



Killarney Vale / Long Jetty Catchments Floodplain Risk Management Study & Draft Plan

Final Draft Report
Volume 2 of 2: Figures



▶▶ Revision 4
October 2020

Catchment Simulation Solutions

▶ FIGURES

- Figure 1 Killarney vale and Long Jetty Catchments
- Figure 2 Existing Flood Detention Basins
- Figure 3 Ground Surface Elevations
- Figure 4 Environmental and Heritage Constraints

Flood Maps for Existing Conditions

- Figure 5: Peak Floodwater Depths for the 20% AEP Flood
- Figure 6: Peak Floodwater Depths for the 5% AEP Flood
- Figure 7 Peak Floodwater Depths for the 1% AEP Flood
- Figure 8 Peak Floodwater Depths for the PMF
- Figure 9 Stormwater Capacity
- Figure 10 Flood Hazard for the 1% AEP Flood
- Figure 11 Flood Hazard for the PMF
- Figure 12 Emergency Response Classifications for the 1% AEP Flood
- Figure 13 Emergency Response Classifications for the PMF
- Figure 14 1% AEP Hydraulic Categories
- Figure 15 PMF Hydraulic Categories
- Figure 16 Peak Floodwater Depths and Velocities for the 1% AEP Flood with 18.6% Increase in Rainfall Intensity associated with Climate Change
- Figure 17 Flood Planning Area
- Figure 18 Local Environmental Plan (LEP) Zoning

Concept Designs for Floodplain Risk Management Options

- Figure 19 Concept Design for Blockage Control Structures Upstream of Culverts
- Figure 20 Concept Design for Culvert Upgrades near Kathleen White Crescent
- Figure 21 Concept Design for Culvert Upgrades between Hume Boulevard and Wyong Road
- Figure 22 Concept Design for Culvert Upgrades between The Entrance Road and the rear of The Reef Resort Motel
- Figure 23 Concept Design for the Shelly Beach Golf Course Detention Basin

- Figure 24 Concept Design for The Bay Village Detention Basin Upgrade
- Figure 25 Concept Design for the Installation of Kerb and Gutter along Elsiemer St and Pacific St
- Figure 26 Concept Design for Wyong Road Regrading
- Figure 27 Concept Design for The Entrance Reef Resort Motel Regrading
- [Draft Floodplain Risk Management Plan](#)
- Figure 28 Killarney Vale and Long Jetty Draft Floodplain Risk Management Plan



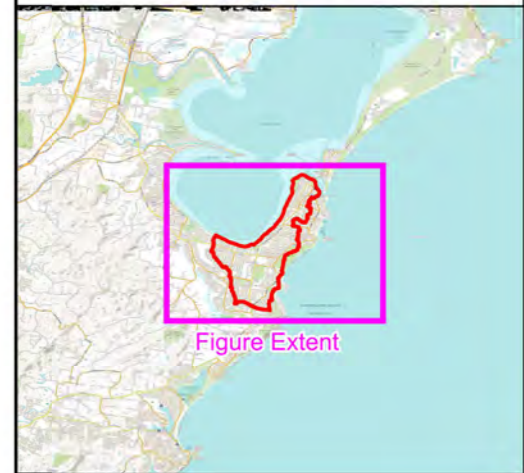
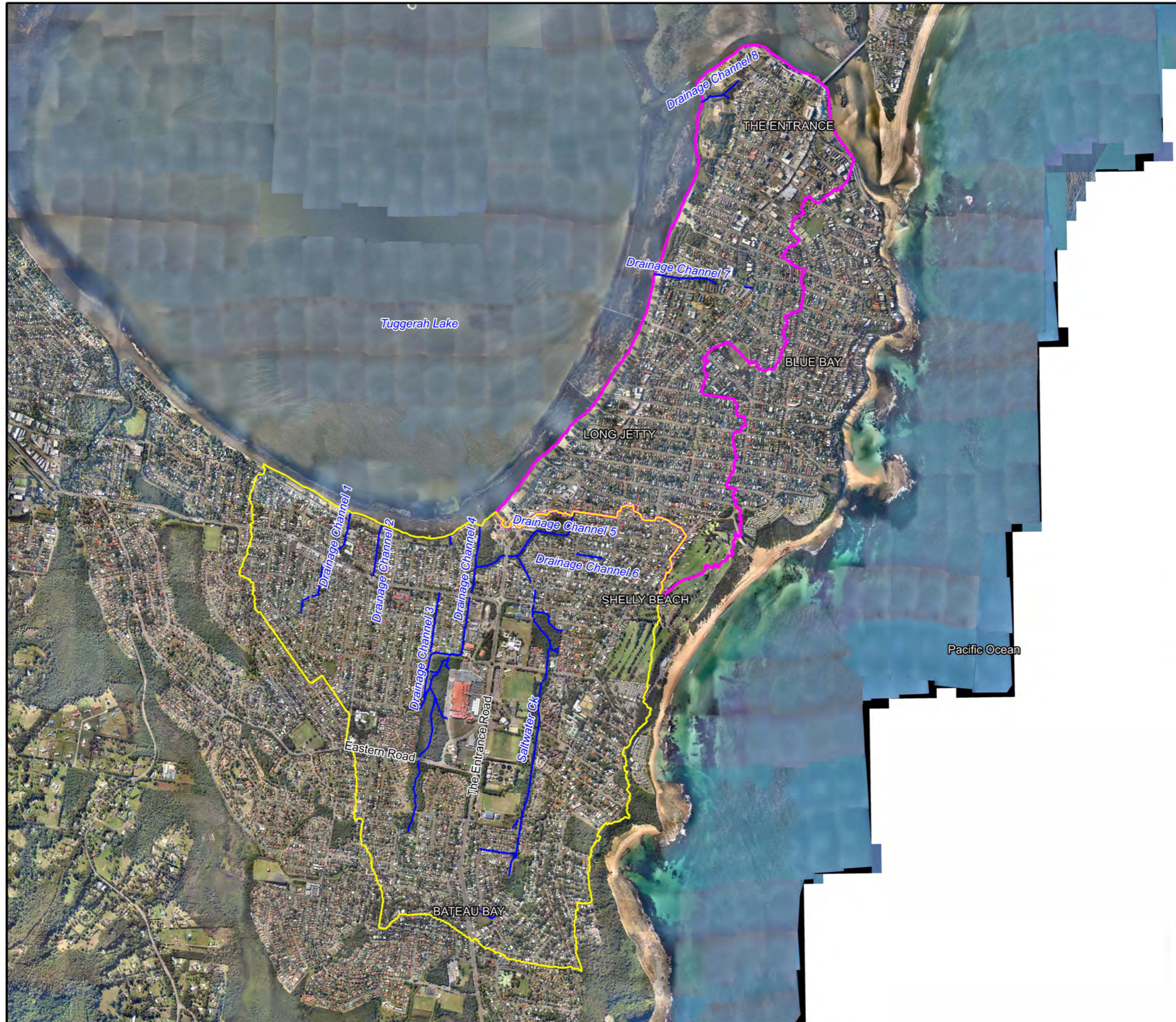


Figure Extent



LEGEND

- Killarney Vale Catchment
- Long Jetty Catchment
- Watercourses

Notes:
Aerial photograph date: 2013

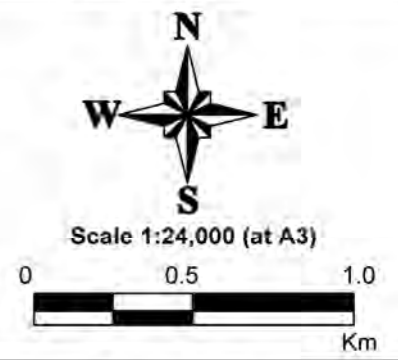
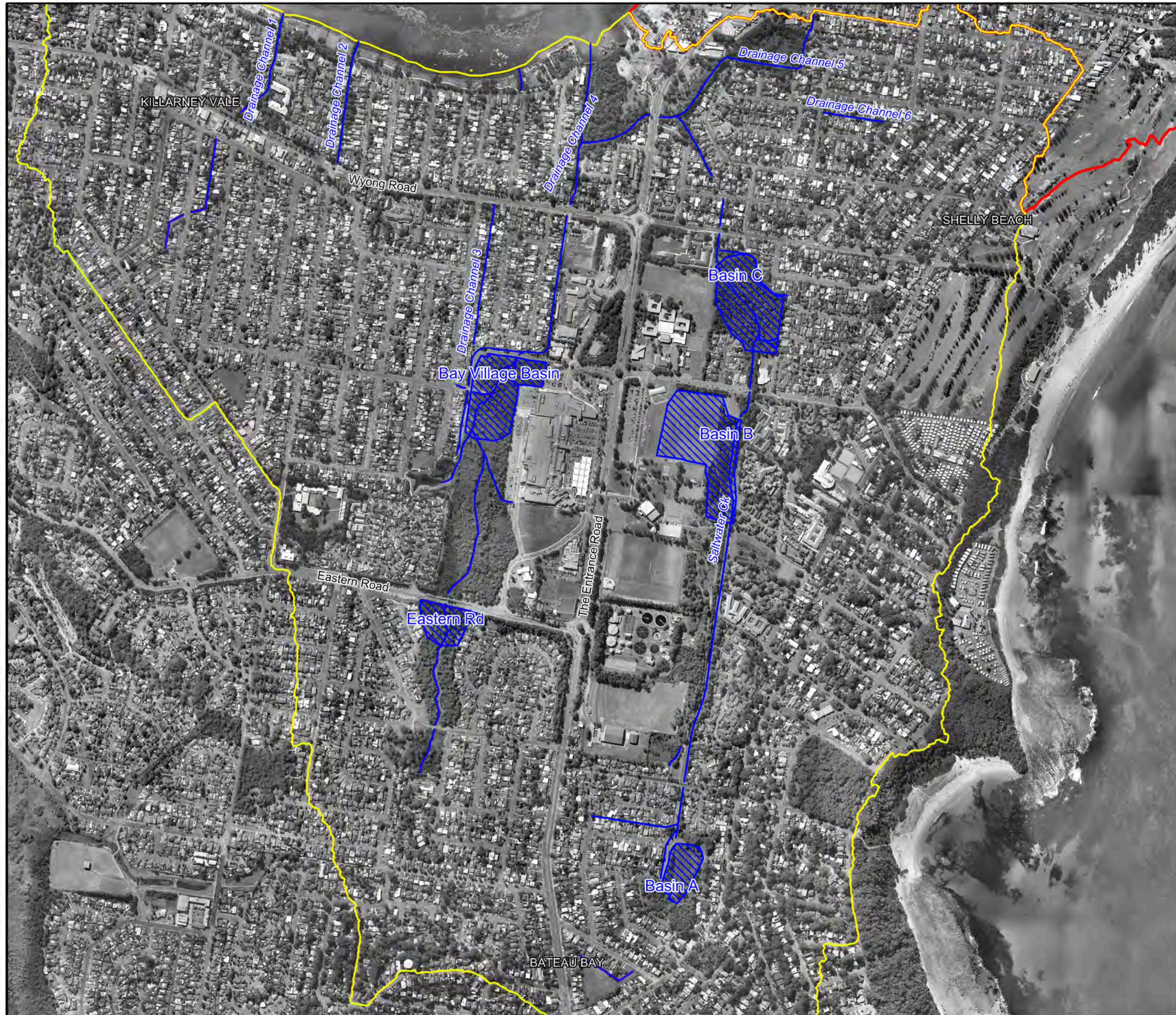
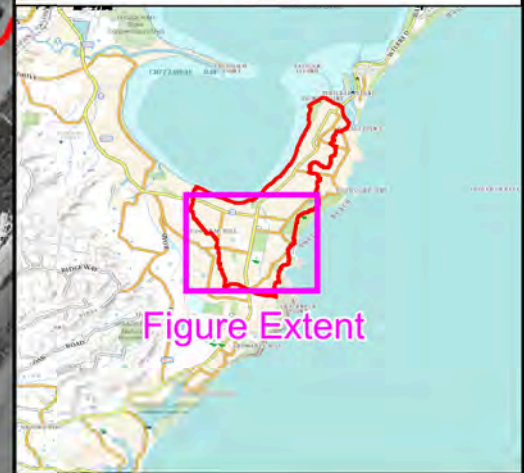


Figure 1:
Killarney Vale and Long Jetty Catchments

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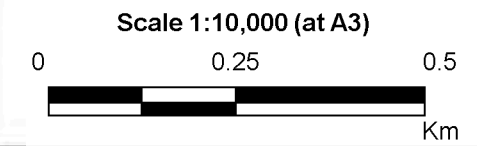
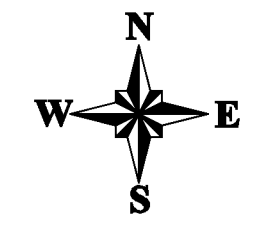
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LEGEND

- Killarney Vale Catchment
- Long Jetty Catchment
- Detention Basin
- Watercourses

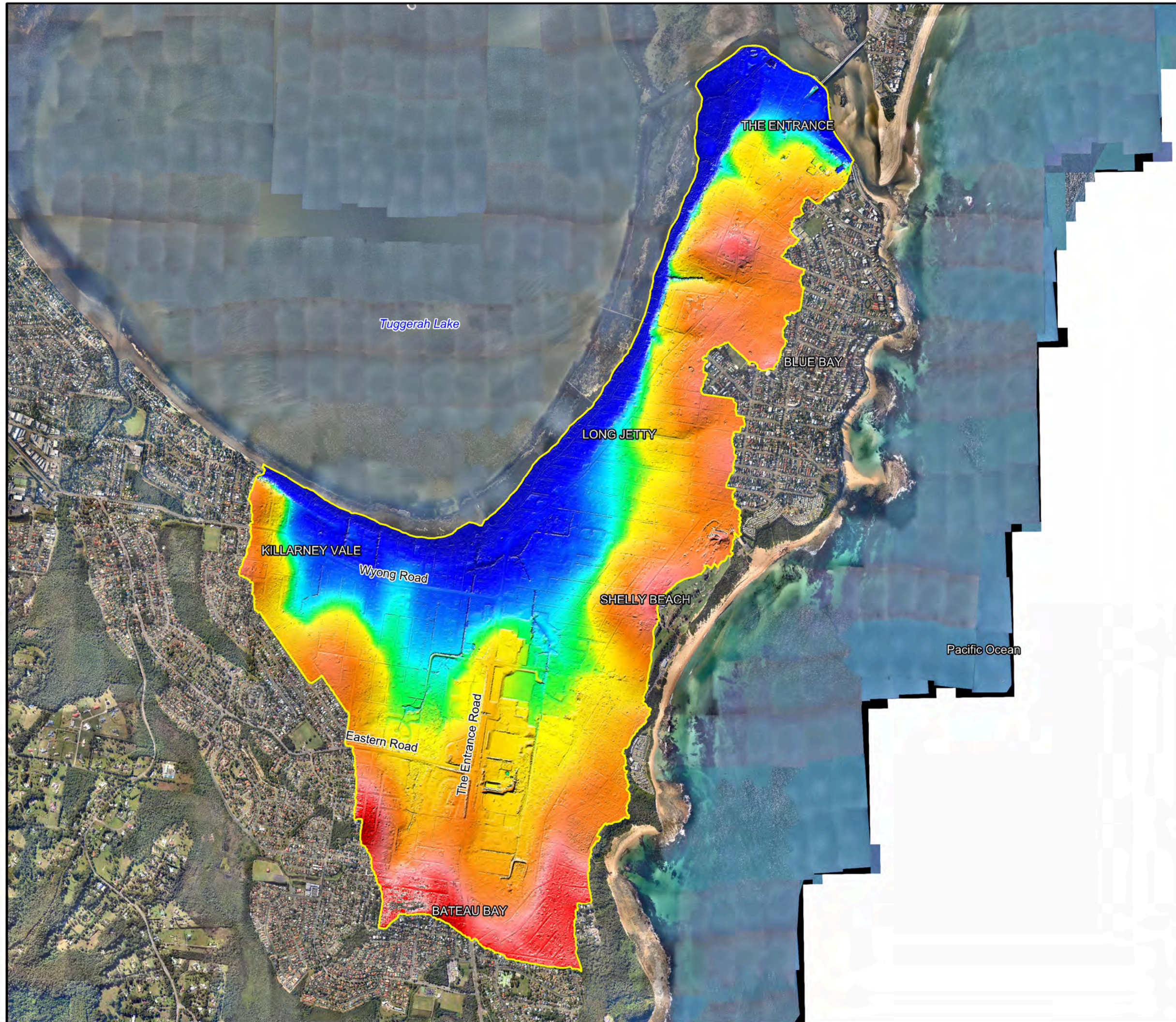
Notes:
Aerial photograph date: 2013



**Figure 2:
Existing Flood
Detention Basins**

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File Name: Fig2 Detention Basins.wor



LEGEND

Ground Surface Elevation (mAHD)

0
2
4
6
8
10
20
30
40

Notes:
Aerial photograph date: 2013

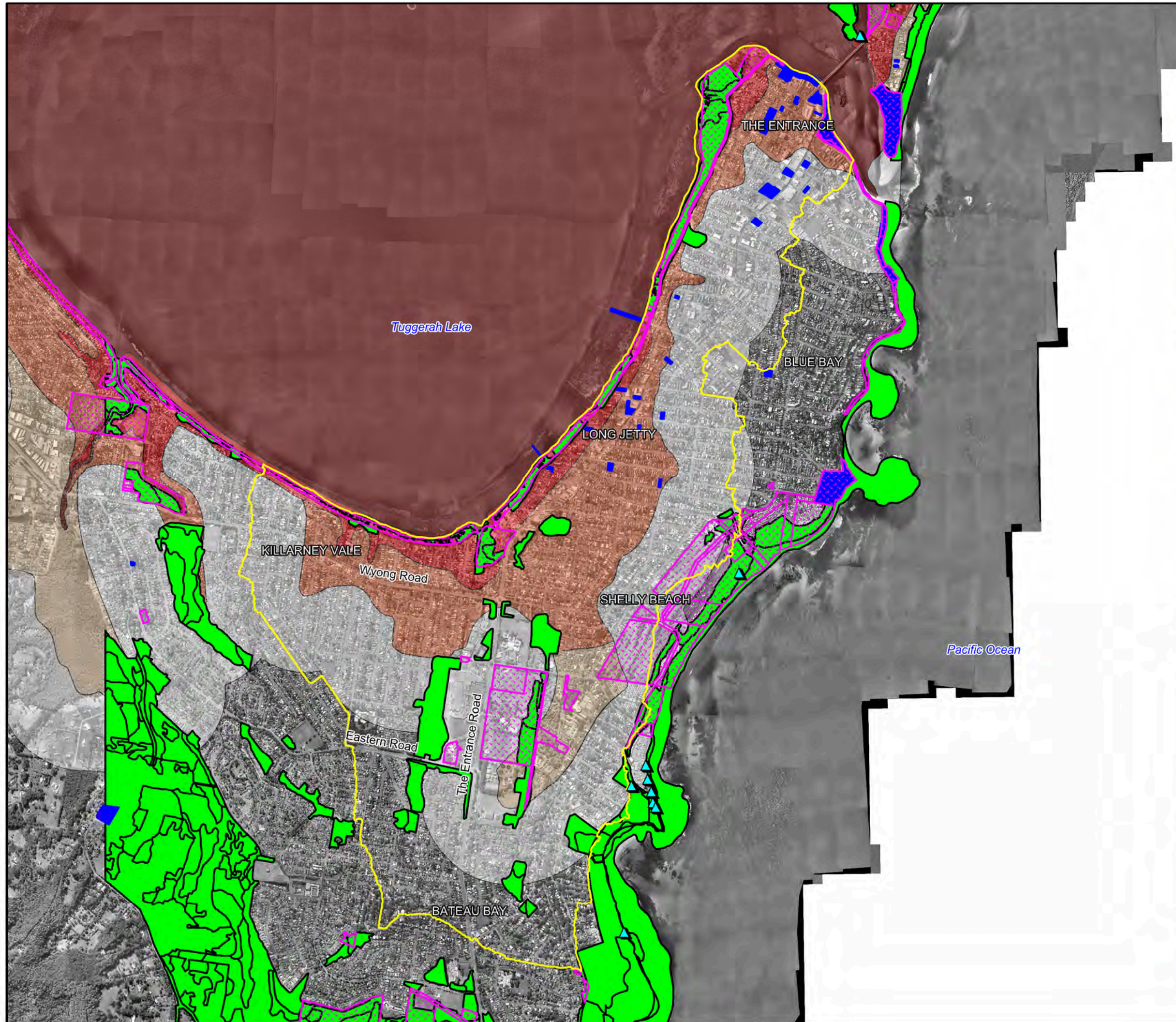
Scale 1:24,000 (at A3)

0 0.5 1.0 Km

**Figure 3:
Ground Surface
Elevations**

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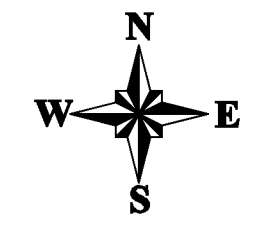
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LEGEND

- Catchment Boundary
 - Heritage Site
 - Vegetation Community
 - Reserves in Trust
 - Aboriginal Heritage Site
- Acid & Sulphate Soil Risk
- Class 1 (High)
 - Class 2
 - Class 3
 - Class 4
 - Class 5 (Low)

Notes:
Aerial photograph date: 2013



Scale 1:24,000 (at A3)
0 0.5 1.0
Km

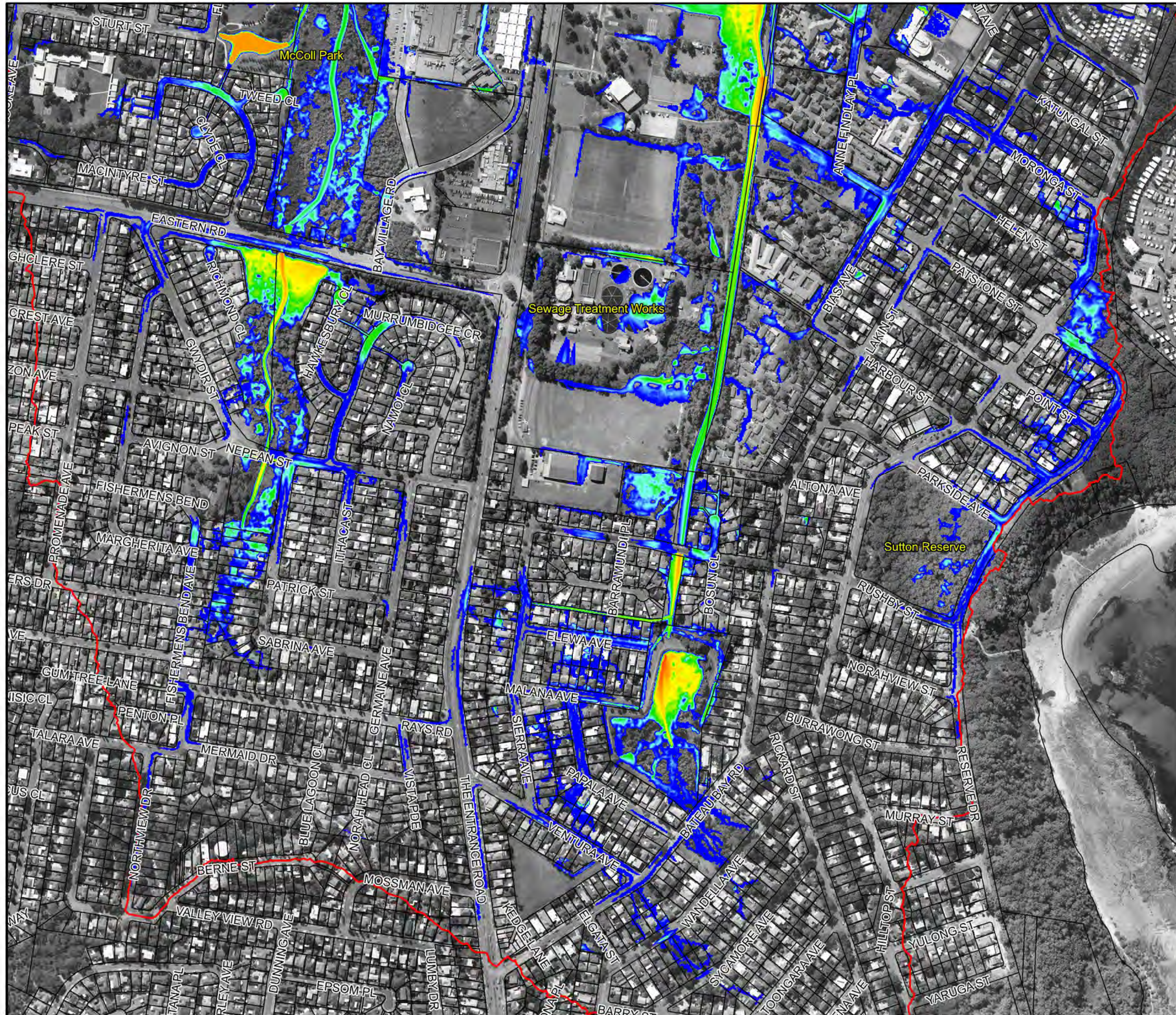
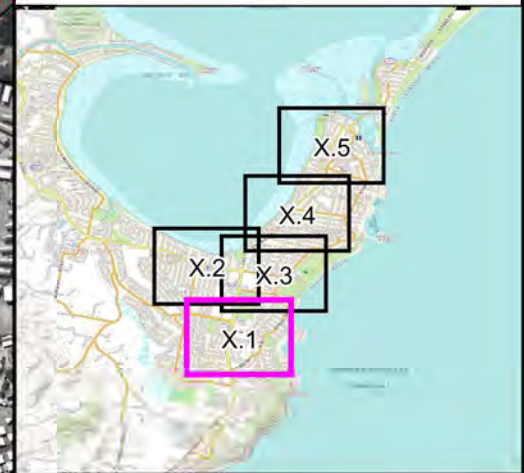
**Figure 4:
Environmental and
Heritage Constraints**

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File Name: Fig4 Environmental and Heritage Constraints.wor

FLOOD MAPS FOR EXISTING CONDITIONS





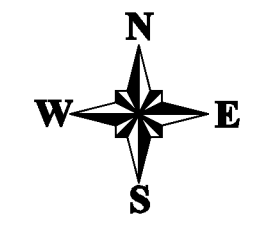
LEGEND

Depths (m)

■	<= 0.15
■	0.3
■	0.5
■	1.0
■	2.0
■	3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



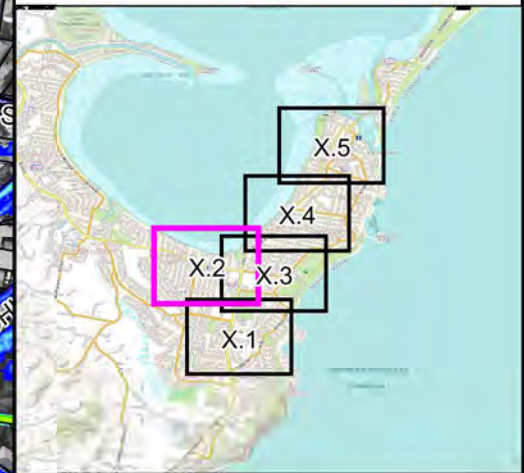
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Figure 5.1
Peak Floodwater
Depths for the
20% AEP Flood

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Depths for the 20% AEP Flood.wor



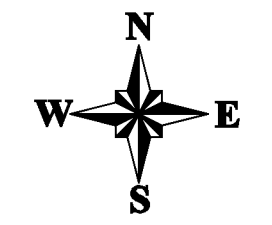
LEGEND

Depths (m)

Blue	<= 0.15
Cyan	0.3
Green	0.5
Yellow	1.0
Orange	2.0
Red	3.0

Tuggerah Lake Inundation Area.
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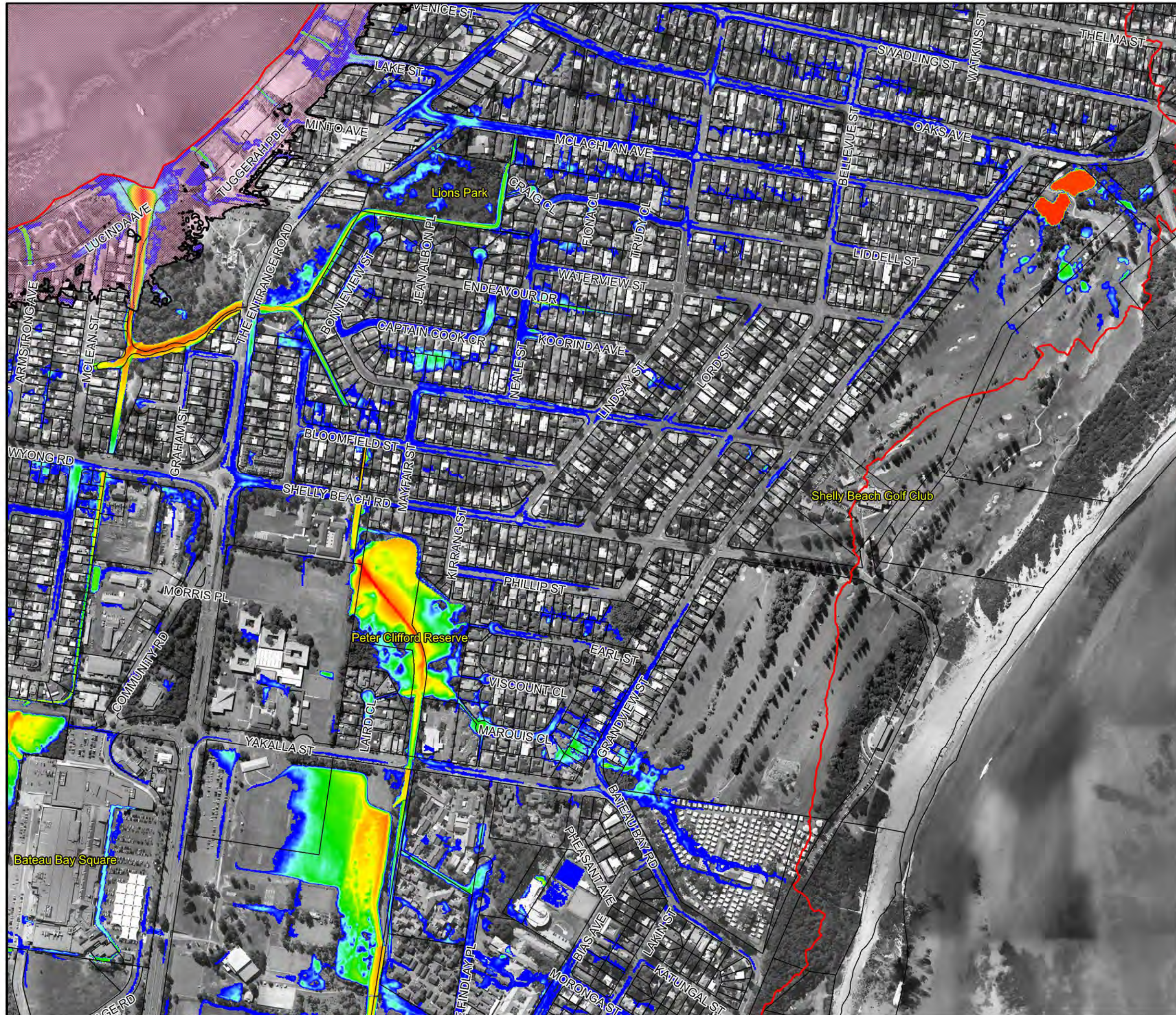
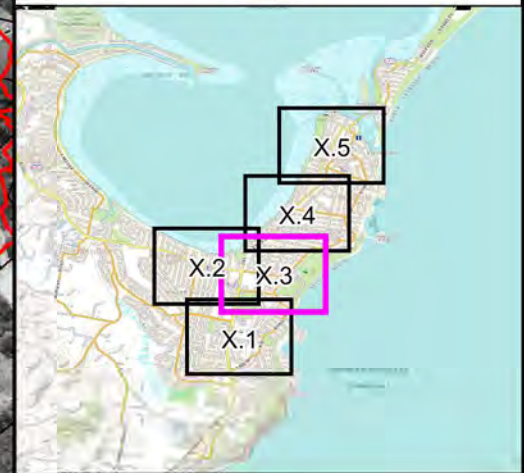
Scale 1:6,000 (at A3)



Figure 5.2
Peak Floodwater
Depths for the
20% AEP Flood

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 Sydney, NSW 2000

Depths for the 20% AEP Flood.wor



LEGEND

Depths (m)

- <= 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

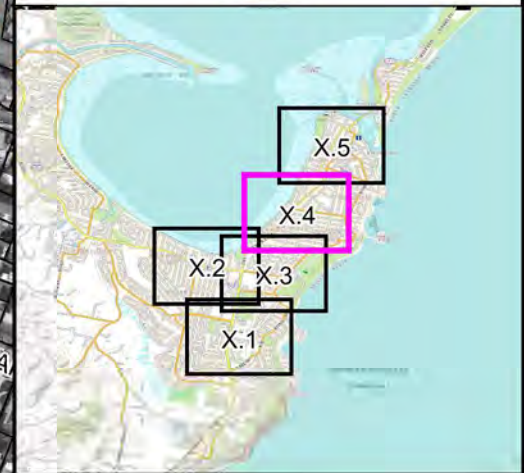
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Aerial photograph date: 2013

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Scale 1:6,000 (at A3)

0 0.15 0.3
Km

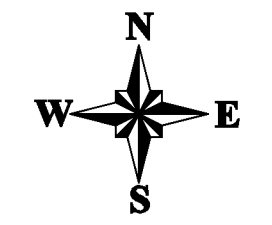
Figure 5.3
Peak Floodwater
Depths for the
20% AEP Flood



LEGEND

- Depths (m)
- <= 0.15
 - 0.3
 - 0.5
 - 1.0
 - 2.0
 - 3.0
- Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
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Aerial photograph date: 2013



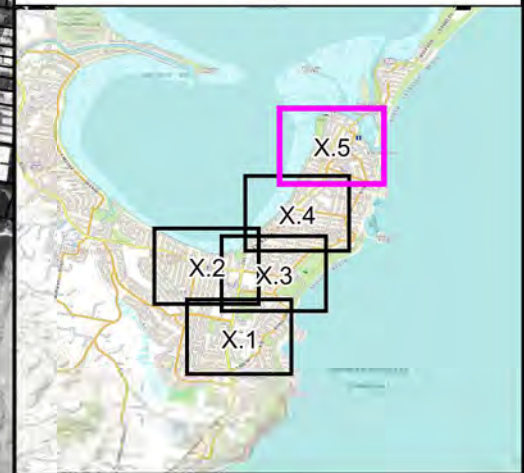
Scale 1:6,000 (at A3)



Figure 5.4
Peak Floodwater
Depths for the
20% AEP Flood

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Depths for the 20% AEP Flood.wor



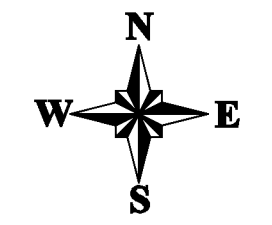
LEGEND

Depths (m)

Blue	<= 0.15
Cyan	0.3
Green	0.5
Yellow	1.0
Orange	2.0
Red	3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



Scale 1:6,000 (at A3)

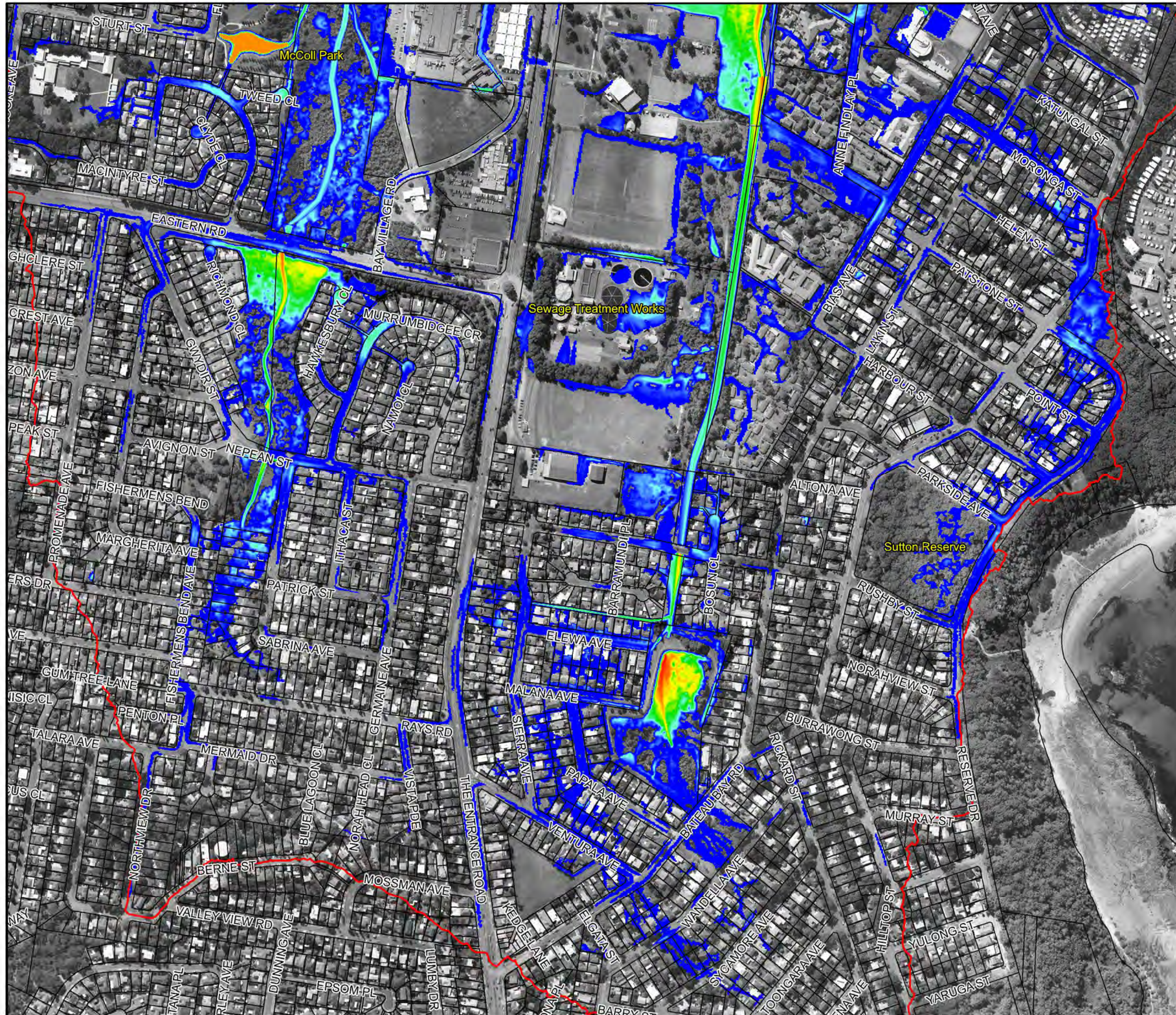
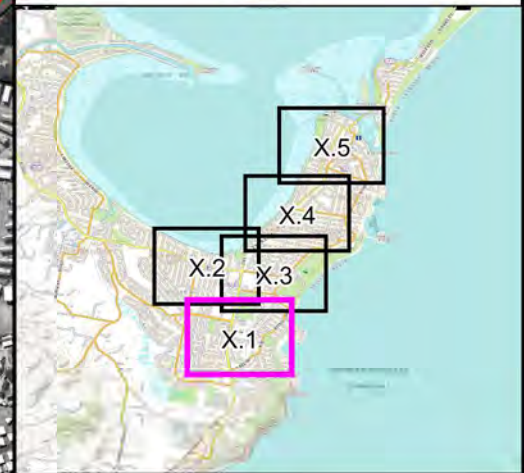


Figure 5.5
Peak Floodwater
Depths for the
20% AEP Flood

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Depths for the 20% AEP Flood.wor





LEGEND

Depths (m)

Blue	<= 0.15
Cyan	0.3
Green	0.5
Yellow	1.0
Orange	2.0
Red	3.0

Tuggerah Lake Inundation Area.
 Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
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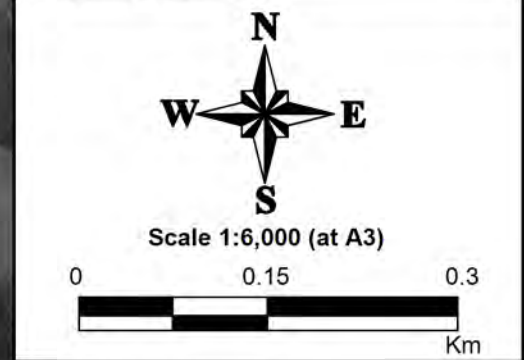
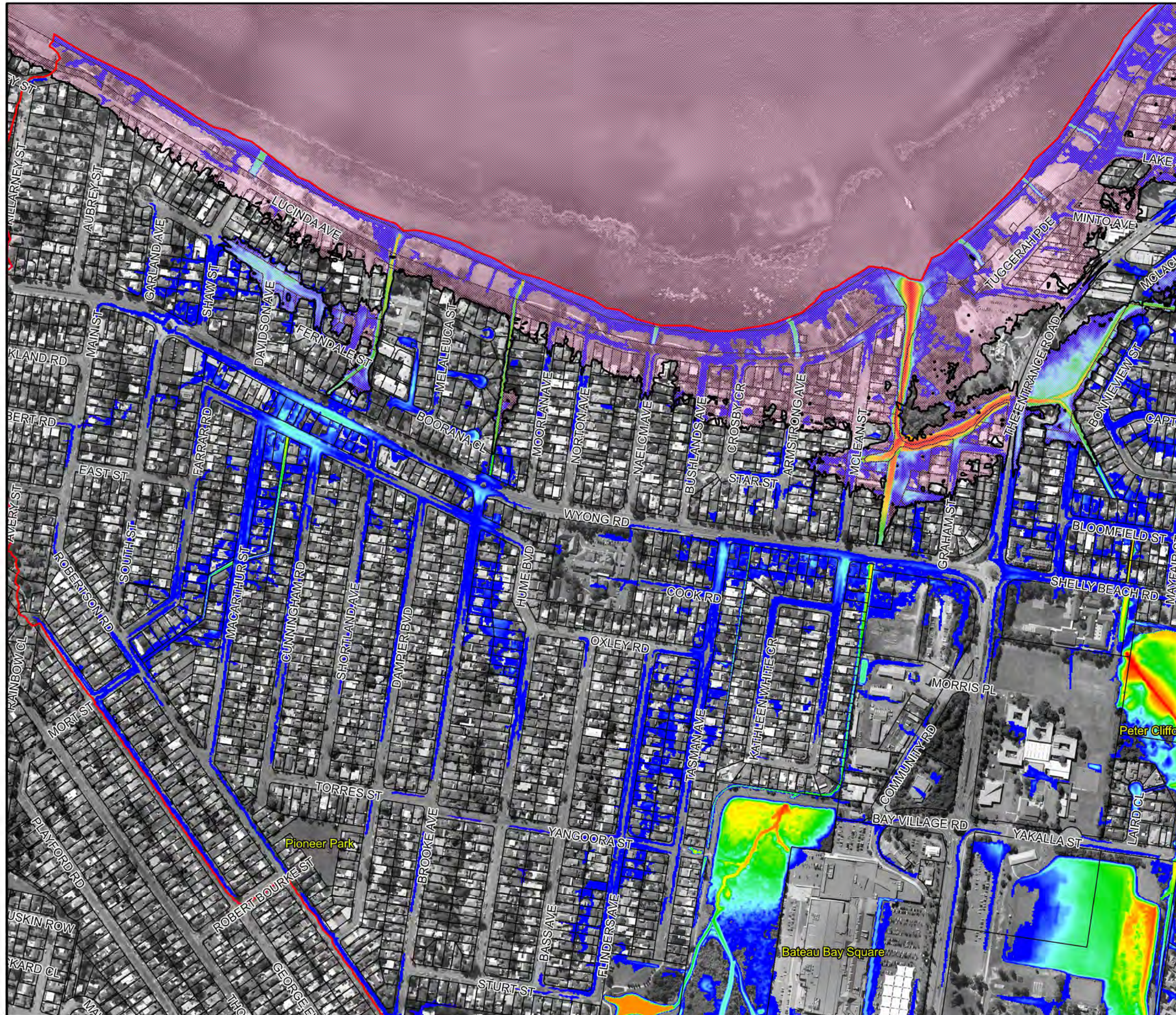
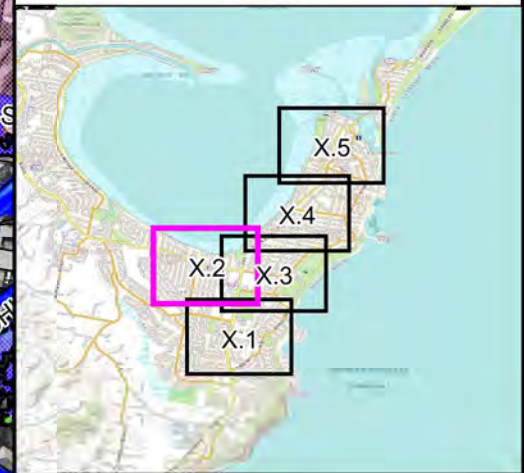


Figure 6.1
Peak Floodwater
Depths for the
5% AEP Flood

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 Sydney, NSW 2000



LEGEND

Depths (m)	
Blue	<= 0.15
Cyan	0.3
Green	0.5
Yellow	1.0
Orange	2.0
Red	3.0
Pink shaded area	Tuggerah Lake Inundation Area. Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013



Scale 1:6,000 (at A3)

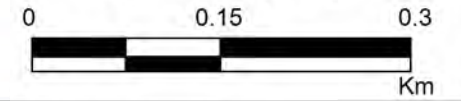
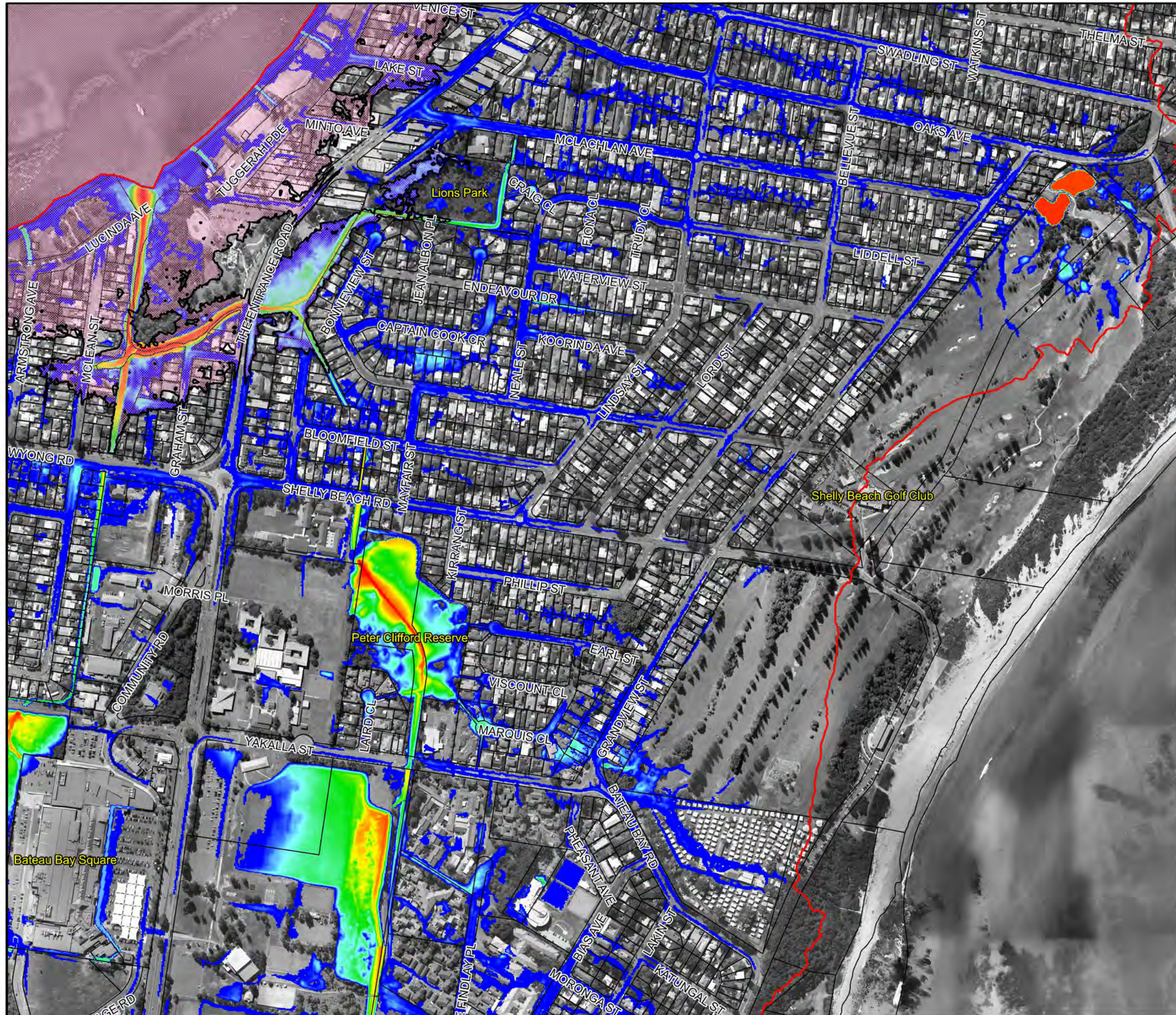
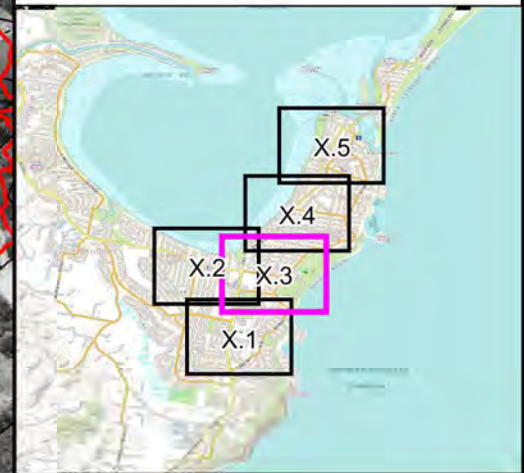


Figure 6.2
Peak Floodwater
Depths for the
5% AEP Flood

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 Sydney, NSW 2000

Depths for the 5% AEP Flood.wor



LEGEND

Depths (m)

- <= 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

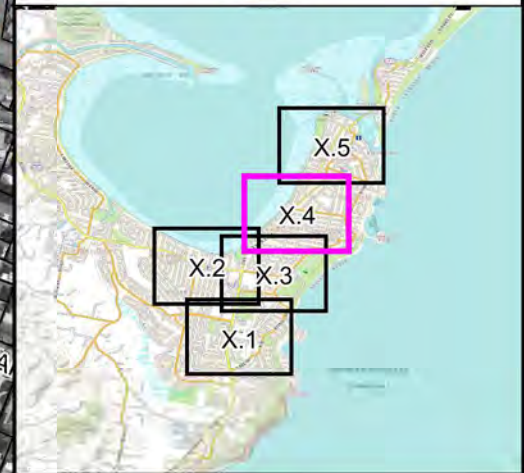
Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

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Scale 1:6,000 (at A3)

0 0.15 0.3
Km

Figure 6.3
Peak Floodwater
Depths for the
5% AEP Flood



LEGEND

Depths (m)

Blue	<= 0.15
Cyan	0.3
Green	0.5
Yellow	1.0
Orange	2.0
Red	3.0

Tuggerah Lake Inundation Area.
 Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
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 Aerial photograph date: 2013



Scale 1:6,000 (at A3)

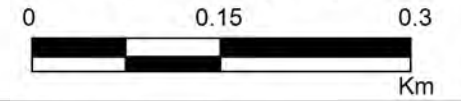
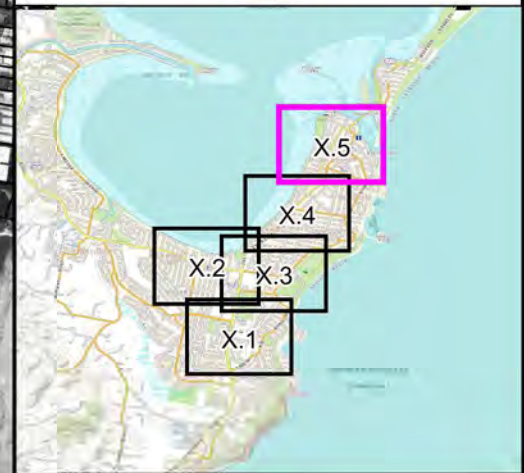


Figure 6.4
Peak Floodwater
Depths for the
5% AEP Flood

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 Sydney, NSW 2000

Depths for the 5% AEP Flood.wor



LEGEND

Depths (m)

- Blue: <= 0.15
- Cyan: 0.3
- Green: 0.5
- Yellow: 1.0
- Orange: 2.0
- Red: 3.0

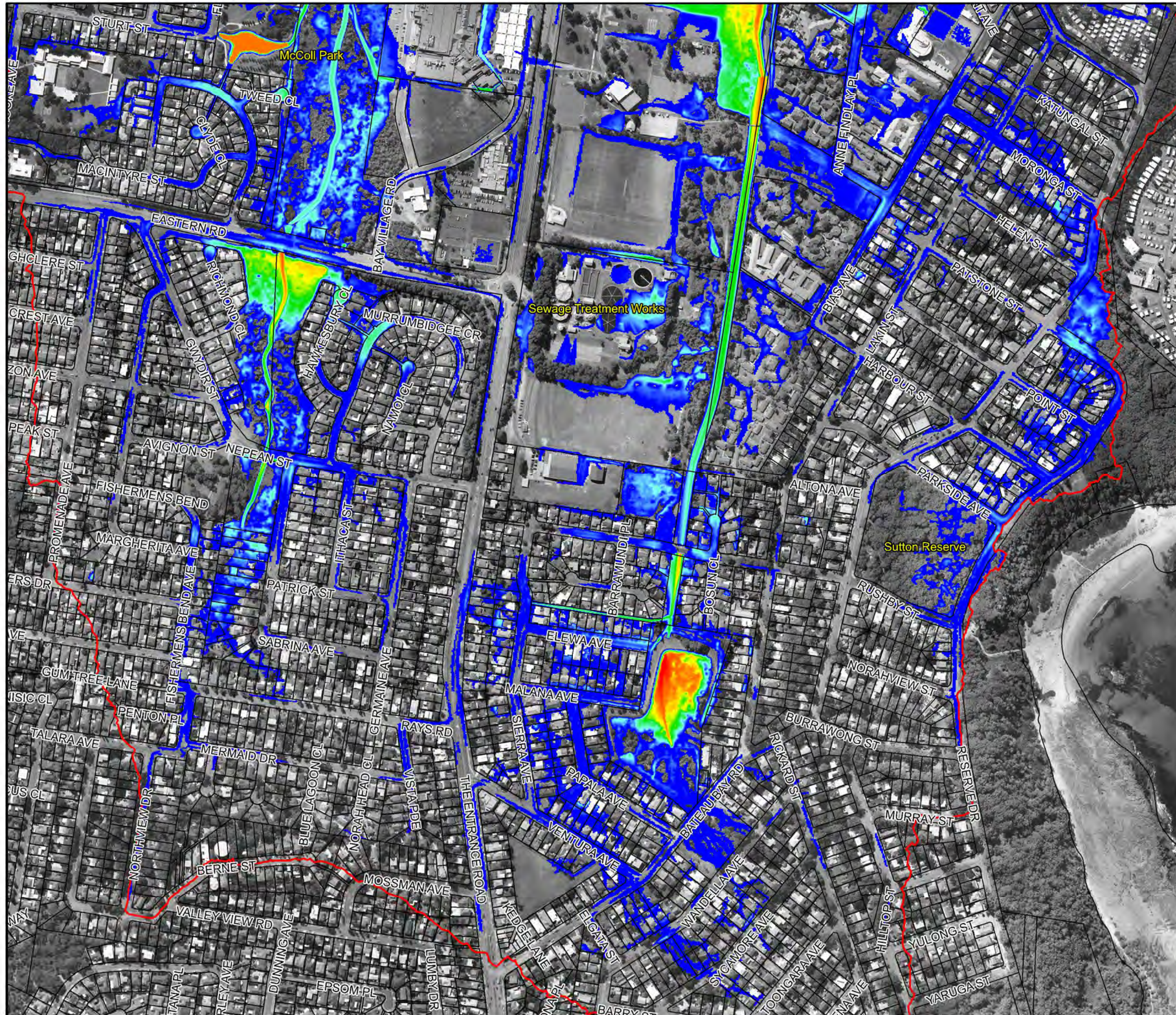
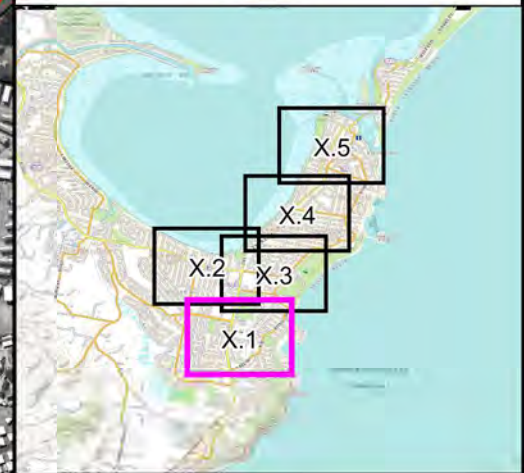
Tuggerah Lake Inundation Area. Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

Scale 1:6,000 (at A3)

0 0.15 0.3 Km

Figure 6.5
Peak Floodwater
Depths for the
5% AEP Flood



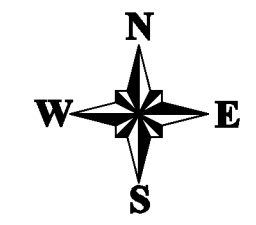
LEGEND

Depths (m)

Blue	<= 0.15
Cyan	0.3
Green	0.5
Yellow	1.0
Orange	2.0
Red	3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

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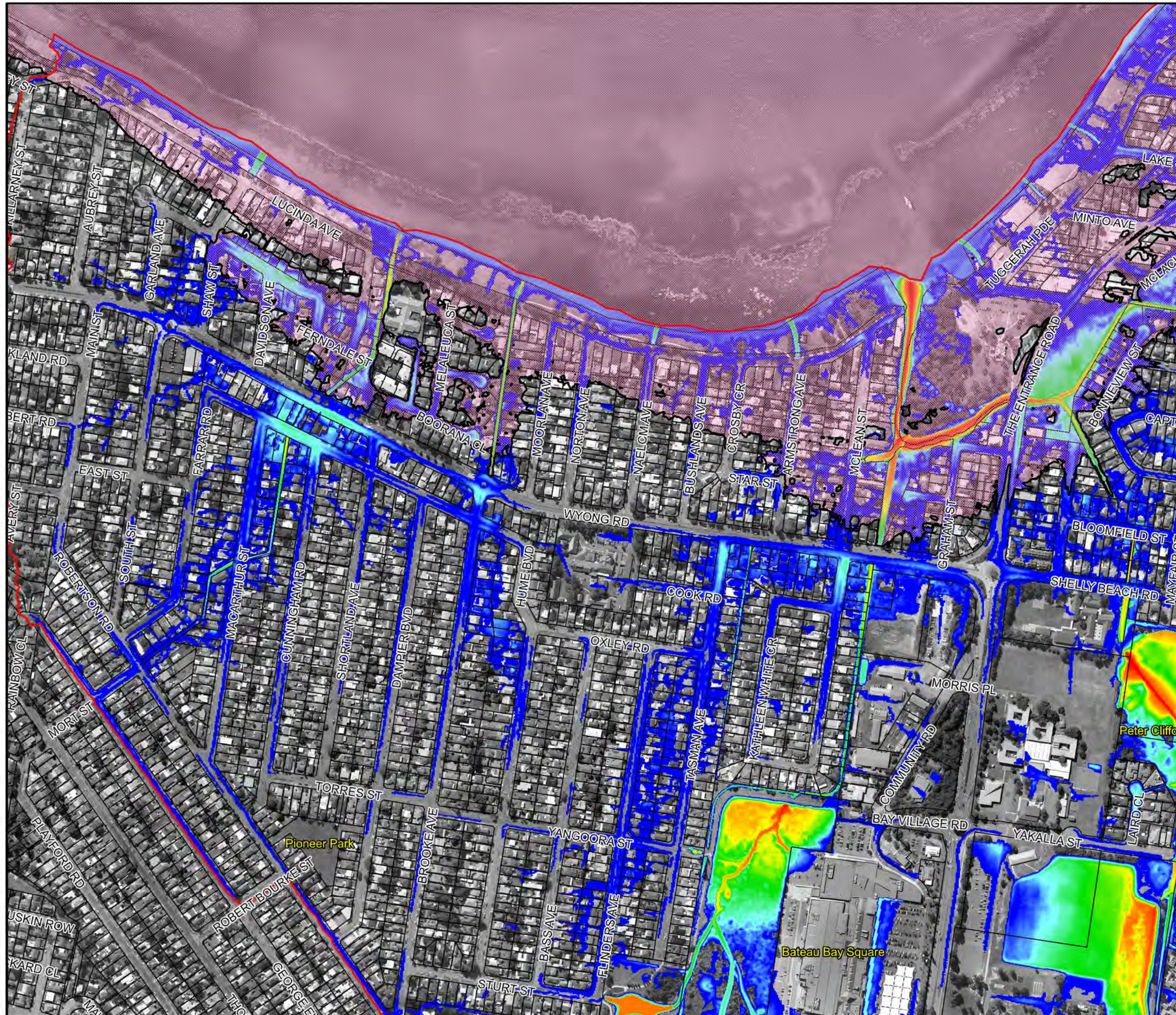
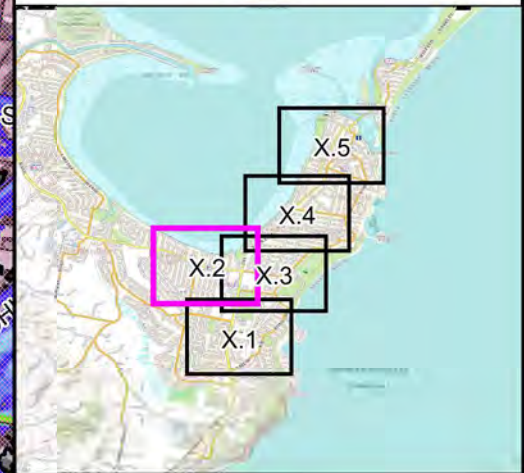
Scale 1:6,000 (at A3)



Figure 7.1
Peak Floodwater
Depths for the
1% AEP Flood

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Sydney, NSW 2000

Depths for the 1% AEP Flood.wor



LEGEND

Depths (m)

- <= 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
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Aerial photograph date: 2013

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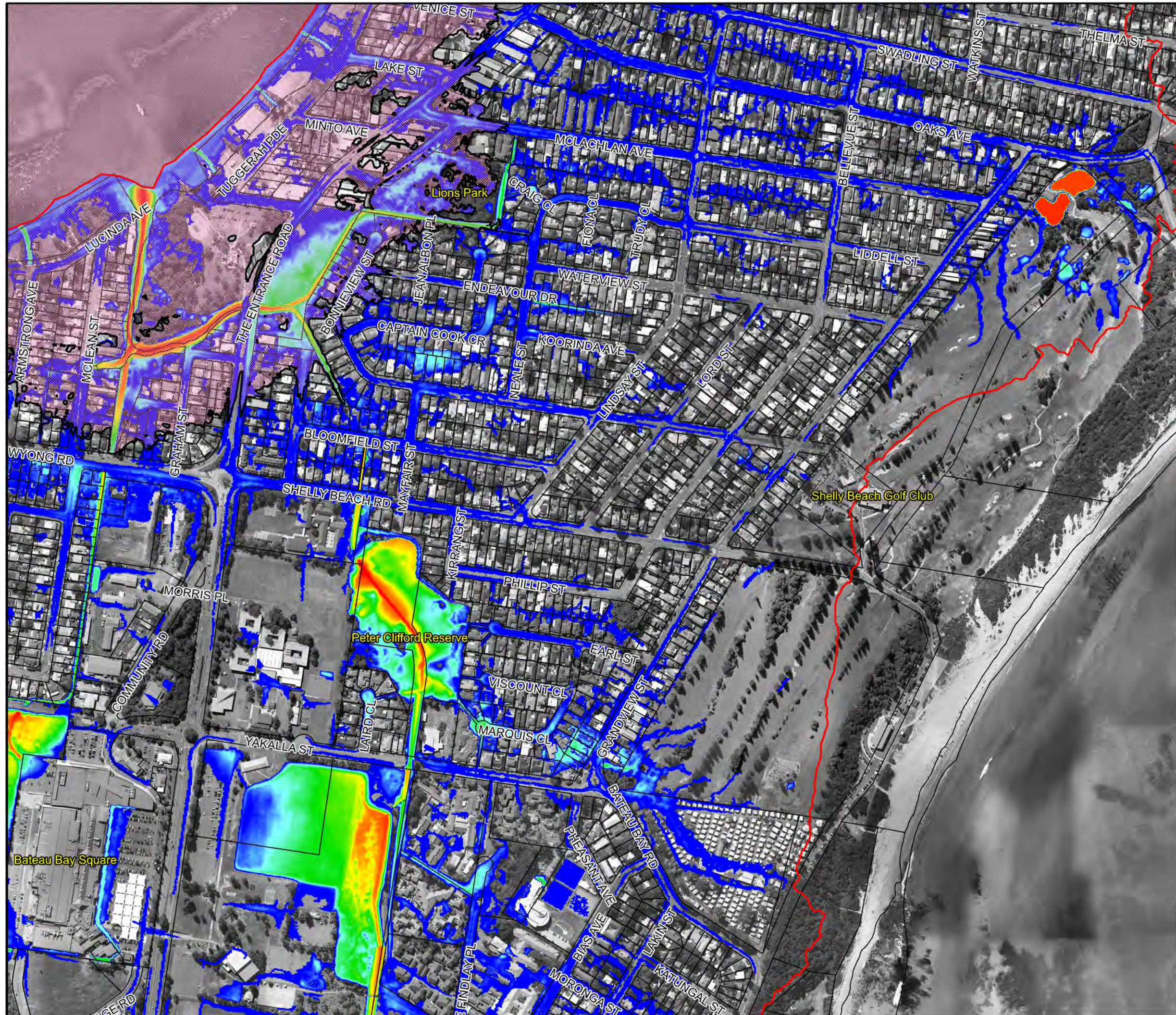
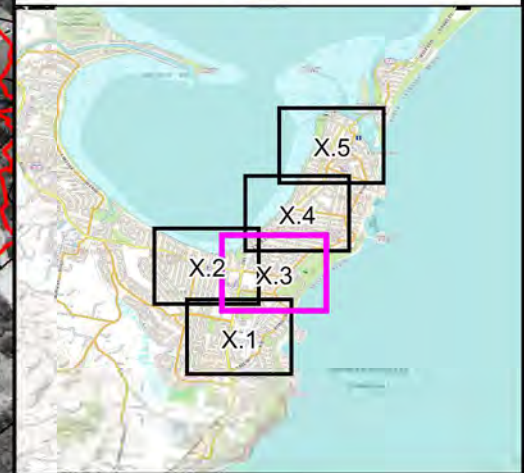
Scale 1:6,000 (at A3)

0 0.15 0.3
Km

Figure 7.2
Peak Floodwater
Depths for the
1% AEP Flood

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Depths for the 1% AEP Flood.wor



LEGEND

Depths (m)

- <= 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

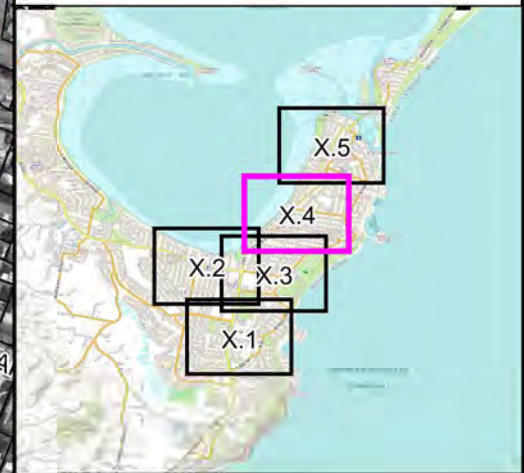
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Scale 1:6,000 (at A3)

0 0.15 0.3
Km

Figure 7.3
Peak Floodwater
Depths for the
1% AEP Flood



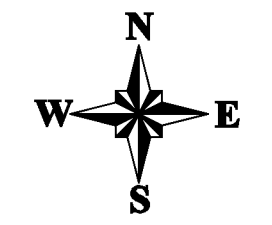
LEGEND

Depths (m)

Blue	<= 0.15
Cyan	0.3
Green	0.5
Yellow	1.0
Orange	2.0
Red	3.0

Tuggerah Lake Inundation Area.
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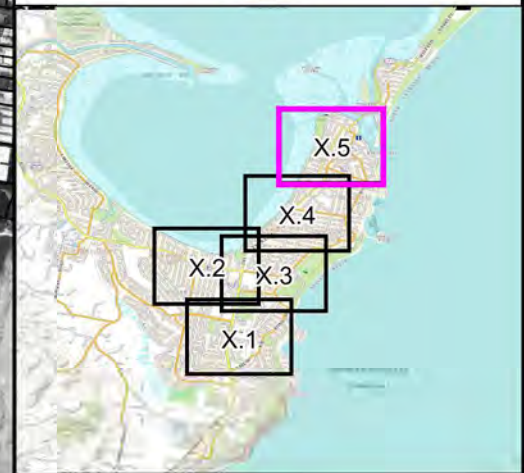
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Figure 7.4
Peak Floodwater
Depths for the
1% AEP Flood

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Depths for the 1% AEP Flood.wor



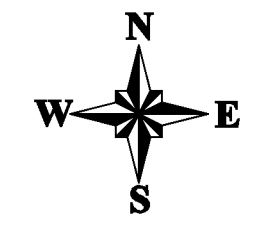
LEGEND

Depths (m)

Blue	<= 0.15
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Orange	2.0
Red	3.0

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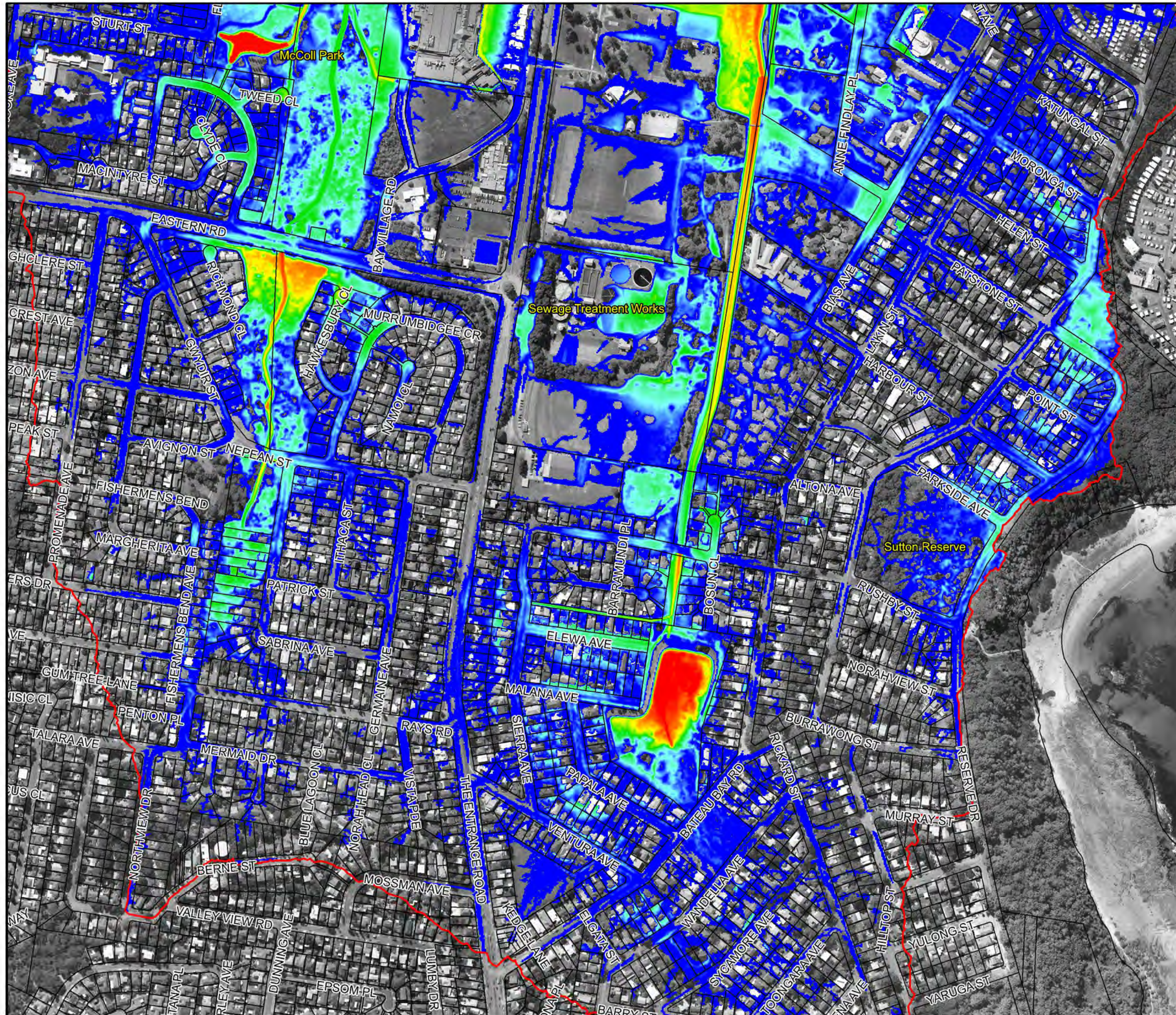
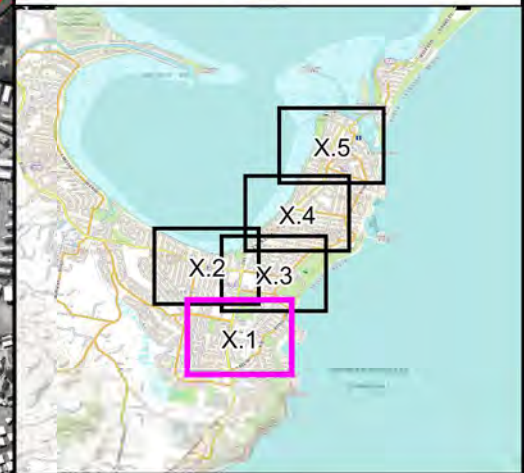


Figure 7.5
Peak Floodwater
Depths for the
1% AEP Flood

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 Catchment Simulation Solutions
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Sydney, NSW 2000

Depths for the 1% AEP Flood.wor





LEGEND

Depths (m)

Blue	<= 0.15
Cyan	0.3
Green	0.5
Yellow	1.0
Orange	2.0
Red	3.0

Tuggerah Lake Inundation Area.
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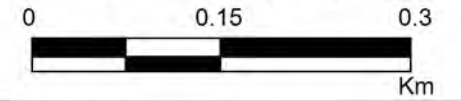
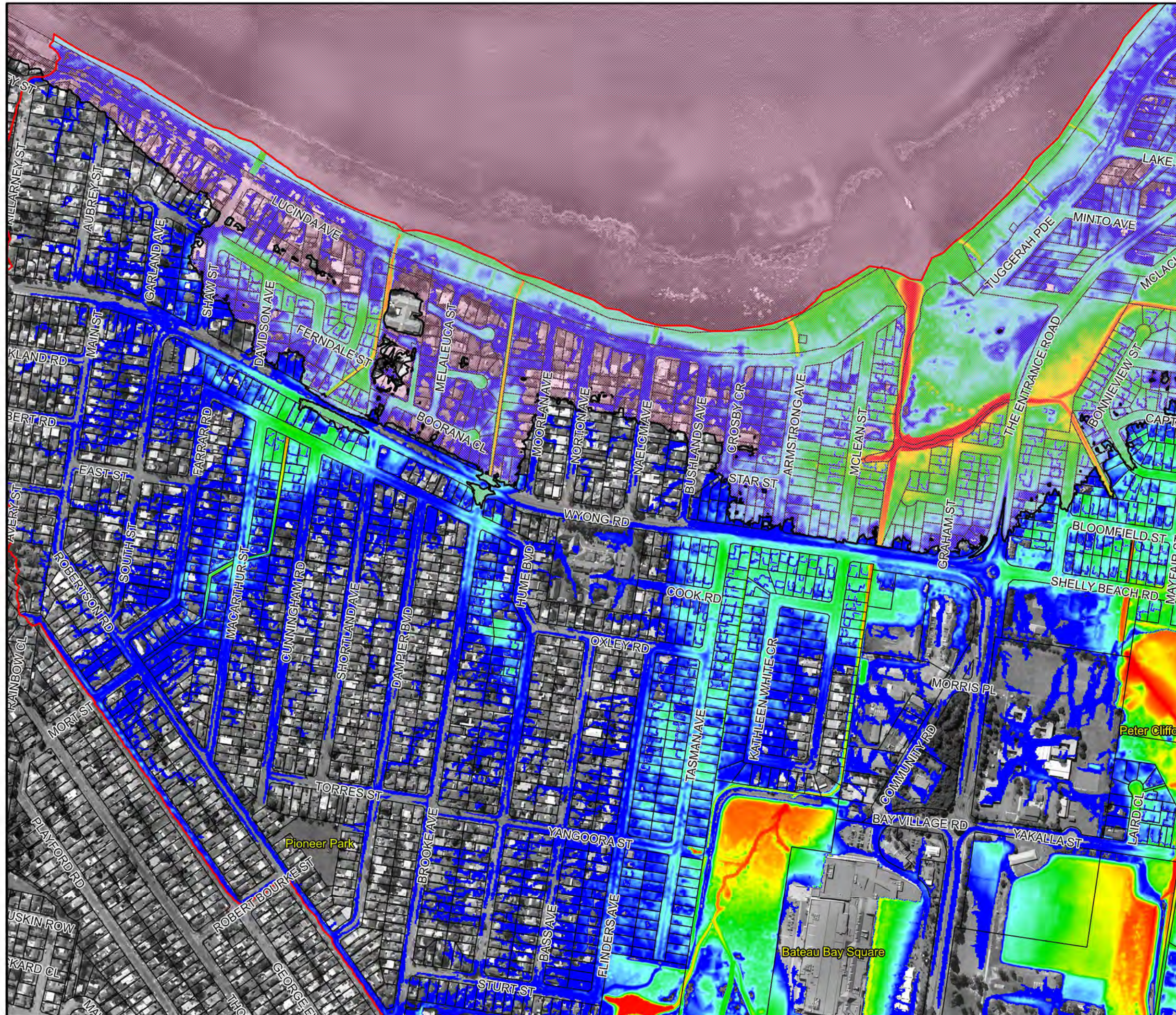
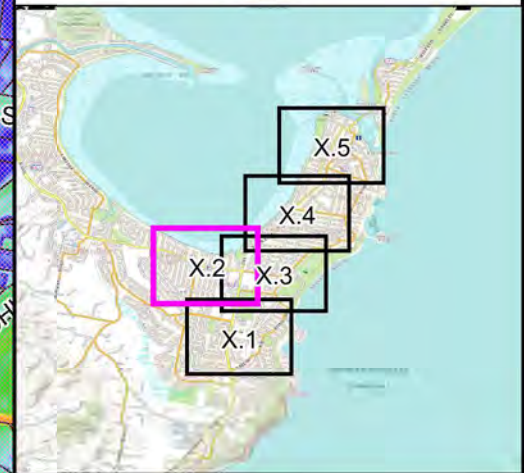


Figure 8.1
Peak Floodwater
Depths for the
PMF

Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

Depths for the PMF.wor



LEGEND

Depths (m)

- <= 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

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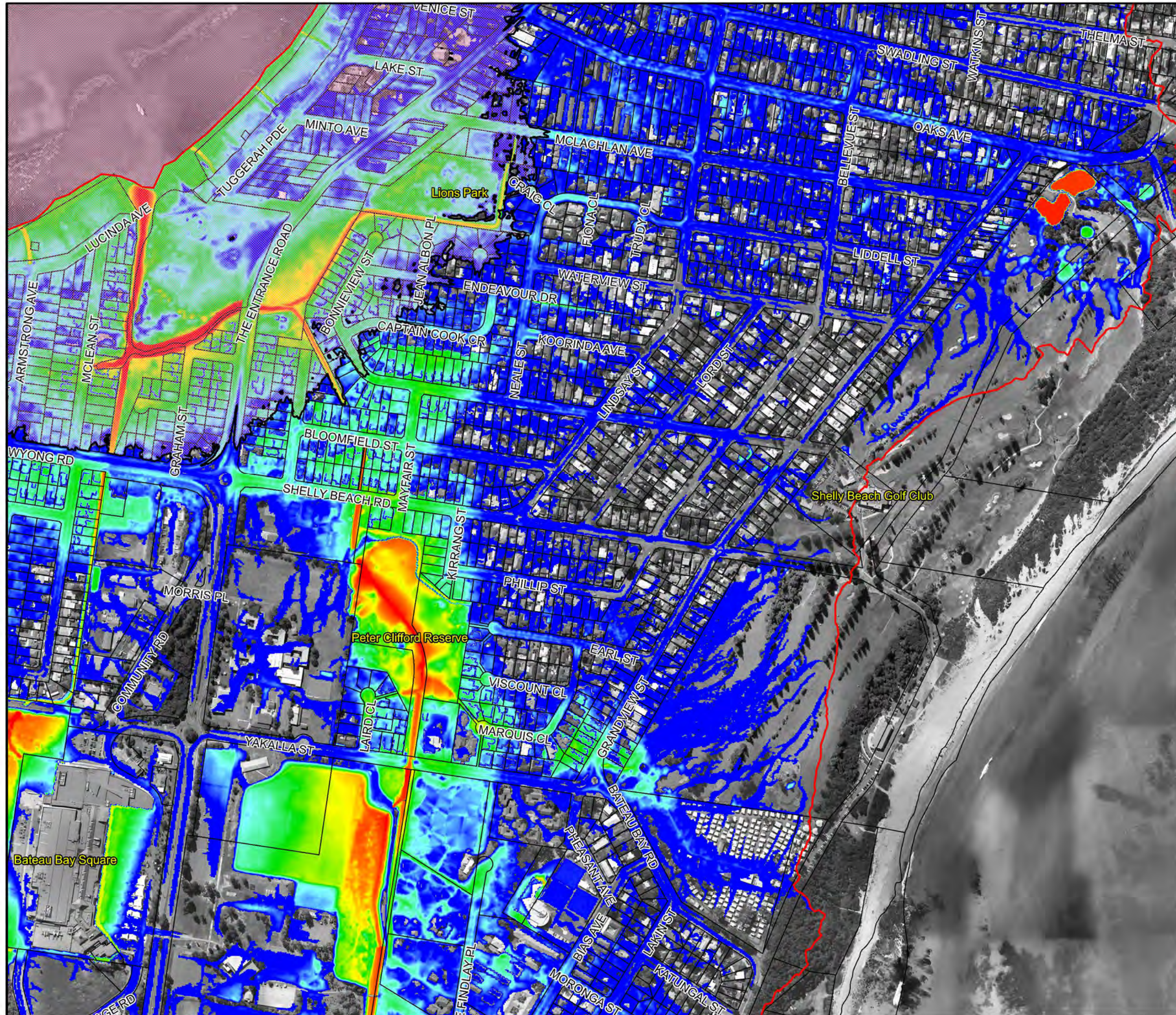
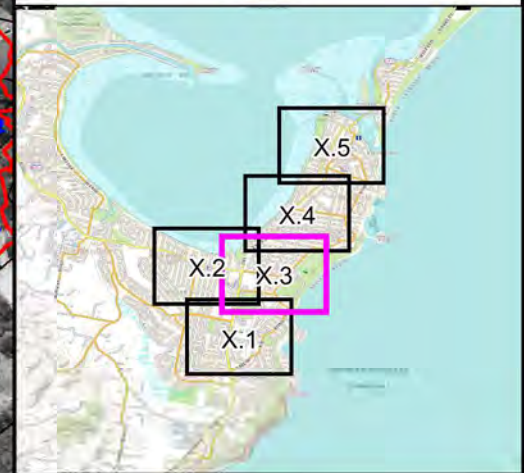
Scale 1:6,000 (at A3)

0 0.15 0.3
Km

Figure 8.2
Peak Floodwater
Depths for the
PMF

Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

Depths for the PMF.wor



LEGEND

Depths (m)

- <= 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

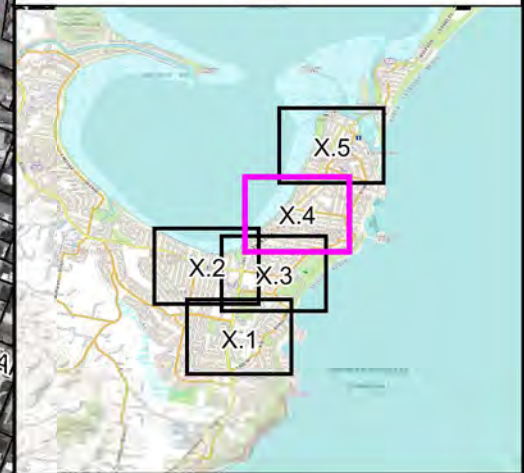
Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

N
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S

Scale 1:6,000 (at A3)

0 0.15 0.3
Km

Figure 8.3
Peak Floodwater
Depths for the
PMF



LEGEND

Depths (m)

- <= 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013

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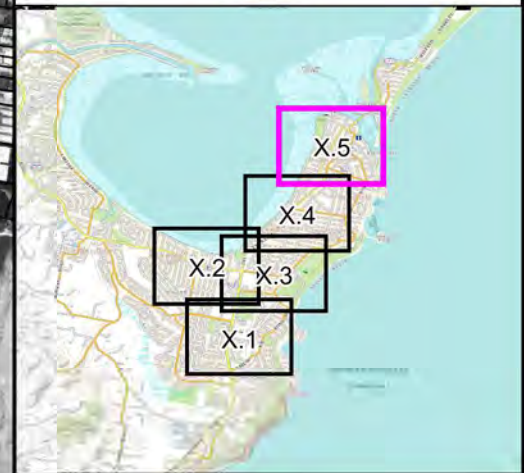
Scale 1:6,000 (at A3)

0 0.15 0.3
Km

Figure 8.4
Peak Floodwater
Depths for the
PMF

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

Depths for the PMF.wor



LEGEND

Depths (m)	
	<= 0.15
	0.3
	0.5
	1.0
	2.0
	3.0
	Tuggerah Lake Inundation Area. Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
Results are filtered based on criteria in Section 3.2.2 of Volume 1
Aerial photograph date: 2013



Scale 1:6,000 (at A3)

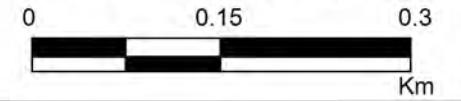
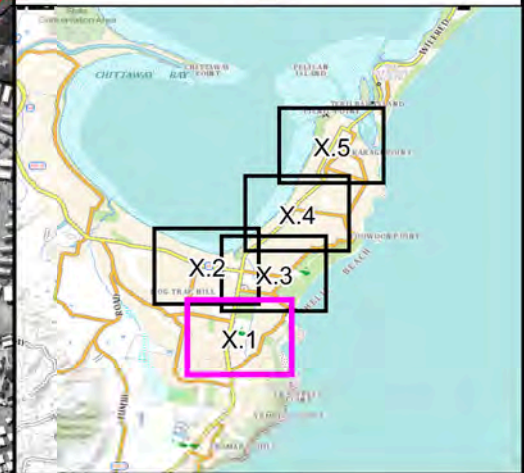


Figure 8.5
Peak Floodwater
Depths for the
PMF

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

Depths for the PMF.wor





LEGEND

- Catchment Boundary
- Failure AEP**
- <20%AEP
- 20%AEP
- 5%AEP
- 1%AEP or better
- Pit Failure Type**
- No Failure
- Surcharge
- Ponding

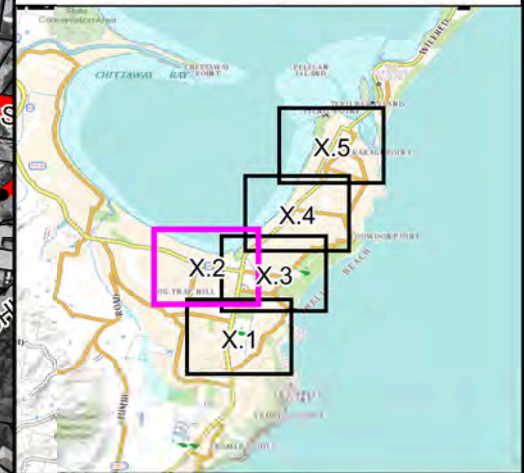
Notes:
Aerial photograph date: 2013

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Scale 1:6,000 (at A3)

0 0.15 0.3
Km

Figure 9.1
Stormwater Capacity



LEGEND

- Catchment Boundary
- Failure AEP**
 - <20%AEP
 - 20%AEP
 - 5%AEP
 - 1%AEP or better
- Pit Failure Type**
 - No Failure
 - Surcharge
 - Ponding

Notes:
Aerial photograph date: 2013

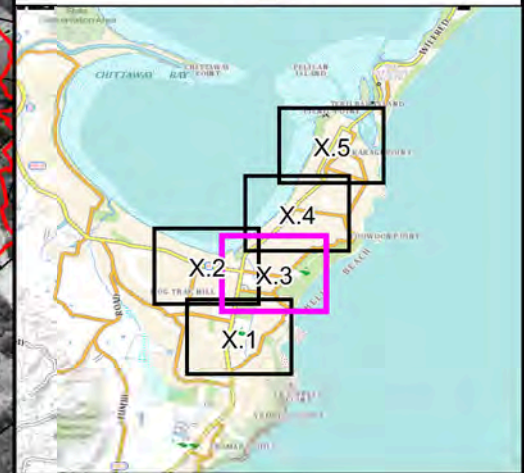
N
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Scale 1:6,000 (at A3)

0 0.15 0.3
Km

Figure 9.2
Stormwater Capacity

Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000
Stormwater Capacity.wor



LEGEND

- Catchment Boundary
- Failure AEP**

 - <20%AEP
 - 20%AEP
 - 5%AEP
 - 1%AEP or better

- Pit Failure Type**

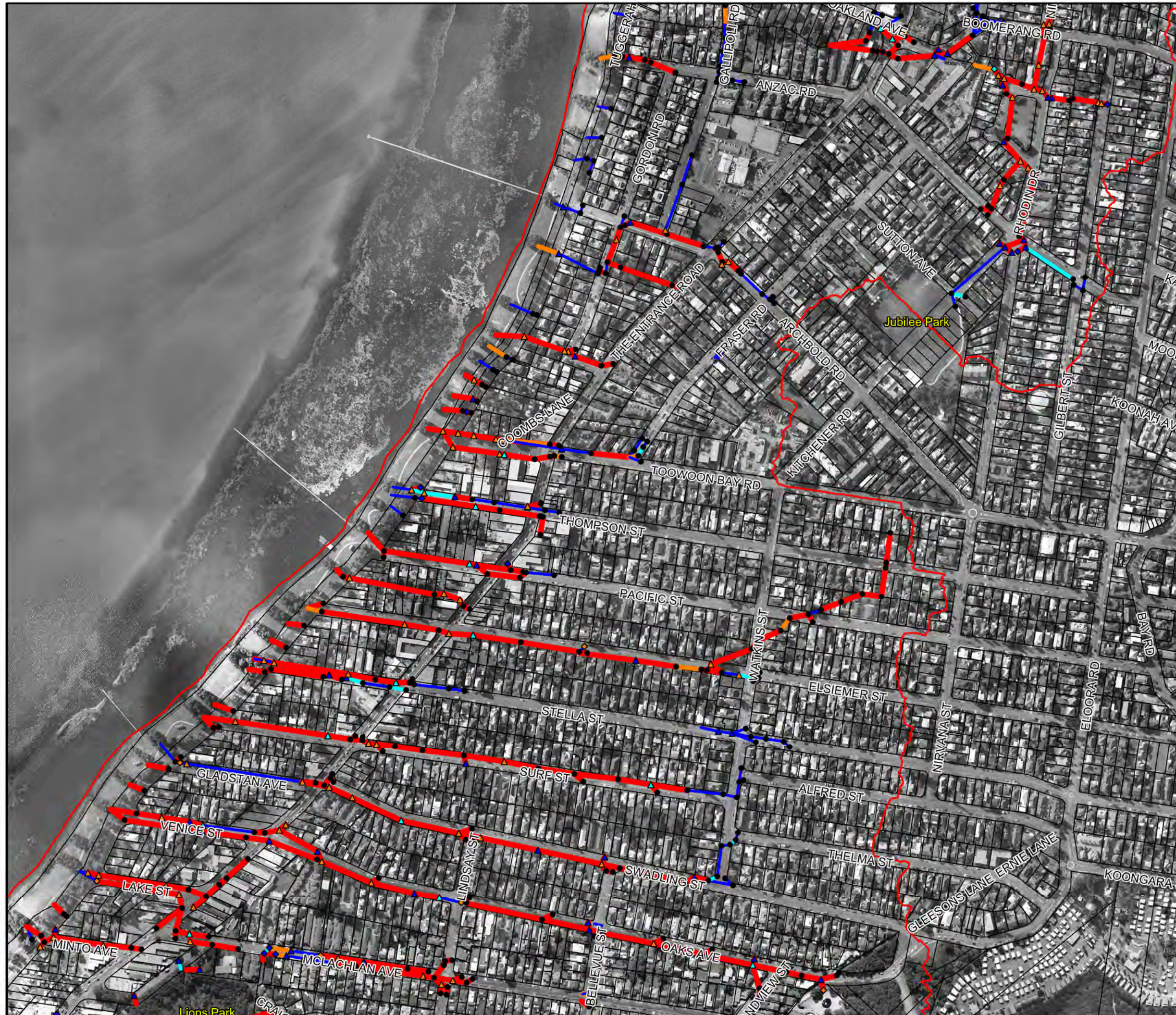
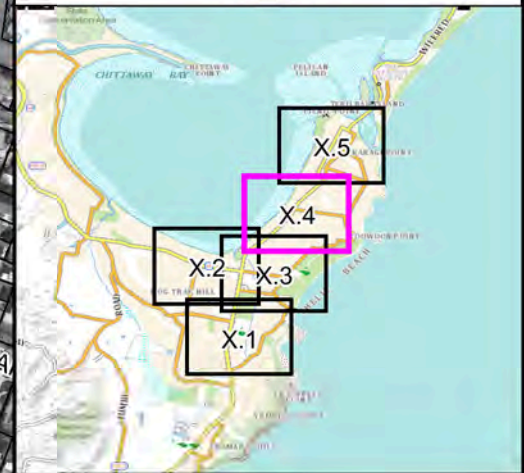
 - No Failure
 - Surcharge
 - Ponding

Notes:
Aerial photograph date: 2013

Scale 1:6,000 (at A3)

0 0.15 0.3 Km

Figure 9.3
Stormwater Capacity



LEGEND

- Catchment Boundary
- Failure AEP**
 - <20%AEP
 - 20%AEP
 - 5%AEP
 - 1%AEP or better
- Pit Failure Type**
 - No Failure
 - Surcharge
 - Ponding

Notes:
Aerial photograph date: 2013

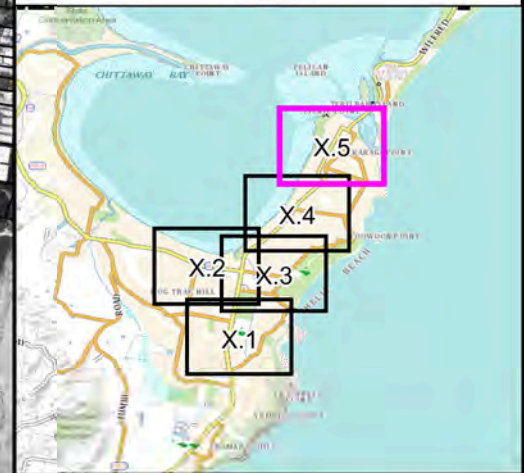
N
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Scale 1:6,000 (at A3)

0 0.15 0.3
Km

Figure 9.4
Stormwater Capacity

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000
 Stormwater Capacity.wor



LEGEND

- Catchment Boundary
- Failure AEP**
- <20%AEP
- 20%AEP
- 5%AEP
- 1%AEP or better
- Pit Failure Type**
- No Failure
- Surcharge
- Ponding

Notes:
Aerial photograph date: 2013

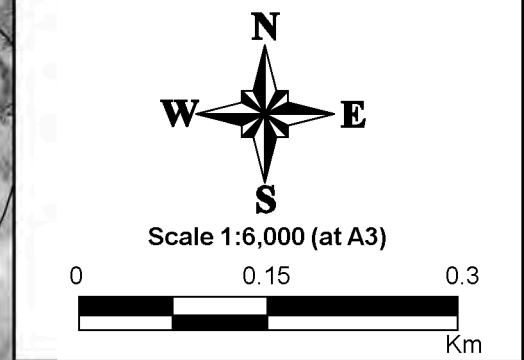
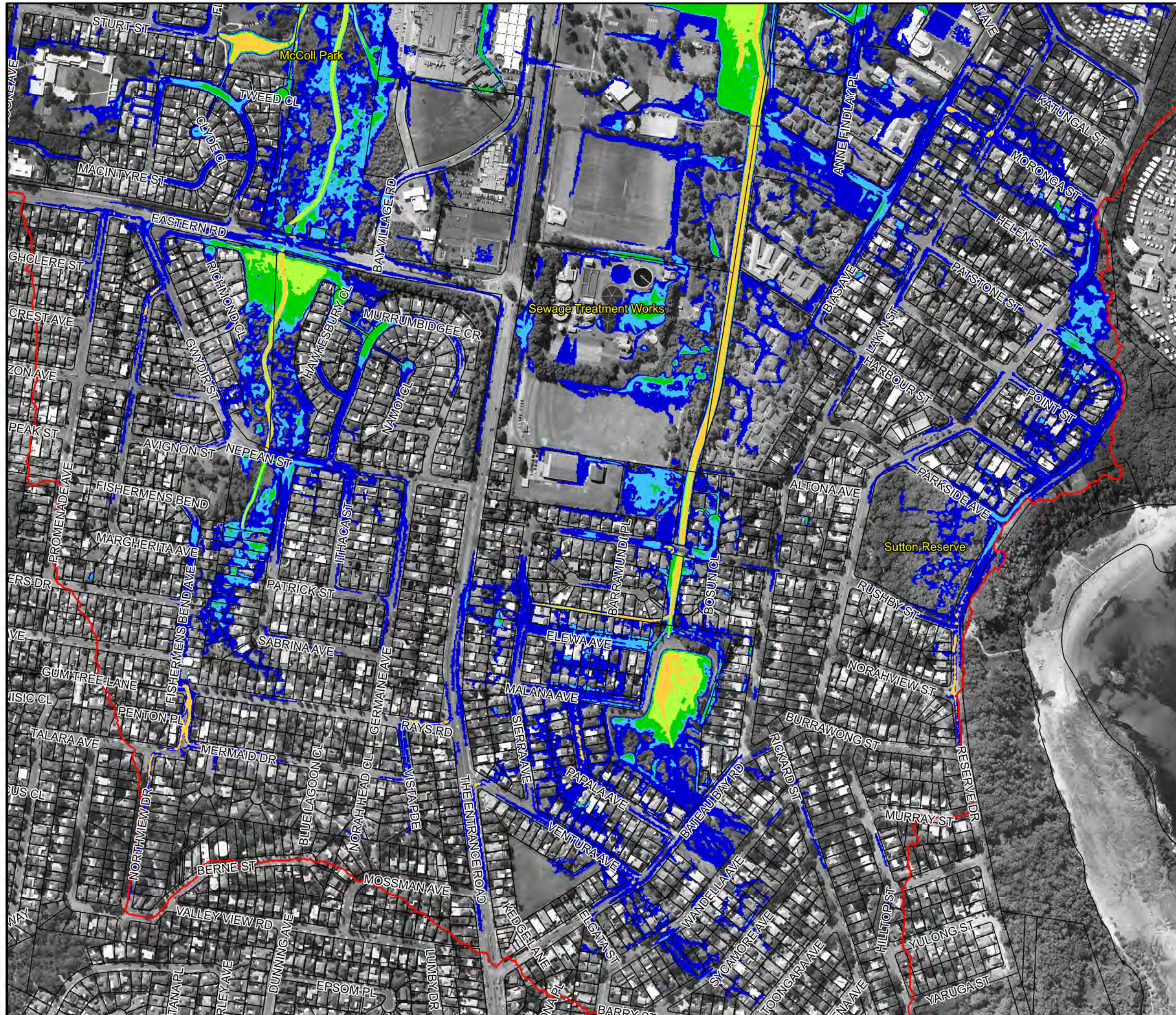
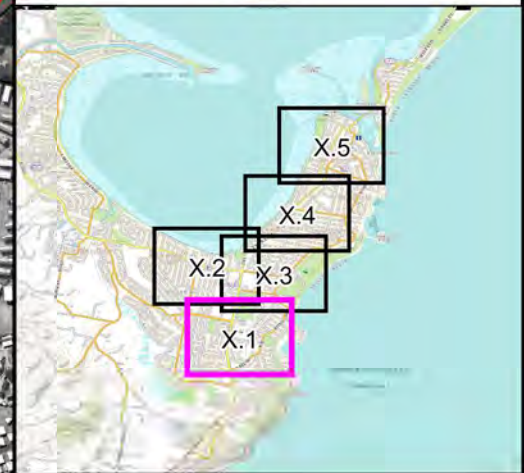


Figure 9.5
Stormwater Capacity

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000
 Stormwater Capacity.wor





LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
 - Tuggerah Lake Inundation Area. Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

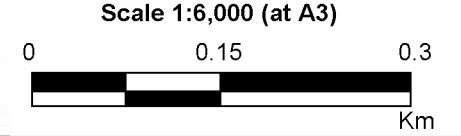
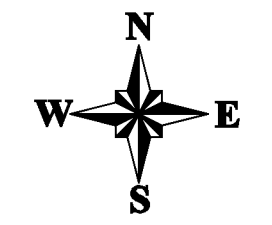
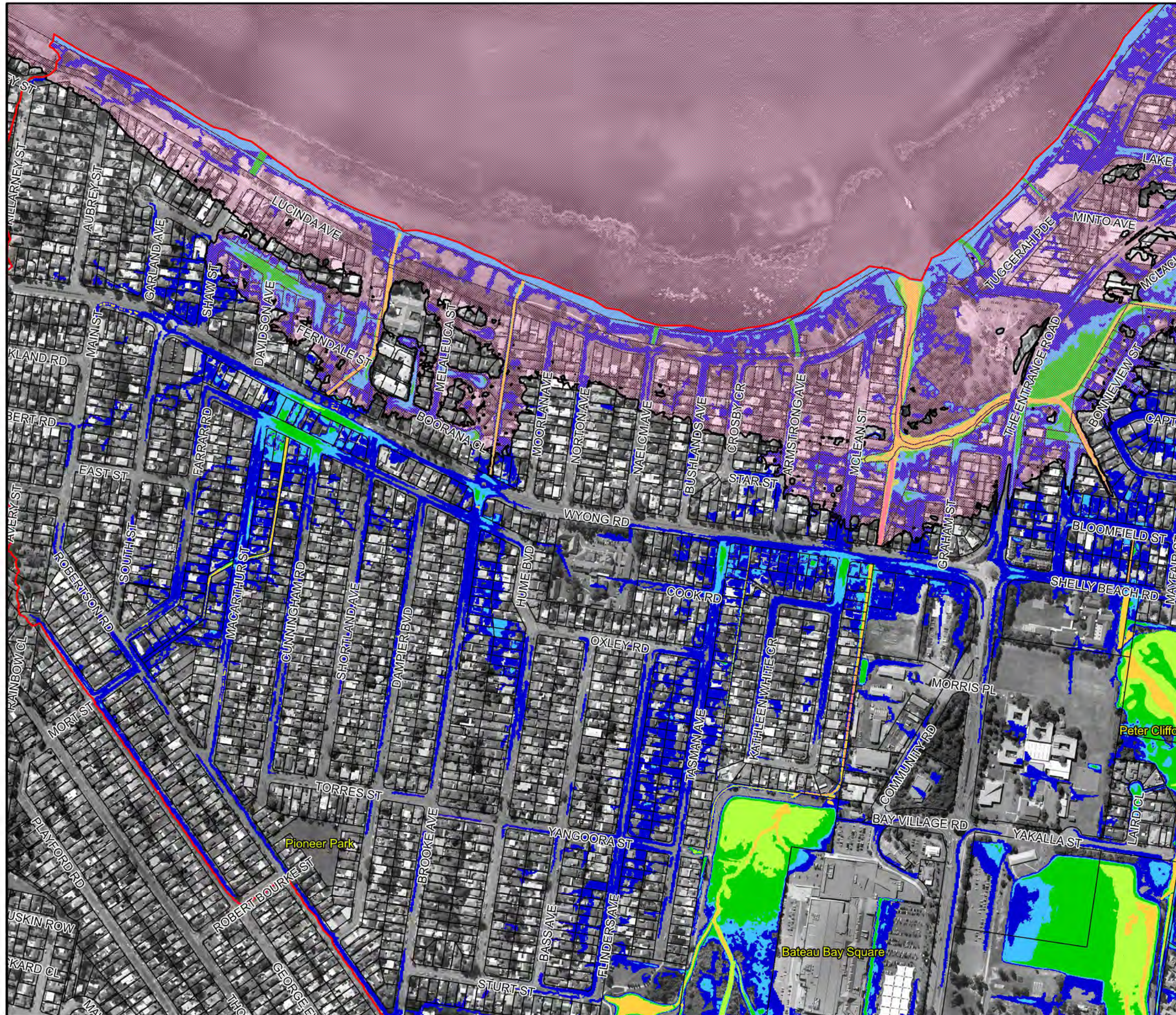
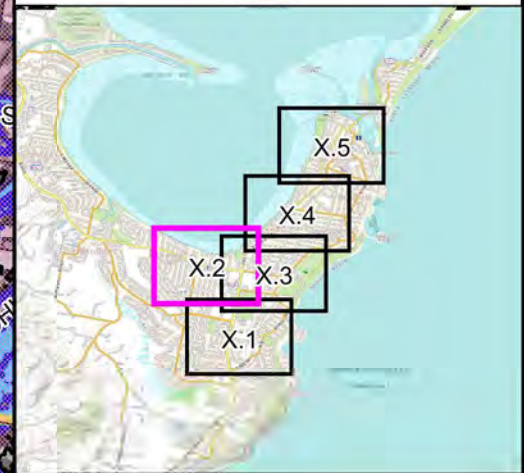


Figure 10.1:
Flood Hazard for the
1% AEP Flood

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

File Name: Flood Hazard 1AEP.wor



LEGEND

Hazard Categories

- H1 - Generally Safe
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people and vehicles. Buildings require special design
- H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
- Tuggerah Lake Inundation Area.

Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

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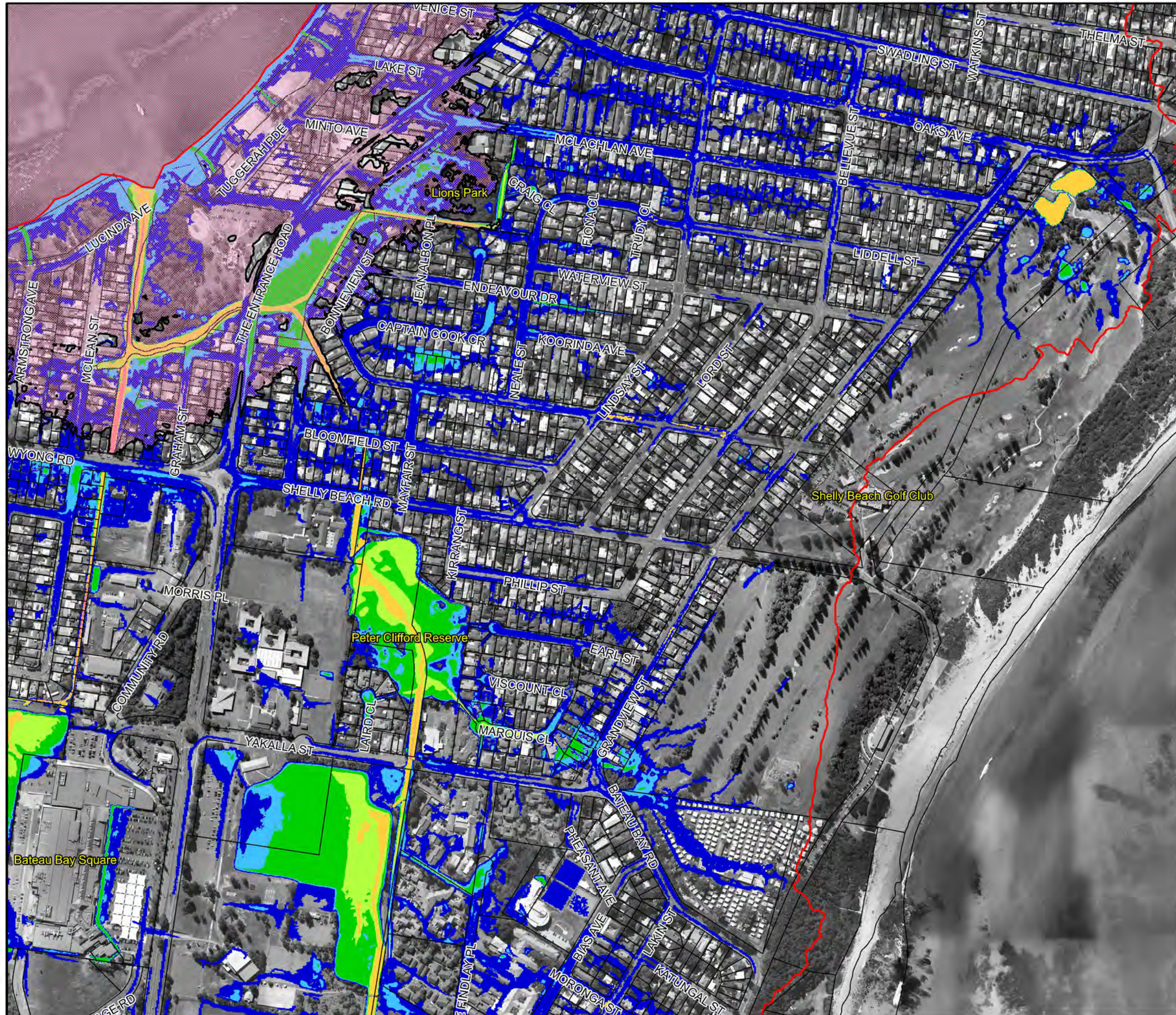
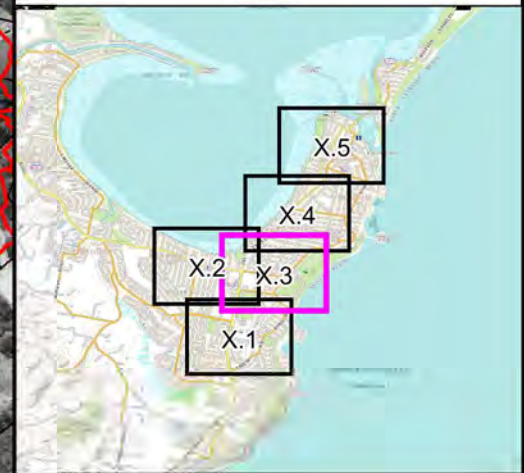
Scale 1:6,000 (at A3)

0 0.15 0.3
 Km

Figure 10.2:
Flood Hazard for the
1% AEP Flood

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

File Name: Flood Hazard 1AEP.wor



LEGEND

Hazard Categories

- H1 - Generally Safe
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people and vehicles. Buildings require special design
- H6 - Unsafe for people and vehicles. All buildings vulnerable to failure

Tuggerah Lake Inundation Area.

Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

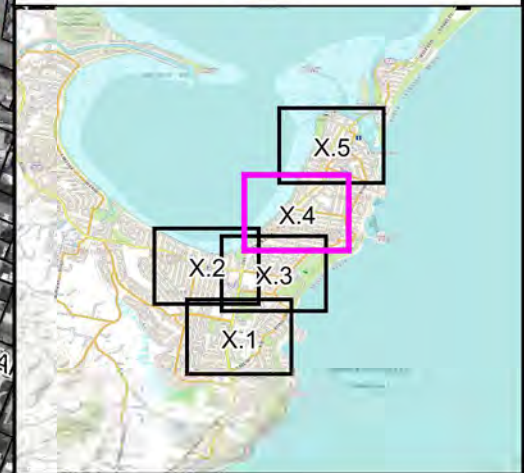
Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

N
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Scale 1:6,000 (at A3)

0 0.15 0.3
 Km

Figure 10.3:
Flood Hazard for the
1% AEP Flood



LEGEND

- Hazard Categories
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
 - Tuggerah Lake Inundation Area. Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

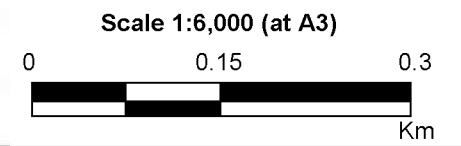
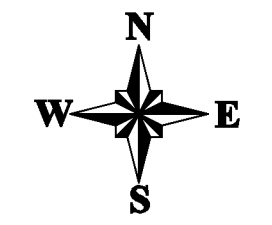
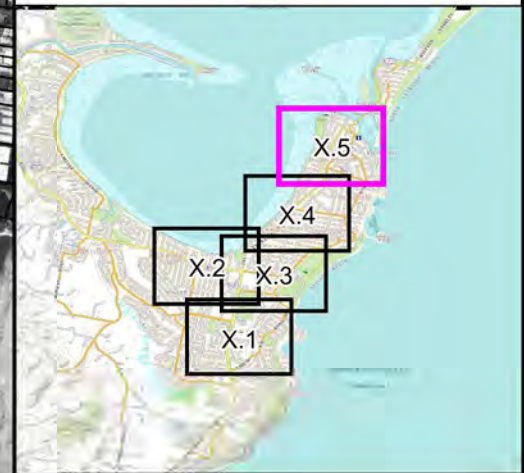


Figure 10.4:
Flood Hazard for the 1% AEP Flood



LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
 - Tuggerah Lake Inundation Area. Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

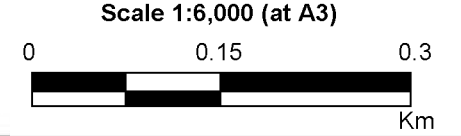
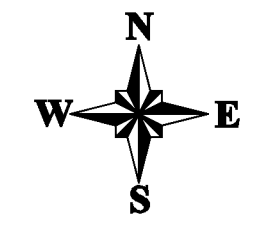
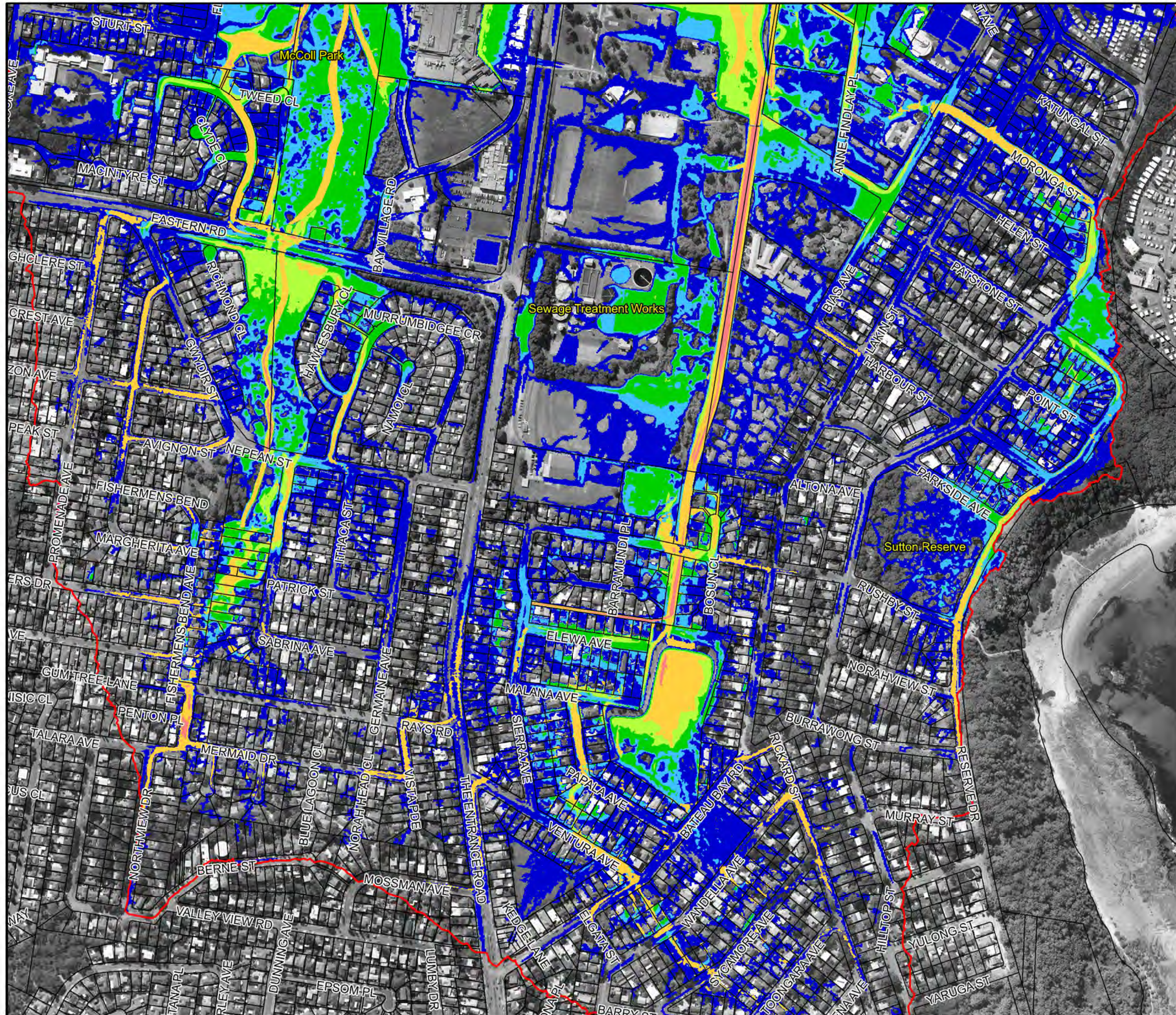
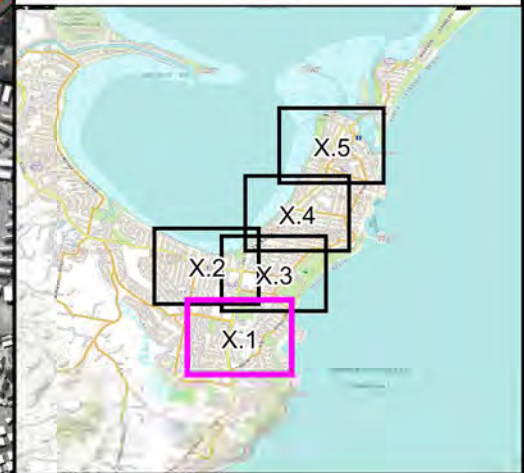


Figure 10.5:
Flood Hazard for the
1% AEP Flood

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

File Name: Flood Hazard 1AEP.wor





LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
- Tuggerah Lake Inundation Area.
Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

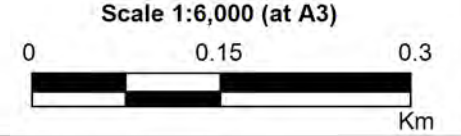
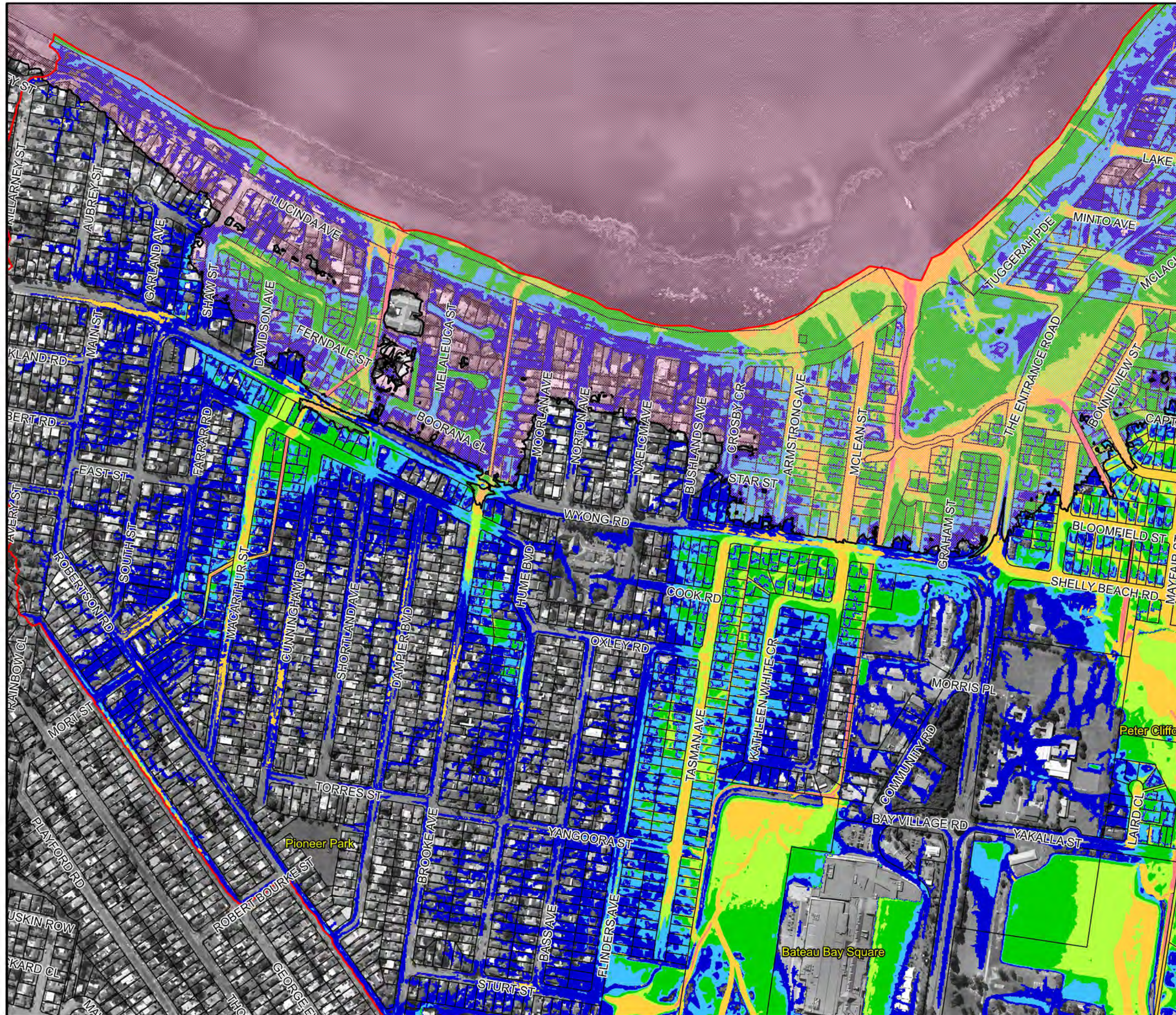
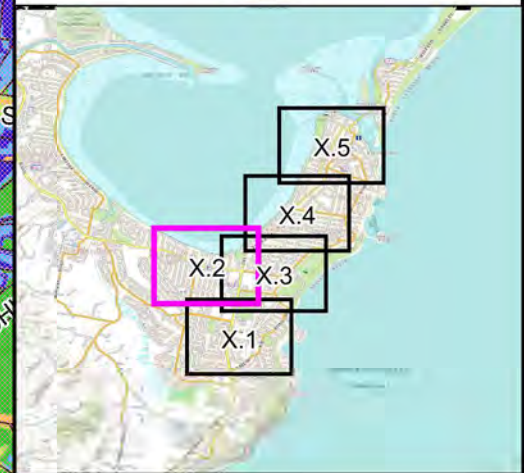


Figure 11.1:
Flood Hazard for the PMF

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

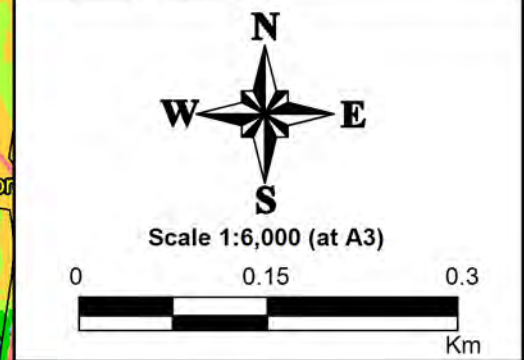
File Name: Flood Hazard PMF.wor



LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
 - Tuggerah Lake Inundation Area.
- Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

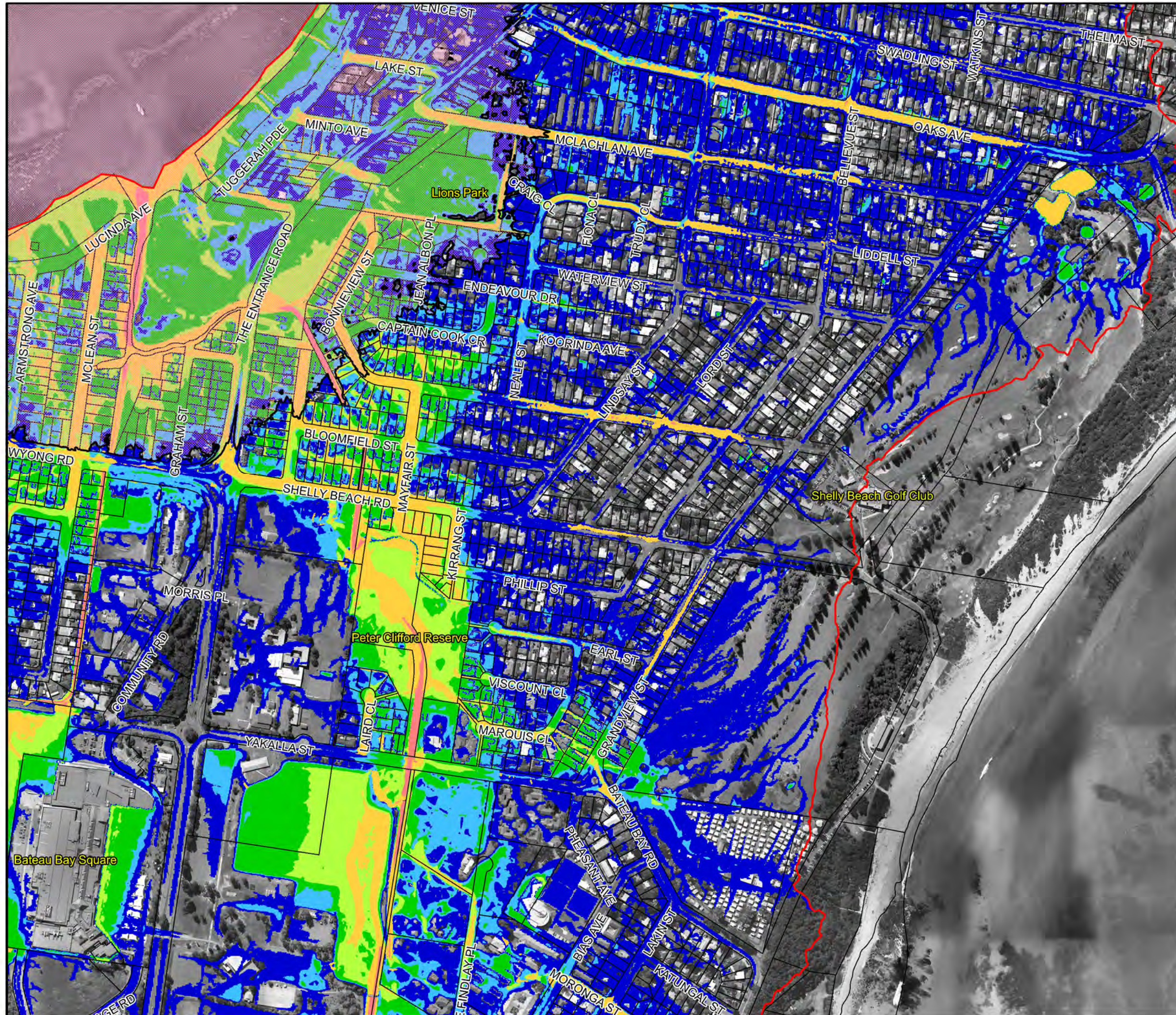
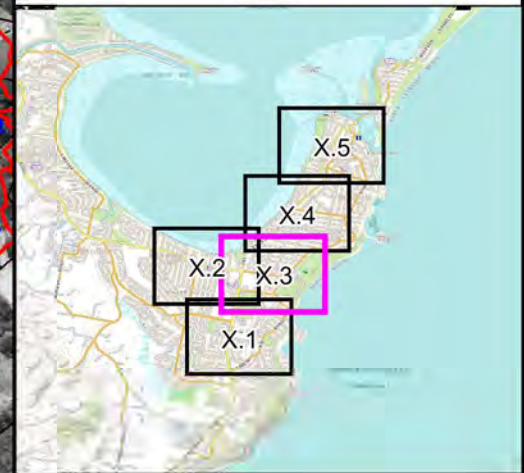
Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013



**Figure 11.2:
 Flood Hazard for the
 PMF**

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

File Name: Flood Hazard PMF.wor



LEGEND

Hazard Categories

- H1 - Generally Safe
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people and vehicles. Buildings require special design
- H6 - Unsafe for people and vehicles. All buildings vulnerable to failure

Tuggerah Lake Inundation Area.

Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

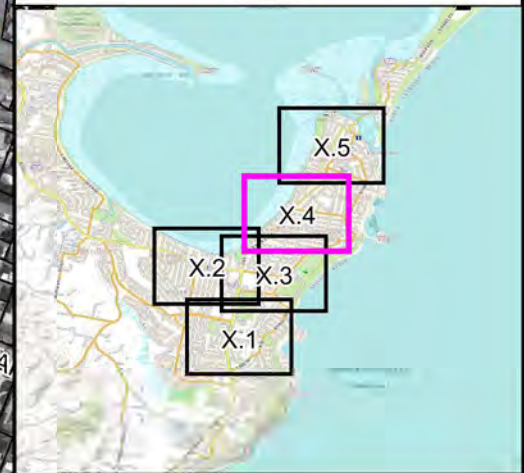
Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

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Scale 1:6,000 (at A3)

0 0.15 0.3
 Km

**Figure 11.3:
 Flood Hazard for the
 PMF**



LEGEND

Hazard Categories

- H1 - Generally Safe
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for people and vehicles. Buildings require special design
- H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
- Tuggerah Lake Inundation Area. Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

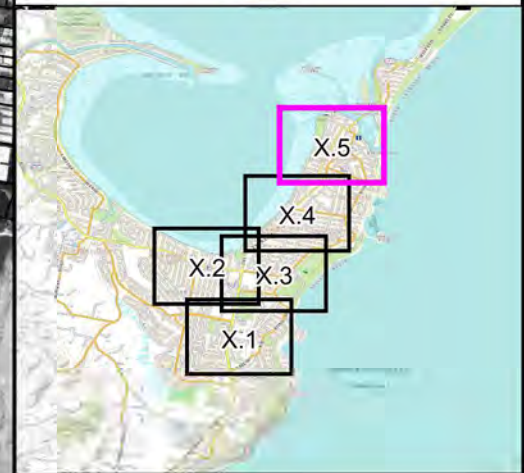
Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

N
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 S

Scale 1:6,000 (at A3)

0 0.15 0.3
 Km

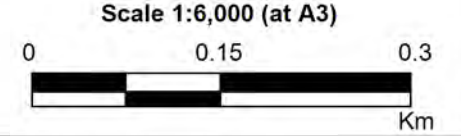
Figure 11.4:
Flood Hazard for the PMF



LEGEND

- Hazard Categories**
- H1 - Generally Safe
 - H2 - Unsafe for small vehicles
 - H3 - Unsafe for vehicles, children and elderly
 - H4 - Unsafe for people and vehicles
 - H5 - Unsafe for people and vehicles. Buildings require special design
 - H6 - Unsafe for people and vehicles. All buildings vulnerable to failure
 - Tuggerah Lake Inundation Area. Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

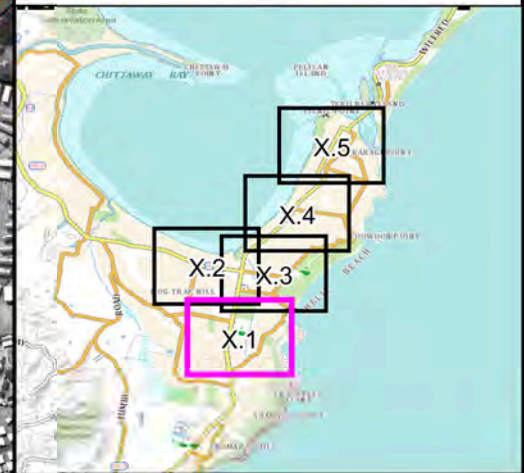


**Figure 11.5:
 Flood Hazard for the
 PMF**

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

File Name: Flood Hazard PMF.wor





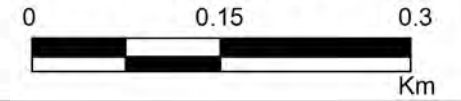
LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- Road Overtopping Location
 - Time Road First Cut (hours)
 - Duration Cut (hours)

Notes:
Aerial photograph date: 2013



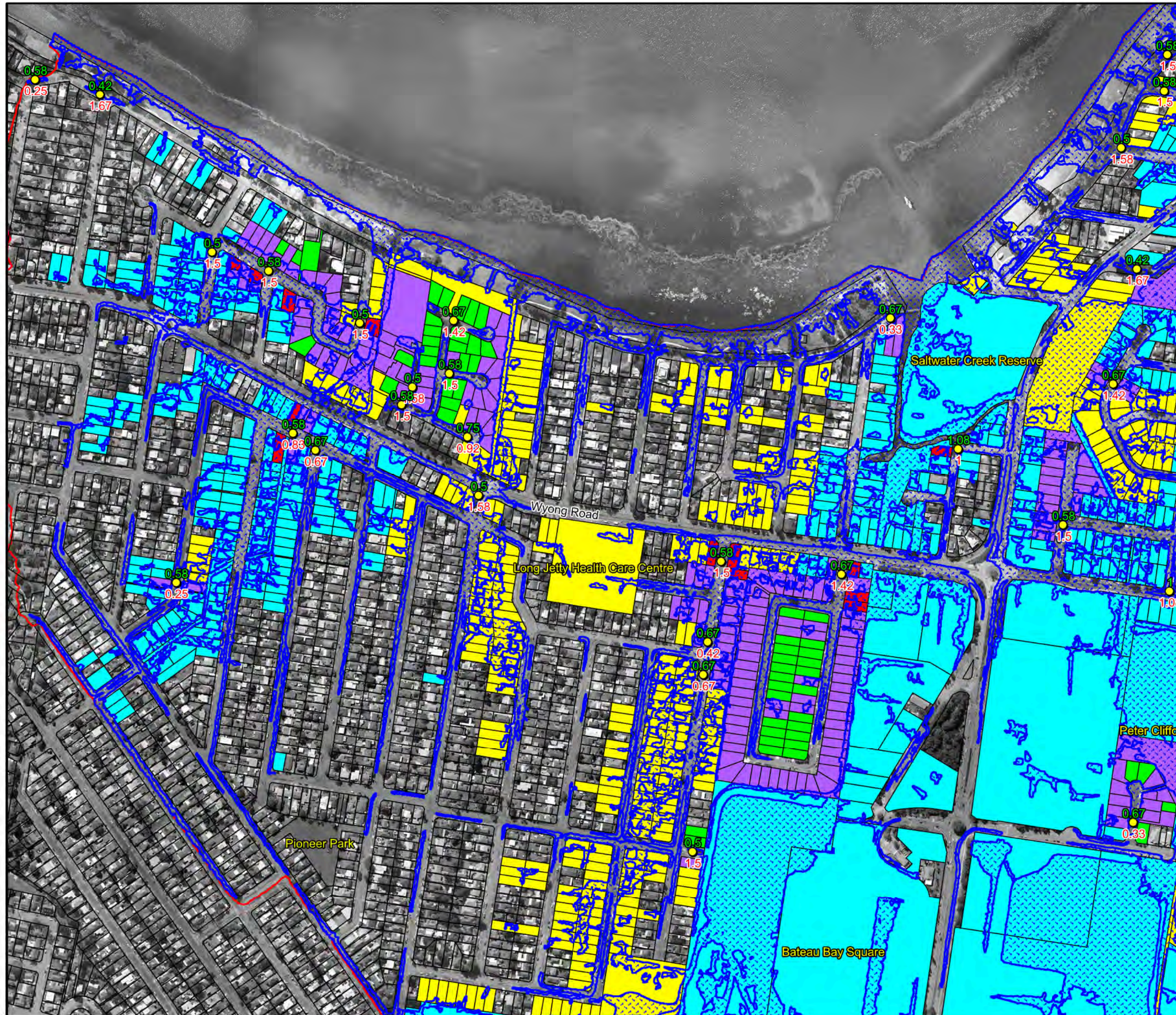
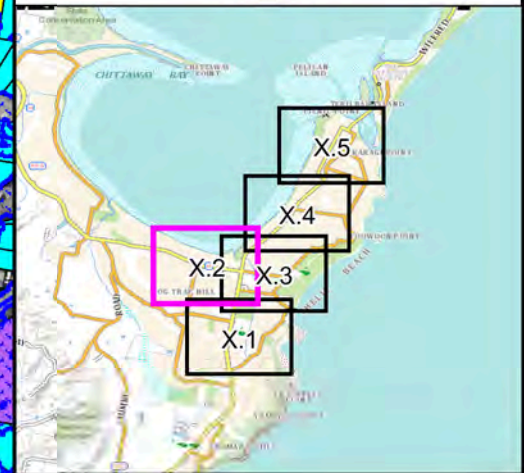
Scale 1:6,000 (at A3)



**Figure 12.1:
Emergency Response
Classifications for
the 1% AEP Flood**

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: ERC 1% AEP Flood.wor



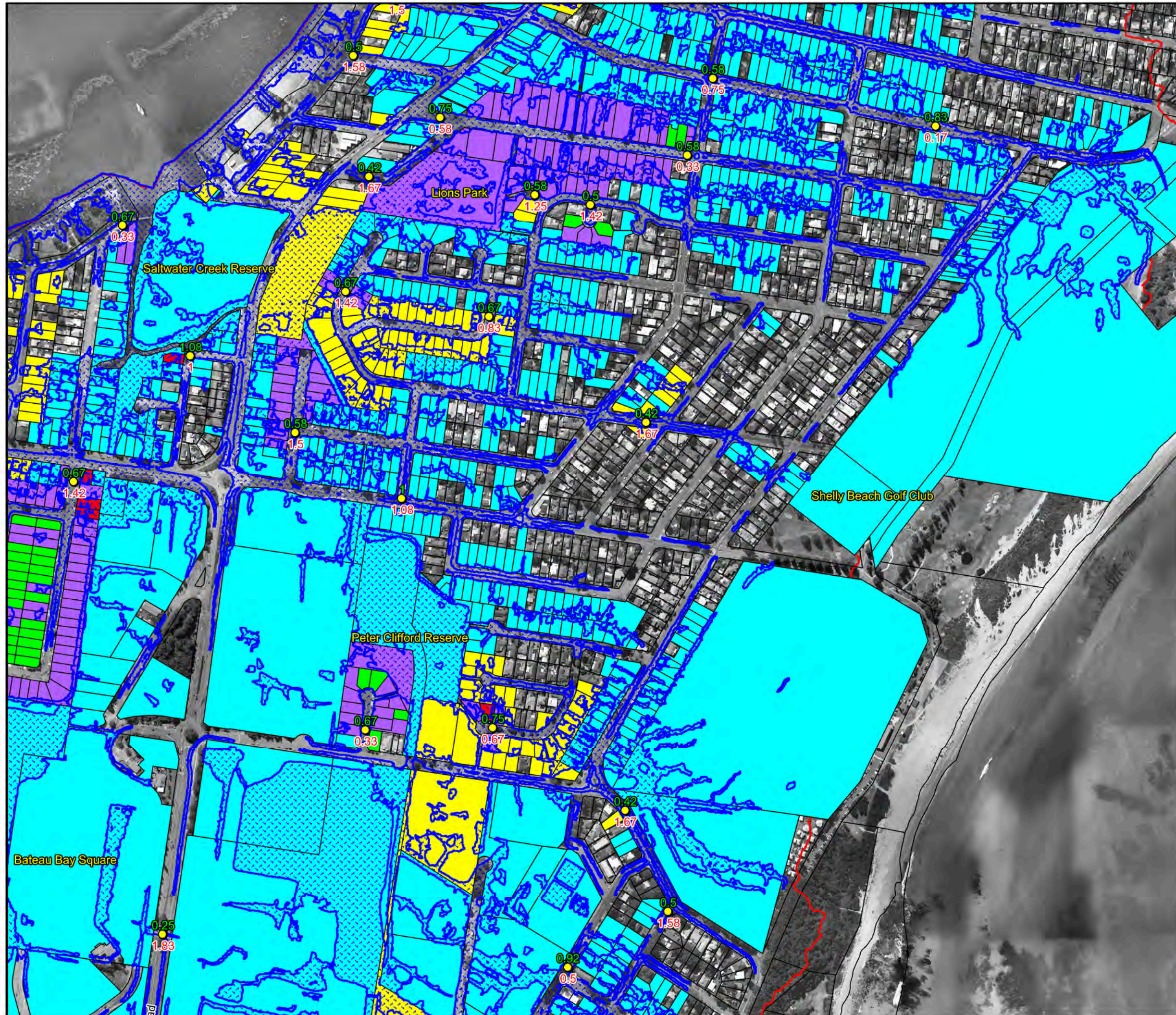
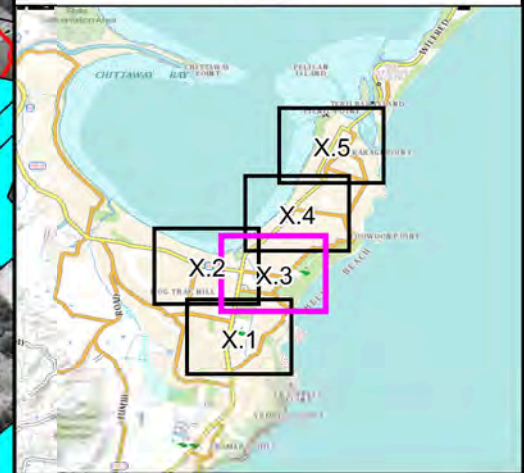
LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- Road Overtopping Location
 - 0.67 Time Road First Cut (hours)
 - 0.5 Duration Cut (hours)

Notes:
Aerial photograph date: 2013

Scale 1:6,000 (at A3)

**Figure 12.2:
Emergency Response
Classifications for
the 1% AEP Flood**



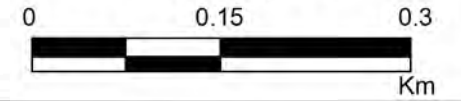
LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- Road Overtopping Location
- 0.67 Time Road First Cut (hours)
- 0.5 Duration Cut (hours)

Notes:
Aerial photograph date: 2013



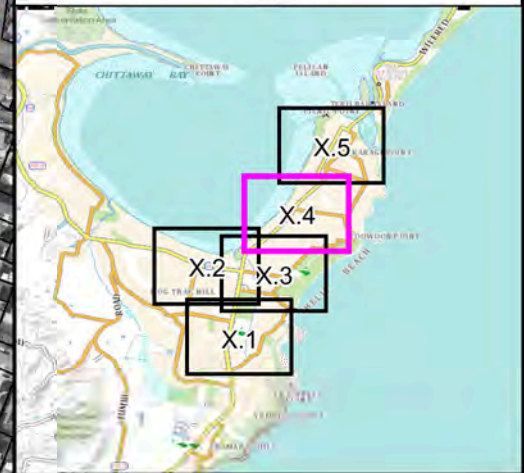
Scale 1:6,000 (at A3)



**Figure 12.3:
Emergency Response
Classifications for
the 1% AEP Flood**

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: ERC 1% AEP Flood.wor



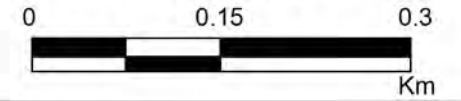
LEGEND

- Flooded Isolated Submerged
 - Flooded Isolated Elevated
 - Flooded Exit Route Overland Escape
 - Flooded Exit Rising Road Egress
 - Indirect Consequences
 - No Flood Impacts
 - Inundation Extent
- Road Overtopping Location
- 0.67 Time Road First Cut (hours)
 - 0.5 Duration Cut (hours)

Notes:
Aerial photograph date: 2013



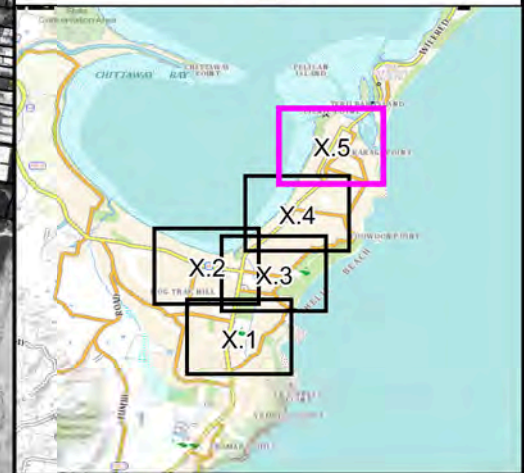
Scale 1:6,000 (at A3)



**Figure 12.4:
Emergency Response
Classifications for
the 1% AEP Flood**

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: ERC 1% AEP Flood.wor



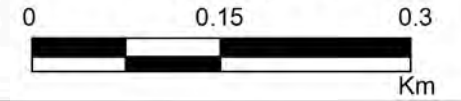
LEGEND

- Flooded Isolated Submerged
 - Flooded Isolated Elevated
 - Flooded Exit Route Overland Escape
 - Flooded Exit Rising Road Egress
 - Indirect Consequences
 - No Flood Impacts
 - Inundation Extent
- Road Overtopping Location
- 0.57 Time Road First Cut (hours)
 - 0.5 Duration Cut (hours)

Notes:
Aerial photograph date: 2013



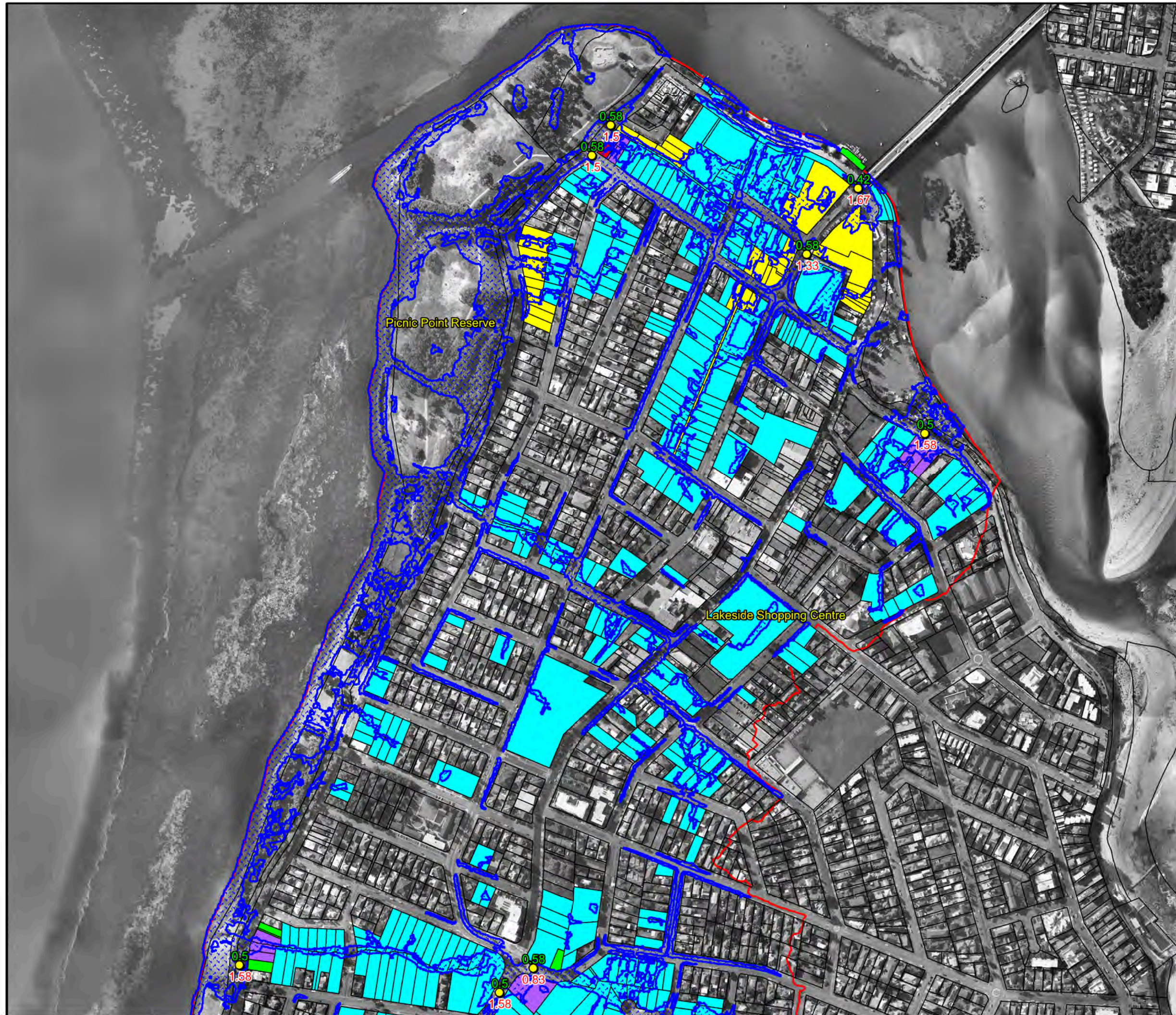
Scale 1:6,000 (at A3)

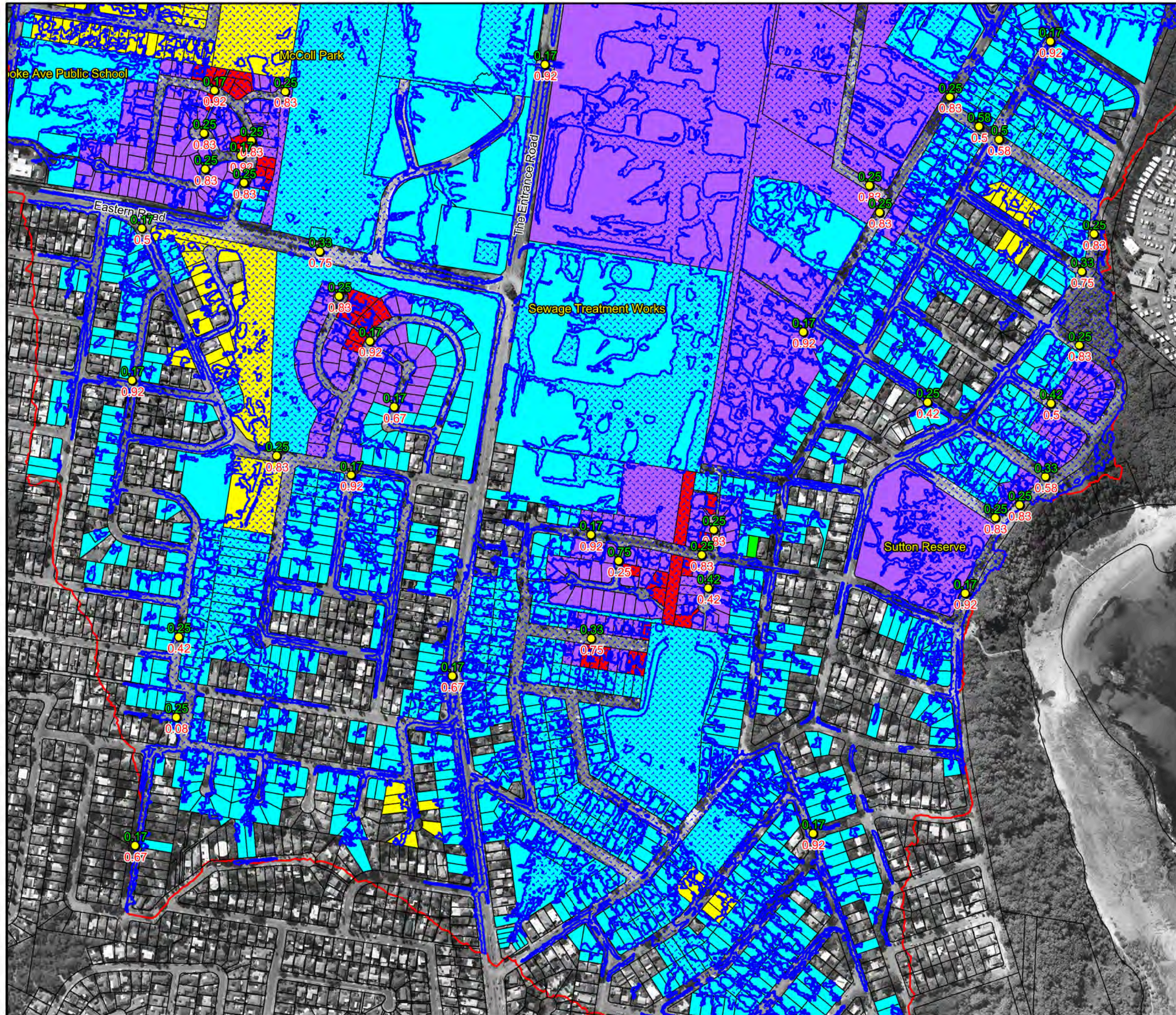
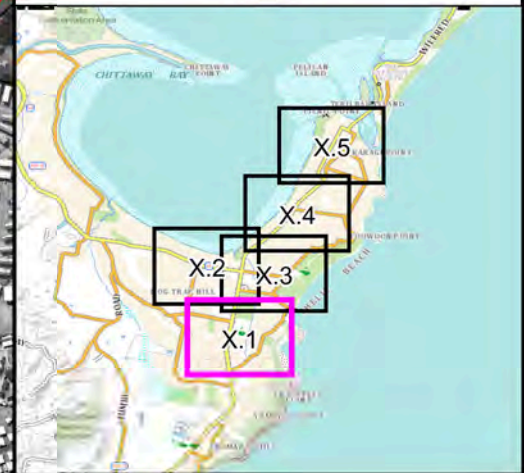


**Figure 12.5:
Emergency Response
Classifications for
the 1% AEP Flood**

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: ERC 1% AEP Flood.wor





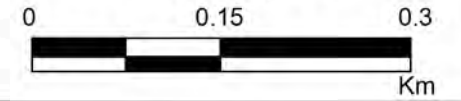
LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- Road Overtopping Location
- 0.67 Time Road First Cut (hours)
- 0.5 Duration Cut (hours)

Notes:
Aerial photograph date: 2013



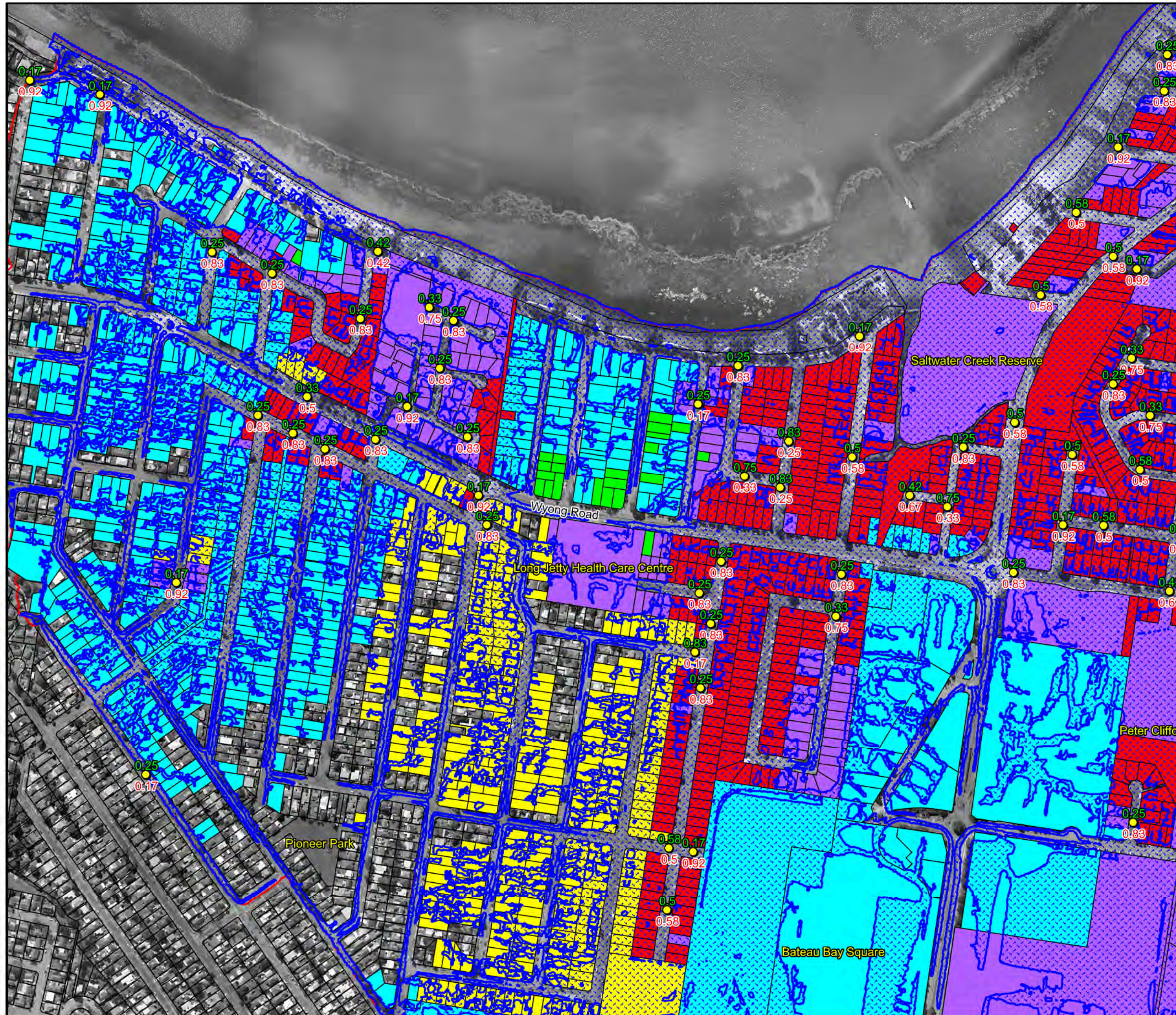
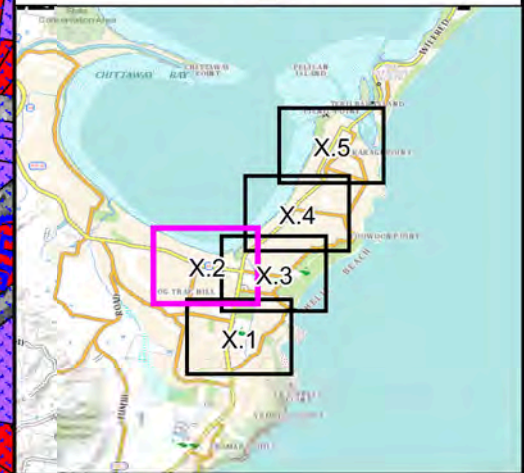
Scale 1:6,000 (at A3)



**Figure 13.1:
Emergency Response
Classifications for
the PMF**

Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

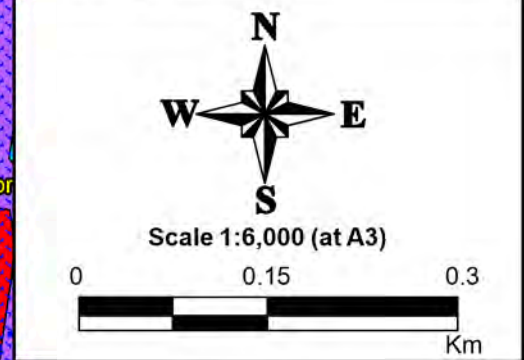
File Name: ERC PMF.wor



LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- Road Overtopping Location
- 0.67 Time Road First Cut (hours)
- 0.5 Duration Cut (hours)

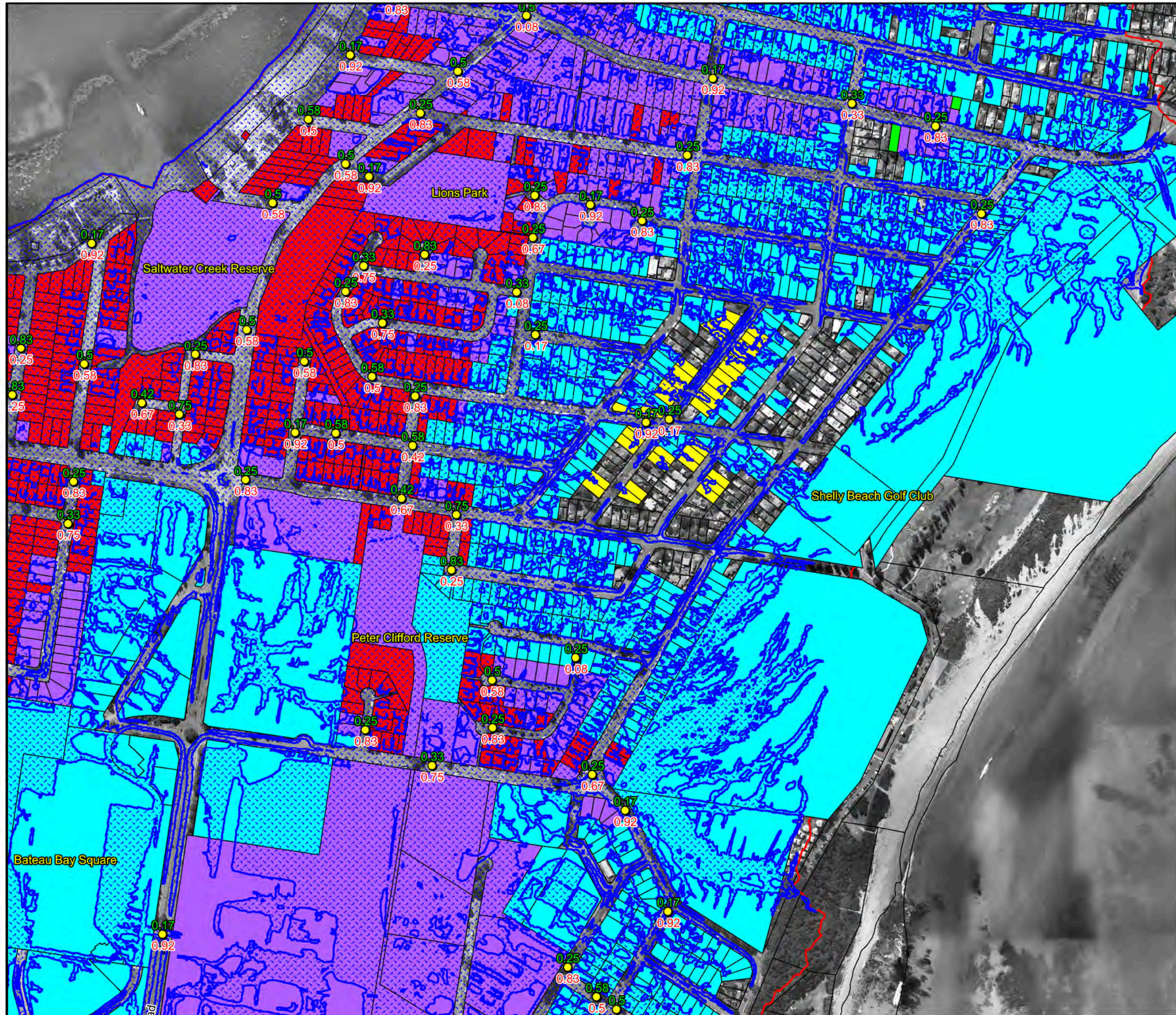
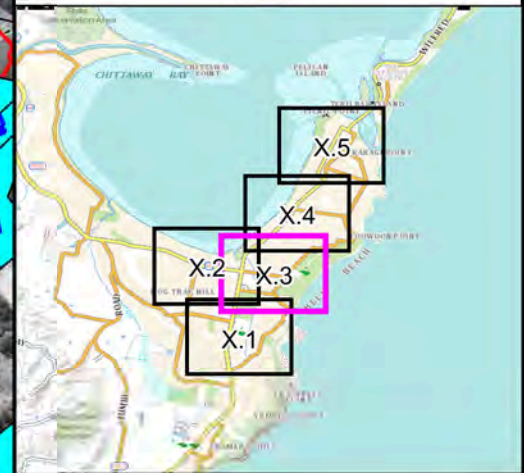
Notes:
Aerial photograph date: 2013



**Figure 13.2:
Emergency Response
Classifications for
the PMF**

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: ERC PMF.wor



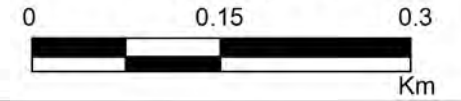
LEGEND

- Flooded Isolated Submerged
- Flooded Isolated Elevated
- Flooded Exit Route Overland Escape
- Flooded Exit Rising Road Egress
- Indirect Consequences
- No Flood Impacts
- Inundation Extent
- Road Overtopping Location
- 0.17 Time Road First Cut (hours)
- 0.5 Duration Cut (hours)

Notes:
Aerial photograph date: 2013



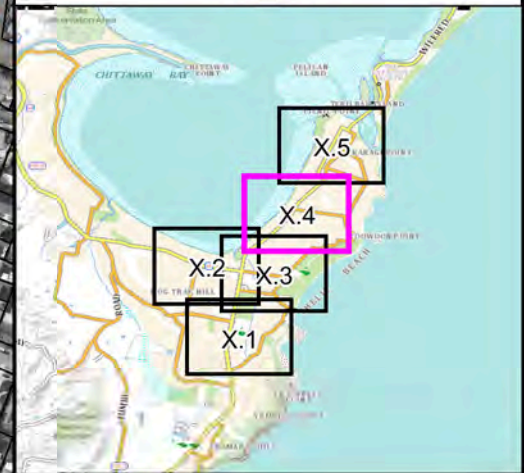
Scale 1:6,000 (at A3)



**Figure 13.3:
Emergency Response
Classifications for
the PMF**

Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: ERC PMF.wor



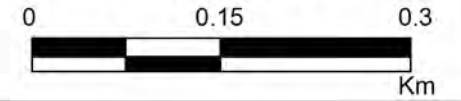
LEGEND

- Flooded Isolated Submerged
 - Flooded Isolated Elevated
 - Flooded Exit Route Overland Escape
 - Flooded Exit Rising Road Egress
 - Indirect Consequences
 - No Flood Impacts
 - Inundation Extent
- Road Overtopping Location
- Time Road First Cut (hours)
 - Duration Cut (hours)

Notes:
Aerial photograph date: 2013



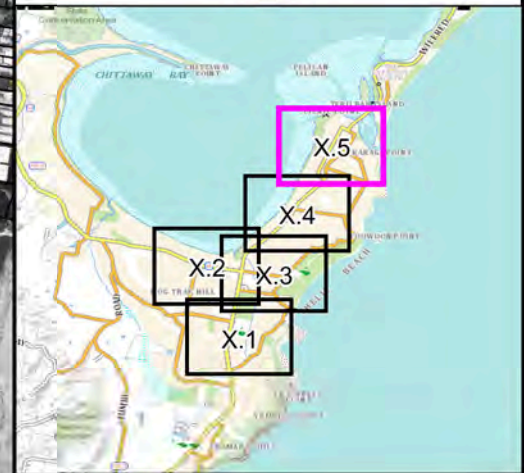
Scale 1:6,000 (at A3)



**Figure 13.4:
Emergency Response
Classifications for
the PMF**

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: ERC PMF.wor



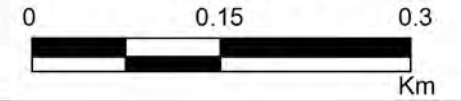
LEGEND

- Flooded Isolated Submerged
 - Flooded Isolated Elevated
 - Flooded Exit Route Overland Escape
 - Flooded Exit Rising Road Egress
 - Indirect Consequences
 - No Flood Impacts
 - Inundation Extent
- Road Overtopping Location
- 0.67 Time Road First Cut (hours)
 - 0.5 Duration Cut (hours)

Notes:
Aerial photograph date: 2013



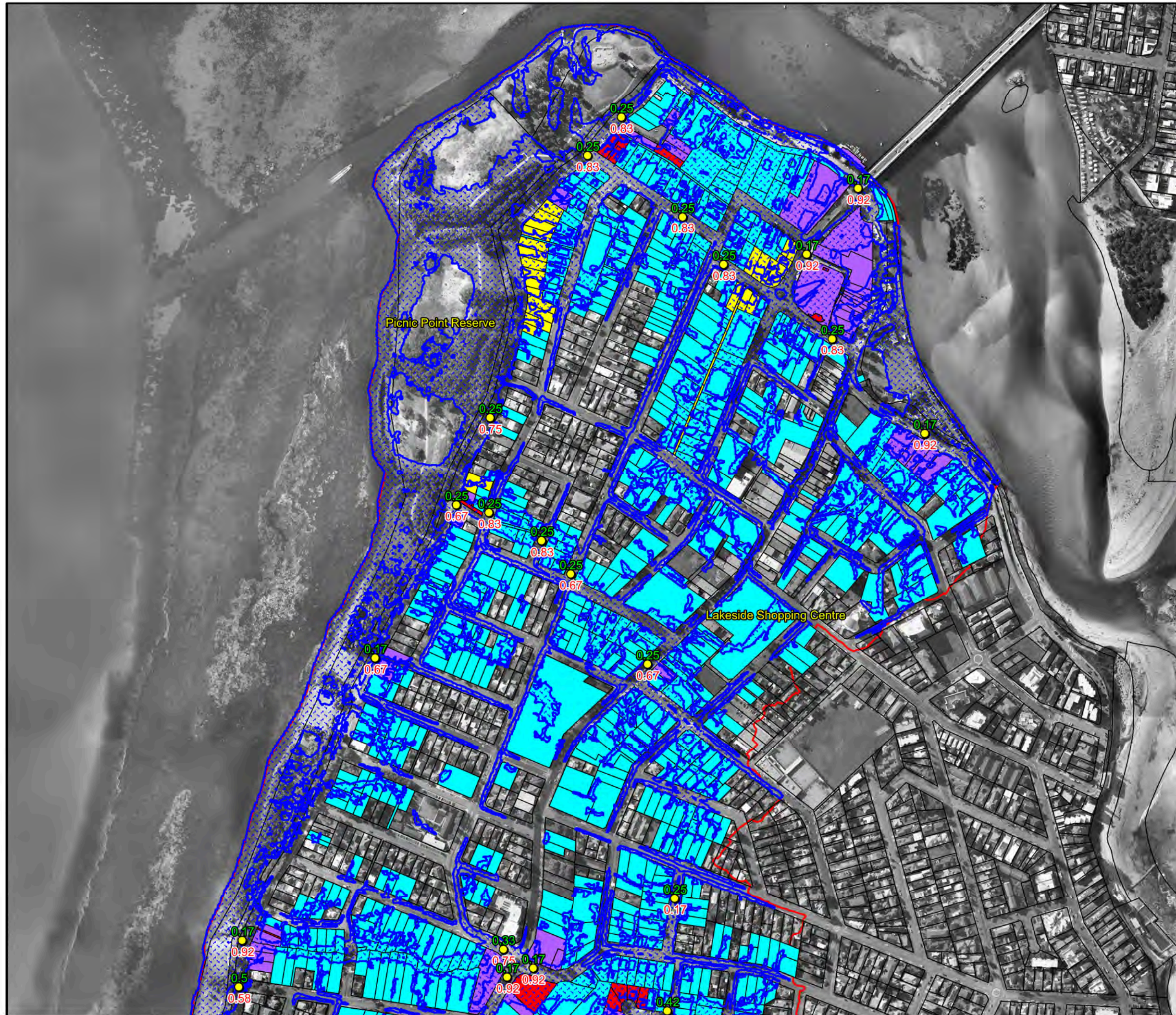
Scale 1:6,000 (at A3)

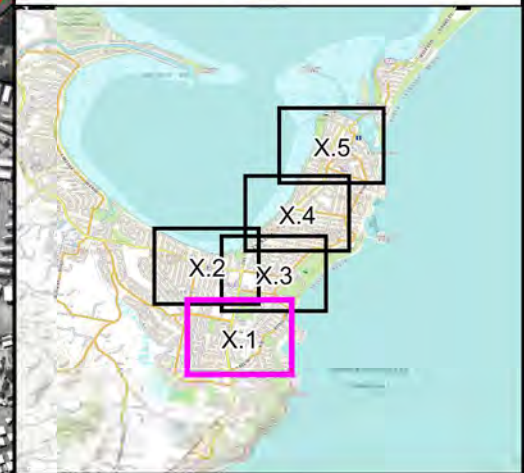


**Figure 13.5:
Emergency Response
Classifications for
the PMF**

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: ERC PMF.wor





LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway
- Tuggerah Lake Inundation Area.

Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

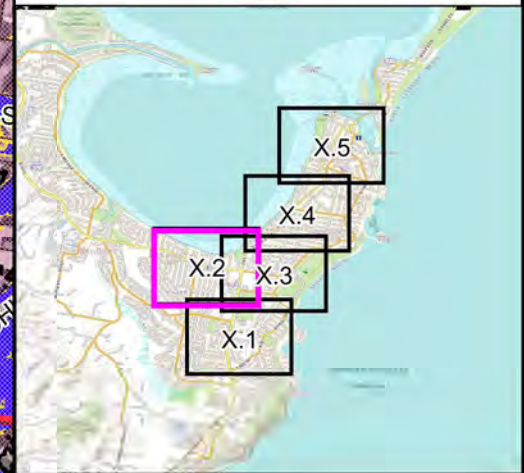
Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

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Scale 1:6,000 (at A3)

0 0.15 0.3
 Km

Figure 14.1:
1% AEP Hydraulic Categories



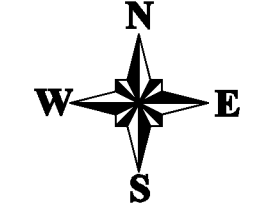
LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway
- Tuggerah Lake Inundation Area.

Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

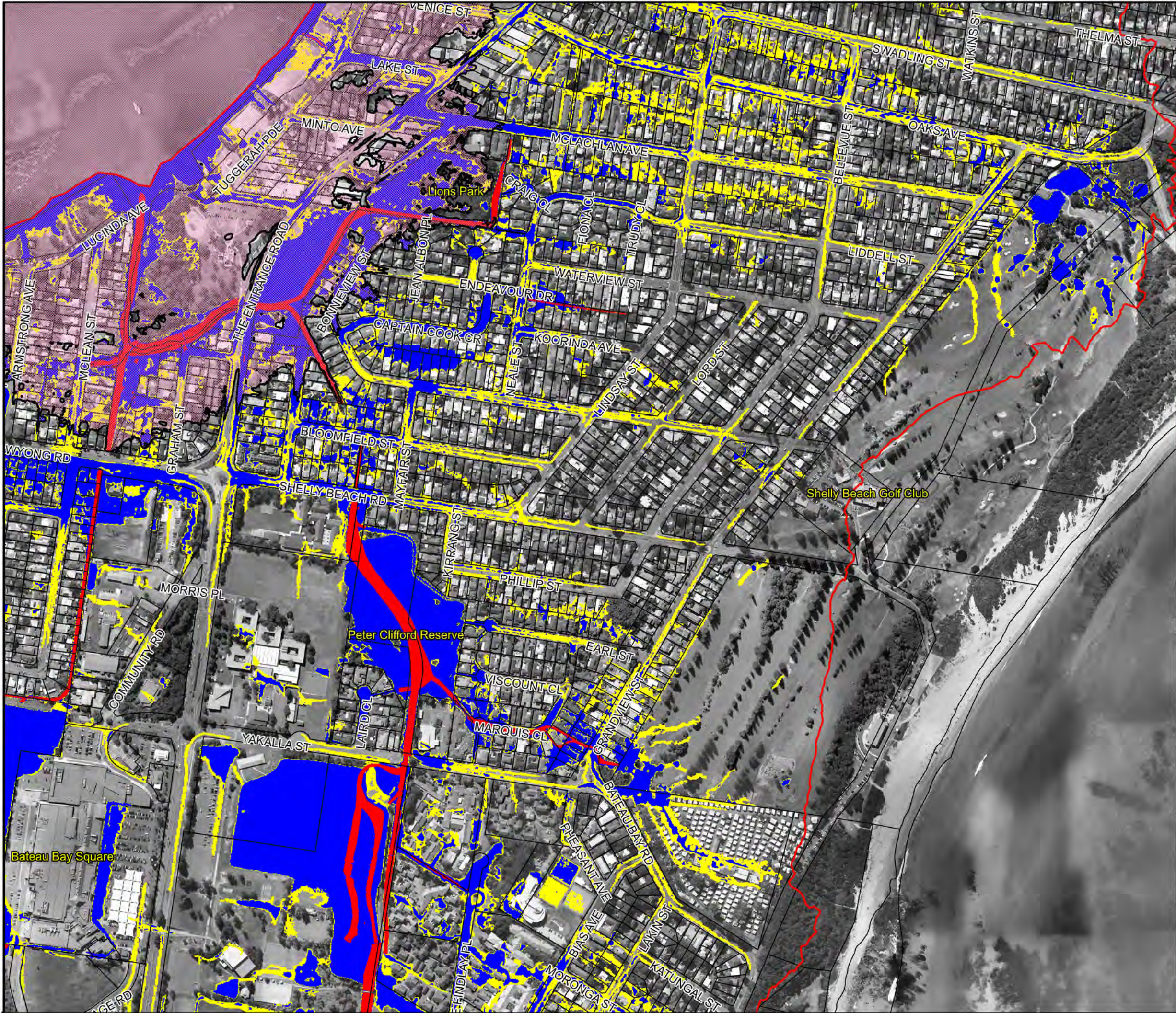
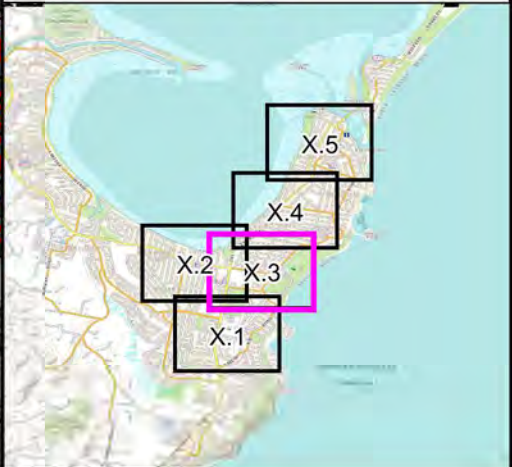
Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

N
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Scale 1:6,000 (at A3)

0 0.15 0.3
 Km

Figure 14.2:
1% AEP Hydraulic Categories



LEGEND

- Hydraulic Categories
- Flood Fringe
 - Flood Storage
 - Floodway
 - Tuggerah Lake Inundation Area.
- Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

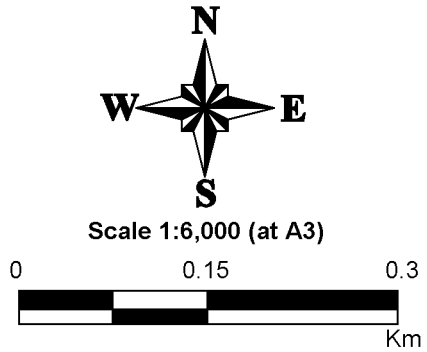
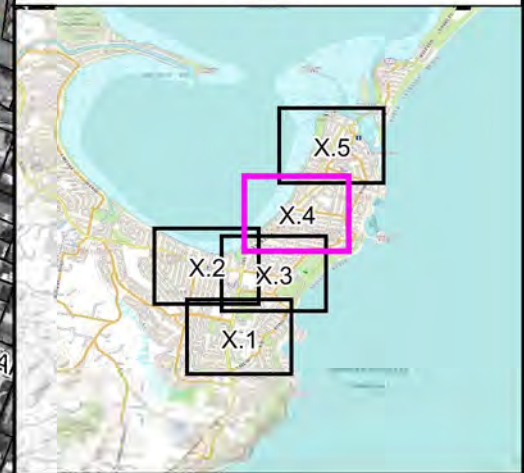


Figure 14.3:
1% AEP Hydraulic Categories

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000
 File Name: 1AEP Hydraulic Cat.wor



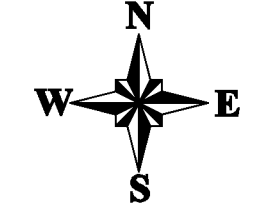
LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway
- Tuggerah Lake Inundation Area.

Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

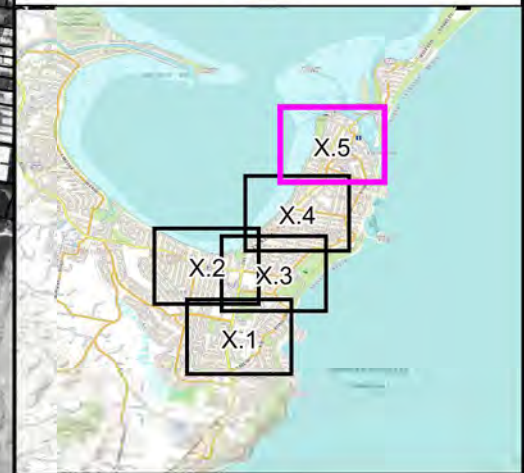
Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

N
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Scale 1:6,000 (at A3)

0 0.15 0.3
 Km

Figure 14.4:
1% AEP Hydraulic Categories



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway
- Tuggerah Lake Inundation Area.

Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

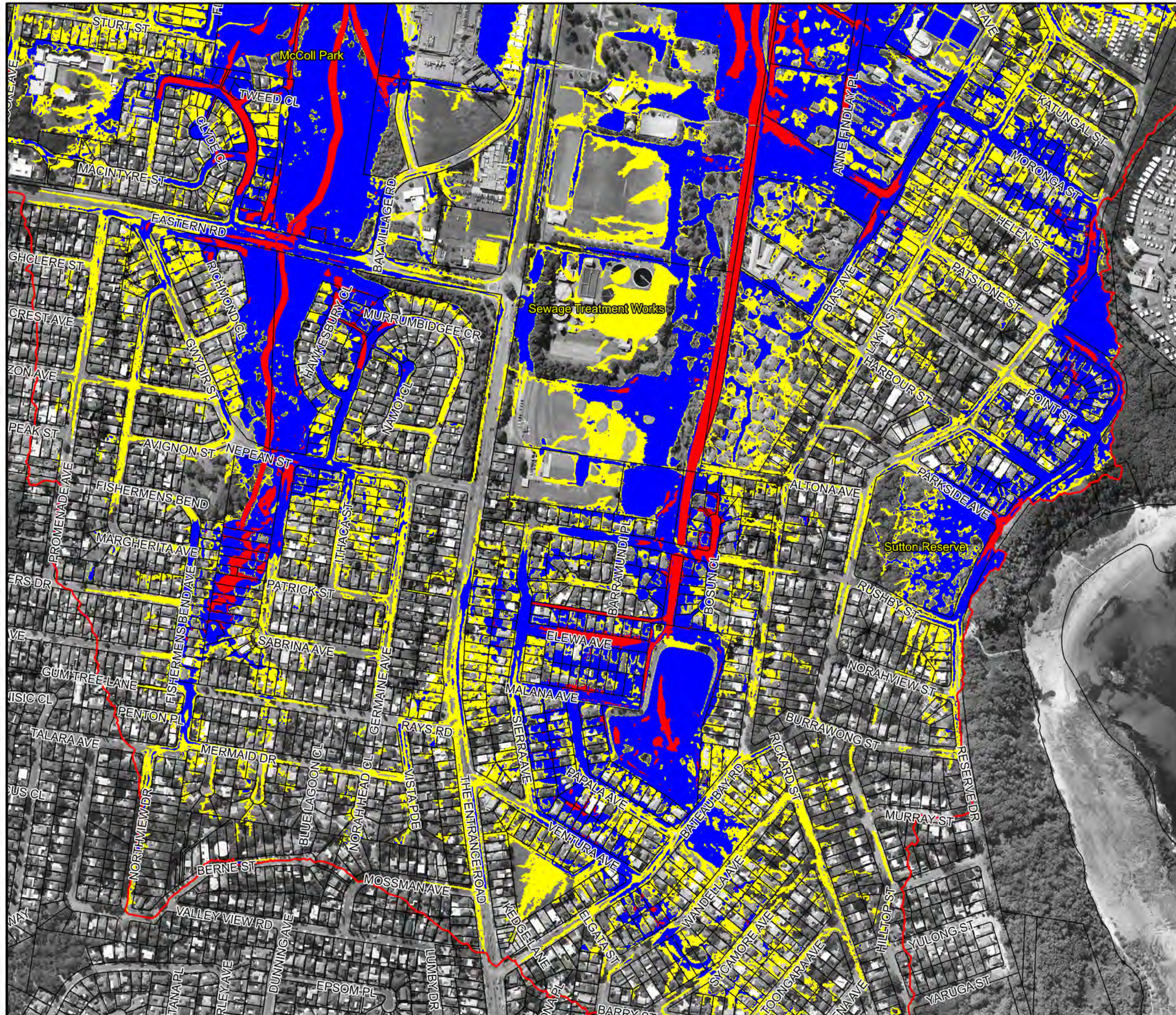
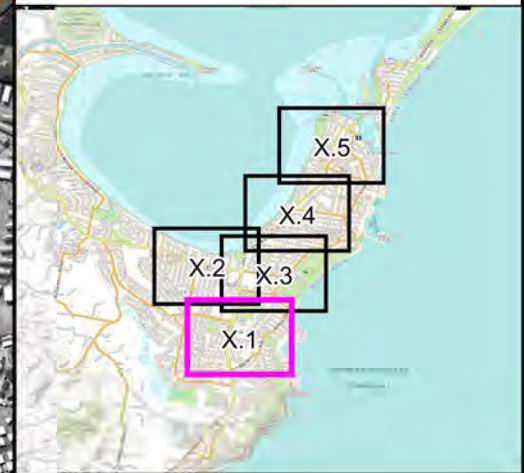
Scale 1:6,000 (at A3)

Figure 14.5:
1% AEP Hydraulic Categories

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

File Name: 1AEP Hydraulic Cat.wor





LEGEND

Hydraulic Categories

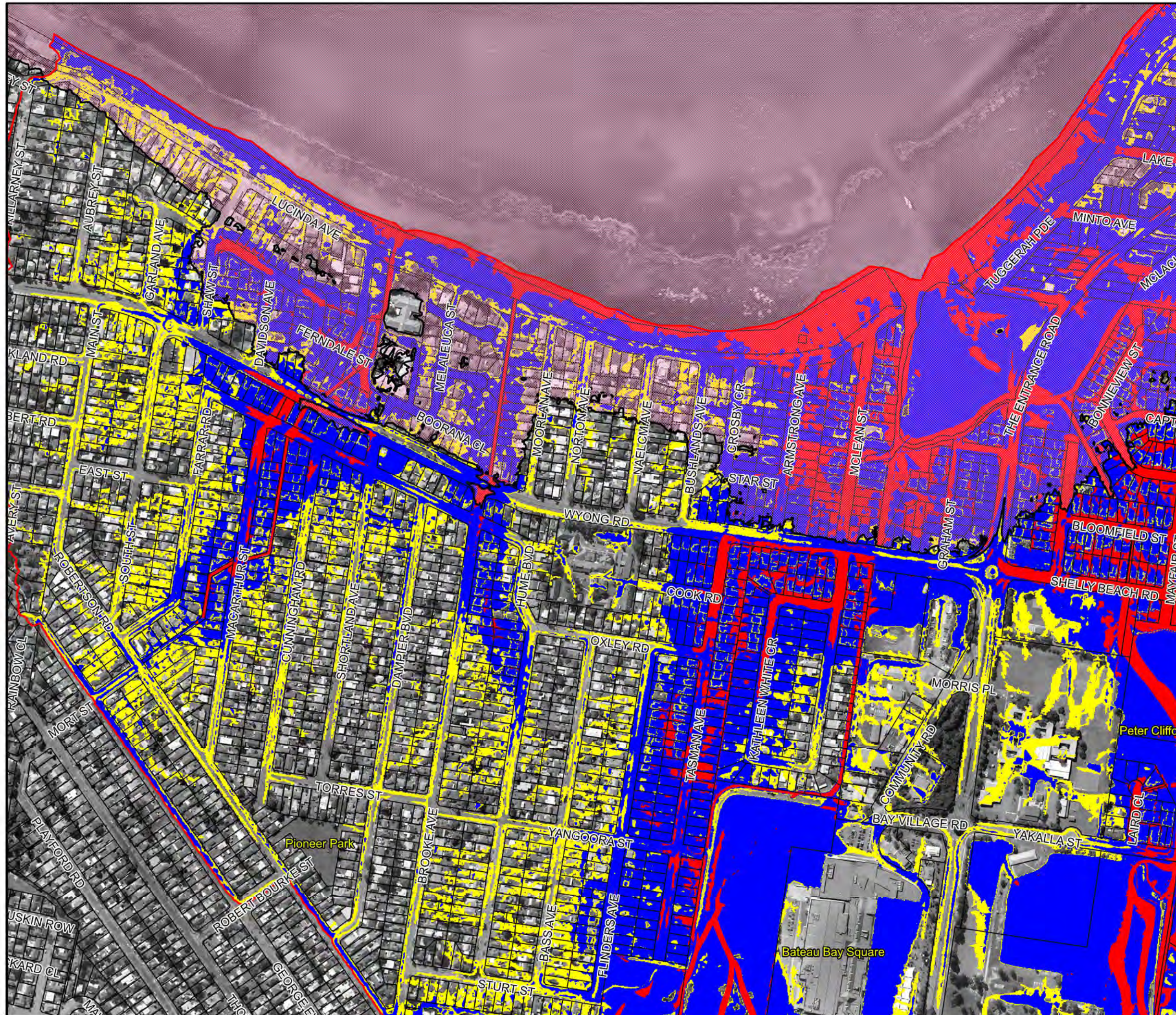
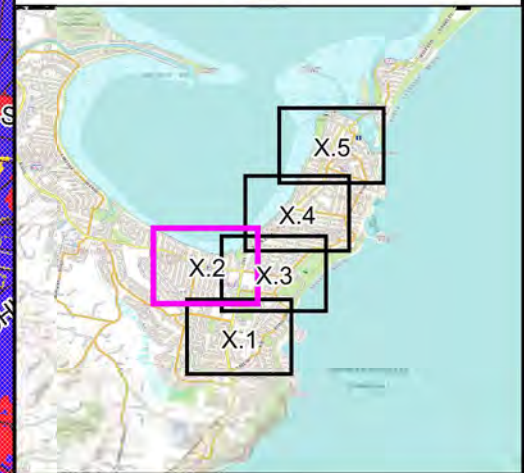
- Flood Fringe
- Flood Storage
- Floodway
- Tuggerah Lake Inundation Area.

Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

Scale 1:6,000 (at A3)

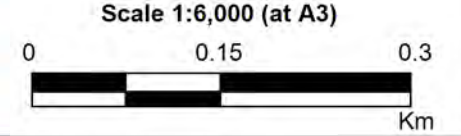
**Figure 15.1:
 PMF Hydraulic
 Categories**



LEGEND

- Hydraulic Categories
- Flood Fringe
 - Flood Storage
 - Floodway
 - Tuggerah Lake Inundation Area.
- Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

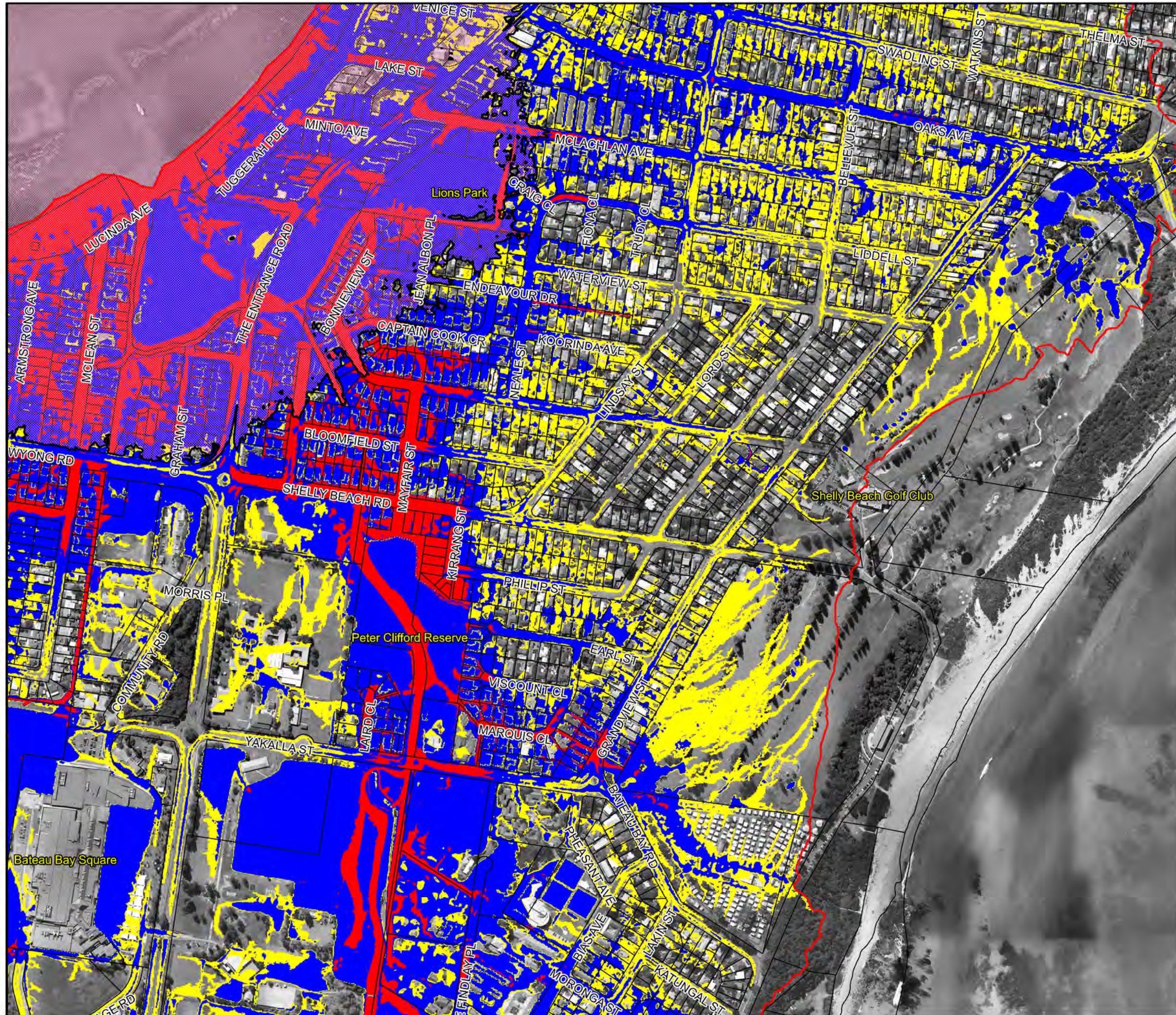
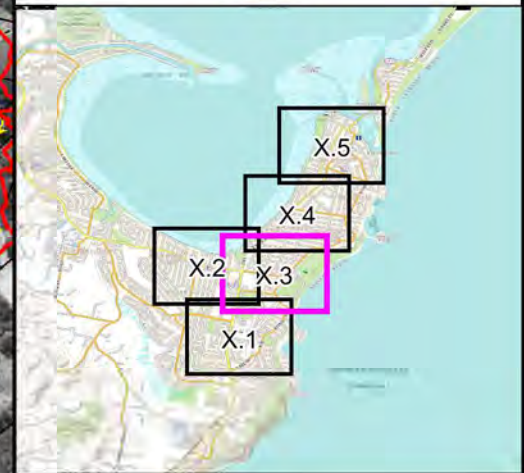
Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013



**Figure 15.2:
 PMF Hydraulic
 Categories**

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

File Name: PMF Hydraulic Cat.wor



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway
- Tuggerah Lake Inundation Area.

Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

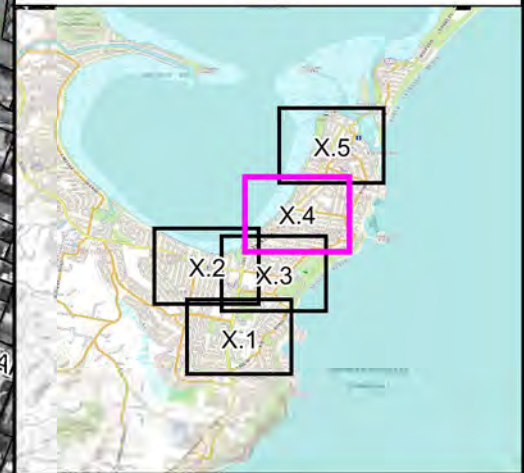
Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

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Scale 1:6,000 (at A3)

0 0.15 0.3
 Km

**Figure 15.3:
 PMF Hydraulic
 Categories**



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway
- Tuggerah Lake Inundation Area.

Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

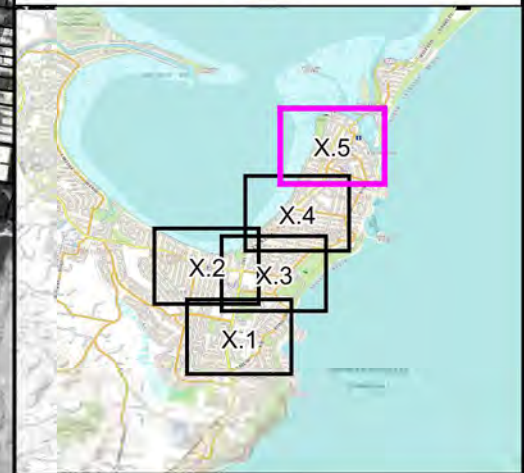
Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

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Scale 1:6,000 (at A3)

0 0.15 0.3
 Km

**Figure 15.4:
 PMF Hydraulic
 Categories**



LEGEND

Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway
- Tuggerah Lake Inundation Area.

Please refer to the 'Tuggerah Lakes Floodplain Risk Management Study and Plan' (2014) for further information

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

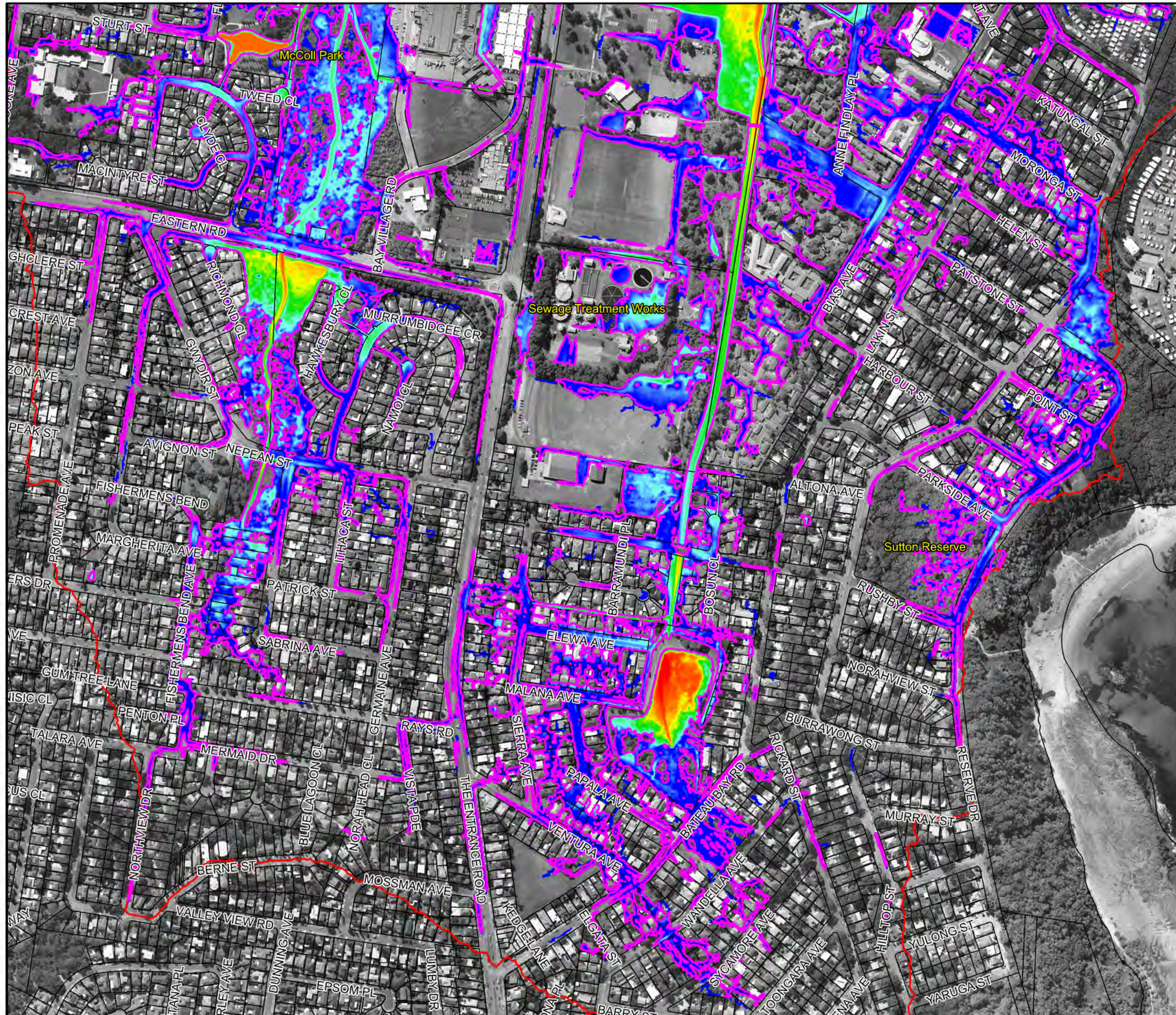
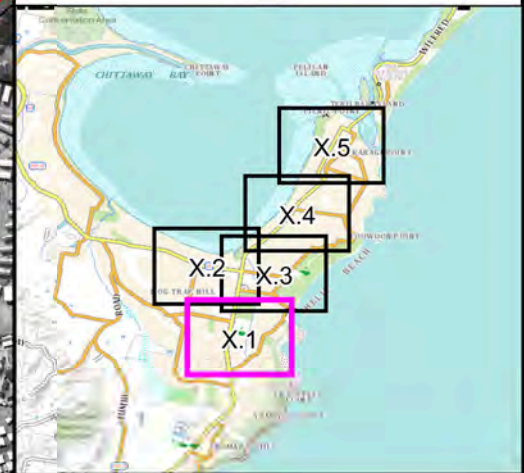
Scale 1:6,000 (at A3)

**Figure 15.5:
 PMF Hydraulic
 Categories**

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

File Name: PMF Hydraulic Cat.wor





LEGEND

- Catchment Boundary
- 1% AEP Extent

Depths (m)

- ≤ 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

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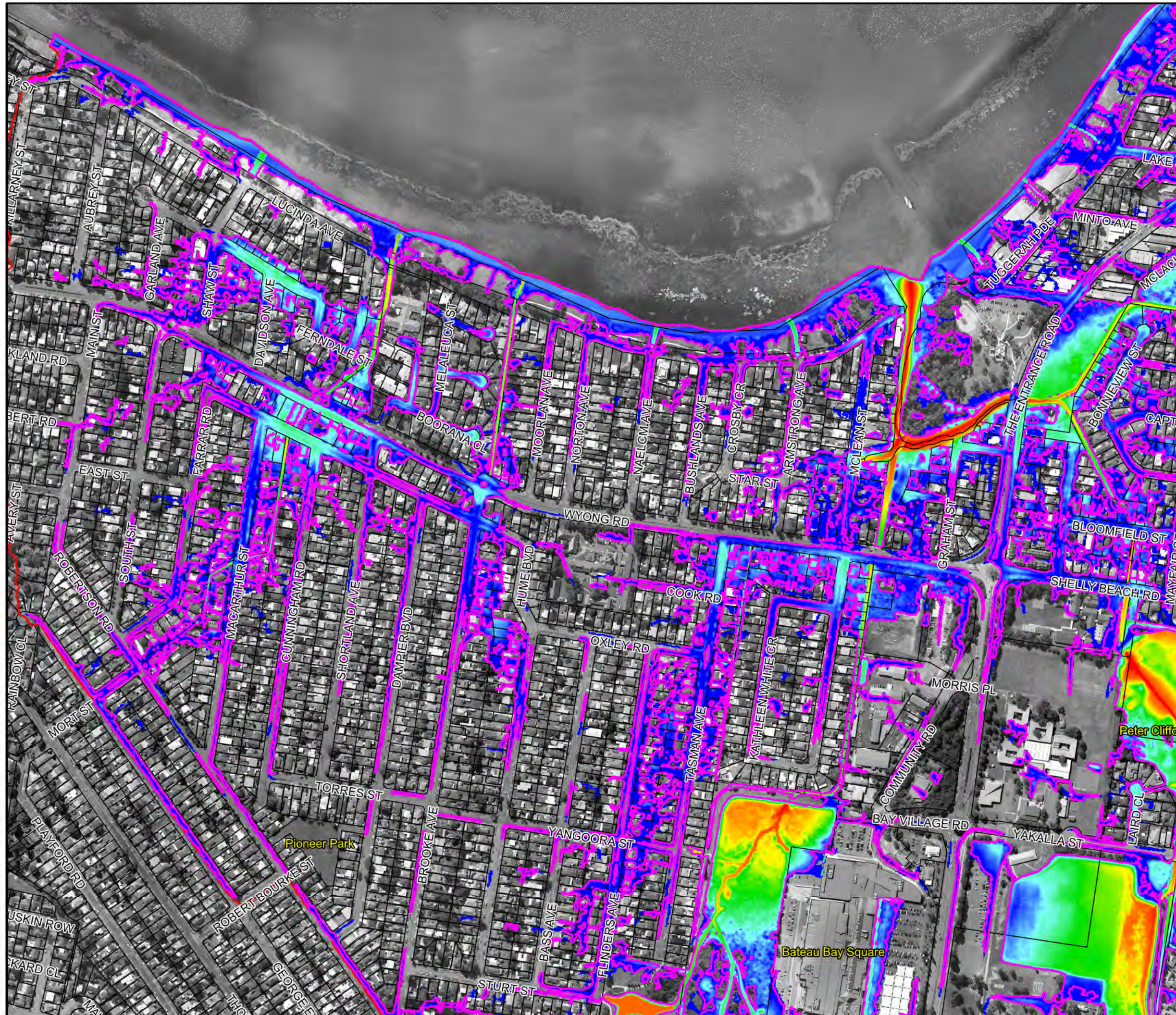
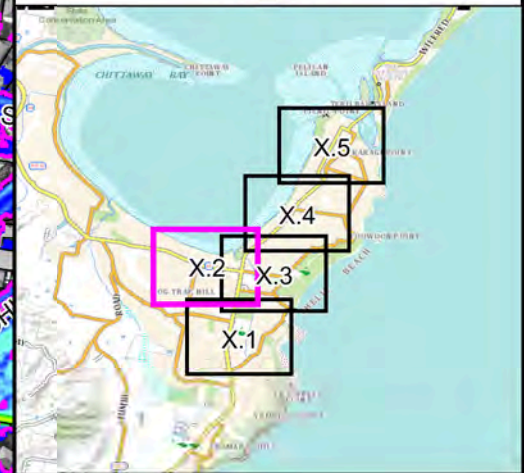
Scale 1:6,000 (at A3)

0 0.15 0.3
 Km

Figure 16.1
Peak Floodwater Depths for the 1% AEP Flood with 18.6% Increase in Rainfall Intensity associated with Climate Change

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

Depths for the 1% AEP CC186 Flood.wor



LEGEND

- Catchment Boundary
- 1% AEP Extent

Depths (m)

- ≤ 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

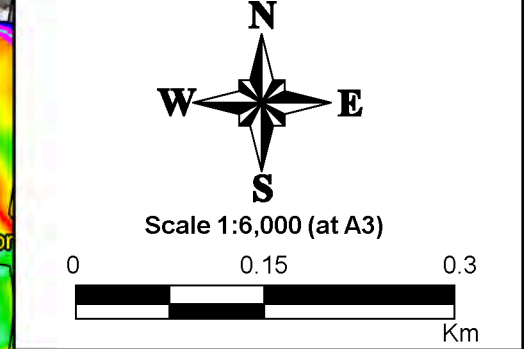
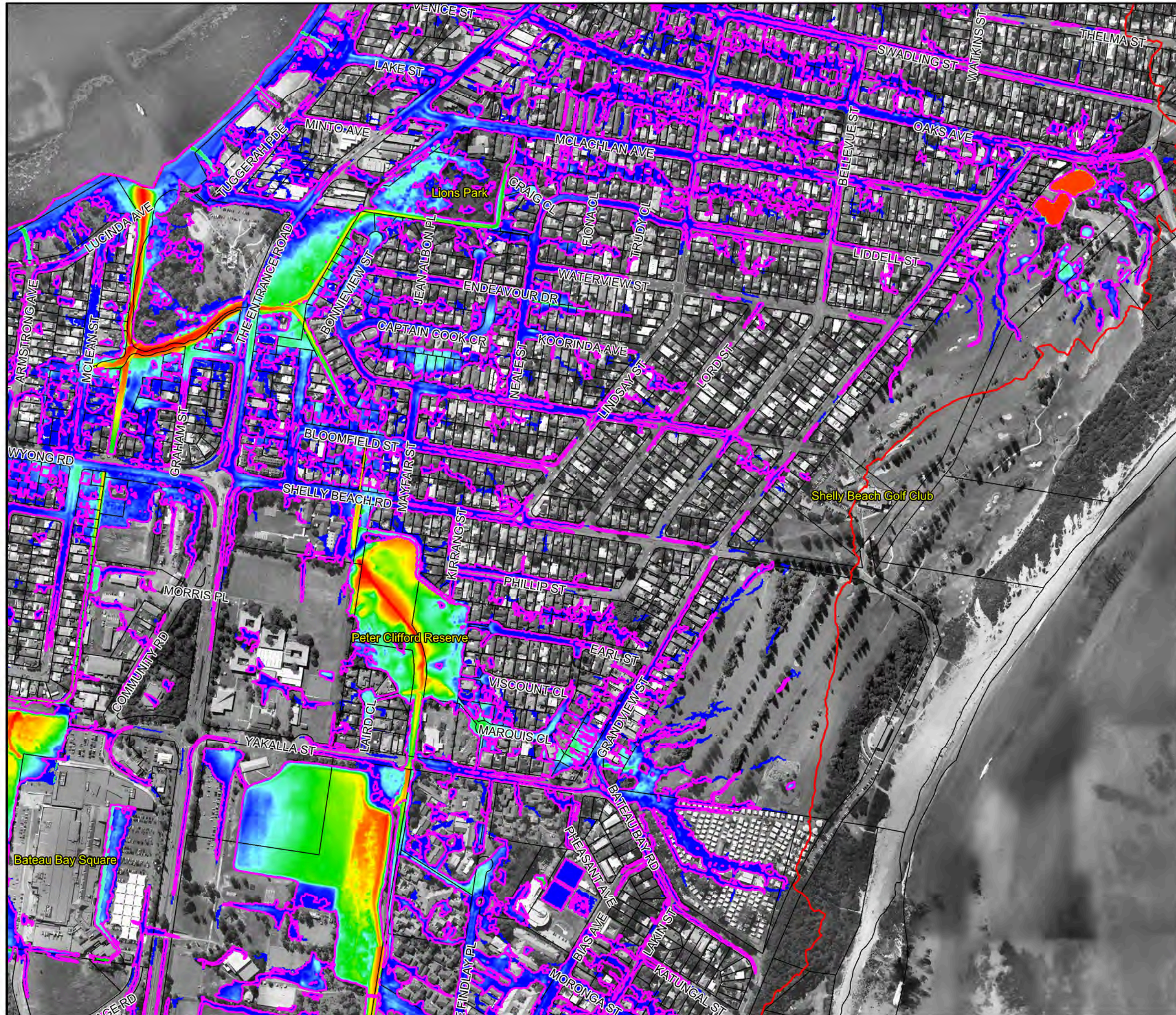
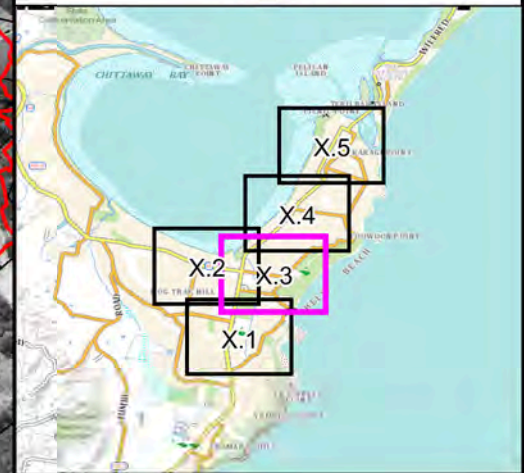


Figure 16.2
Peak Floodwater Depths for the 1% AEP Flood with 18.6% Increase in Rainfall Intensity associated with Climate Change

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000
 Depths for the 1% AEP CC186 Flood.wor



LEGEND

- Catchment Boundary
- 1% AEP Extent

Depths (m)

- ≤ 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

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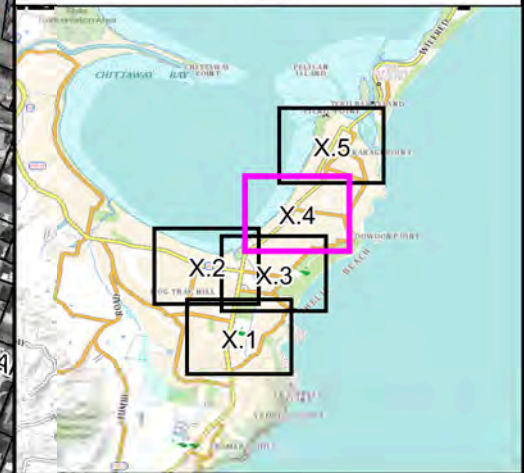
Scale 1:6,000 (at A3)

0 0.15 0.3
 Km

Figure 16.3
Peak Floodwater Depths for the 1% AEP Flood with 18.6% Increase in Rainfall Intensity associated with Climate Change

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

Depths for the 1% AEP CC186 Flood.wor



LEGEND

- Catchment Boundary
- 1% AEP Extent

Depths (m)

- ≤ 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

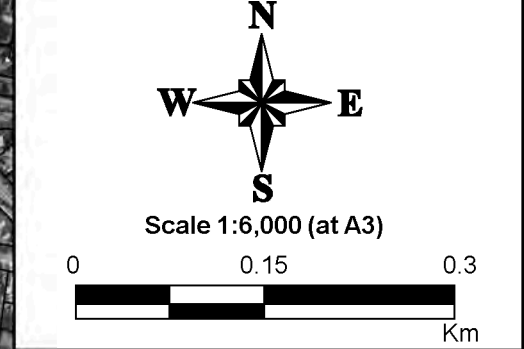
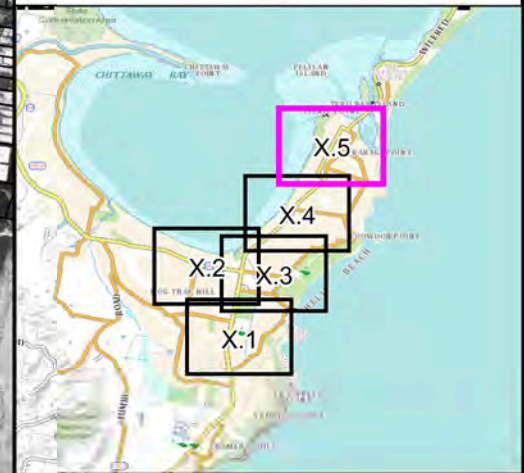


Figure 16.4
Peak Floodwater Depths for the 1% AEP Flood with 18.6% Increase in Rainfall Intensity associated with Climate Change

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

Depths for the 1% AEP CC186 Flood.wor



LEGEND

- Catchment Boundary
- 1% AEP Extent

Depths (m)

- ≤ 0.15
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

Notes:
 Results are filtered based on criteria in Section 3.2.2 of Volume 1
 Aerial photograph date: 2013

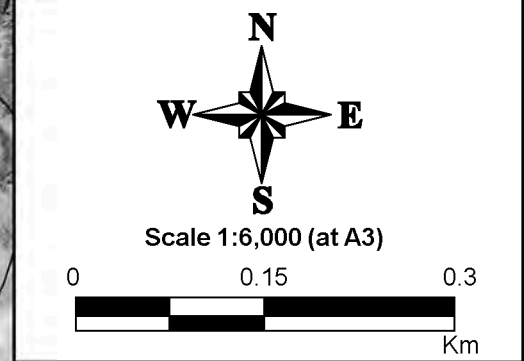
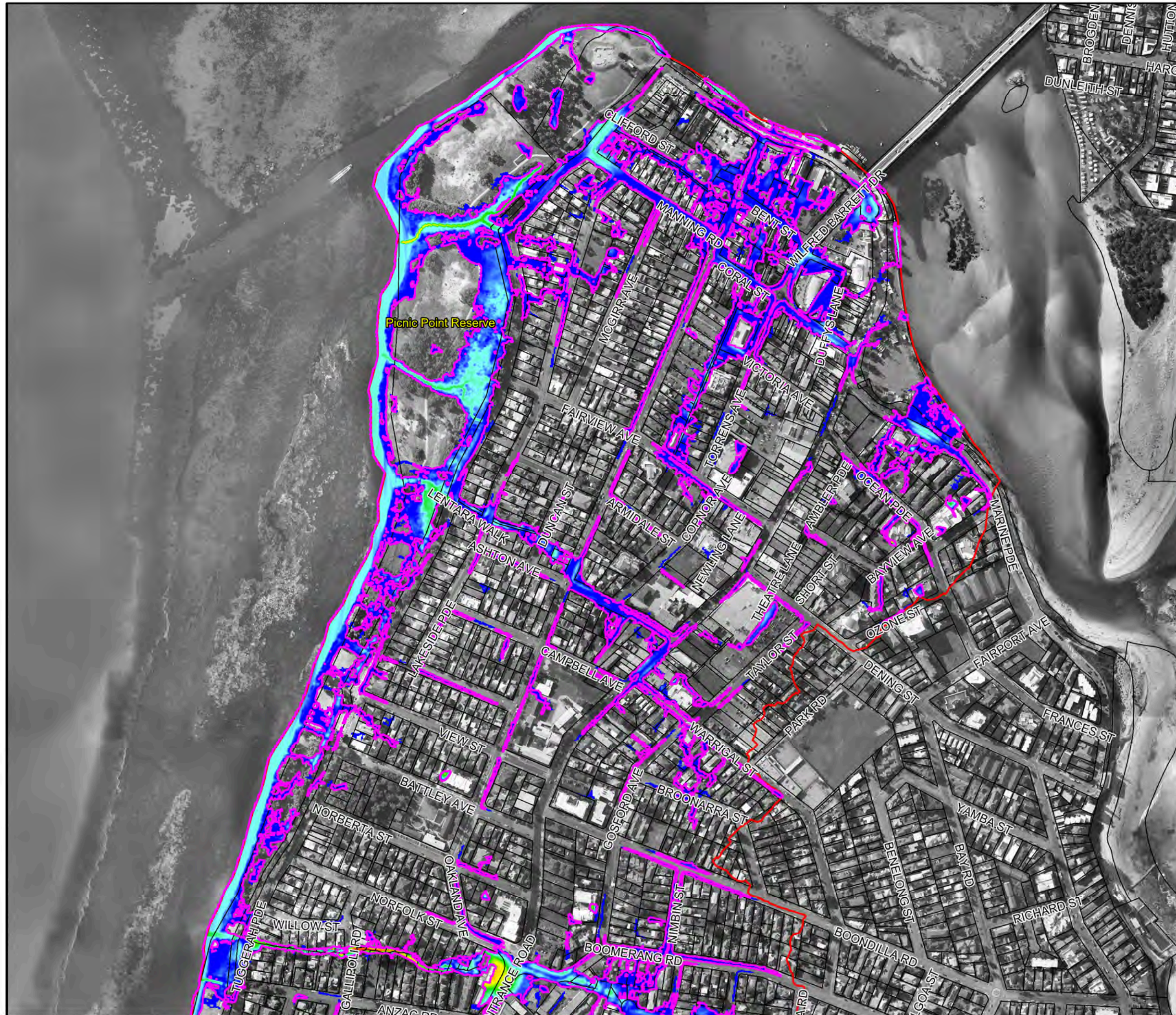
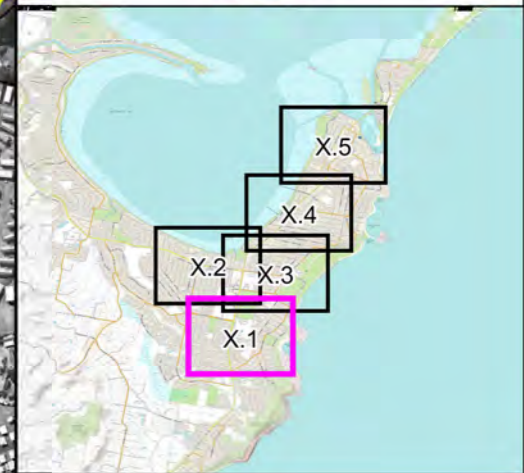


Figure 16.5
Peak Floodwater Depths
for the 1% AEP Flood with
18.6% Increase in Rainfall
Intensity associated with
Climate Change

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000

Depths for the 1% AEP CC186 Flood.wor





LEGEND

- Catchment Boundary
- Flood Planning Area

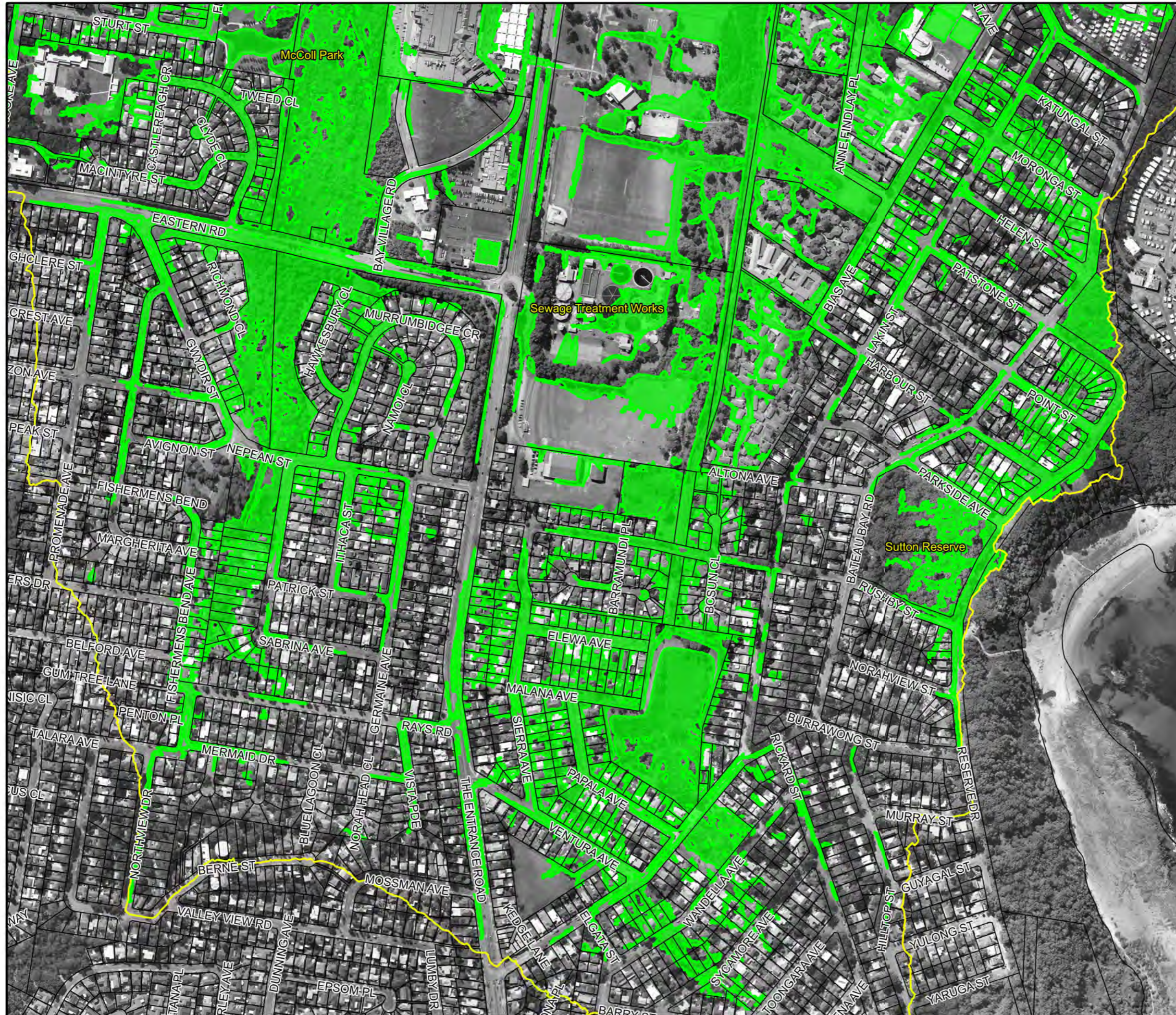
Notes:
Aerial photograph date: 2013

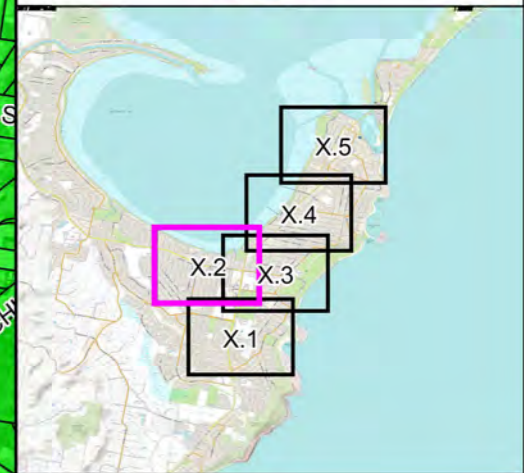
Scale 1:6,000 (at A3)

**Figure 17.1
Flood Planning Area**

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

Flood Planning Area wor





LEGEND

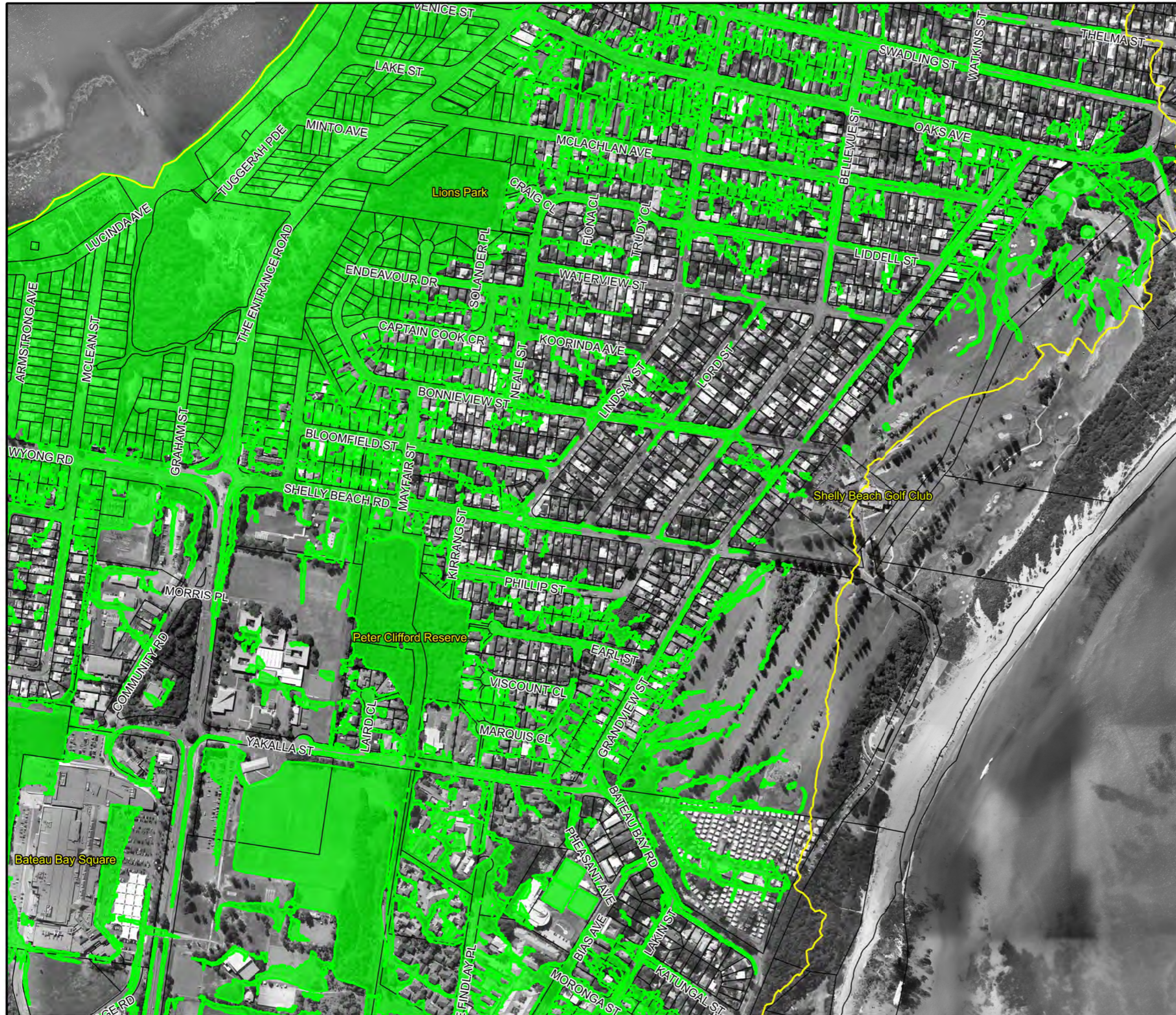
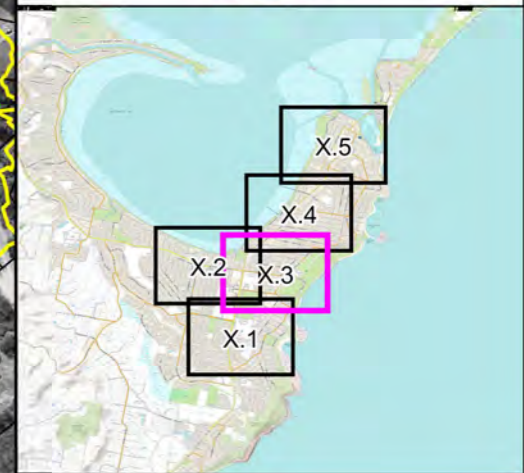
- Catchment Boundary
- Flood Planning Area

Notes:
Aerial photograph date: 2013

Scale 1:6,000 (at A3)

Figure 17.2
Flood Planning Area

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000
 Flood Planning Area wor



LEGEND

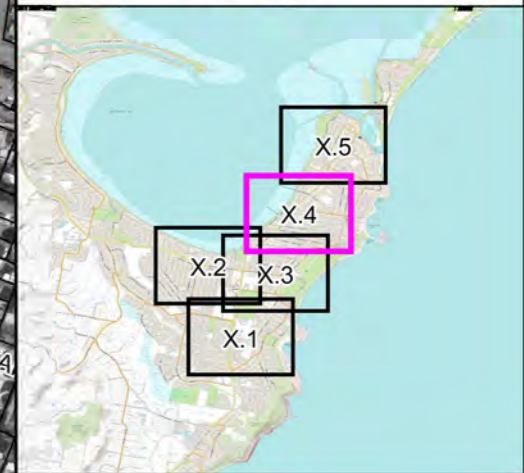
- Catchment Boundary
- Flood Planning Area

Notes:
Aerial photograph date: 2013

Scale 1:6,000 (at A3)

Figure 17.3
Flood Planning Area

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000
 Flood Planning Area wor



LEGEND

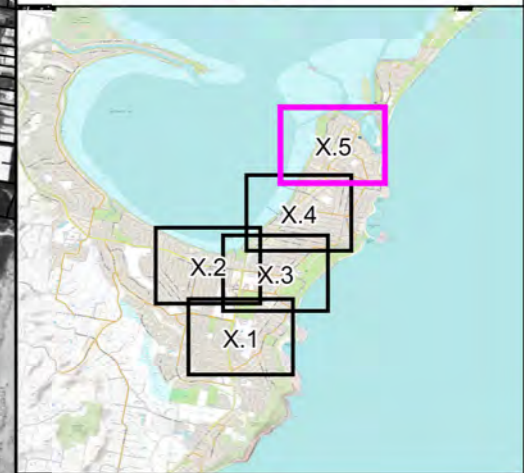
- Catchment Boundary
- Flood Planning Area

Notes:
Aerial photograph date: 2013

Scale 1:6,000 (at A3)

Figure 17.4
Flood Planning Area

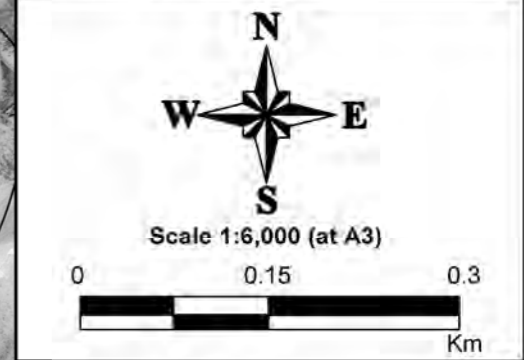
Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000
 Flood Planning Area wor



LEGEND

- Catchment Boundary
- Flood Planning Area

Notes:
Aerial photograph date: 2013

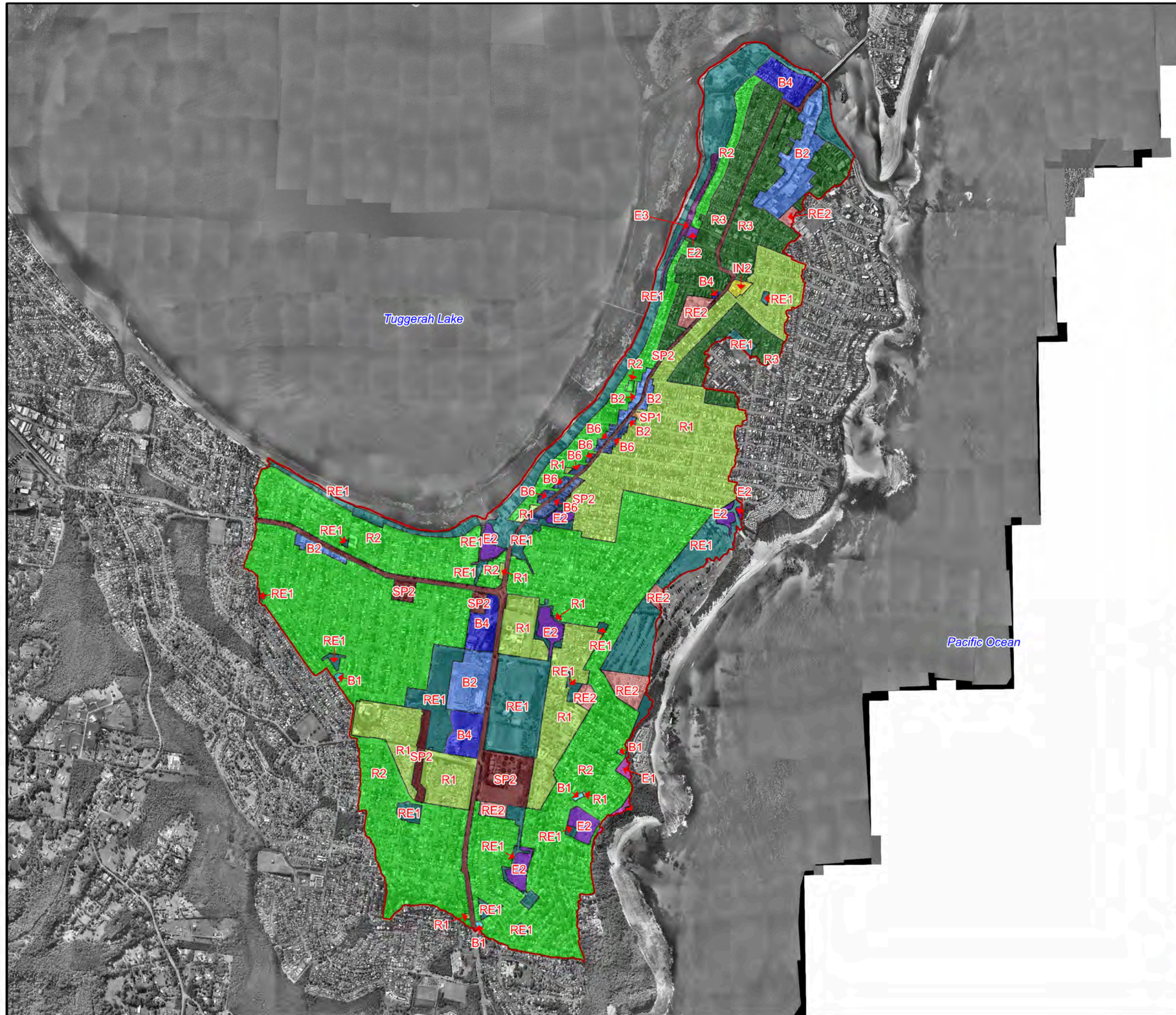


**Figure 17.5
Flood Planning Area**

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

Flood Planning Area wor



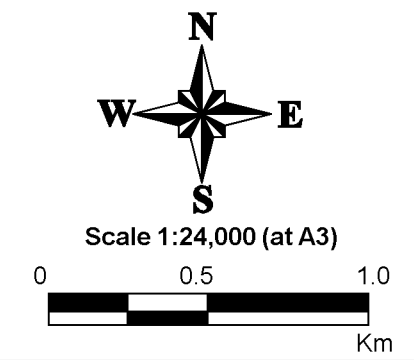


LEGEND

Land Zoning Categories

	B1		R1
	B2		R2
	B4		R3
	B6		RE1
	E1		RE2
	E2		SP1
	E3		SP2
	IN2		

Notes:
Aerial photograph date: 2013



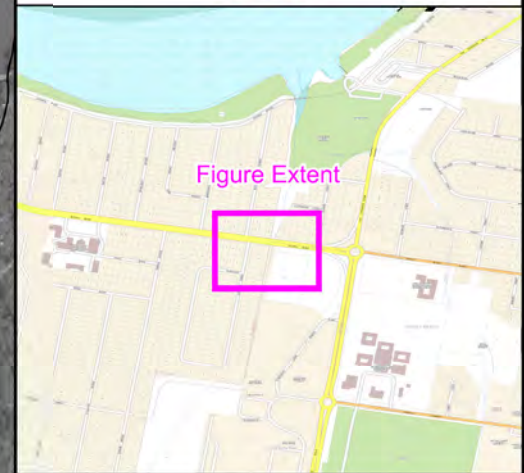
**Figure 18:
Local Environmental
Plan (LEP) Zoning**

Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Environmental Planning.wor

CONCEPT DESIGNS FOR FLOODPLAIN RISK MANAGEMENT OPTIONS

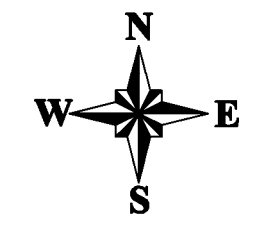




LEGEND

- ▭ Catchment Boundary
- ▬ Existing Stormwater Pipe
- ▬ Blockage Control Structure
- ▬ Culvert with Reduced Blockage

Notes:
Aerial photograph date: 2013



Scale 1:3,500 (at A3)

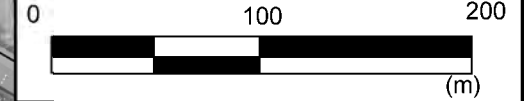
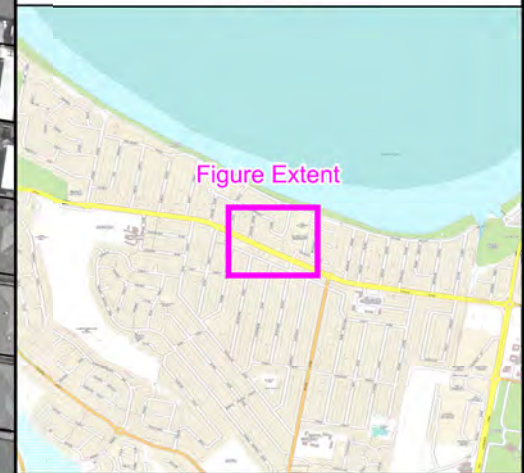


Figure 19
Concept Design for
Blockage Control Structures
Upstream of Culverts





Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig 19 Blockage Control Structure
Concept Design.wor





LEGEND

-  Catchment Boundary
-  Proposed Culvert
-  Upgrade Stormwater Pipe/Culver
-  Existing Stormwater Pipe/Culver

Notes:
Aerial photograph date: 2013

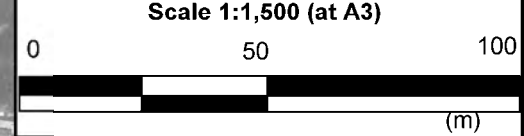
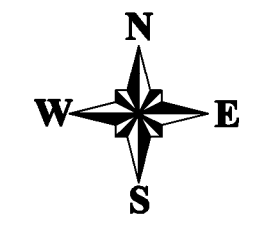

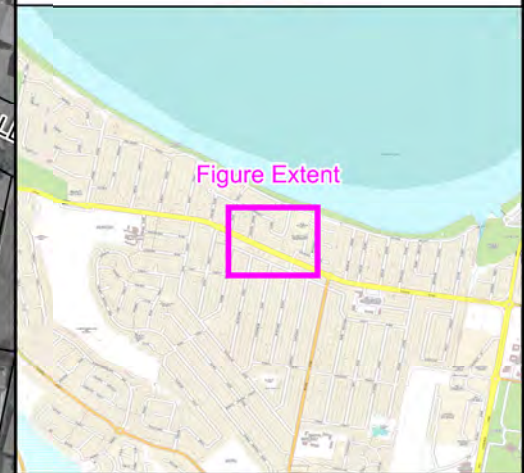


Figure 20
Concept Design for
Culvert Upgrades near
Kathleen White Crescent

Prepared By:
 **Catchment Simulation Solutions**
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig 20 Kathleen White
Culvert Upgrades.wor





LEGEND

- Catchment Boundary
- Proposed Culvert
- Upgrade Stormwater Pipe/Culver
- Existing Stormwater Pipe/Culver

Notes:
Aerial photograph date: 2013

Scale 1:1,500 (at A3)

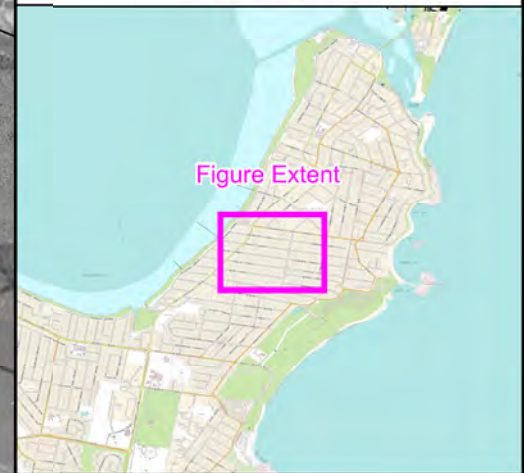
0 50 100 (m)

Figure 21
Concept Design for
Culvert Upgrades between
Hume Blvd and Wyong Rd

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig 21 Culvert Upgrades
Hume Blvd to Wyong Rd.wor





LEGEND

- Catchment Boundary
- Proposed Culvert
- Upgrade Stormwater Pipe/Culvert
- Existing Stormwater Pipe/Culvert

Notes:
Aerial photograph date: 2013

Scale 1:750 (at A3)

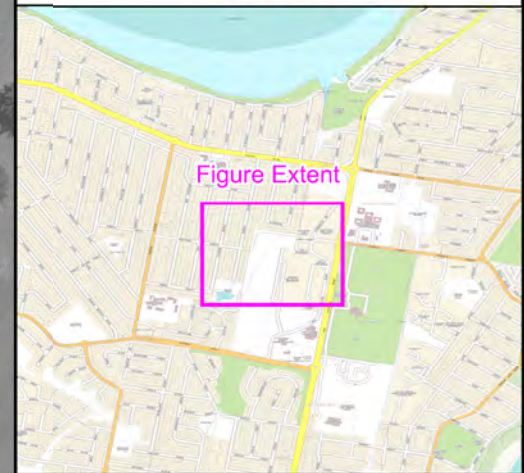
0 25 50 (m)

Figure 22
Concept Design for Culvert Upgrade between The Entrance Rd and the rear of The Reef Resort Motel

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig 22 Concept Design for Reef Resort Motel Culvert Upgrades.wor

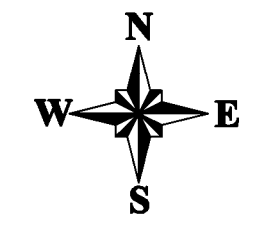




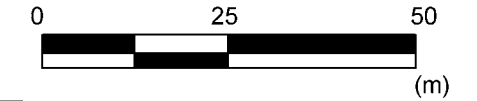
LEGEND

- Catchment Boundary
- Proposed Peak 1%AEP Flood Extent
- Basin Crest
- Basin Spillway
- Existing Stormwater Pipe
- New Stormwater Pipe

Notes:
Aerial photograph date: 2013



Scale 1:1,000 (at A3)

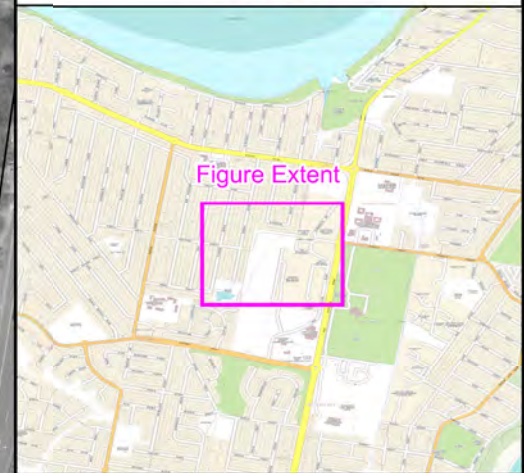


**Figure 23
Concept Design for the
Shelly Beach Golf Course
Detention Basin**

Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig 23 Shelly Beach Detention Basins Concept Design.wor





LEGEND

- Catchment Boundary
- Basin Crest and Spillway Raising
- Mound Construction
- Existing Stormwater Pipe

Notes:
Aerial photograph date: 2013

Scale 1:2,000 (at A3)

Figure 24 Concept Design for the Bay Village Detention Basin Upgrade

Prepared By:
Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig 24 Bay Village Basin Upgrade Concept Design.wor





LEGEND

- Catchment Boundary
- Proposed Kerb and Gutter Installation/Modification (0.3m raising)
- Proposed Kerb and Gutter Installation/Modification (0.2m raising)
- Proposed Regrading

Notes:
Aerial photograph date: 2013

N
W —+— E
S

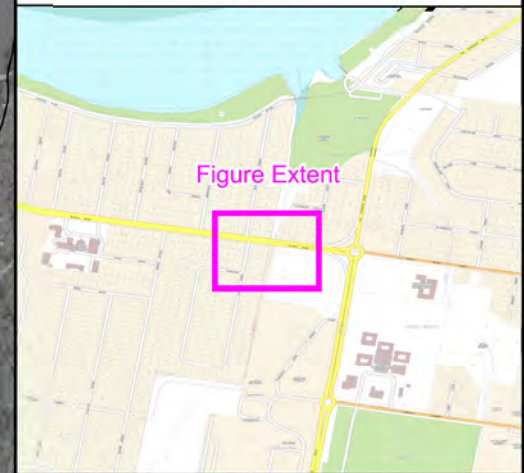
Scale 1:2,000 (at A3)

0 50 100
—————
(m)

Figure 25
Concept Design for
Installation of Kerb and Gutter
along Elsiemer St and Pacific St

Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig 25 Concept Design for Kerb and Gutter along Elsiemer and Pacific St.wor



LEGEND

- ▭ Catchment Boundary
- ▭ Longitudinal Regrading
- ▭ Proposed Single Grade Crossfall Regrading

Notes:
Aerial photograph date: 2013

N
W —+— E
S

Scale 1:3,500 (at A3)

0 100 200
m

Figure 26
Concept Design for
Wyong Road Regrading

Prepared By:
Catchment Simulation Solutions
 Suite 2.01, 210 George St
 Sydney, NSW 2000
 File Name: Fig 26 Wyong Rd Regrading
 Concept Design.wor



LEGEND

- Catchment Boundary
- Proposed Regrading

Notes:
Aerial photograph date: 2013

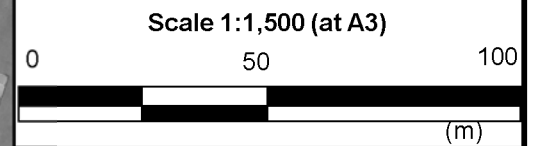
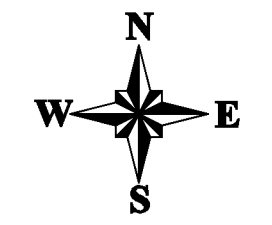


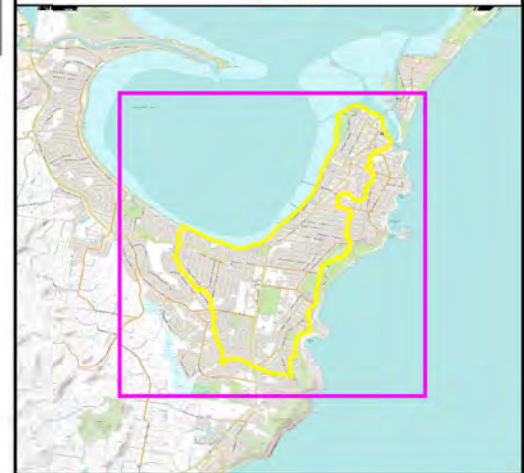
Figure 27
Concept Design for The
Entrance Reef Resort
Motel Regrading

Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000

File Name: Fig 27 Concept Design for Reef
Resort Motel Regrading.wor

DRAFT FLOODPLAIN RISK MANAGEMENT PLAN





LEGEND

- Catchment Boundary
- High Priority Option
- Medium or Low Priority Option
- Not recommended
- FM Flood Modification Option
- PM Property Modification Option
- RM Response Modification Option
- FUT Option for Managing the Future Flood Risk

Notes:
Aerial photograph date: 2013

N
W E
S

Scale 1:22,000 (at A3)

0 0.5 1.0
Km

Figure 28
Killarney Vale and Long Jetty Draft Floodplain Risk Management Plan

Prepared By:
 Catchment Simulation Solutions
Suite 2.01, 210 George St
Sydney, NSW 2000