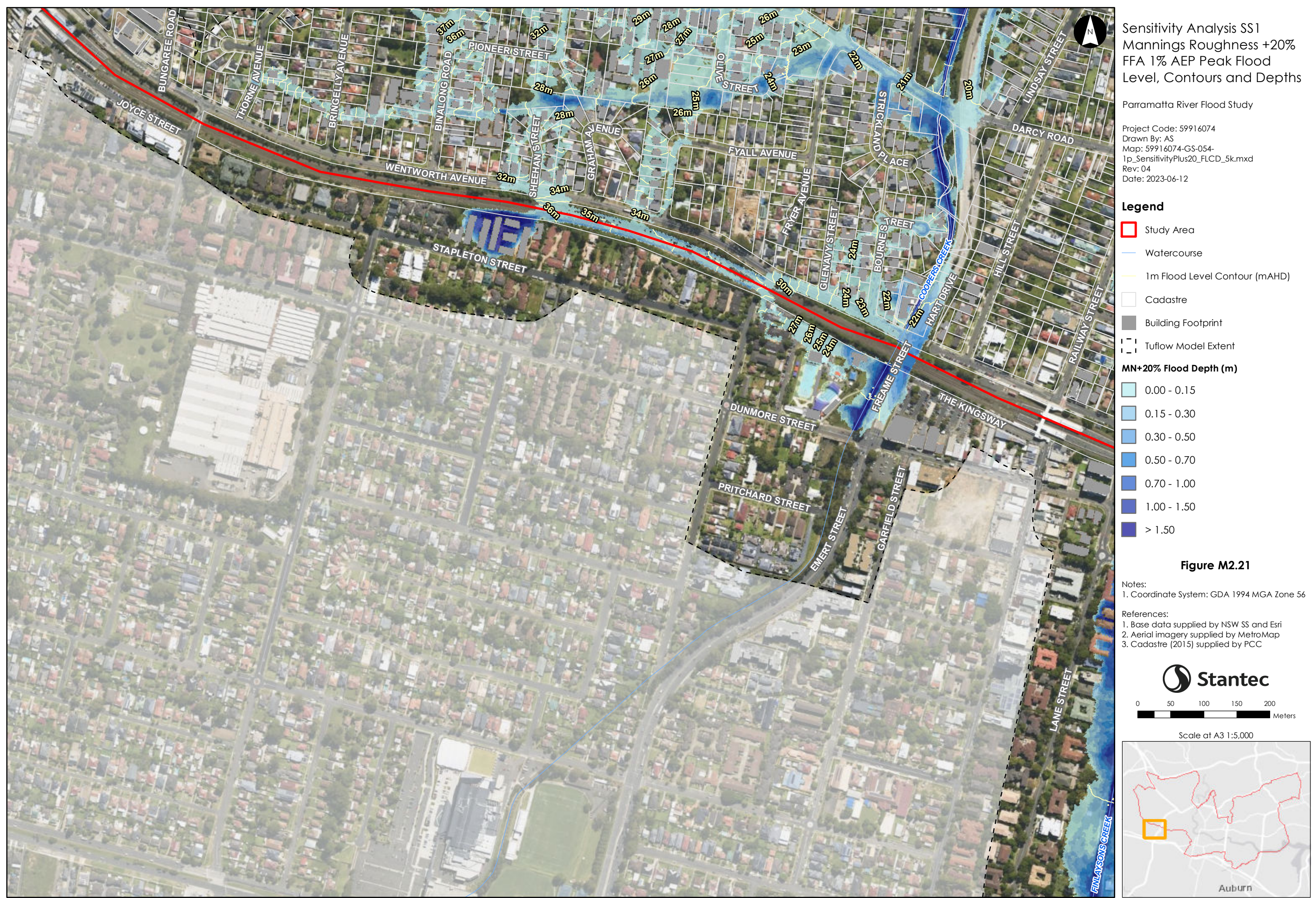
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Sensitivity Analysis SS1  
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**Legend**

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

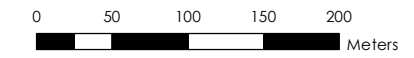
**MN+20% Flood Depth (m)**

- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

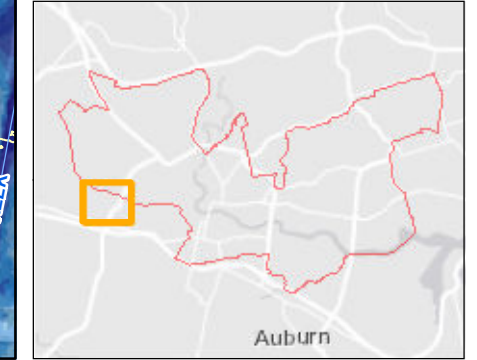
**Figure M2.21**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC

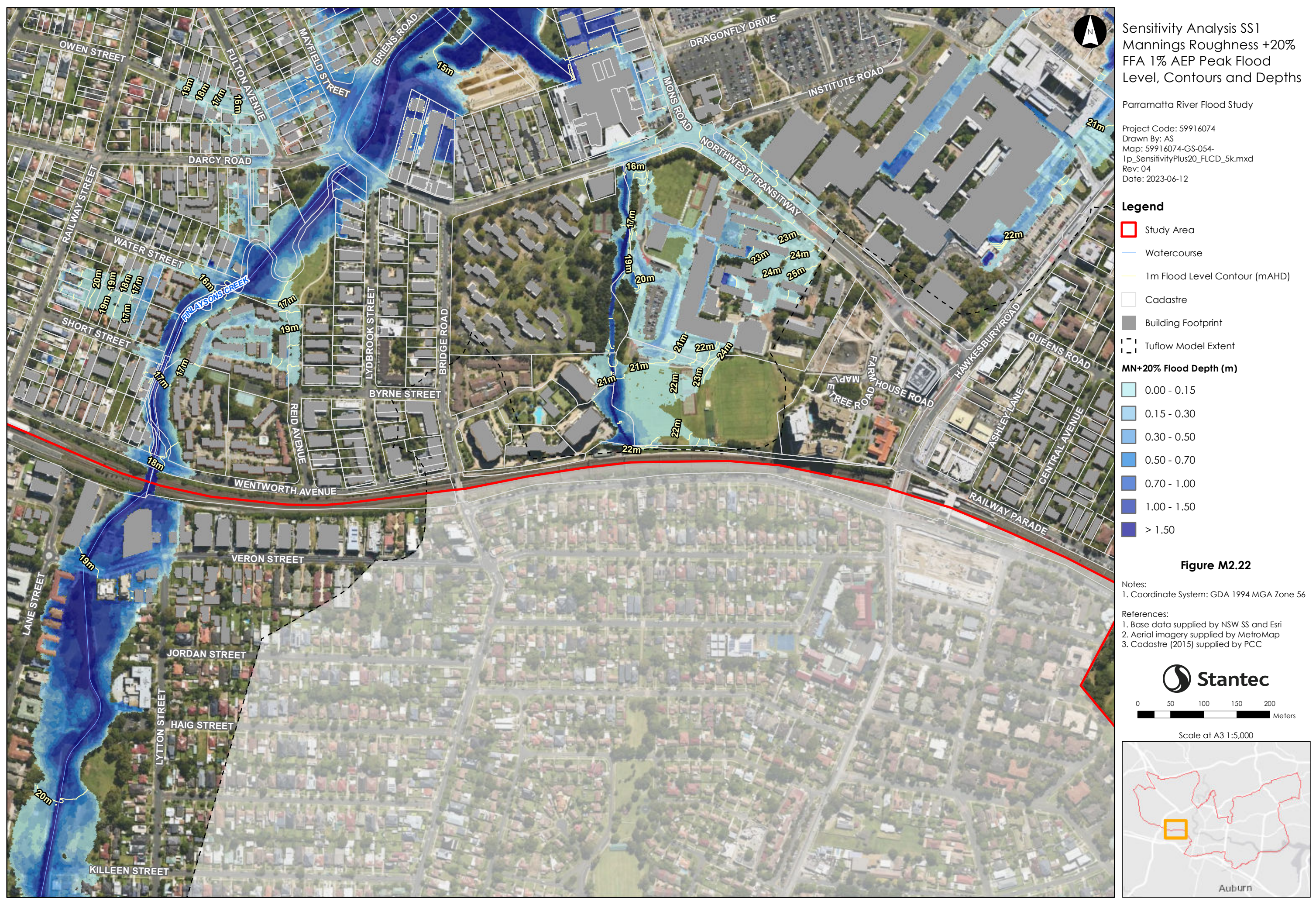


Scale at A3 1:5,000



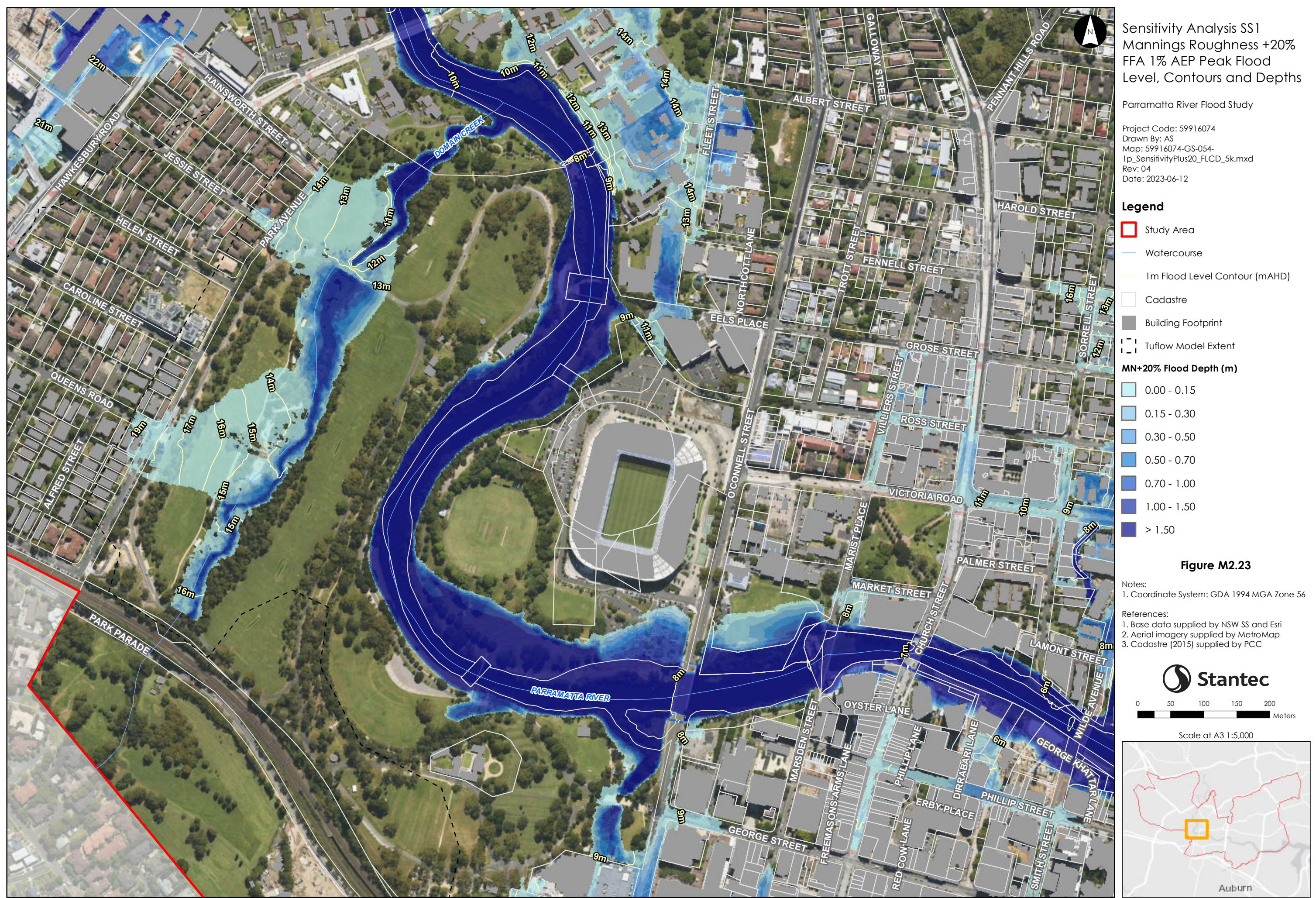
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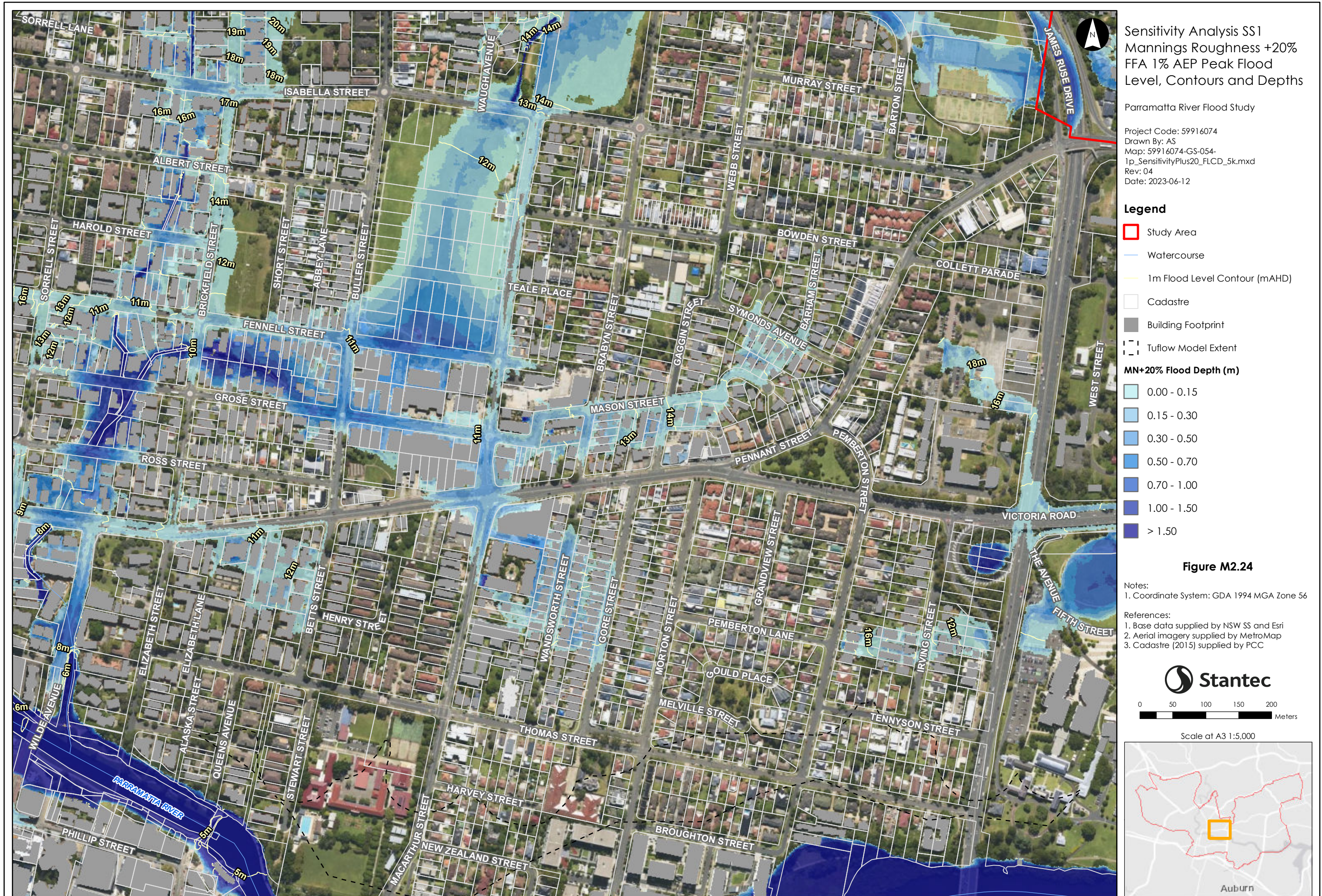
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Sensitivity Analysis SS1  
 Mannings Roughness +20%  
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 Level, Contours and Depths

Parramatta River Flood Study

Project Code: 59916074  
 Drawn By: AS  
 Map: 59916074-GS-054-  
 1p\_SensitivityPlus20\_FLCD\_5k.mxd  
 Rev: 04  
 Date: 2023-06-12

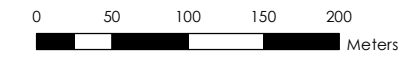
### Legend

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
  - Building Footprint
  - Tufflow Model Extent
- MN+20% Flood Depth (m)**
- 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

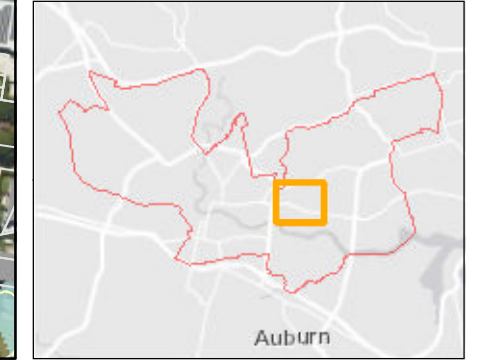
**Figure M2.25**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



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**Legend**

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

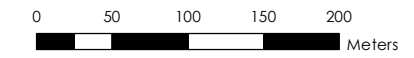
**MN+20% Flood Depth (m)**

- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

**Figure M2.26**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

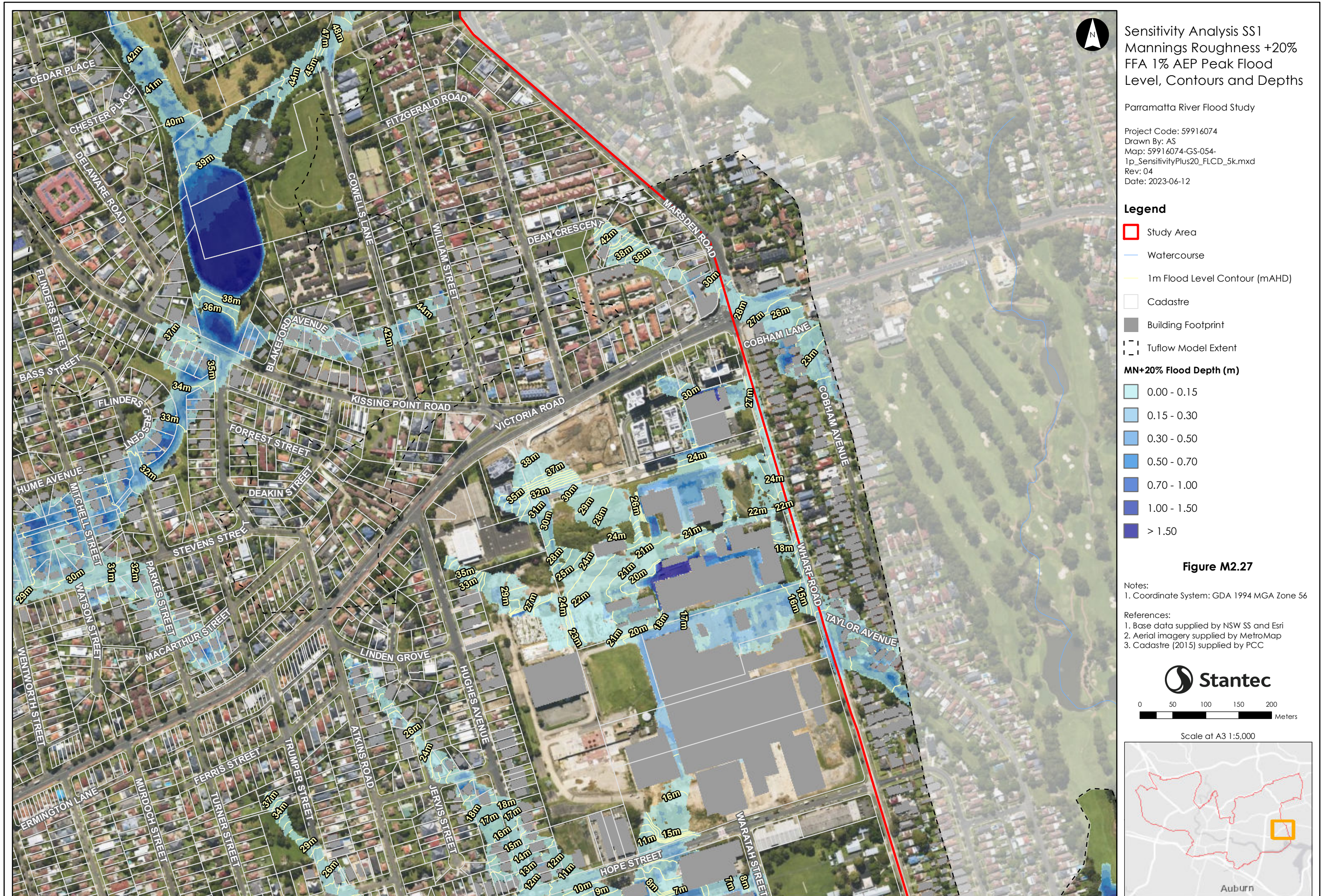
References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



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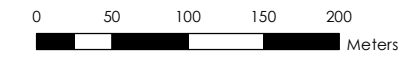
**Legend**

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
  - Building Footprint
  - Tufflow Model Extent
- MN+20% Flood Depth (m)**
- 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

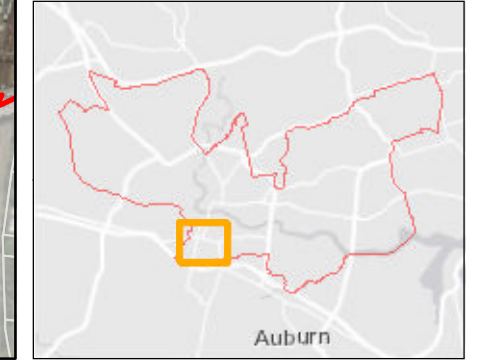
**Figure M2.28**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

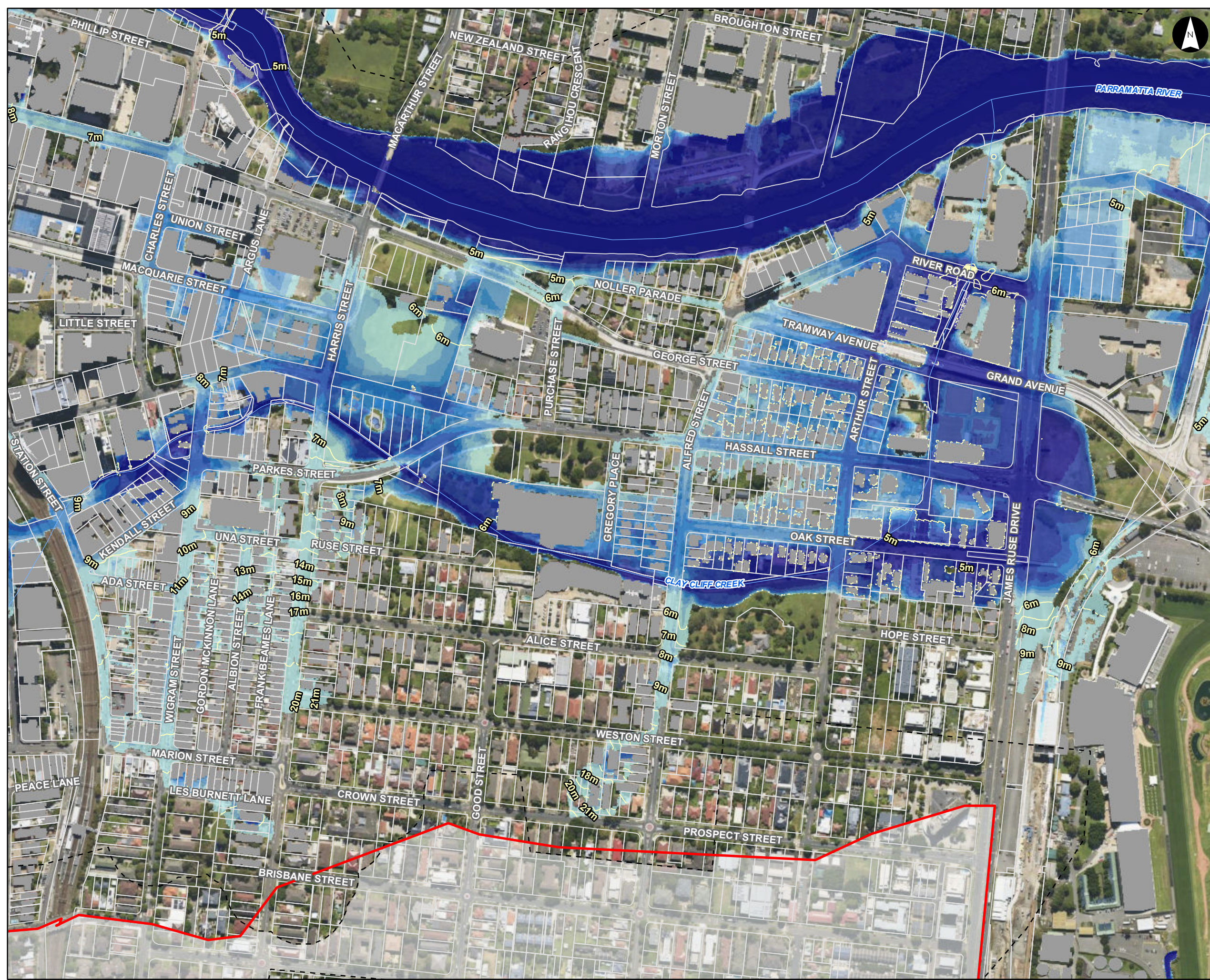
References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



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Sensitivity Analysis SS1  
 Mannings Roughness +20%  
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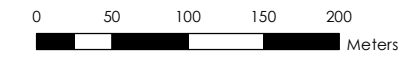
**Legend**

- Study Area
  - Watercourse
  - 1m Flood Level Contour (mAHD)
  - Cadastre
  - Building Footprint
  - Tufflow Model Extent
- MN+20% Flood Depth (m)**
- 0.00 - 0.15
  - 0.15 - 0.30
  - 0.30 - 0.50
  - 0.50 - 0.70
  - 0.70 - 1.00
  - 1.00 - 1.50
  - > 1.50

**Figure M2.29**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

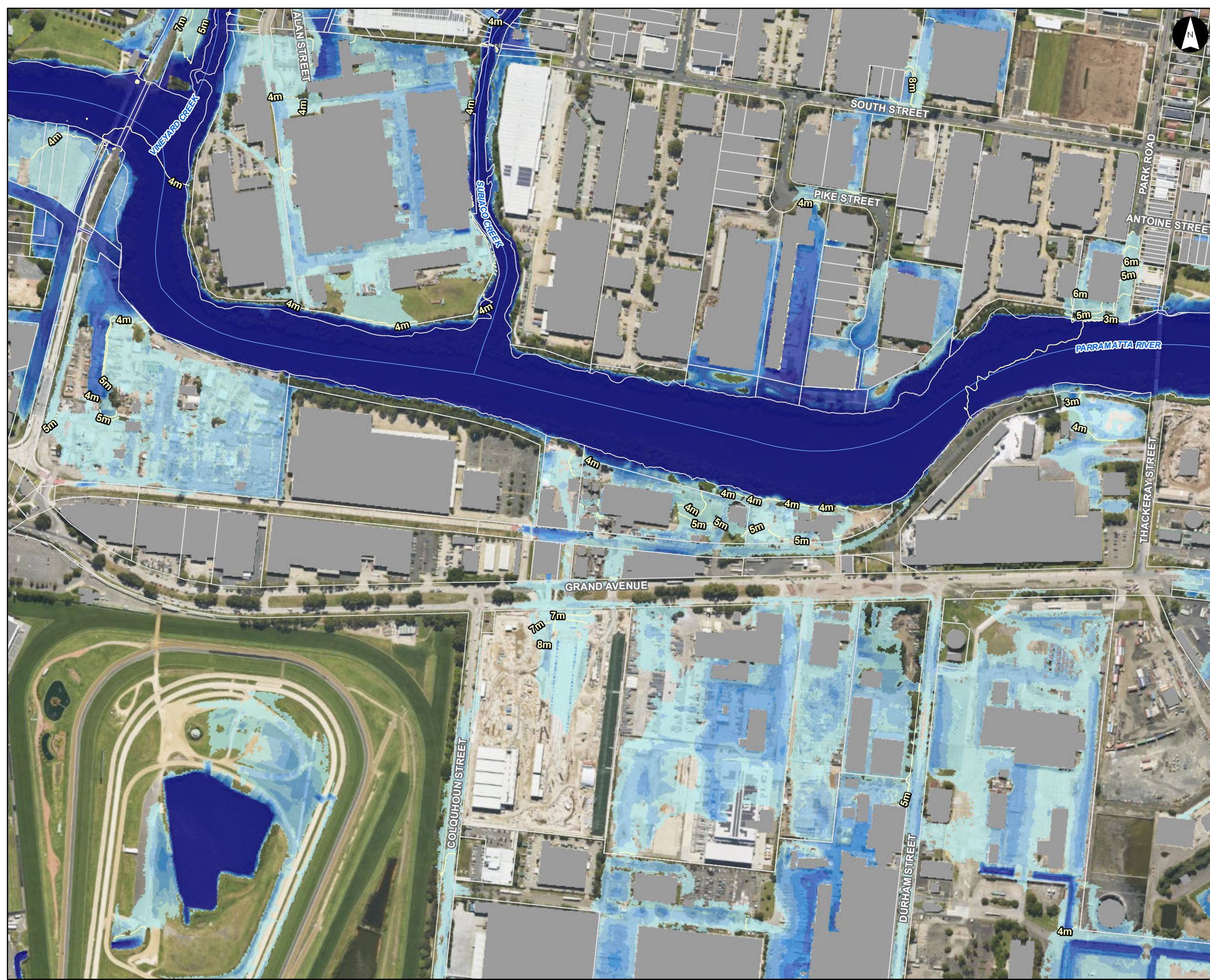
References:  
 1. Base data supplied by NSW SS and Esri  
 2. Aerial imagery supplied by MetroMap  
 3. Cadastre (2015) supplied by PCC



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Sensitivity Analysis SS1  
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Parramatta River Flood Study

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### Legend

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tuflow Model Extent

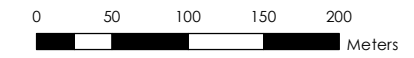
### MN+20% Flood Depth (m)

- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

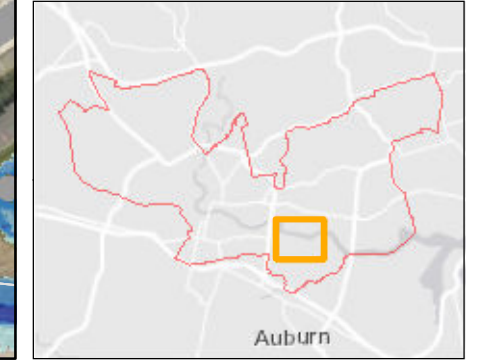
Figure M2.30

Notes:  
1. Coordinate System: GDA 1994 MGA Zone 56

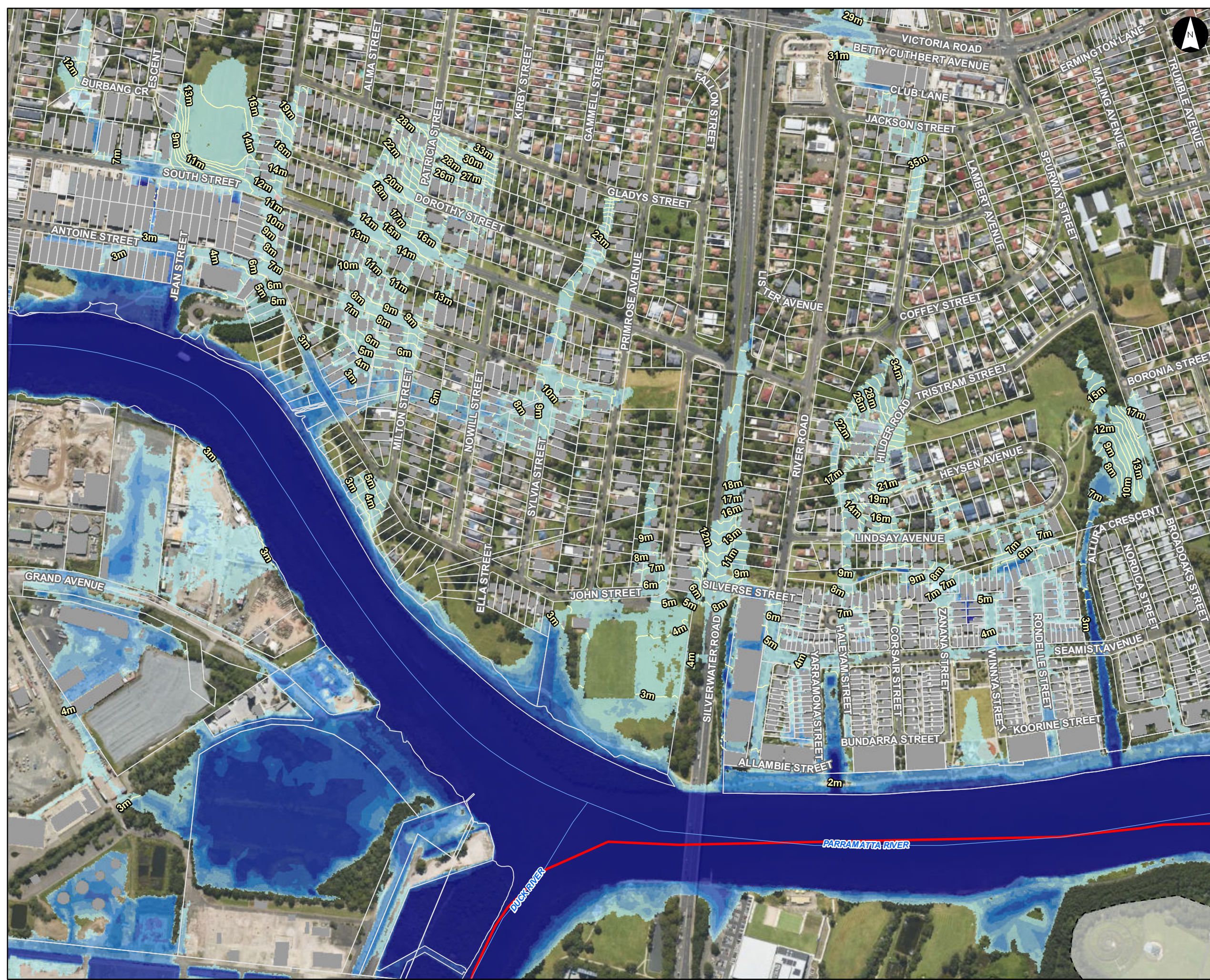
- References:
- 1. Base data supplied by NSW SS and Esri
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  - 3. Cadastre (2015) supplied by PCC



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Sensitivity Analysis SS1  
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**Legend**

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tufflow Model Extent

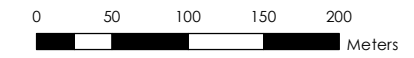
**MN+20% Flood Depth (m)**

- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

**Figure M2.31**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

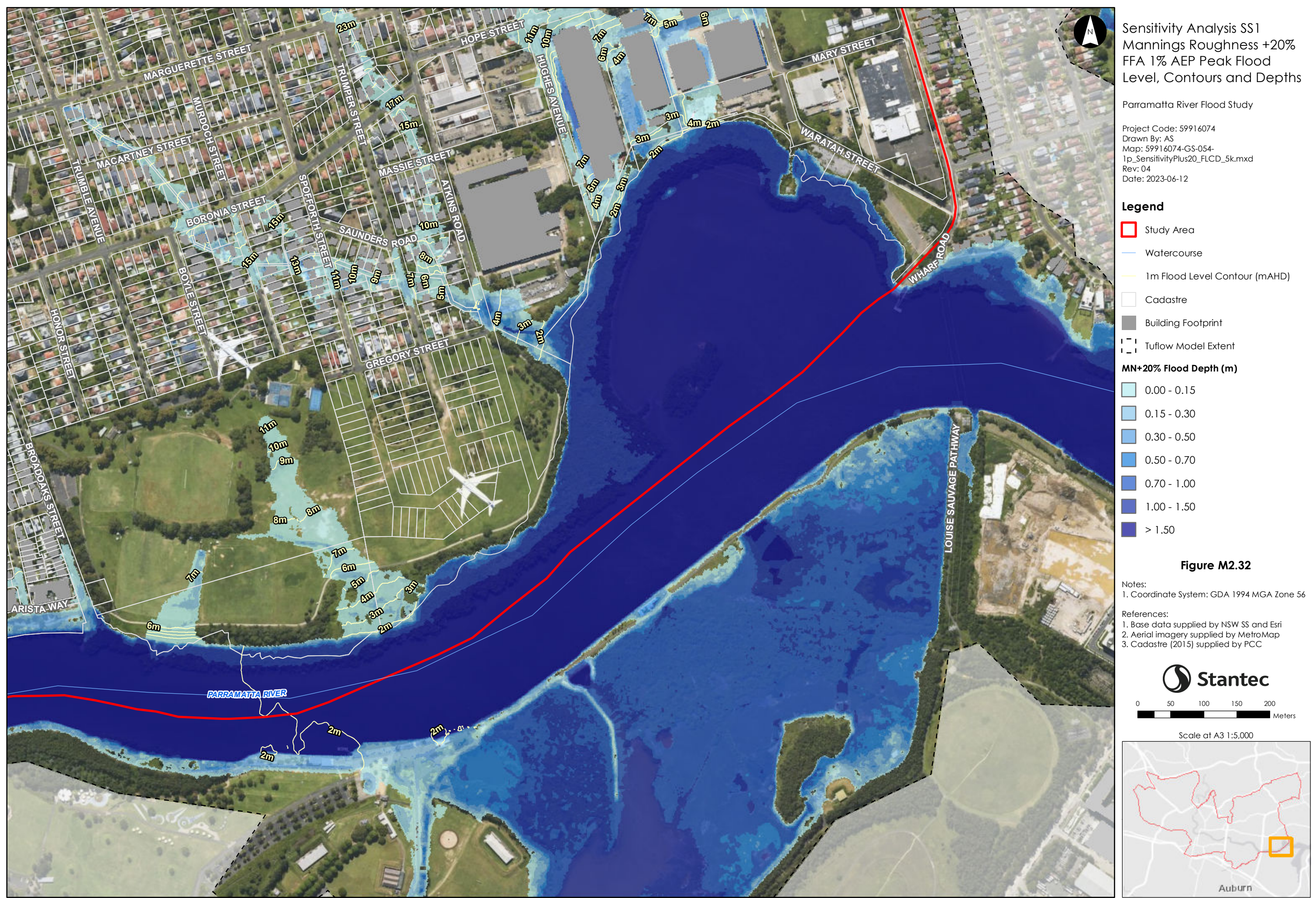
- References:
1. Base data supplied by NSW SS and Esri
  2. Aerial imagery supplied by MetroMap
  3. Cadastre (2015) supplied by PCC



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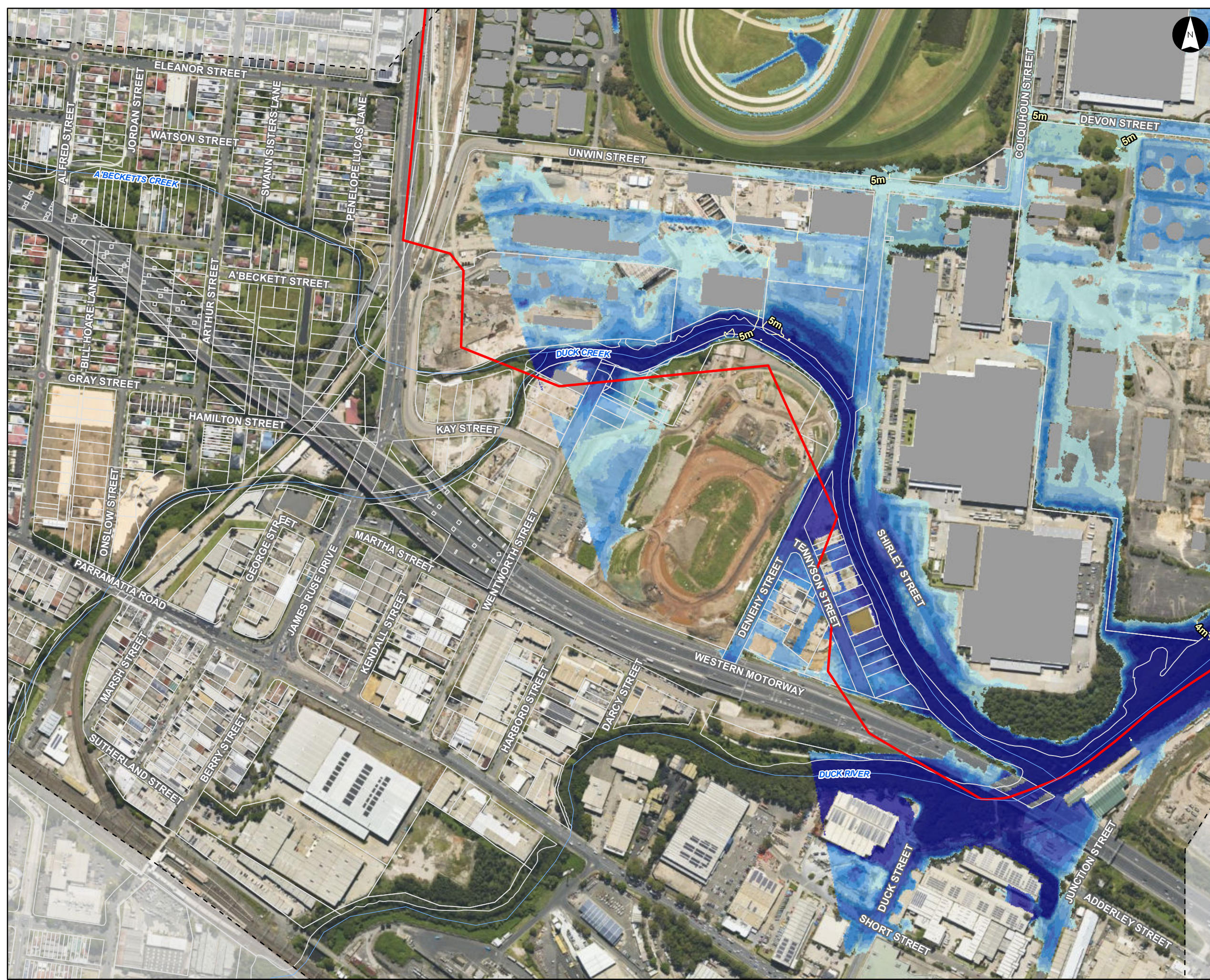






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Sensitivity Analysis SS1  
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**Legend**

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastre
- Building Footprint
- Tufflow Model Extent

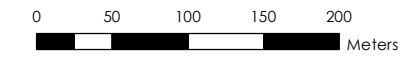
**MN+20% Flood Depth (m)**

- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

**Figure M2.33**

Notes:  
 1. Coordinate System: GDA 1994 MGA Zone 56

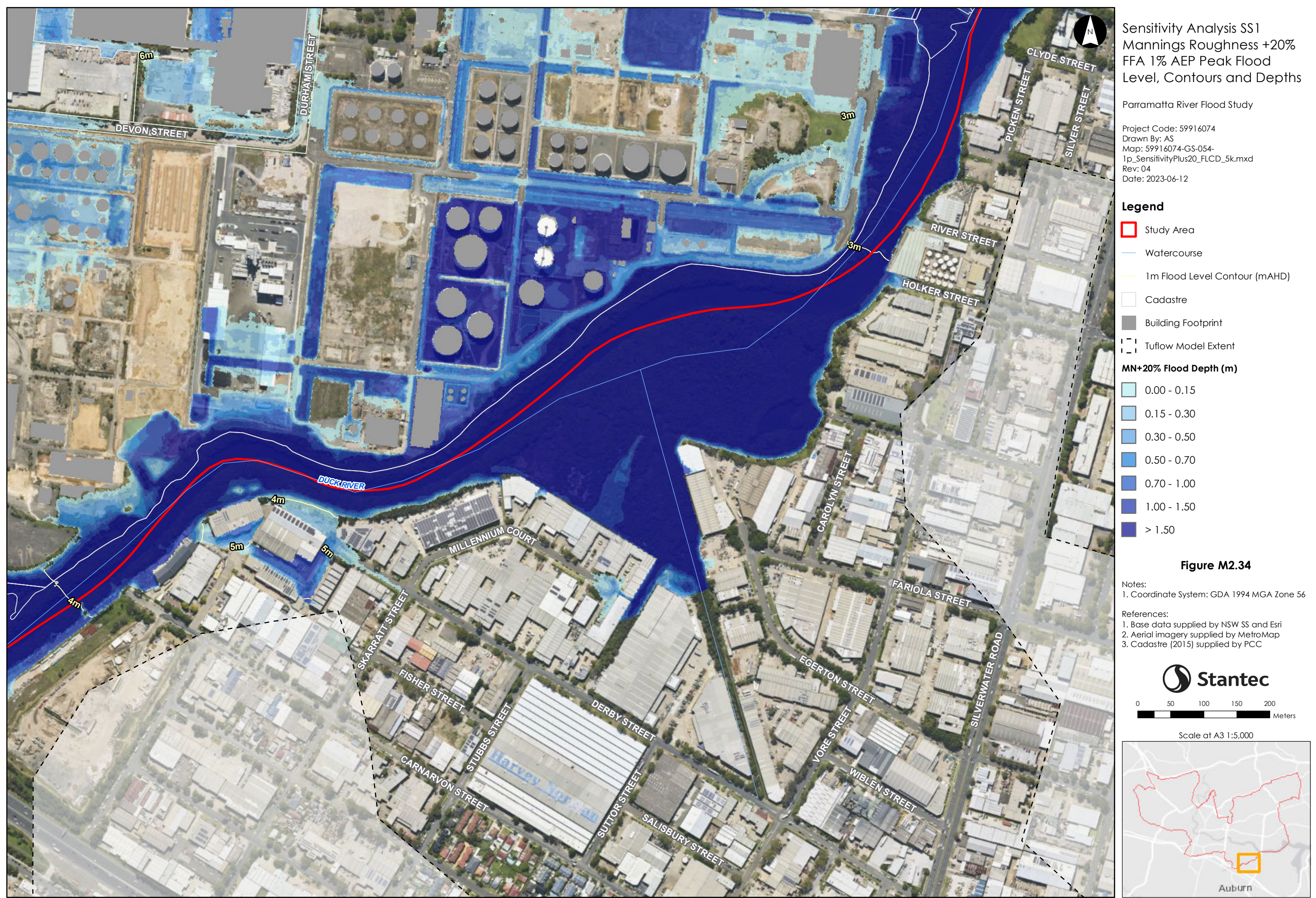
- References:
1. Base data supplied by NSW SS and Esri
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Sensitivity Analysis SS1  
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**Legend**

- Study Area
- Watercourse
- 1m Flood Level Contour (mAHD)
- Cadastrate
- Building Footprint
- Tuflow Model Extent

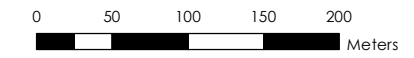
**MN+20% Flood Depth (m)**

- 0.00 - 0.15
- 0.15 - 0.30
- 0.30 - 0.50
- 0.50 - 0.70
- 0.70 - 1.00
- 1.00 - 1.50
- > 1.50

**Figure M2.34**

Notes:  
1. Coordinate System: GDA 1994 MGA Zone 56

References:  
1. Base data supplied by NSW SS and Esri  
2. Aerial imagery supplied by MetroMap  
3. Cadastrate (2015) supplied by PCC



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