



# Paddington Flood Study

Draft Report

VOLUME 2: Figures



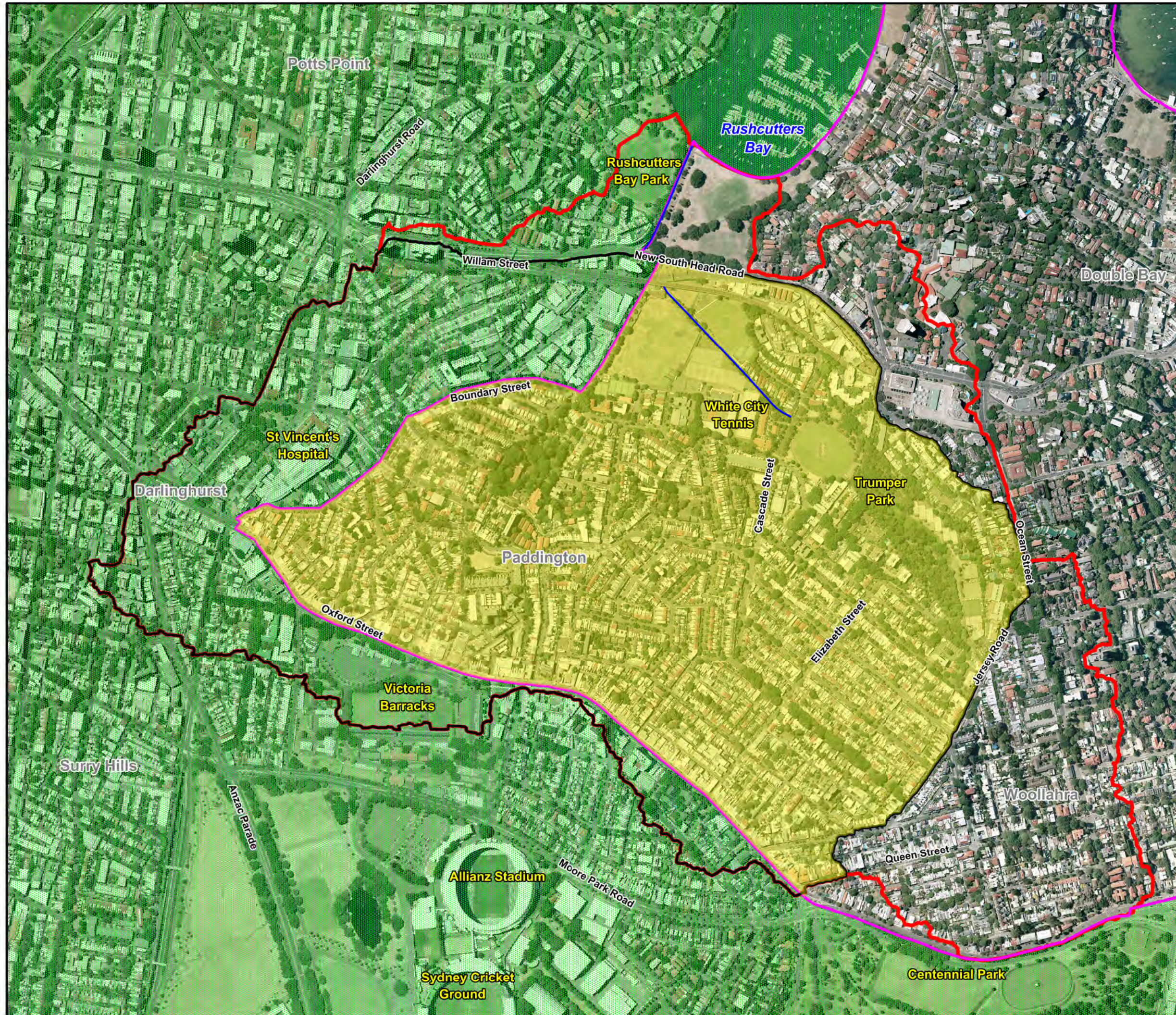
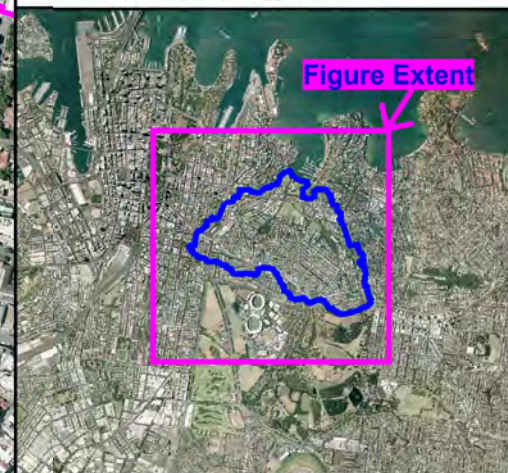
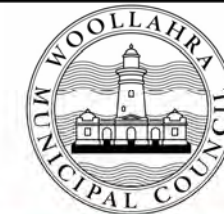
► Revision 1  
February 2016

Catchment Simulation Solutions

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**LEGEND**

- Paddington Catchment Area
- Rushcutters Bay Catchment
- Paddington Study Area
- Open Channel
- Woollahra Municipal Council LGA
- City of Sydney LGA

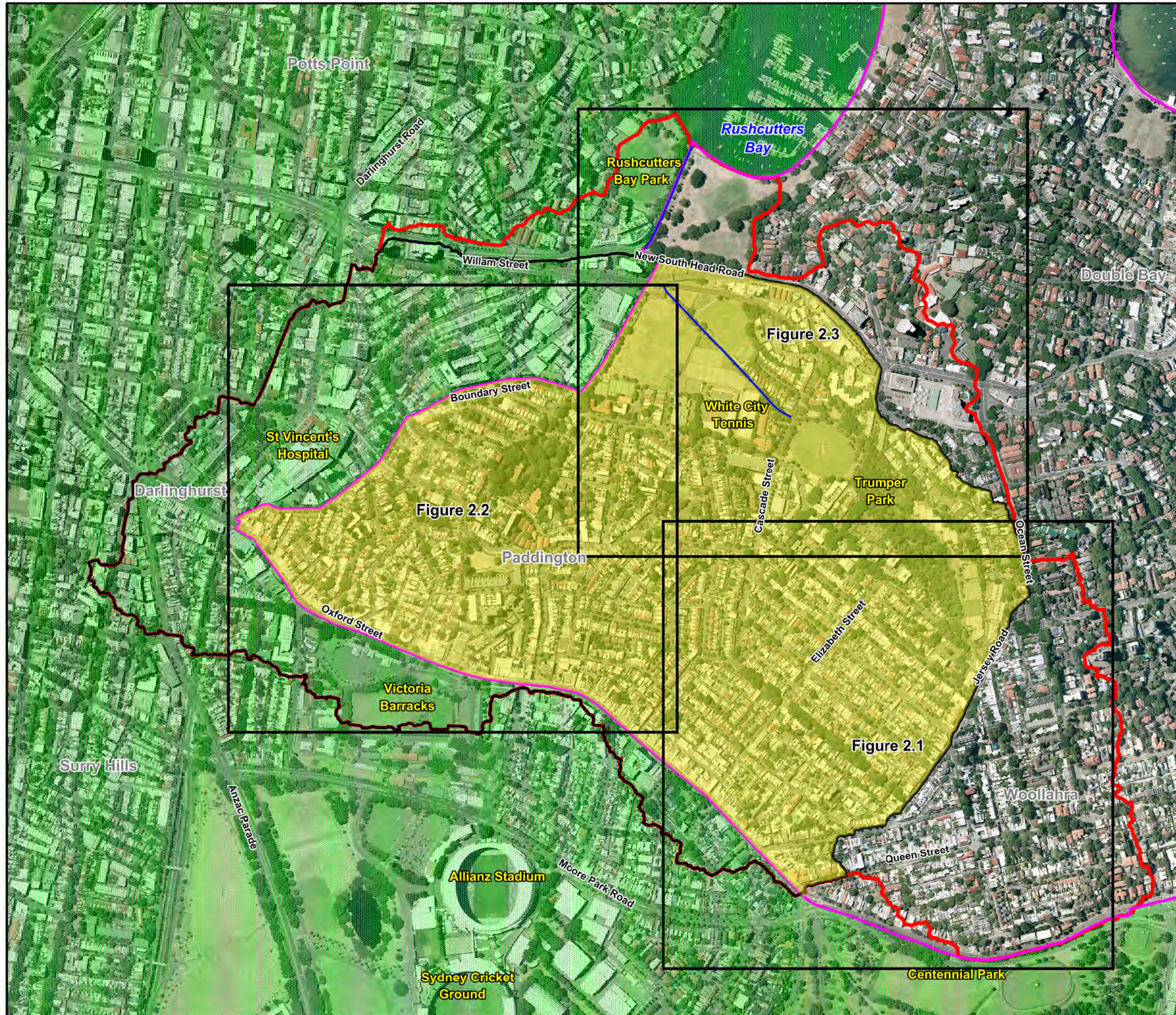
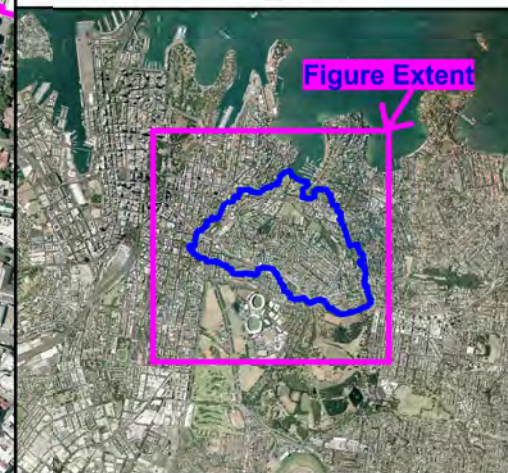
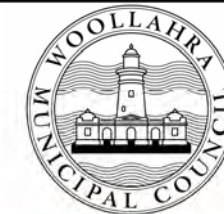
Notes:  
Aerial photograph date: January 2014

Scale 1:8,000 (at A3)

**Figure 1:  
Paddington Study  
Area**

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

File Name: Fig1.1- Paddington Study Area.wor



**LEGEND**

- Paddington Catchment Area
- Rushcutters Bay Catchment
- Paddington Study Area
- Open Channel
- Woollahra Municipal Council LGA
- City of Sydney LGA

Notes:  
Aerial photograph date: January 2014

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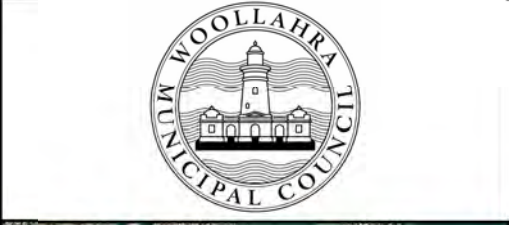
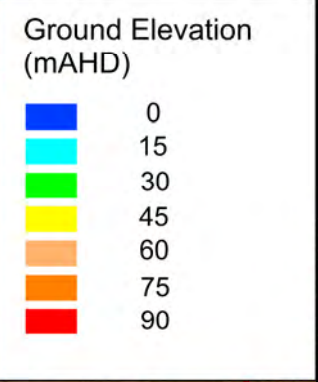
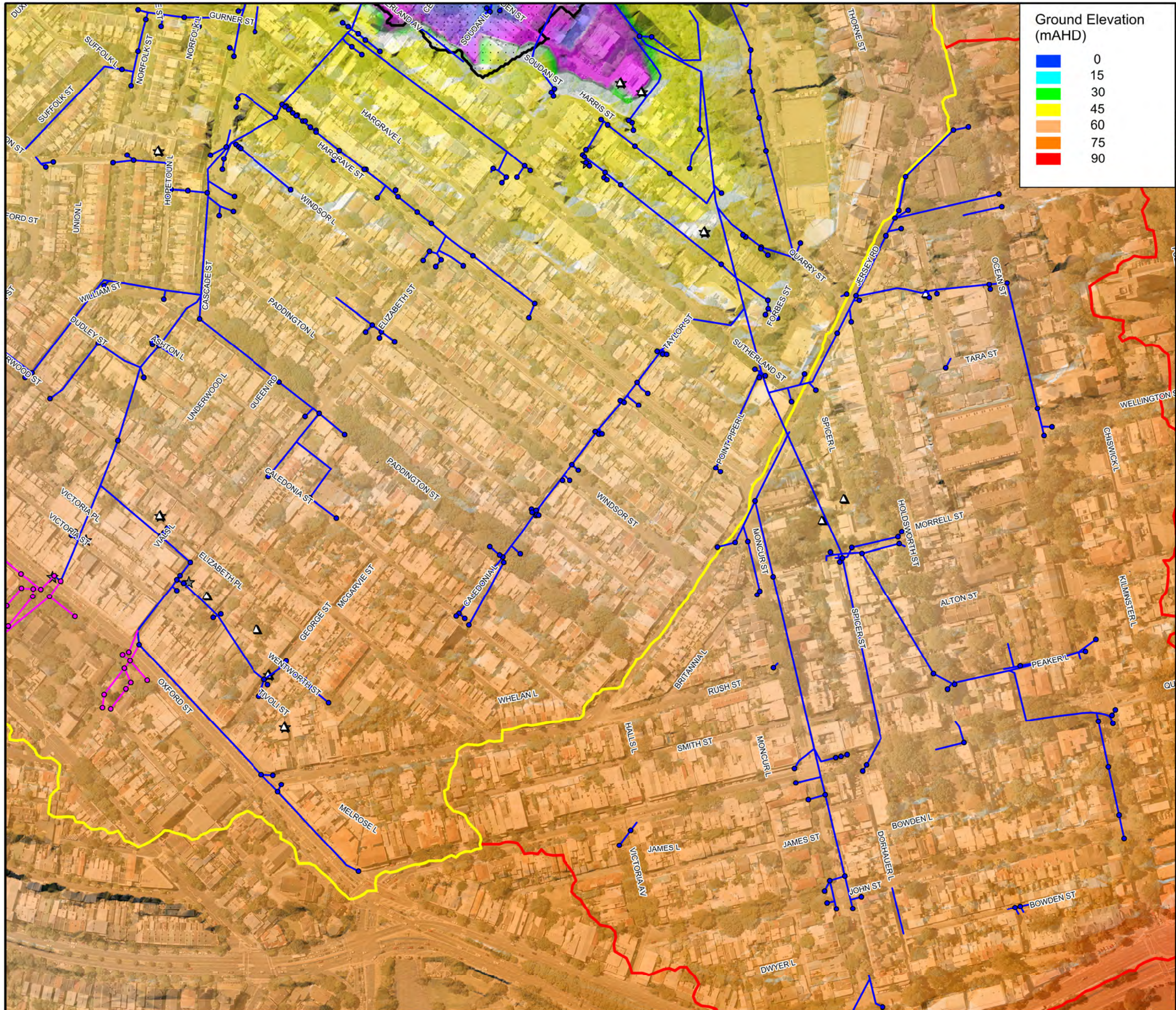
Scale 1:8,000 (at A3)

0 0.25 0.5  
Km

**Figure 2:  
Existing information  
Overview**

Prepared By:  
 **Catchment Simulation Solutions**  
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Sydney, NSW 2000

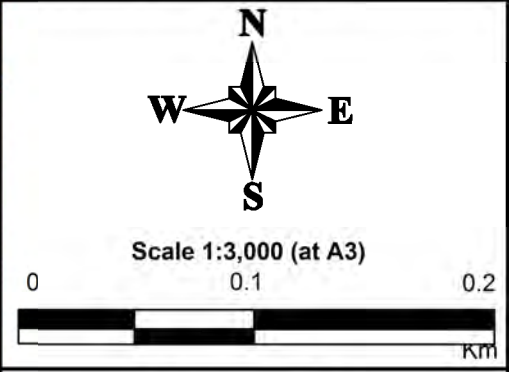
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**LEGEND**

- Paddington Study Area
- Rushcutters Bay Catchment
- 1% AEP Extent from Rushcutters Bay Catchment Flood Study
- Woollahra Stormwater Pits
- Woollahra Stormwater Pipes
- City of Sydney Stormwater Pits
- City of Sydney Stormwater Pipes
- ★ 1989 Flood Marks
- ▲ 1991 Flood Marks
- Surveyed Cross Sections

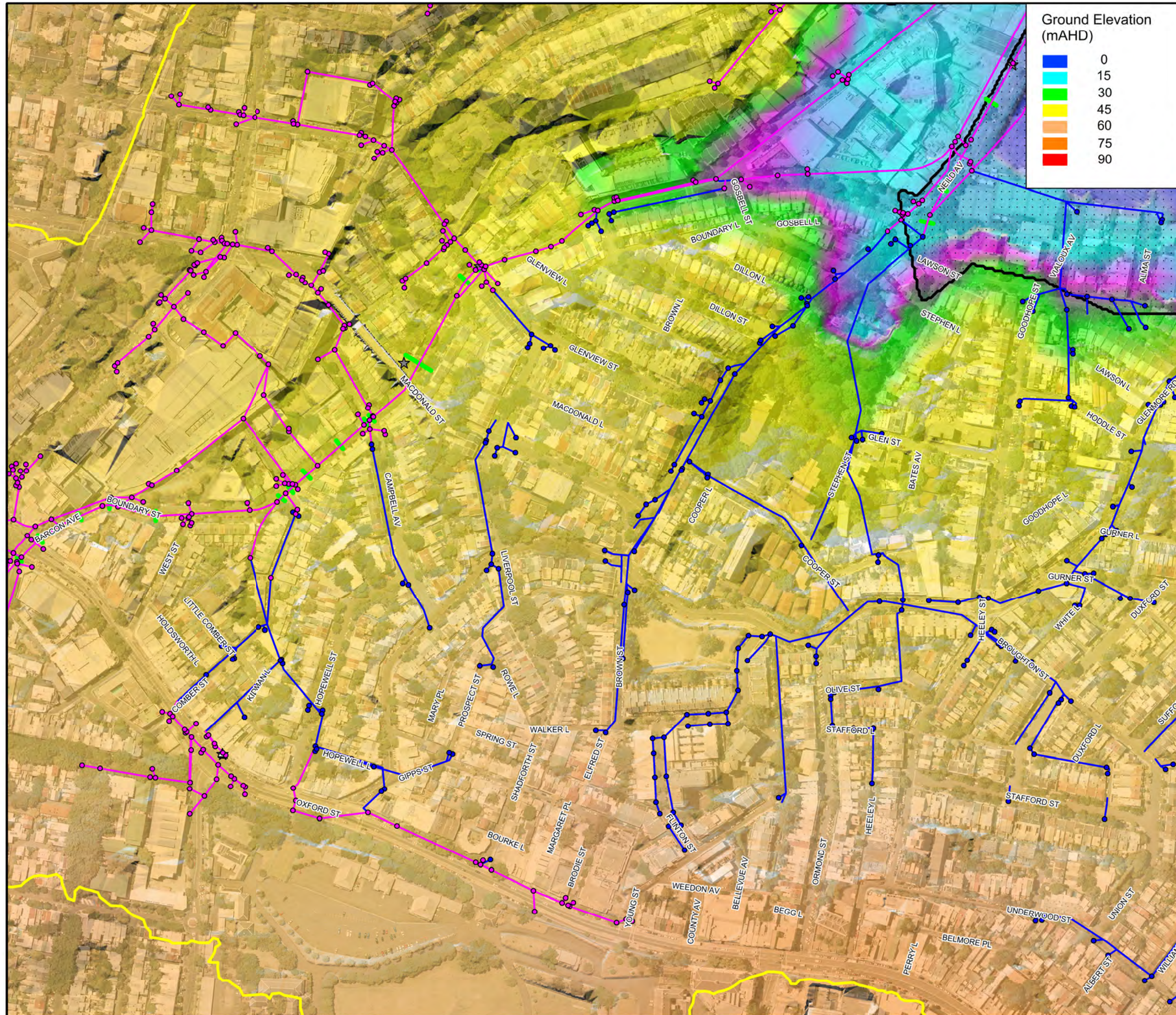
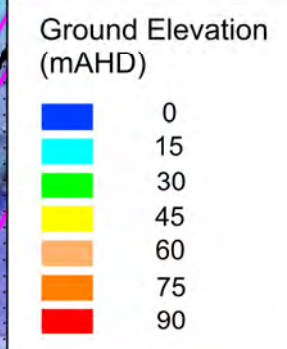
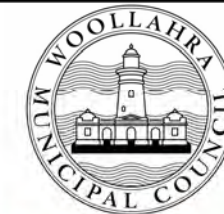
**Notes:**  
Aerial photograph date: January 2014



**Figure 2.1:  
Detailed Existing  
Information**

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

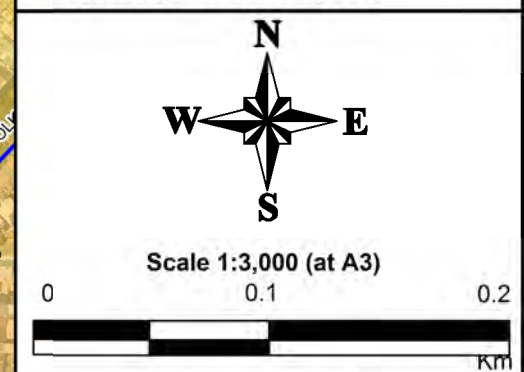
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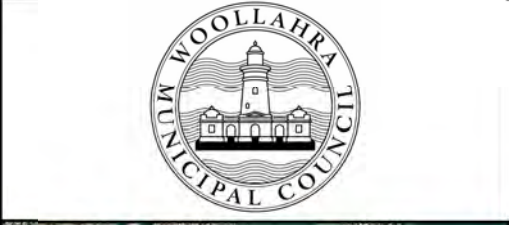
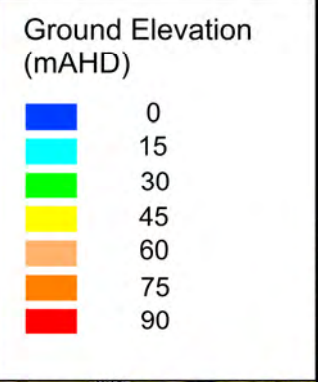
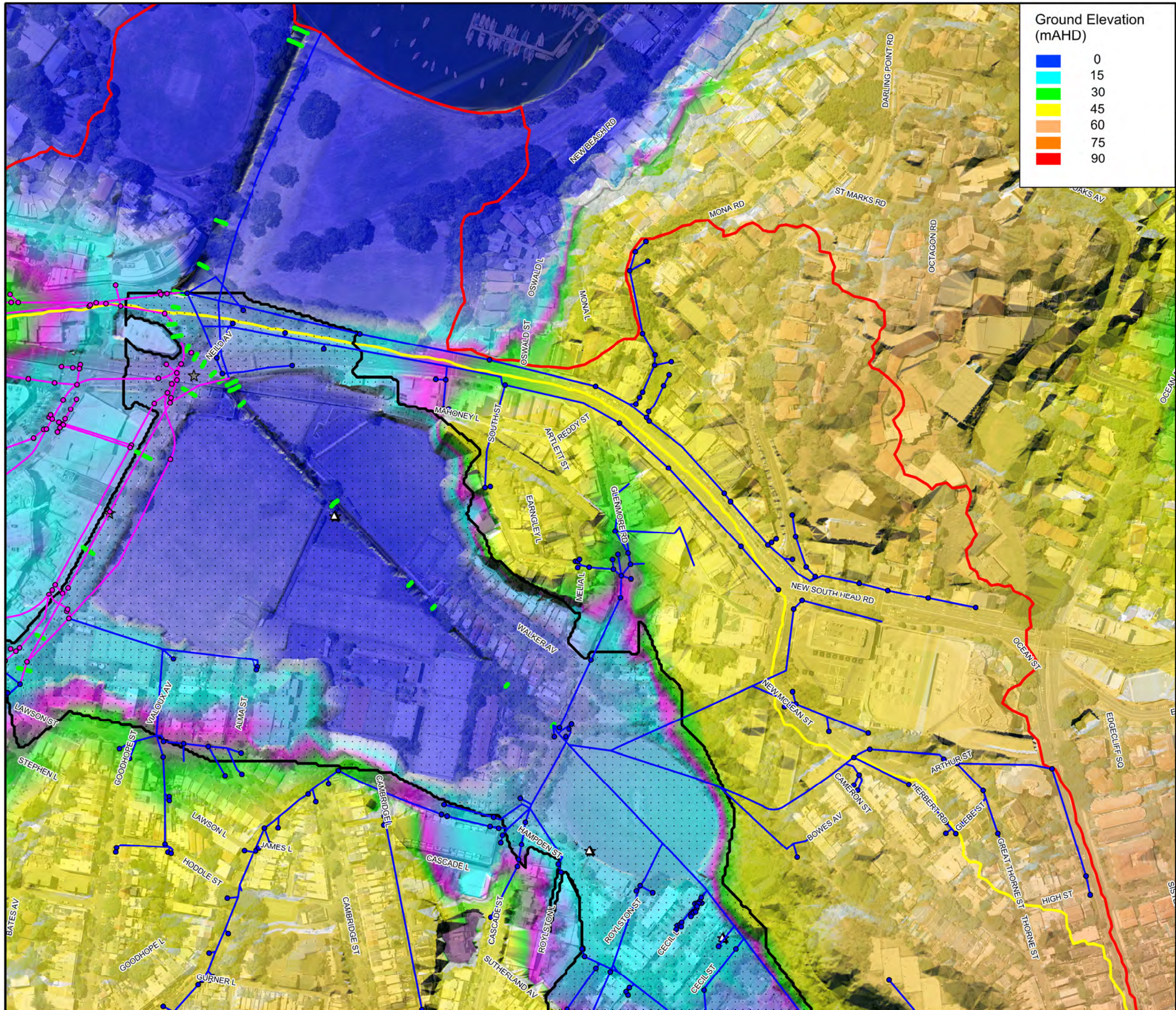
- Paddington Study Area
- Rushcutters Bay Catchment
- 1%AEP Extent from Rushcutters Bay Catchment Flood Study
- Woollahra Stormwater Pits
- Woollahra Stormwater Pipes
- City of Sydney Stormwater Pits
- City of Sydney Stormwater Pipes
- 1989 Flood Marks
- 1991 Flood Marks
- Surveyed Cross Sections

Notes:  
Aerial photograph date: January 2014



**Figure 2.2:  
Detailed Existing  
Information**

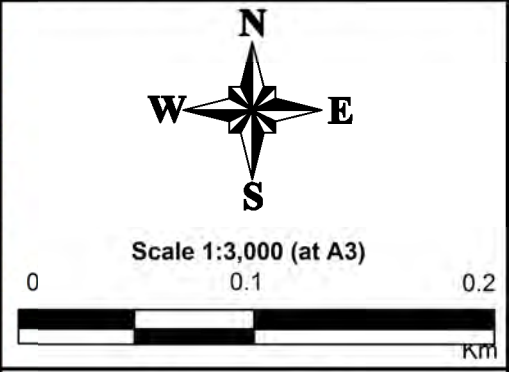
Prepared By:  
 Catchment Simulation Solutions  
Suite 2.01, 210 George St  
Sydney, NSW 2000  
File Name: Fig2.2- Detailed Existing Information.wor



**LEGEND**

- Paddington Study Area
- Rushcutters Bay Catchment
- 1% AEP Extent from Rushcutters Bay Catchment Flood Study
- Woollahra Stormwater Pits
- Woollahra Stormwater Pipes
- City of Sydney Stormwater Pits
- City of Sydney Stormwater Pipes
- ★ 1989 Flood Marks
- ▲ 1991 Flood Marks
- Surveyed Cross Sections

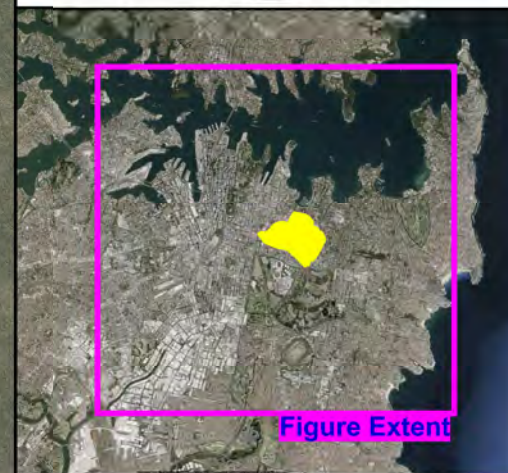
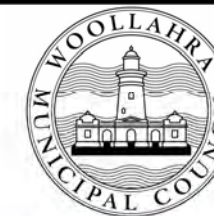
**Notes:**  
Aerial photograph date: January 2014






**Figure 2.3:  
Detailed Existing  
Information**

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 Sydney, NSW 2000

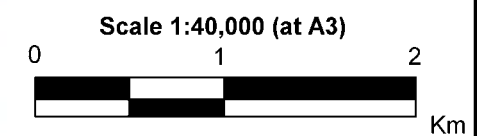
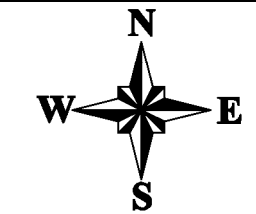
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**LEGEND**

-  Paddington Study Area
-  Daily Rainfall Gauge
-  Continuous Rainfall Gauge

Notes:  
Aerial photograph date: January 2014

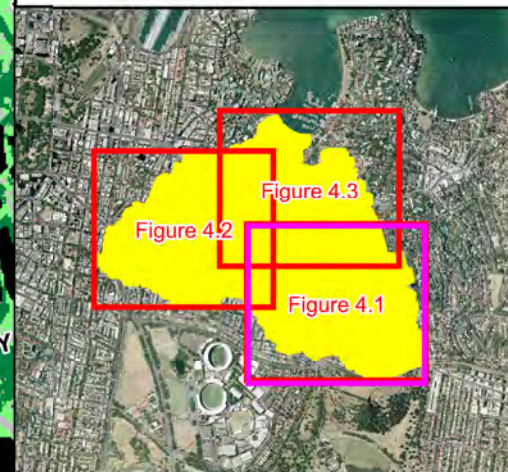


**Figure 3:  
Location of  
Rainfall Gauges**

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 **Catchment Simulation Solutions**  
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Sydney, NSW 2000

File Name: Fig3 - Location of Rainfall Gauges.wor





**LEGEND**

- 2D Model Domain
- 1D Model Domain
- LGA Boundary
- Stormwater Pipes
- Stormwater Pits

**Materials**

- Buildings
- Trees
- Roads
- Grass
- Water

**Notes:**  
Aerial photograph date: January 2014

N  
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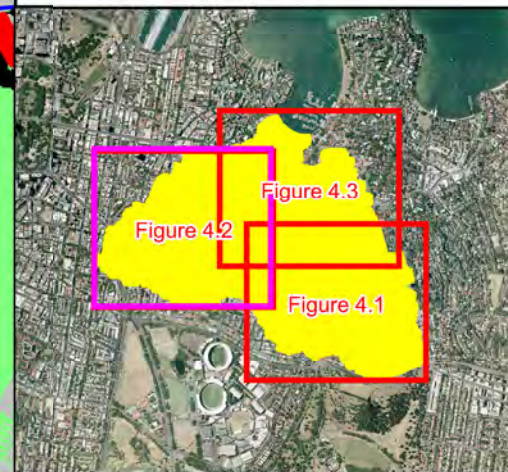
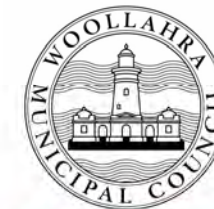
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0 0.1 0.2  
Km

**Figure 4.1:  
TUFLOW Model  
Layout**

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

File Name: Fig4.1 - TUFLOW Model layout .wor



**LEGEND**

- 2D Model Domain
- 1D Model Domain
- LGA Boundary
- Stormwater Pipes
- Stormwater Pits

**Materials**

- Buildings
- Trees
- Roads
- Grass
- Water

**Notes:**  
Aerial photograph date: January 2014

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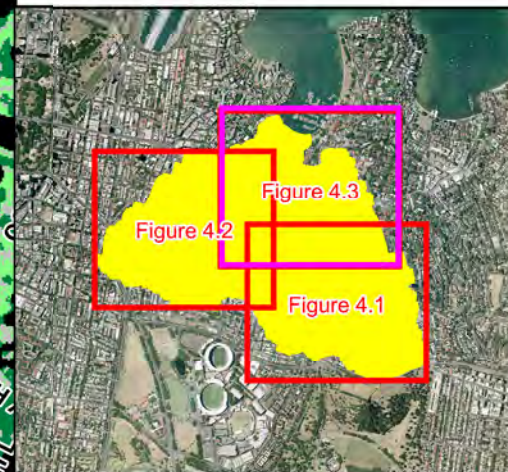
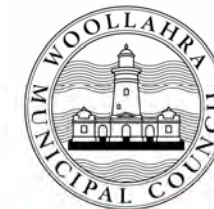
Scale 1:4,000 (at A3)

0      0.1      0.2  
Km

**Figure 4.2:  
TUFLOW Model  
Layout**

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

File Name: Fig4.2 - TUFLOW Model layout .wor



**LEGEND**

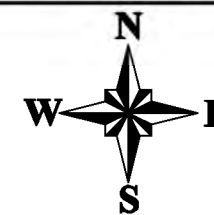
- 2D Model Domain
- 1D Model Domain
- LGA Boundary
- Stormwater Pipes
- Stormwater Pits

**Materials**

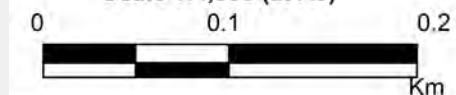
- Buildings
- Trees
- Roads
- Grass
- Water

**Notes:**

Aerial photograph date: January 2014



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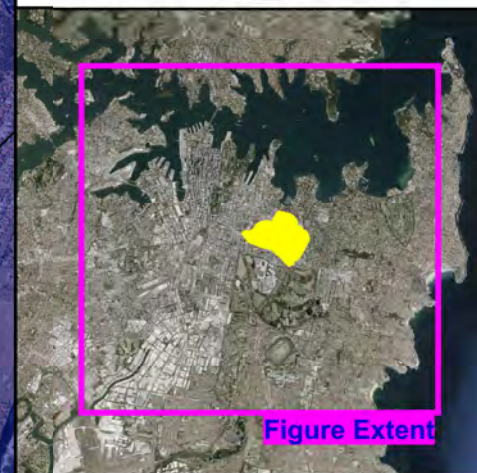
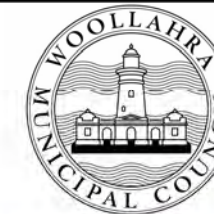


**Figure 4.3:  
TUFLOW Model  
Layout**

Prepared By:

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

File Name: Fig4.3 - TUFLOW Model layout .wor



### LEGEND

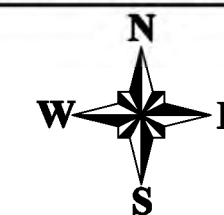
- Paddington Study Area
- Gauge Number - Name  
Rainfall (mm)
- 70 Rainfall Isohyet (mm)

#### Rainfall Depths (mm)

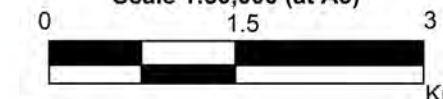
- 20
- 30
- 40
- 50
- 60
- 70
- 80
- 90

#### Notes:

Aerial photograph date: January 2014



Scale 1:30,000 (at A3)

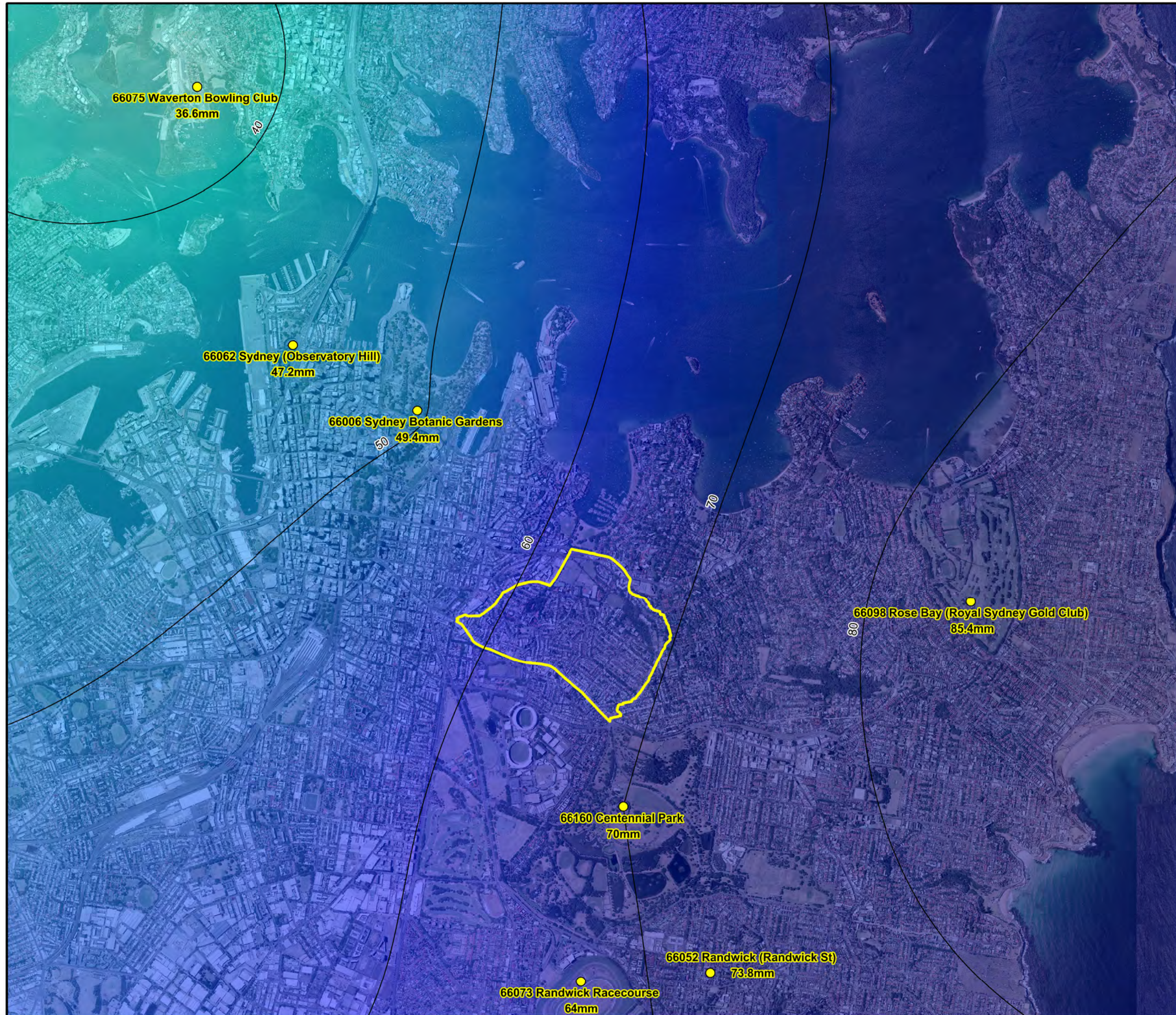


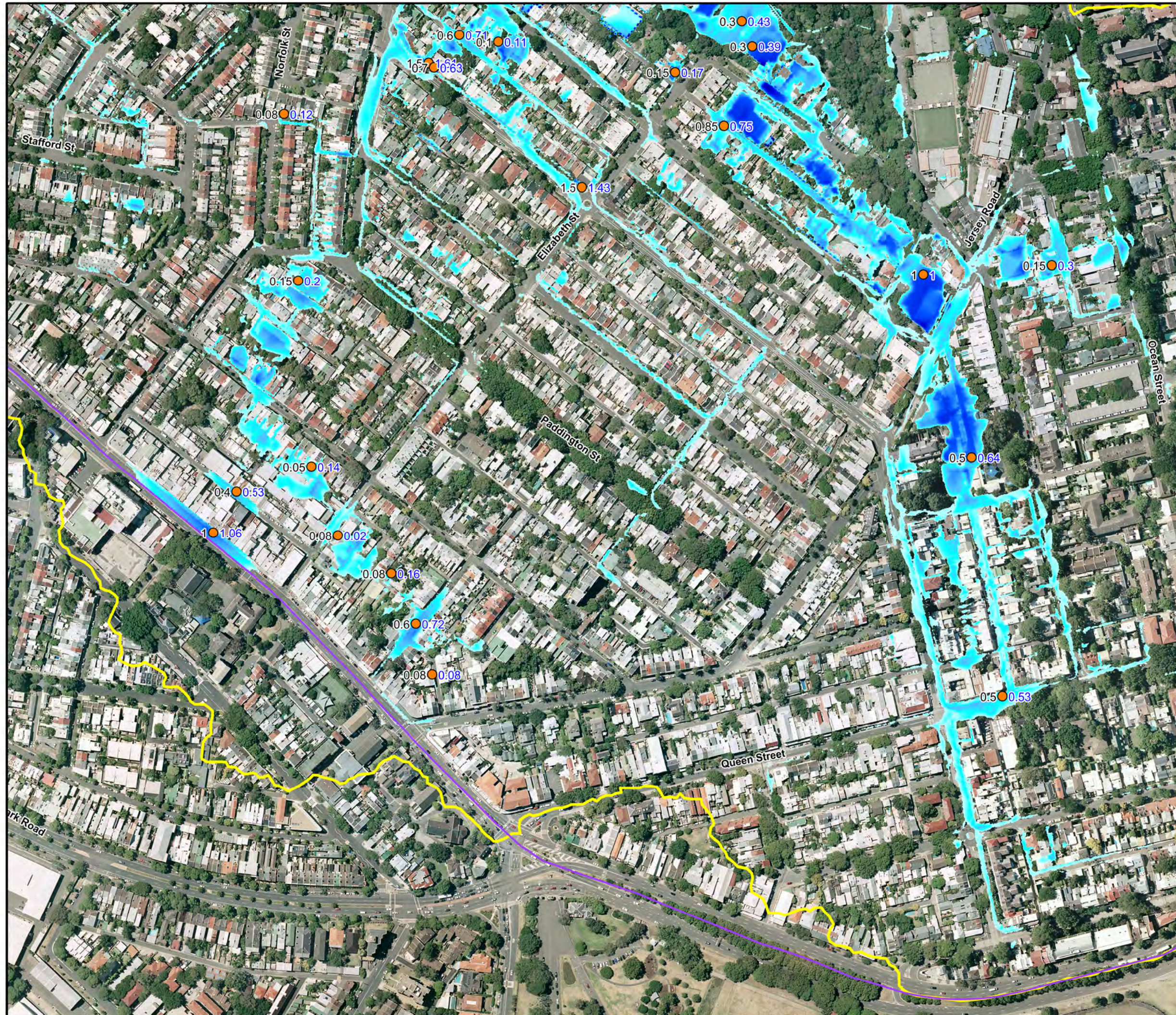
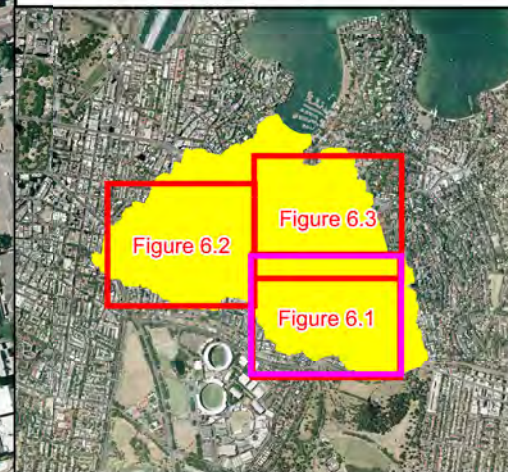
## Figure 5: Rainfall Isohyet Map for January 6 1989

Prepared By:

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Sydney, NSW 2000

File Name: Fig5 - Rainfall Isohyet Jan 6 1989.wor





**LEGEND**

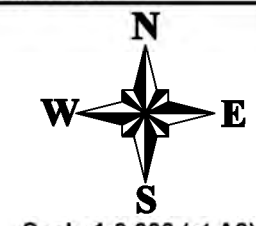
Recorded Flood Depth Simulated Flood Depth

**Depths (m)**

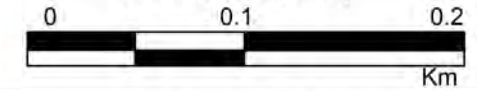
- 0.1
- 0.2
- 0.3
- 0.5
- 1.0
- 2.0
- 3.0

**Notes:**

Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



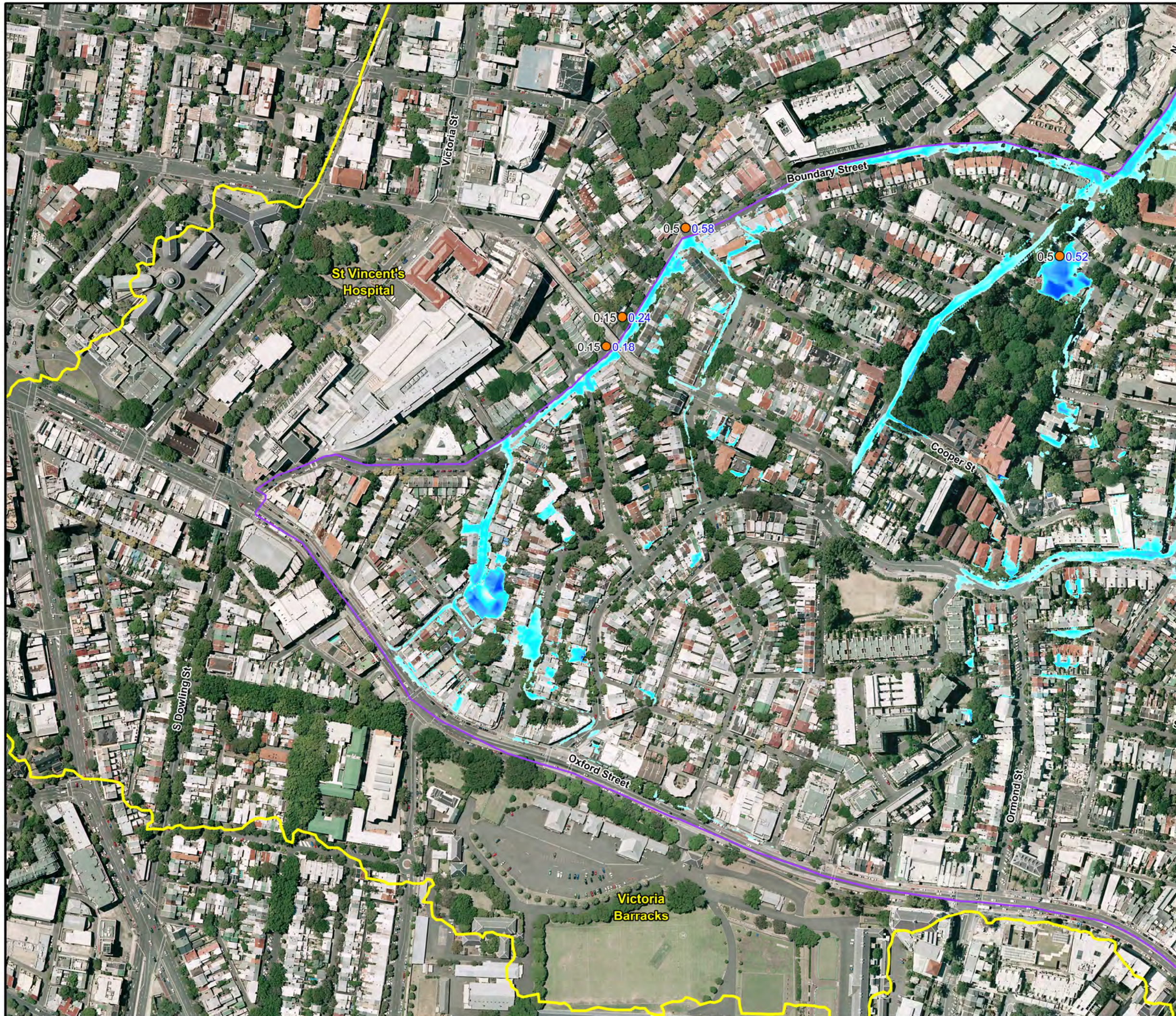
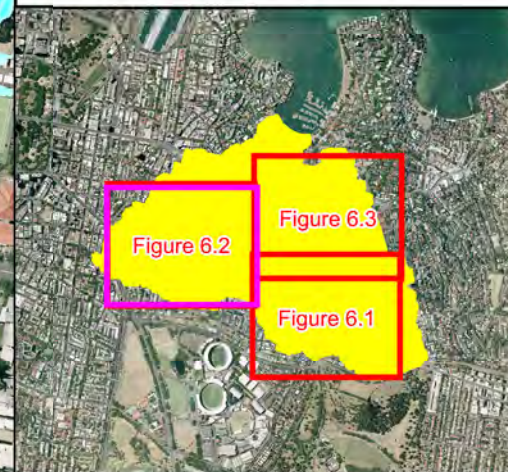
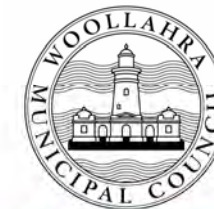
Scale 1:3,000 (at A3)



**Figure 6.1:**  
**Simulated Floodwater**  
**Depths for**  
**January 1989 Flood**

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 Sydney, NSW 2000

File Name: Fig6.1 - Simulated Depths for January 1989.wor



**LEGEND**

Recorded Flood Depth Simulated Flood Depth

**Depths (m)**

	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

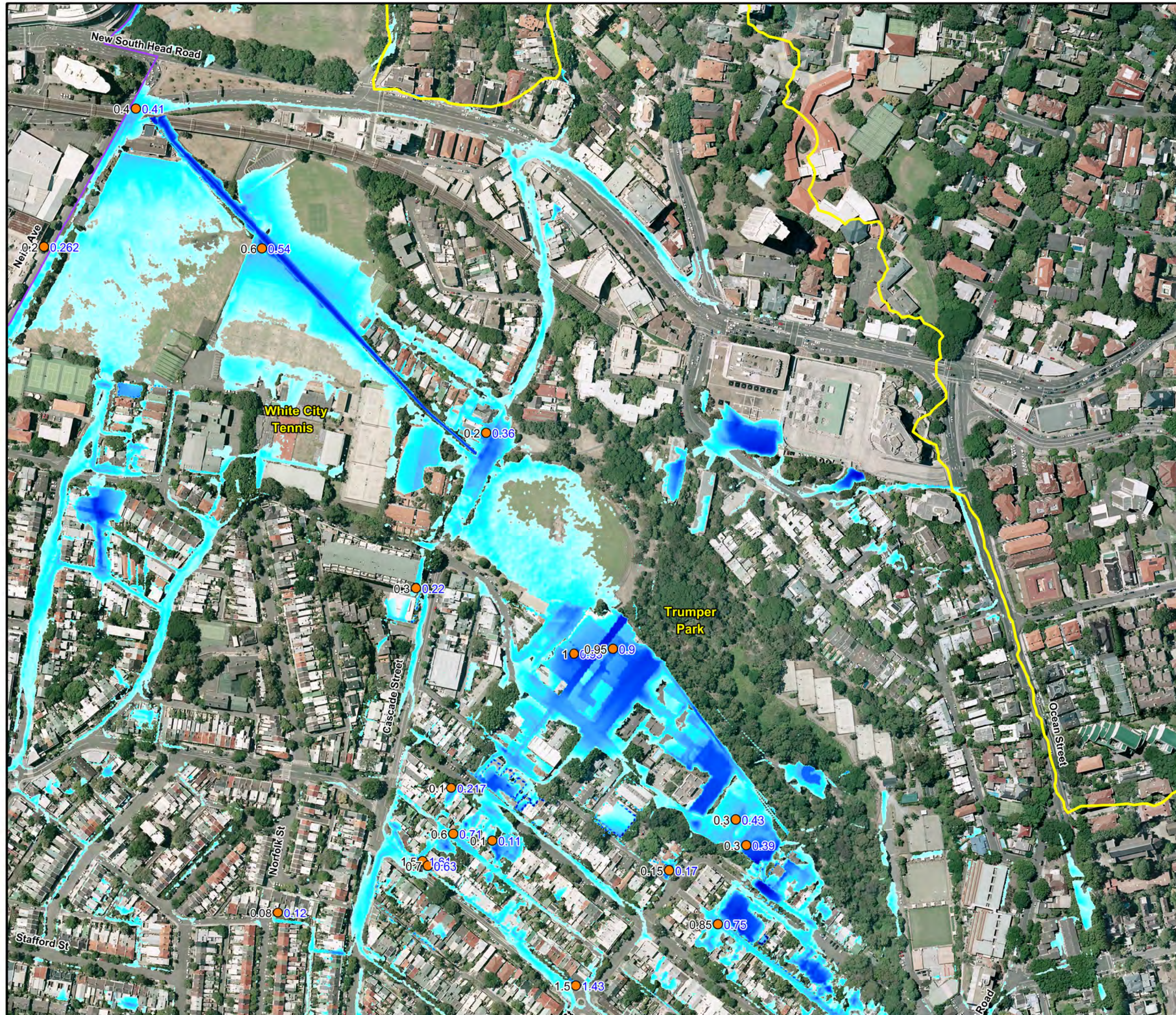
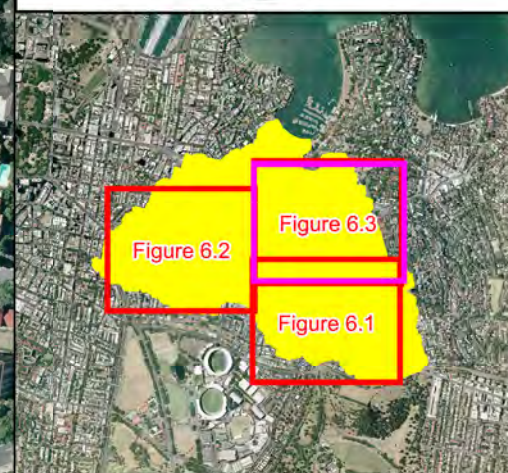
**Scale 1:3,000 (at A3)**

0 0.1 0.2 Km

**Figure 6.2:  
 Simulated Floodwater  
 Depths for  
 January 1989 Flood**

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

File Name: Fig6.2 - Simulated Depths for January 1989.wor



**LEGEND**

Recorded Flood Depth Simulated Flood Depth

**Depths (m)**

	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

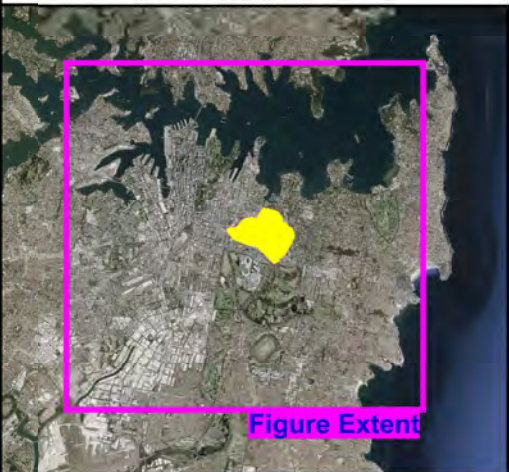
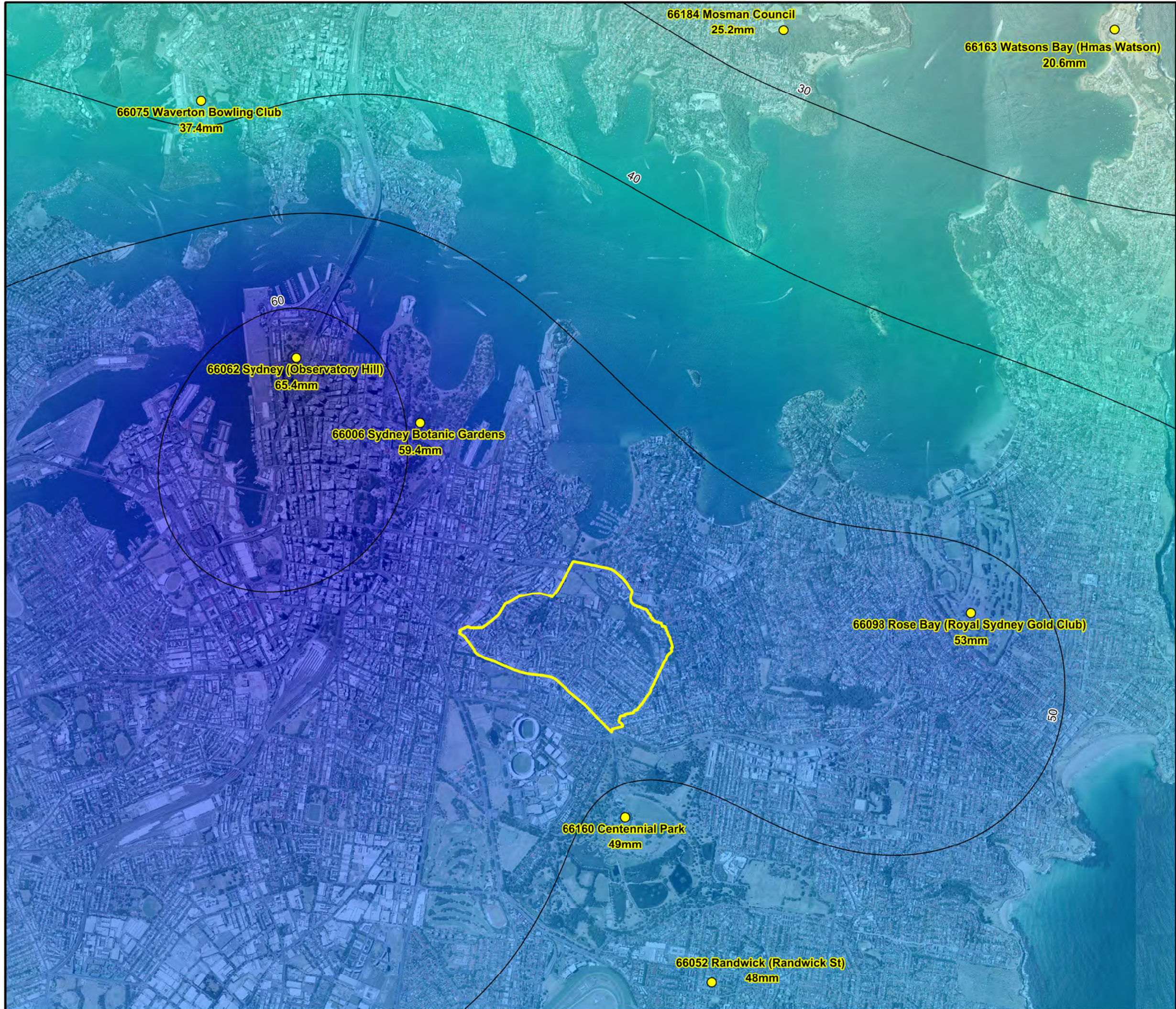
**Scale 1:3,000 (at A3)**

0 0.1 0.2 Km

**Figure 6.3:  
 Simulated Floodwater  
 Depths for  
 January 1989 Flood**

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

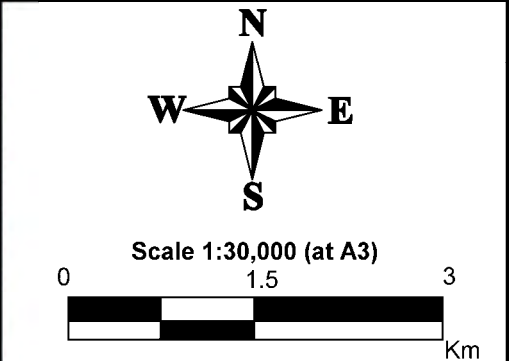
File Name: Fig6.3 - Simulated Depths for January 1989.wor



**LEGEND**

- Paddington Study Area
  - Gauge Number - Name  
Rainfall (mm)
  - 70 Rainfall Isohyet (mm)
- Rainfall Depths (mm)
- 20
  - 30
  - 40
  - 50
  - 60
  - 70
  - 80
  - 90

Notes:  
Aerial photograph date: January 2014

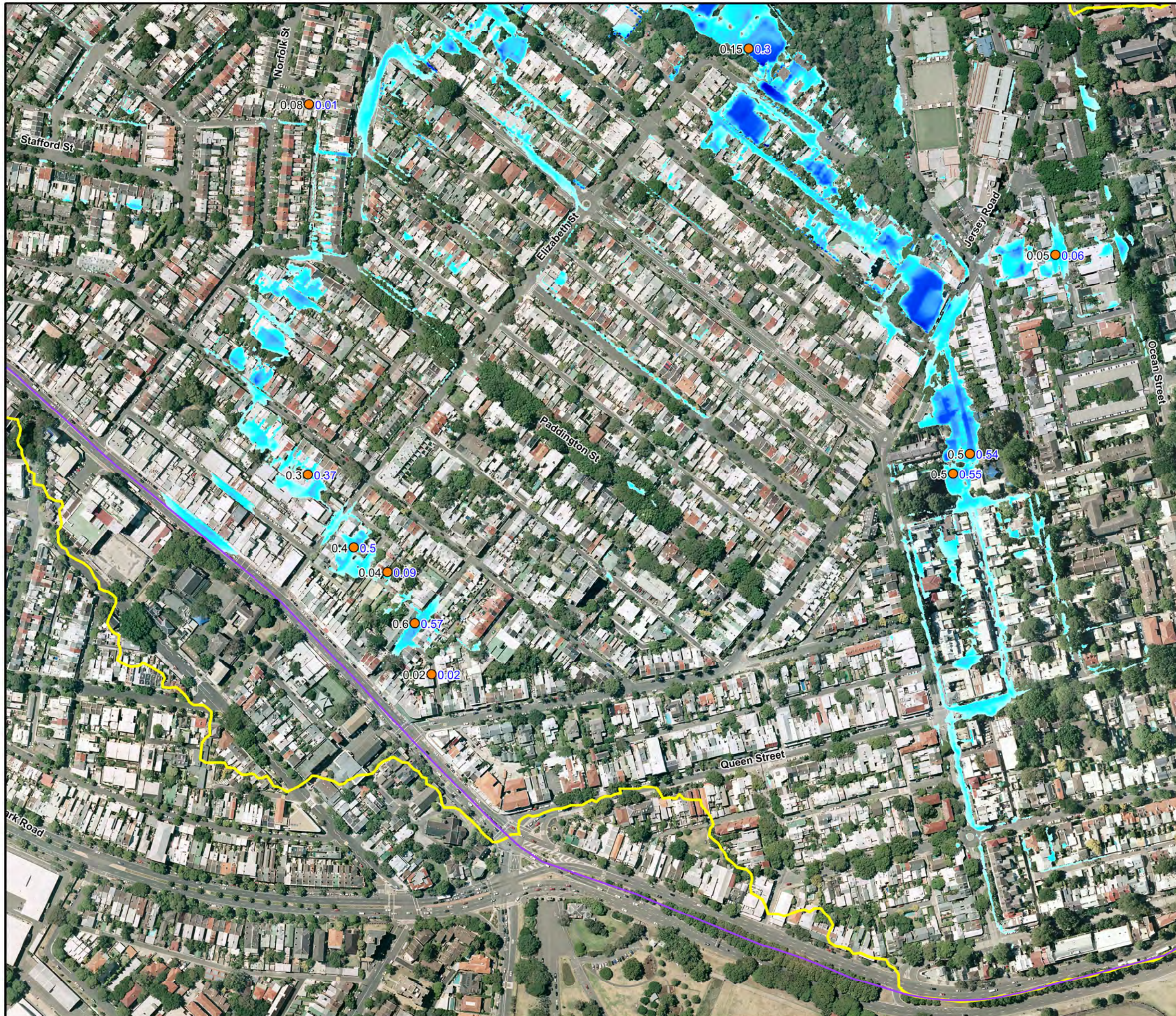
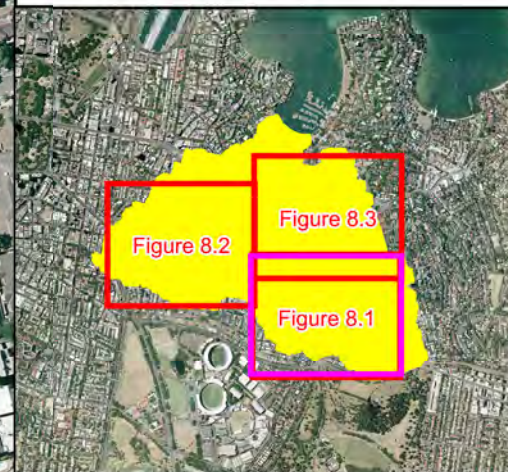


**Figure 7:  
Rainfall Isohyet Map  
for January 26 1991**

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

File Name: Fig7 - Rainfall Isohyet Jan 26 1991.wor





**LEGEND**

Recorded Flood Depth Simulated Flood Depth

**Depths (m)**

	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

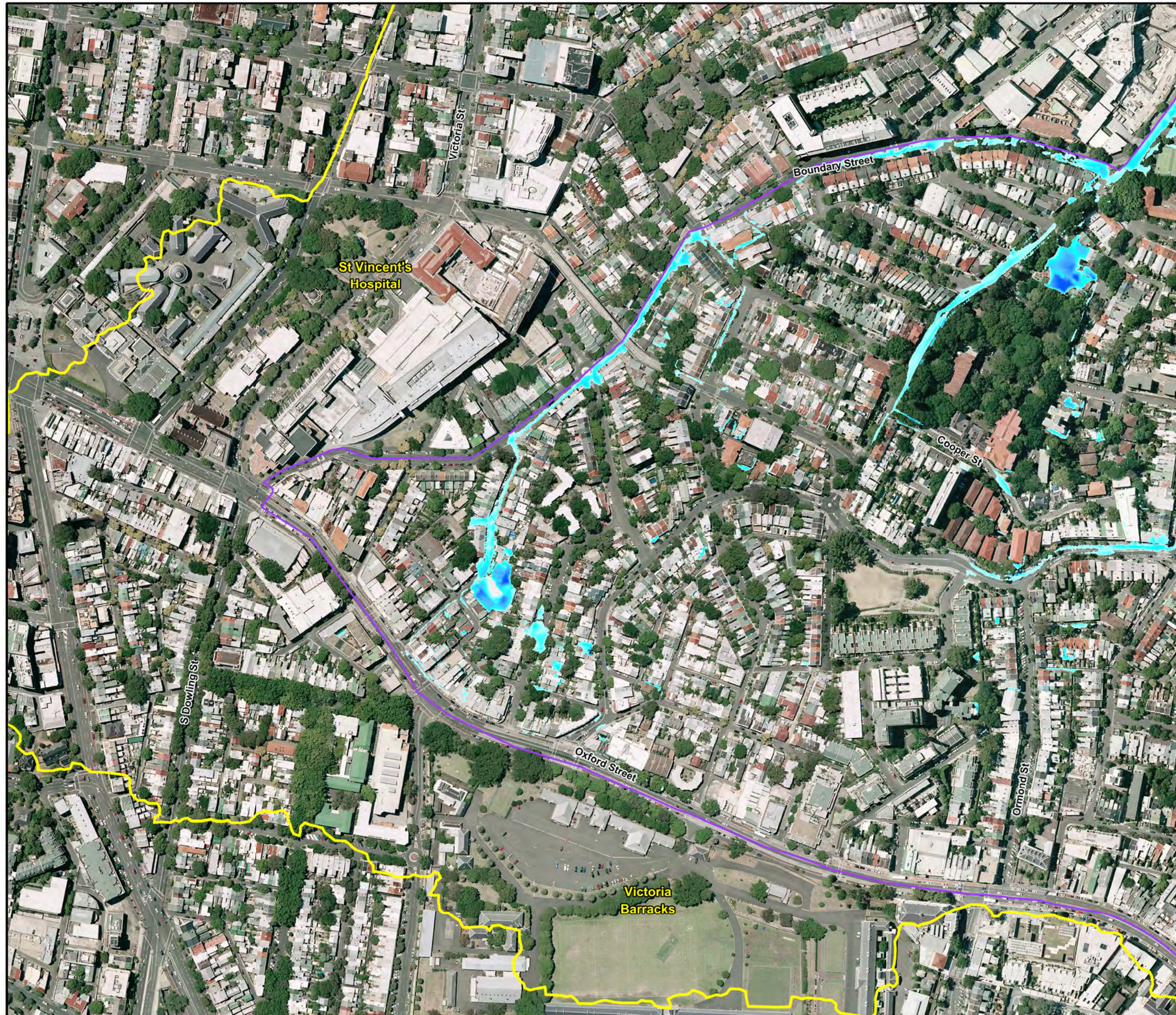
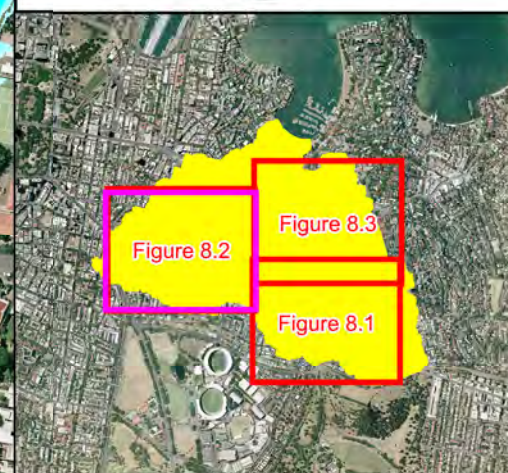
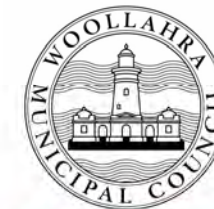
**Scale 1:3,000 (at A3)**

0 0.1 0.2 Km

**Figure 8.1:**  
**Simulated Floodwater**  
**Depths for**  
**January 1991 Flood**

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

File Name: Fig8.1 - Simulated Depths for January 1991.wor



**LEGEND**

Recorded Flood Depth Simulated Flood Depth

**Depths (m)**

	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

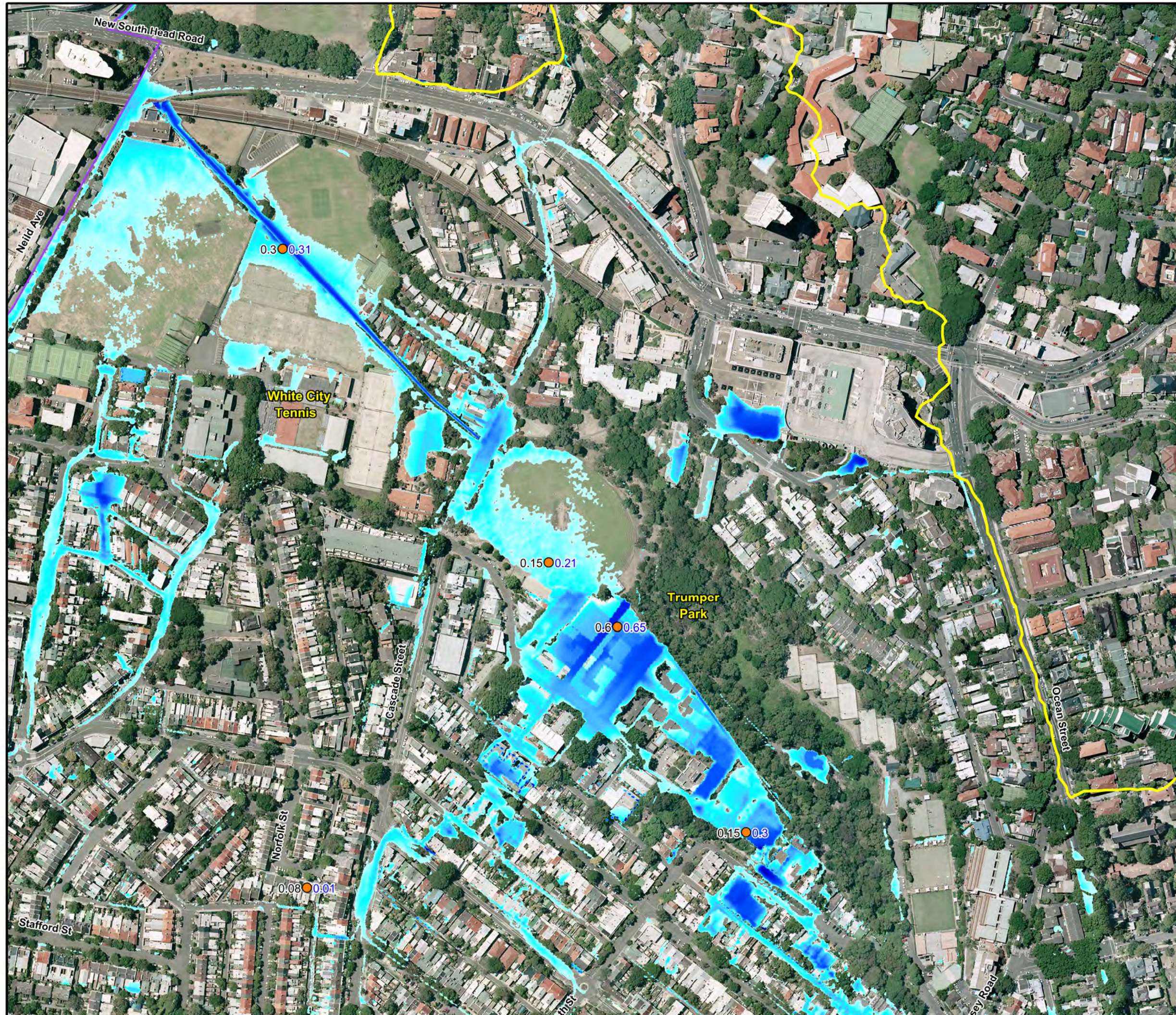
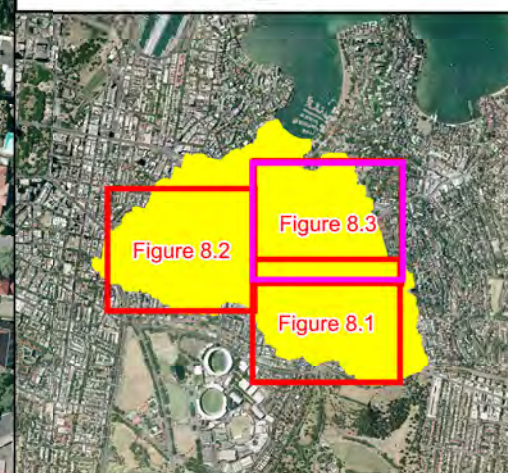
**Scale 1:3,000 (at A3)**

0 0.1 0.2 Km

**Figure 8.2:  
 Simulated Floodwater  
 Depths for  
 January 1991 Flood**

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

File Name: Fig8.2 - Simulated Depths for January 1991.wor



**LEGEND**

Recorded Flood Depth Simulated Flood Depth

**Depths (m)**

	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

**Scale 1:3,000 (at A3)**

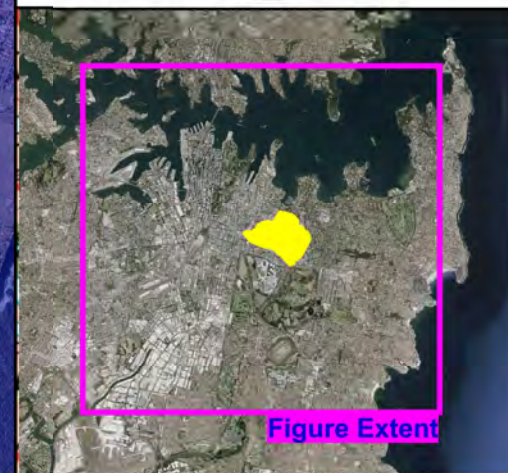
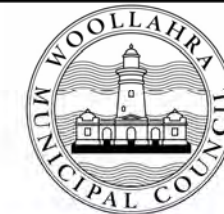
0 0.1 0.2 Km

**North Arrow**

**Figure 8.3:  
 Simulated Floodwater  
 Depths for  
 January 1991 Flood**

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

File Name: Fig8.3 - Simulated Depths for January 1991.wor

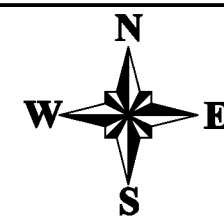


**LEGEND**

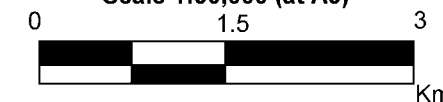
- Paddington Study Area
  - Gauge Number - Name  
Rainfall (mm)
  - 70  
Rainfall Isohyet (mm)
- Rainfall Depths (mm)
- 20
  - 30
  - 40
  - 50
  - 60
  - 70
  - 80
  - 90

Notes:

Aerial photograph date: January 2014



Scale 1:30,000 (at A3)

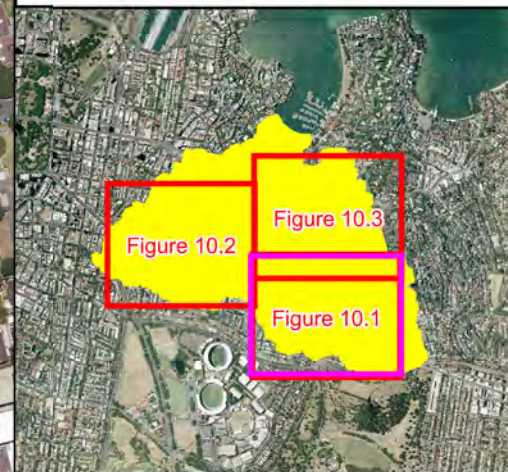


**Figure 9:  
Rainfall Isohyet Map  
for August 24 2015**

Prepared By:

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

File Name: Fig9 - Rainfall Isohyet Aug 24 2015.wor



**LEGEND**

Recorded Flood Depth Simulated Flood Depth

**Depths (m)**

	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

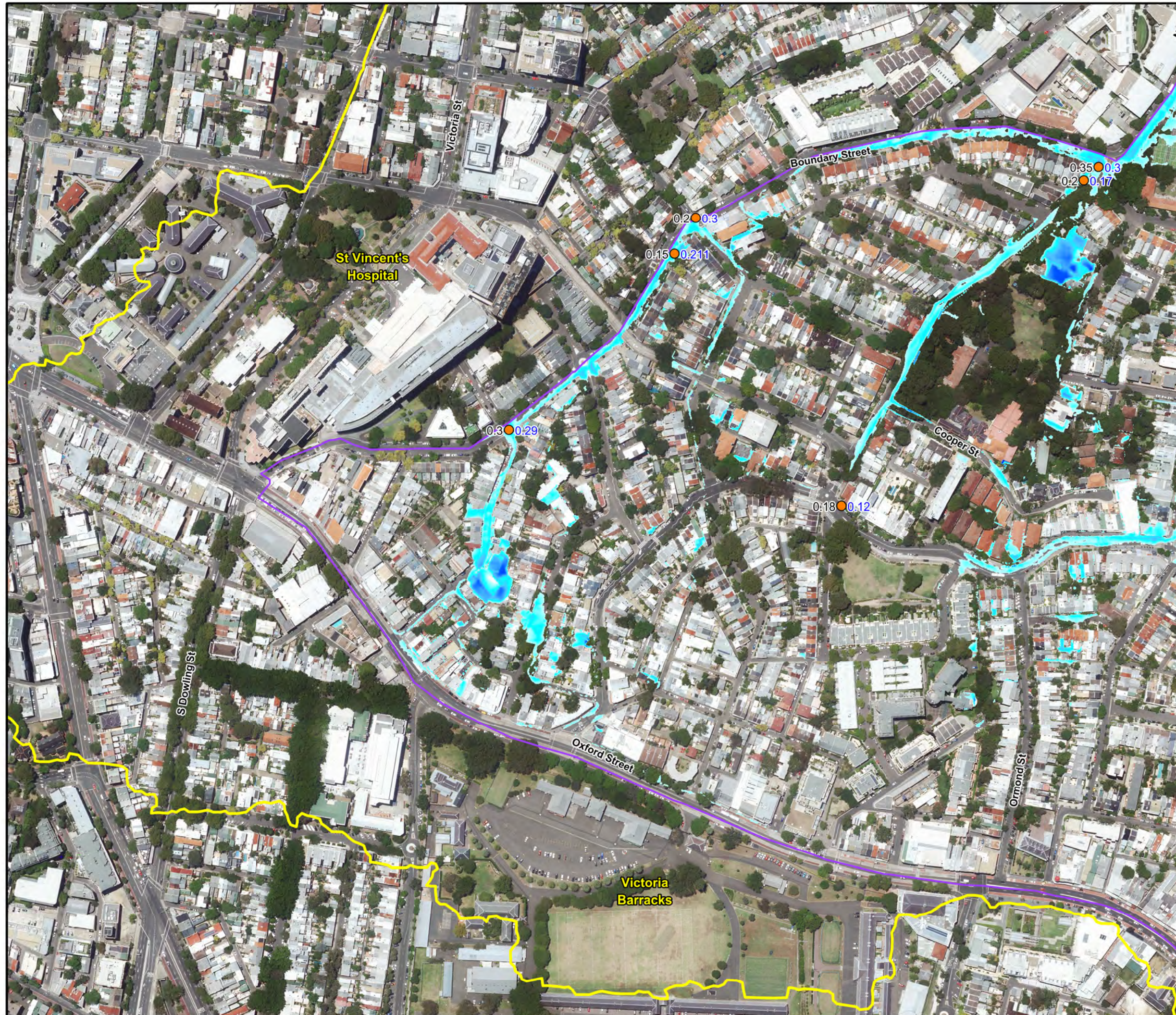
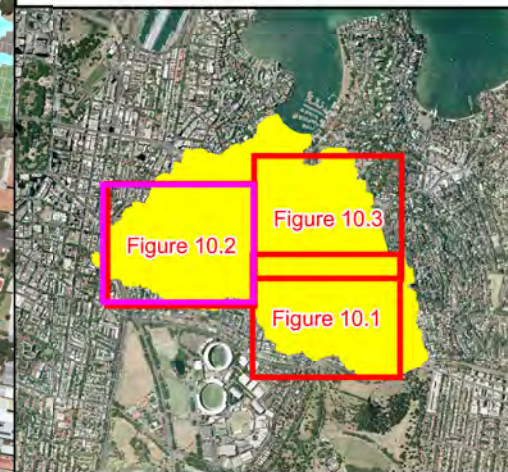
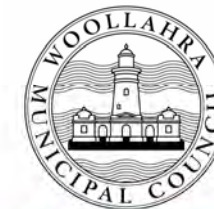
**Scale 1:3,000 (at A3)**

0 0.1 0.2 Km

**Figure 10.1:  
 Simulated Floodwater  
 Depths for  
 August 2015 Flood**

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

File Name: Fig10.1 - Simulated Depths for August 2015.wor



**LEGEND**

Recorded Flood Depth Simulated Flood Depth

**Depths (m)**

	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

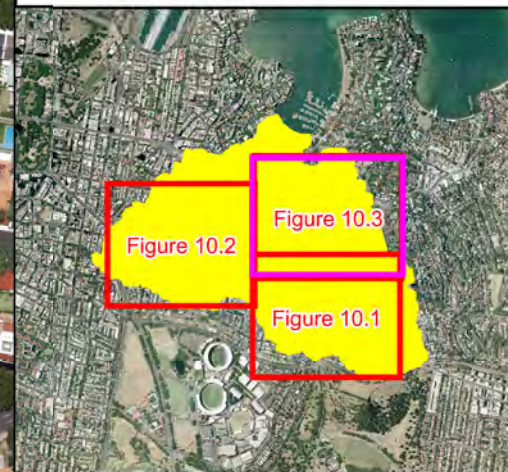
**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

**Scale 1:3,000 (at A3)**

**Figure 10.2:  
 Simulated Floodwater  
 Depths for  
 August 2015 Flood**

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

File Name: Fig10.2 - Simulated Depths for August 2015.wor



**LEGEND**

Recorded Flood Depth Simulated Flood Depth

**Depths (m)**

	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

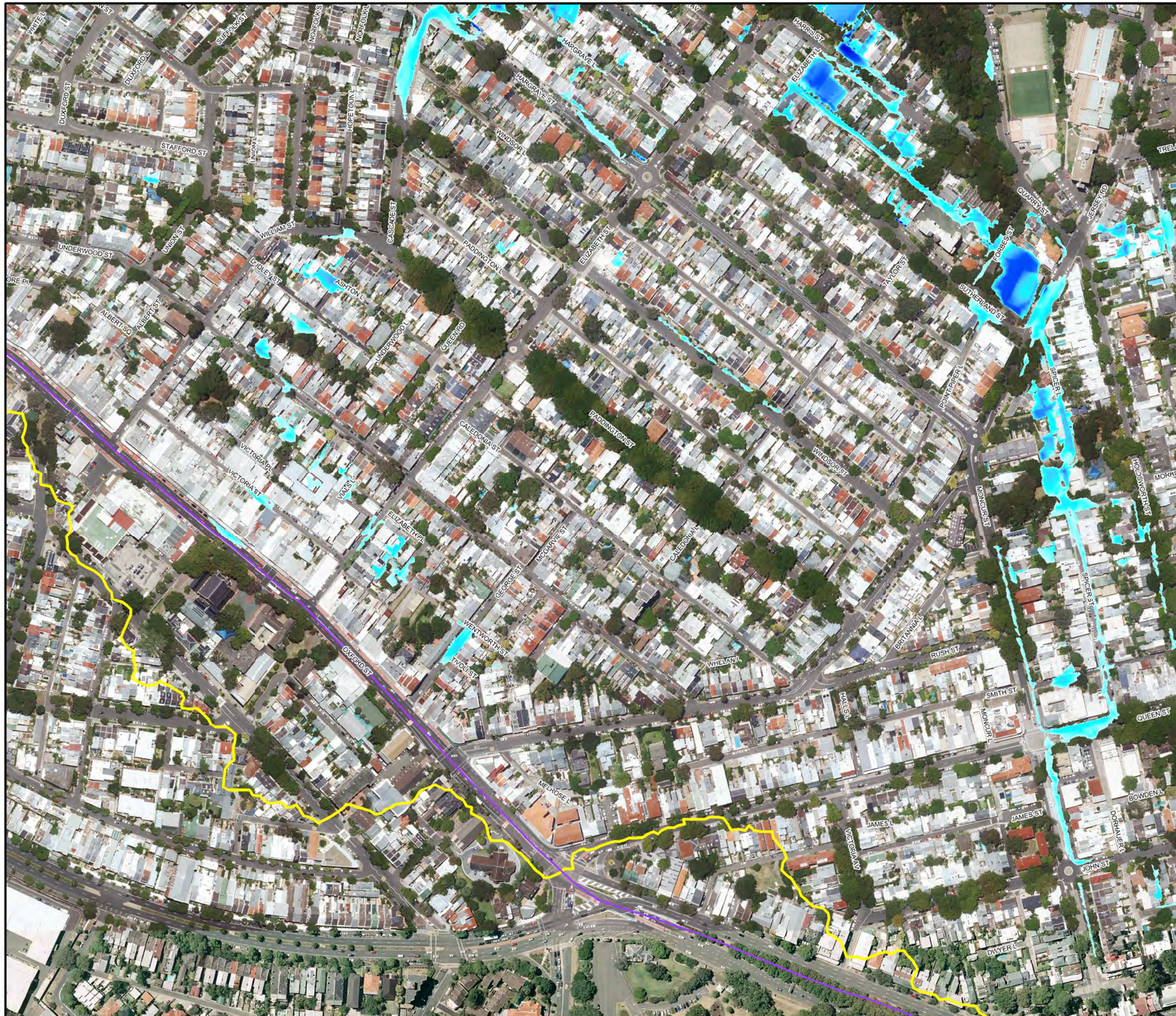
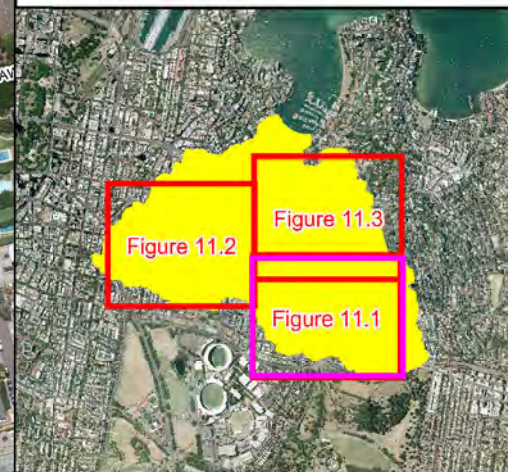
**Scale 1:3,000 (at A3)**

0 0.1 0.2 Km

**Figure 10.3:  
 Simulated Floodwater  
 Depths for  
 August 2015 Flood**

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

File Name: Fig10.3 - Simulated Depths for August 2015.wor



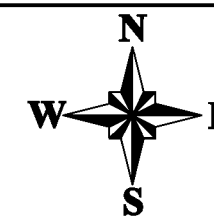
**LEGEND**

Depths (m)

	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

Notes:

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)



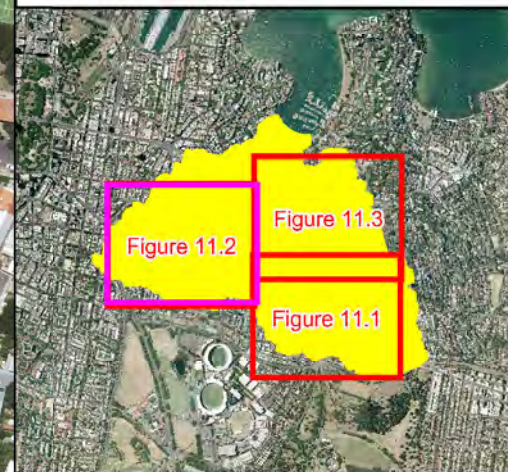
**Figure 11.1:  
Peak Floodwater Depths  
for the 100% AEP Flood**

Prepared By:

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

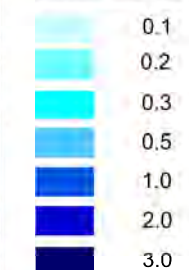
File Name: Fig11.1 - Peak Floodwater  
Depths for the 100% AEP Flood.wor





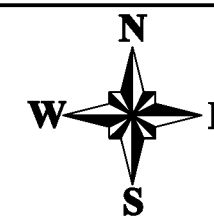
**LEGEND**

**Depths (m)**



**Notes:**

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)



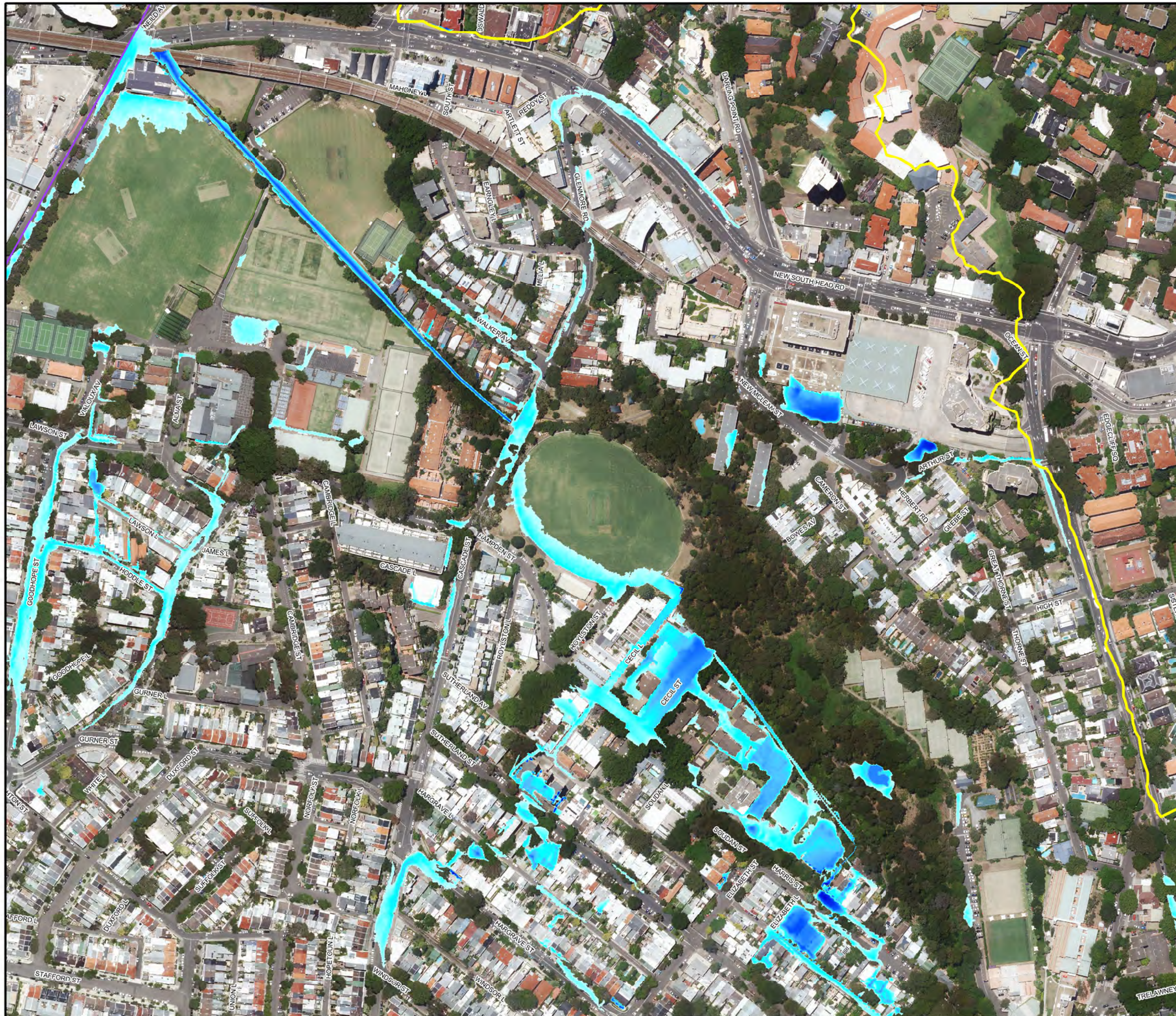
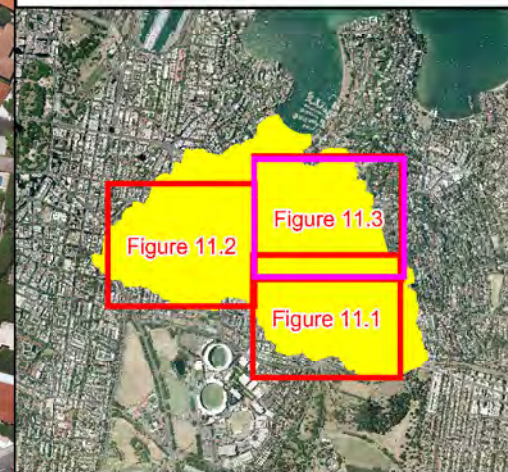
**Figure 11.2:  
Peak Floodwater Depths  
for the 100% AEP Flood**

Prepared By:

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

File Name: Fig11.2 - Peak Floodwater  
Depths for the 100% AEP Flood.wor

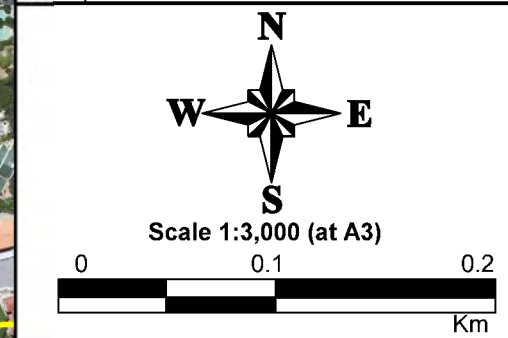




**LEGEND**

Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

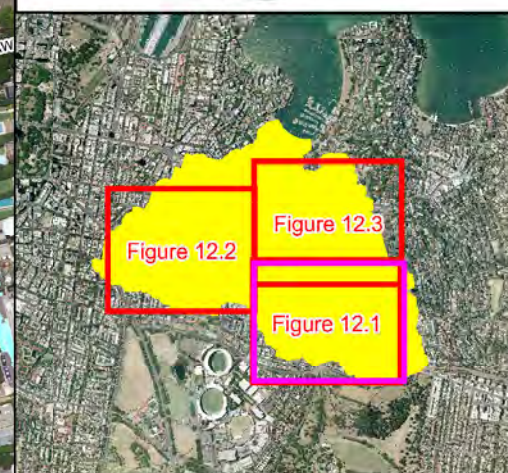
**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 11.3:  
 Peak Floodwater Depths  
 for the 100% AEP Flood**

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

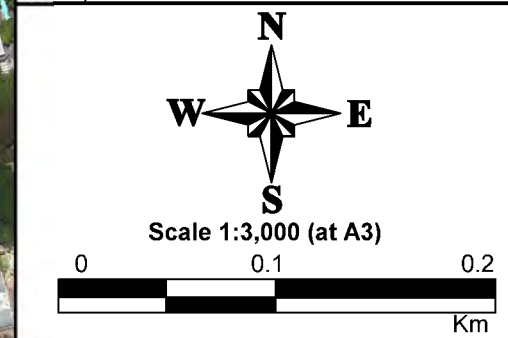
File Name: Fig11.3 - Peak Floodwater  
 Depths for the 100% AEP Flood.wor



**LEGEND**

Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

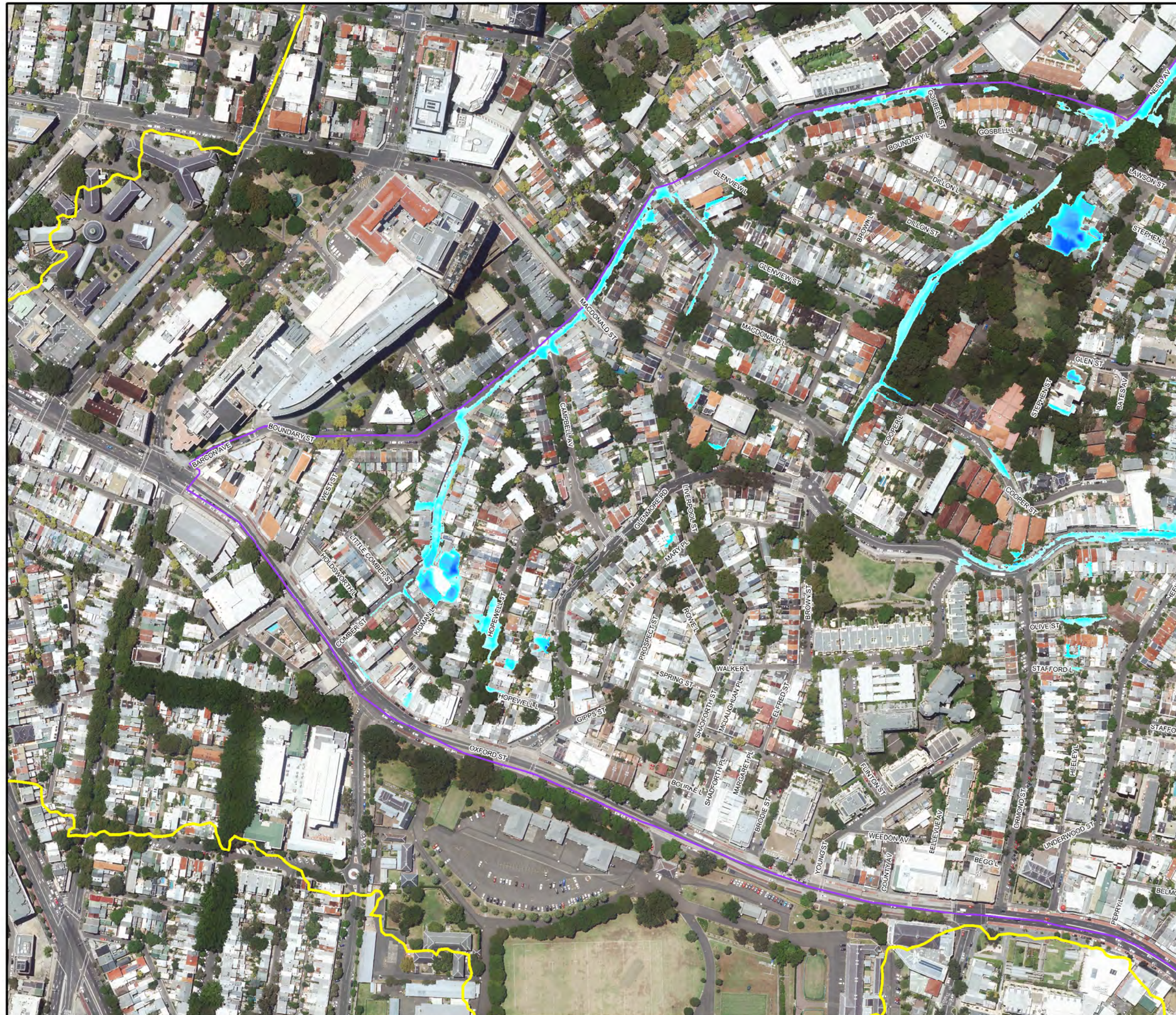
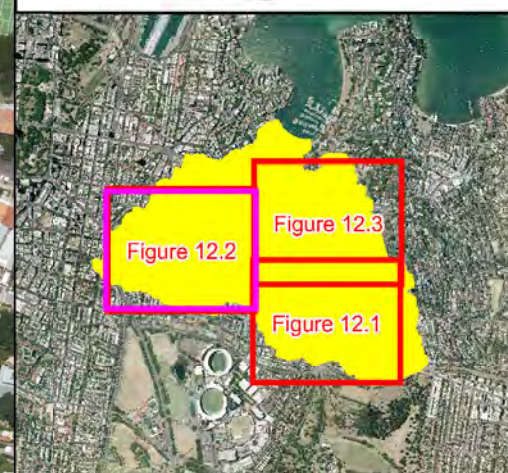
**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 12.1:**  
**Peak Floodwater Depths**  
**for the 20% AEP Flood**

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

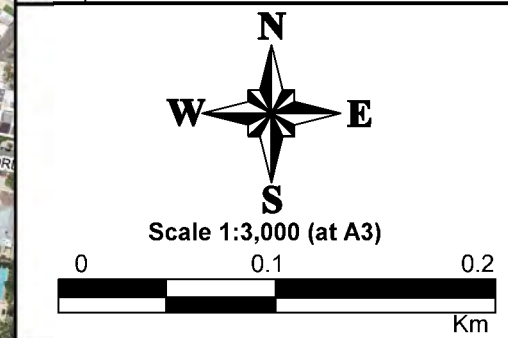
File Name: Fig12.1 - Peak Floodwater  
 Depths for the 20% AEP Flood.wor



**LEGEND**

Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

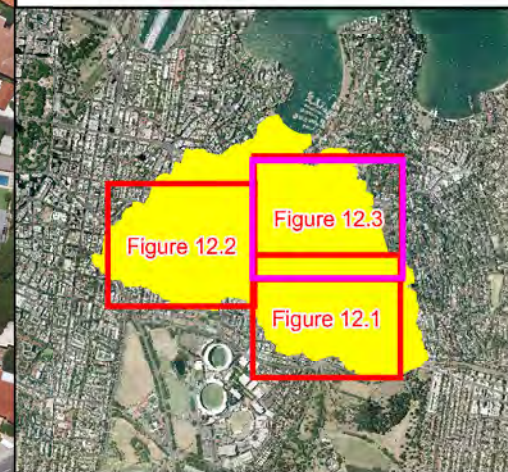
**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 12.2:  
 Peak Floodwater Depths  
 for the 20% AEP Flood**

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

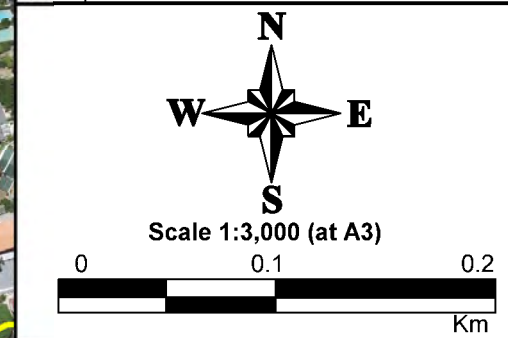
File Name: Fig12.2 - Peak Floodwater  
 Depths for the 20% AEP Flood.wor



**LEGEND**

Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

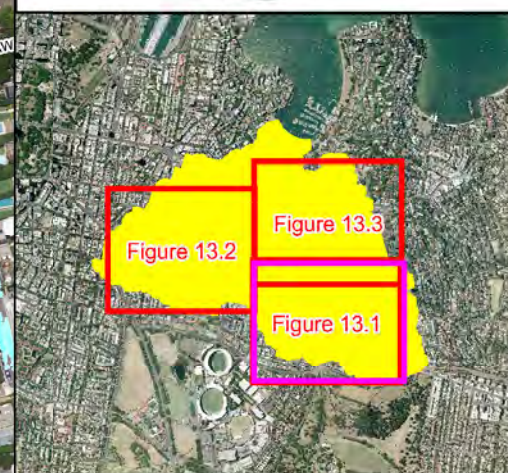
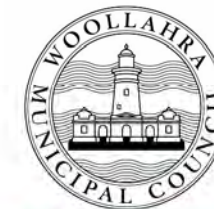
**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 12.3:  
 Peak Floodwater Depths  
 for the 20% AEP Flood**

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

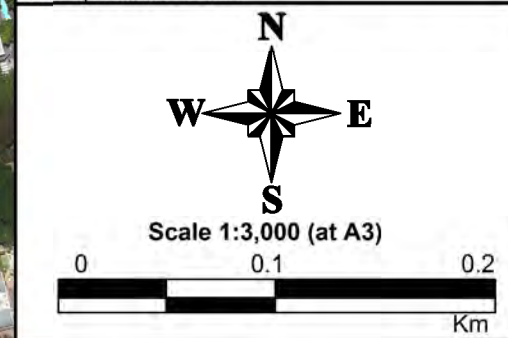
File Name: Fig12.3 - Peak Floodwater  
 Depths for the 20% AEP Flood.wor



**LEGEND**

Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

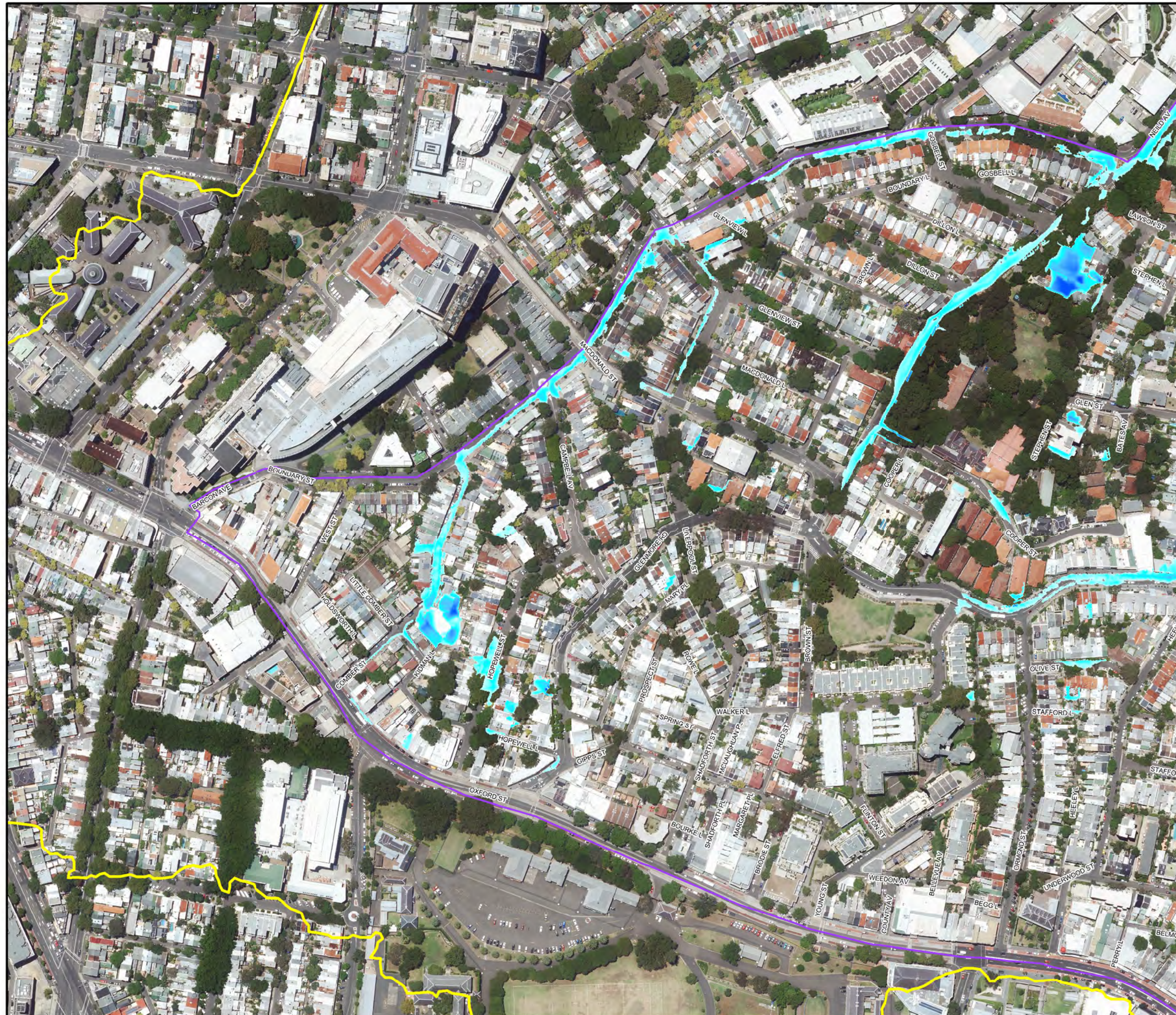
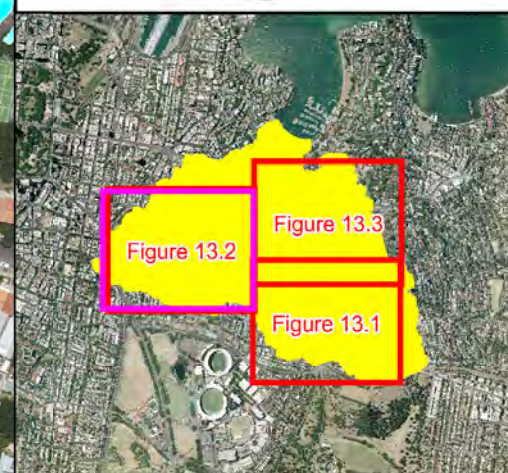
**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 13.1:  
 Peak Floodwater Depths  
 for the 10% AEP Flood**

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

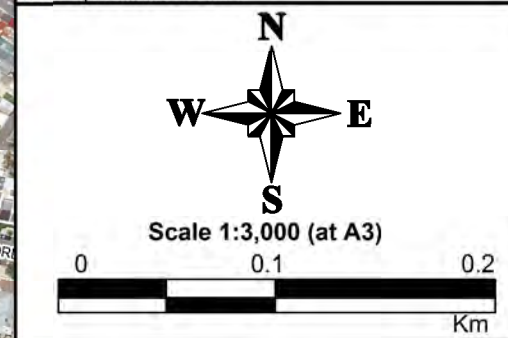
File Name: Fig13.1 - Peak Floodwater  
 Depths for the 10% AEP Flood.wor



**LEGEND**

Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

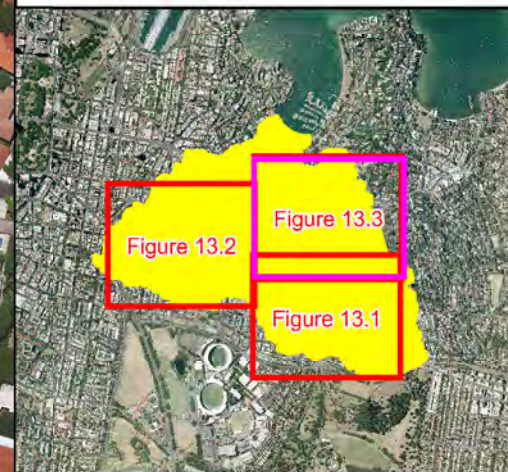
**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 13.2:  
 Peak Floodwater Depths  
 for the 10% AEP Flood**

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

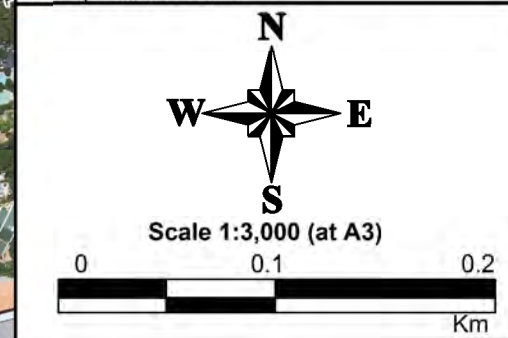
File Name: Fig13.2 - Peak Floodwater  
 Depths for the 10% AEP Flood.wor



**LEGEND**

Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

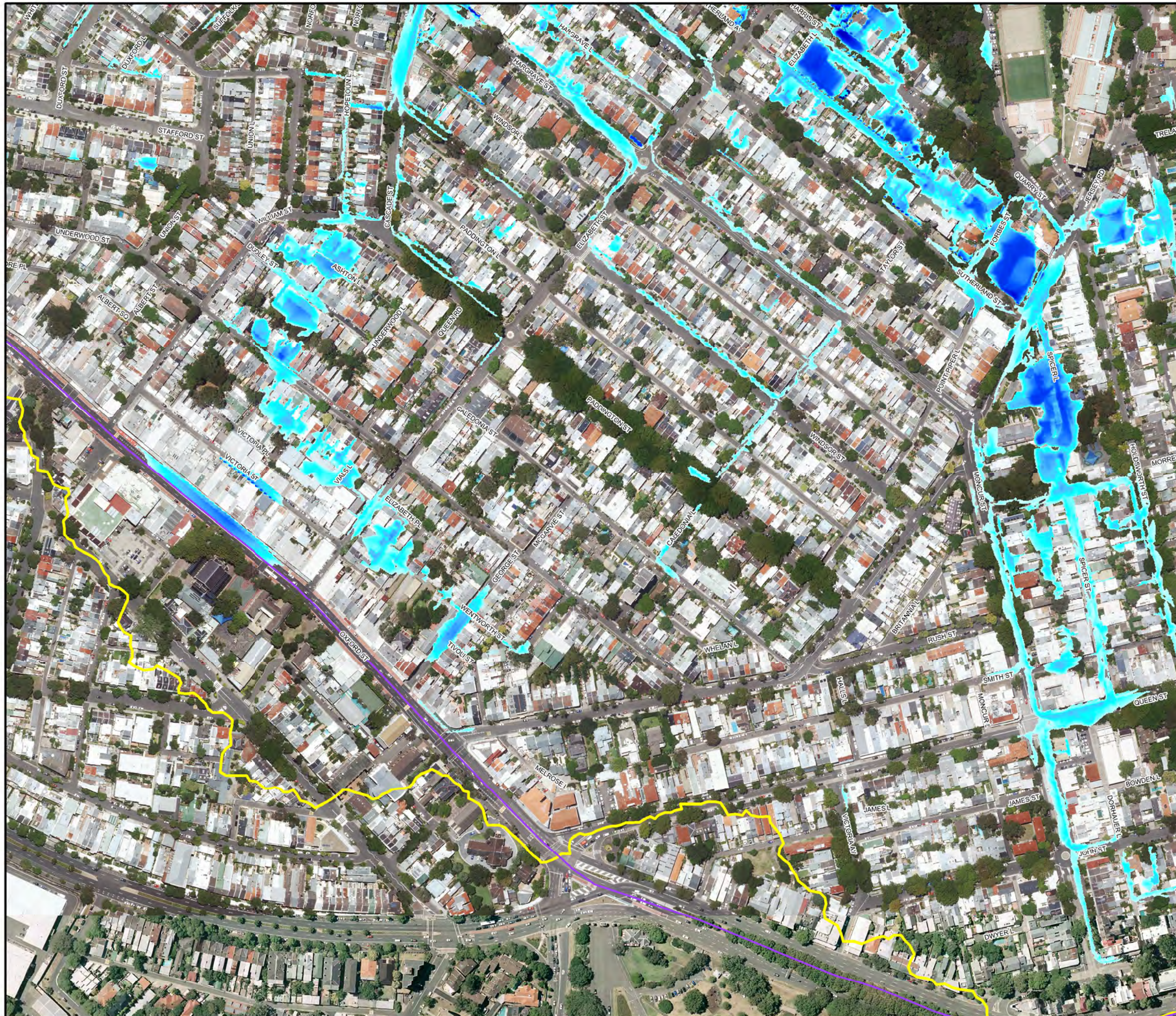
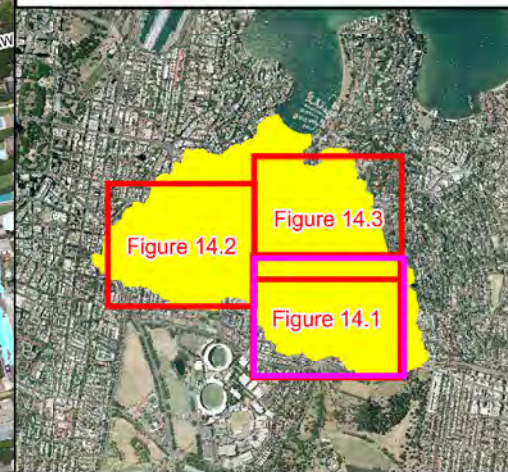


**Figure 13.3:  
 Peak Floodwater Depths  
 for the 10% AEP Flood**

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

File Name: Fig13.3 - Peak Floodwater  
 Depths for the 10% AEP Flood.wor

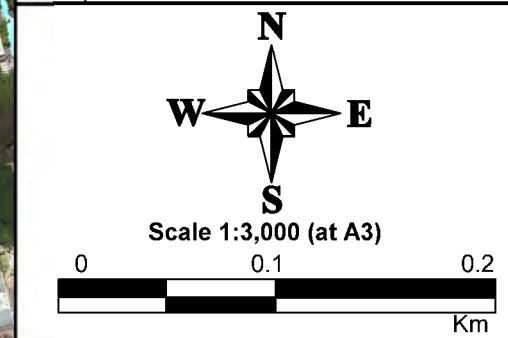




**LEGEND**

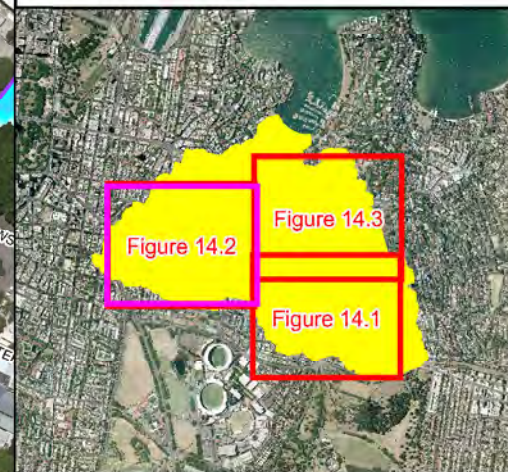
Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 14.1:  
 Peak Floodwater Depths  
 for the 5% AEP Flood**

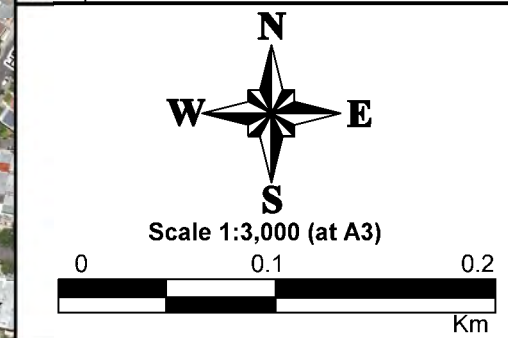
Prepared By:  
**Catchment Simulation Solutions**  
 Suite 2.01, 210 George St  
 Sydney, NSW 2000  
 File Name: Fig14.1 - Peak Floodwater  
 Depths for the 5% AEP Flood.wor



**LEGEND**

Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

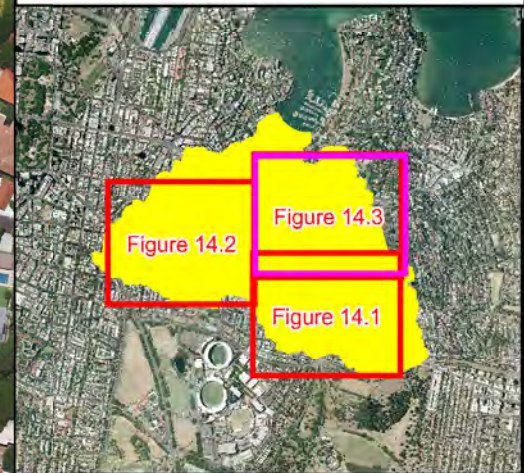
**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra  
 Municipal Council LGA



**Figure 14.2:  
 Peak Floodwater Depths  
 for the 5% AEP Flood**

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

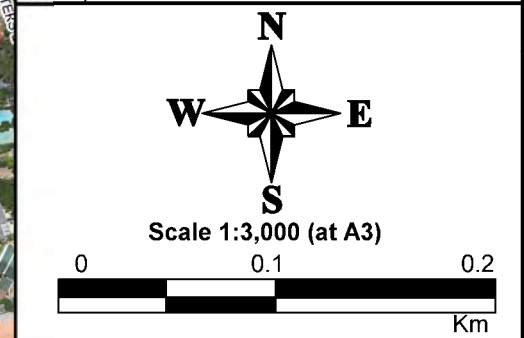
File Name: Fig14.2 - Peak Floodwater  
 Depths for the 5% AEP Flood.wor



### LEGEND

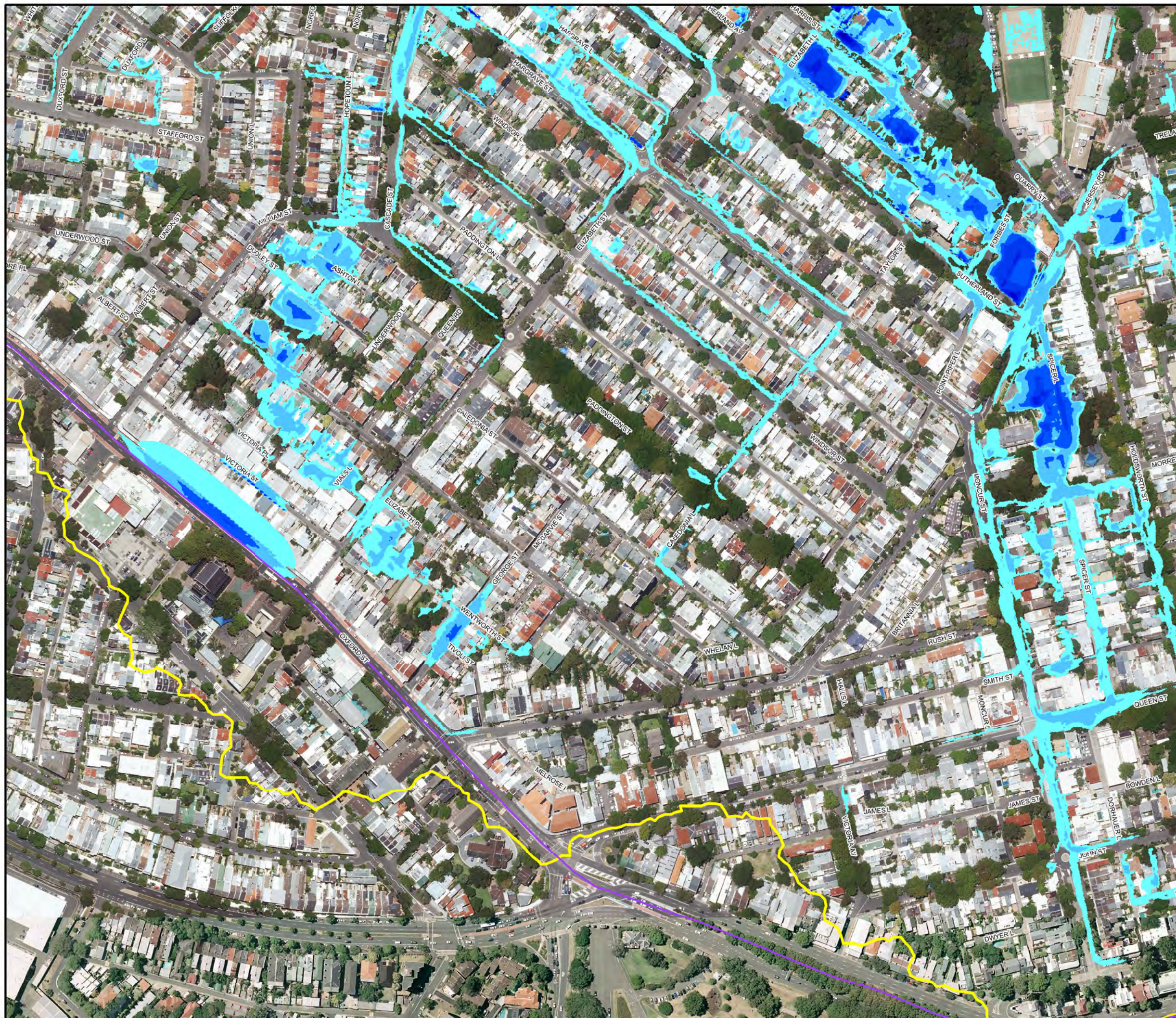
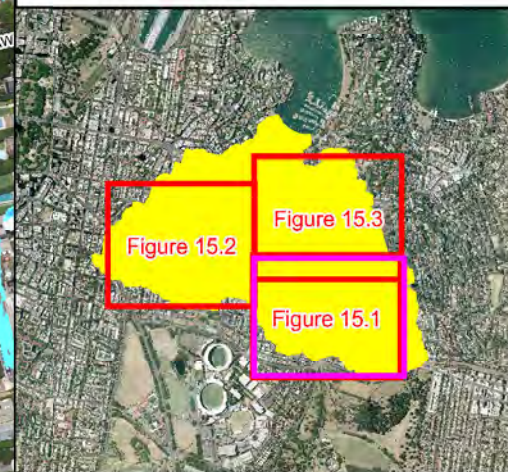
Depths (m)	
Lightest Cyan	0.1
Light Cyan	0.2
Medium Cyan	0.3
Dark Cyan	0.5
Blue	1.0
Dark Blue	2.0
Darkest Blue	3.0

**Notes:**  
Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 14.3:  
Peak Floodwater Depths  
for the 5% AEP Flood**

Prepared By:  
**Catchment Simulation Solutions**  
Suite 2.01, 210 George St  
Sydney, NSW 2000  
File Name: Fig14.3 - Peak Floodwater  
Depths for the 5% AEP Flood.wor



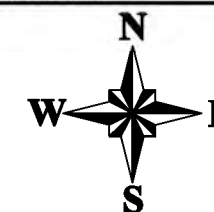
**LEGEND**

**Depths (m)**

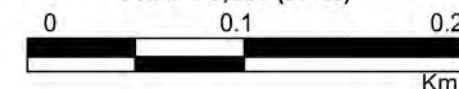
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)

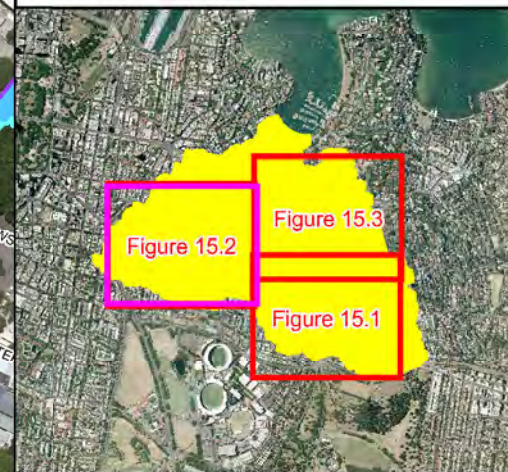


**Figure 15.1:  
Peak Floodwater Depths  
for the 1% AEP Flood**

Prepared By:

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

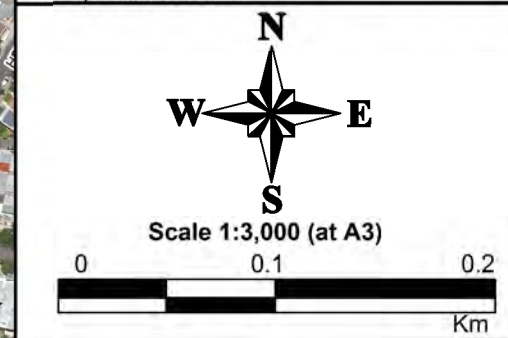
File Name: Fig15.1 - Peak Floodwater  
Depths for the 1% AEP Flood.wor



**LEGEND**

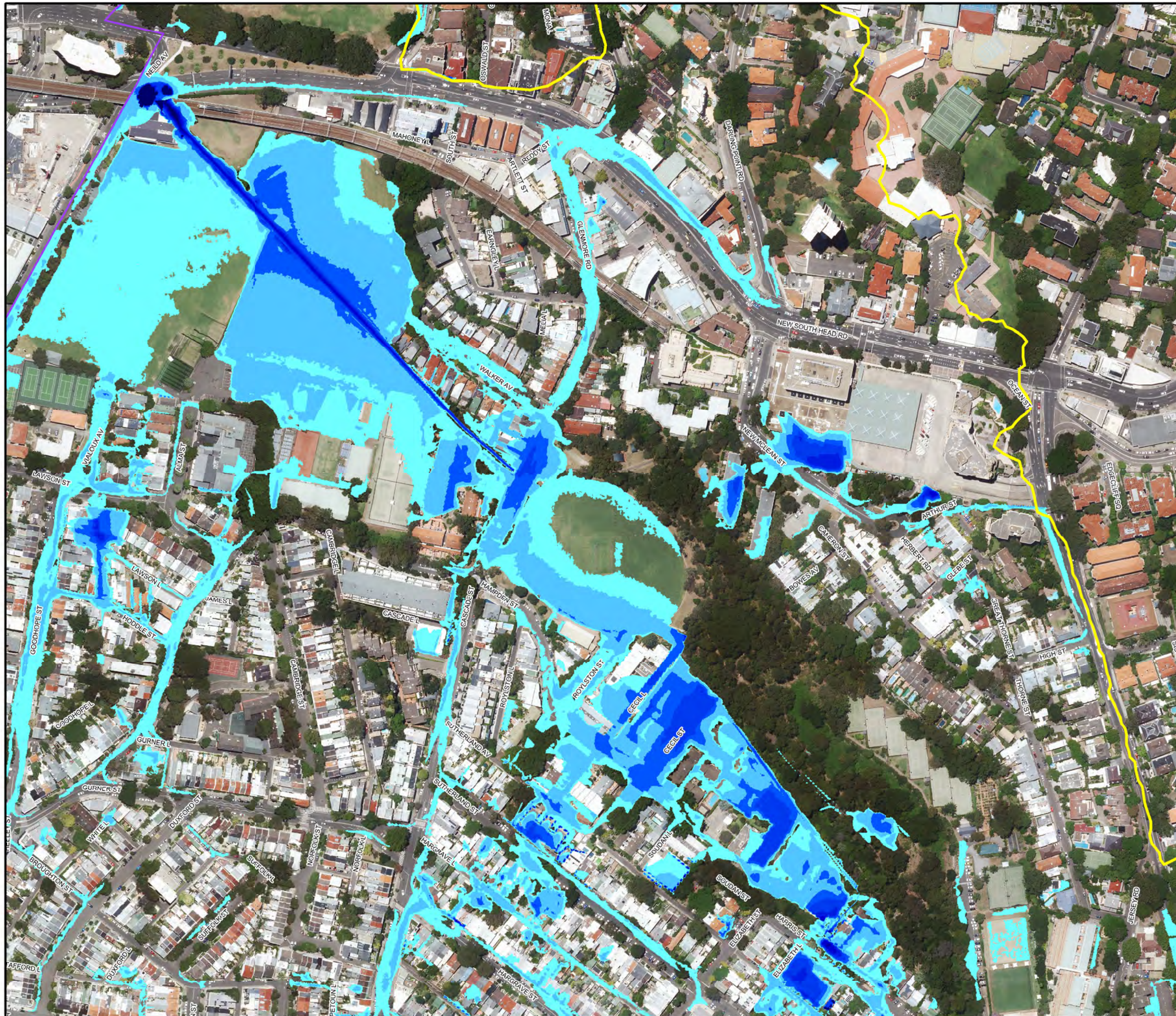
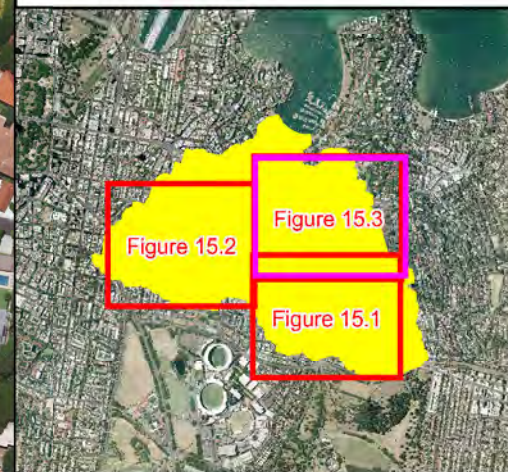
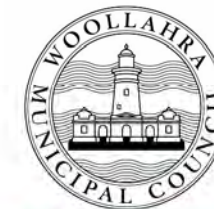
Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 15.2:  
 Peak Floodwater Depths  
 for the 1% AEP Flood**

Prepared By:  
**Catchment Simulation Solutions**  
 Suite 2.01, 210 George St  
 Sydney, NSW 2000  
 File Name: Fig15.2 - Peak Floodwater  
 Depths for the 1% AEP Flood.wor

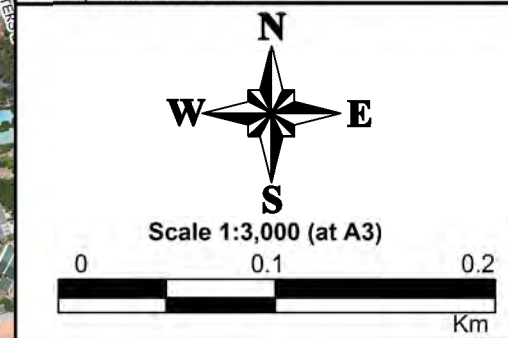


**LEGEND**

**Depths (m)**

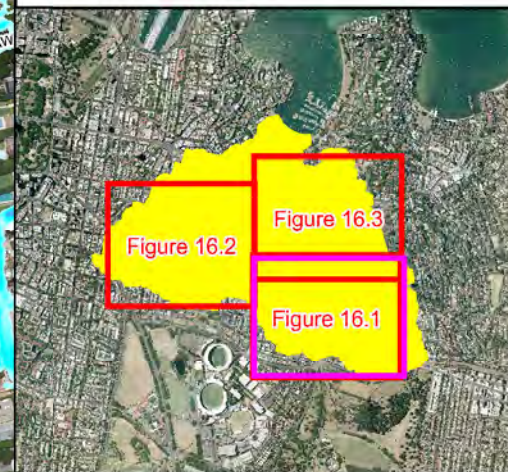
0.1
0.2
0.3
0.5
1.0
2.0
3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 15.3:  
 Peak Floodwater Depths  
 for the 1% AEP Flood**

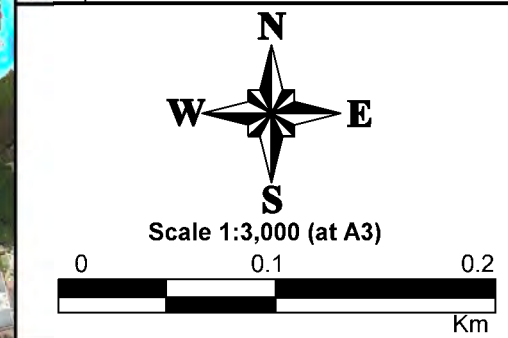
Prepared By:  
**Catchment Simulation Solutions**  
 Suite 2.01, 210 George St  
 Sydney, NSW 2000  
 File Name: Fig15.3 - Peak Floodwater  
 Depths for the 1% AEP Flood.wor



**LEGEND**

Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

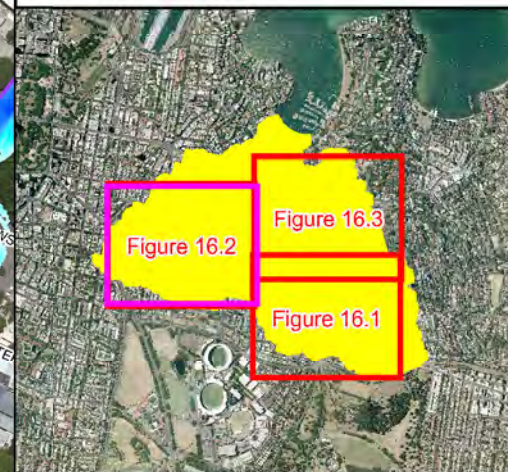
**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 16.1:  
 Peak Floodwater Depths  
 for the PMF**

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

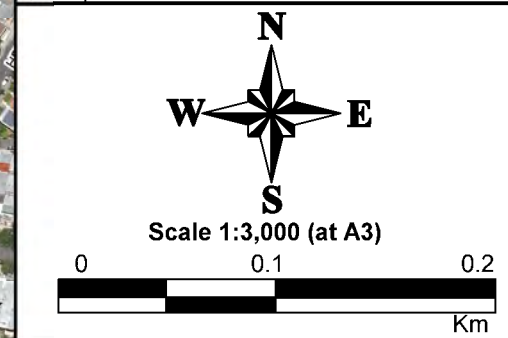
File Name: Fig16.1 - Peak Floodwater  
 Depths for the PMF.wor



**LEGEND**

Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

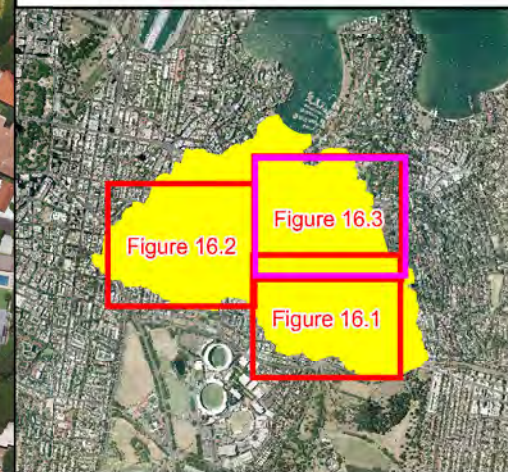


**Figure 16.2:  
 Peak Floodwater Depths  
 for the PMF**

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

File Name: Fig16.2 - Peak Floodwater Depths for the PMF.wor

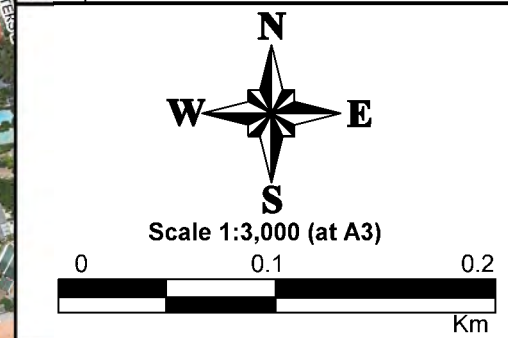




**LEGEND**

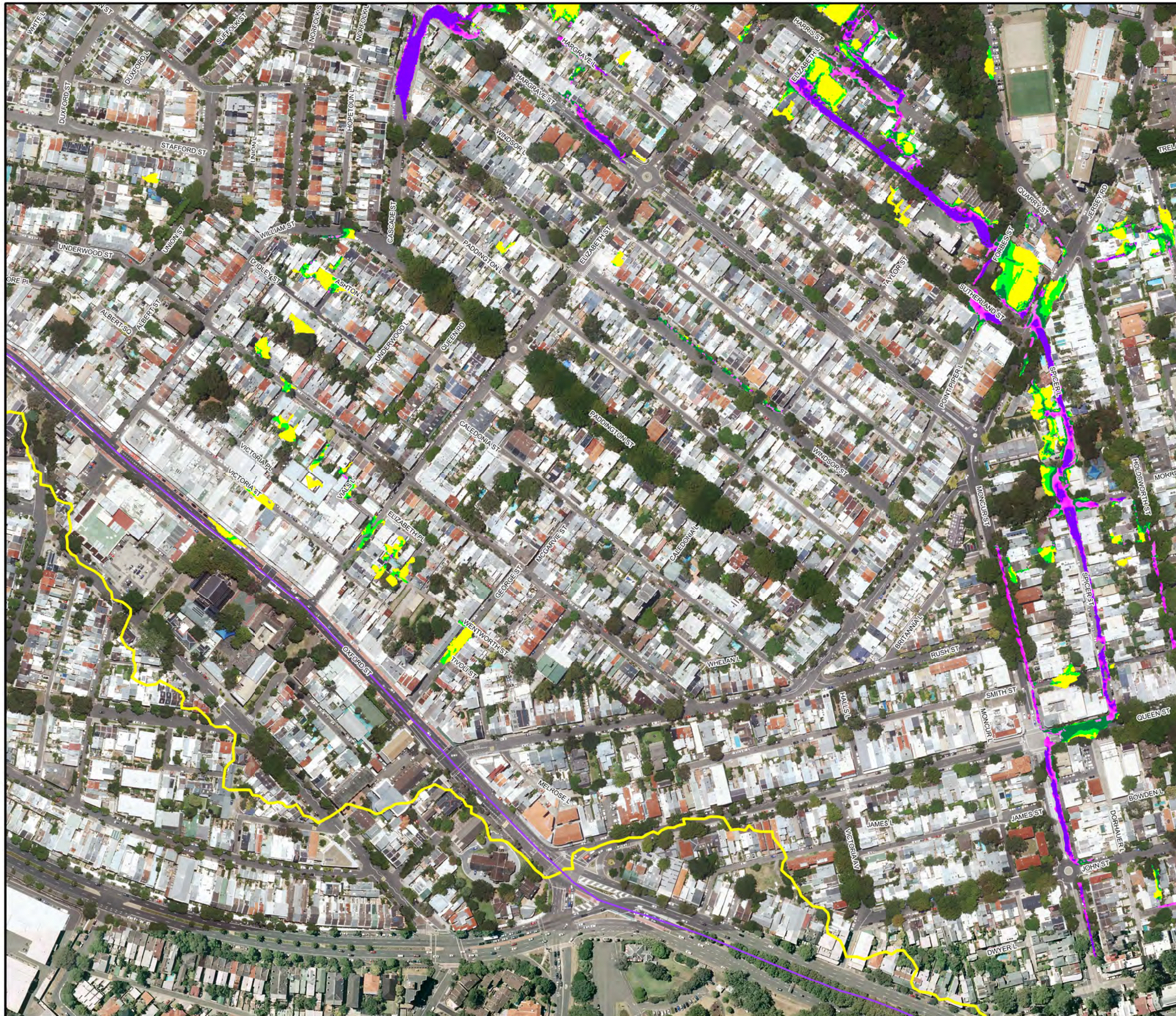
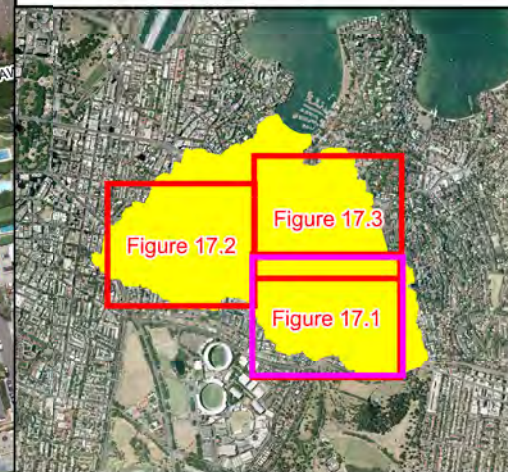
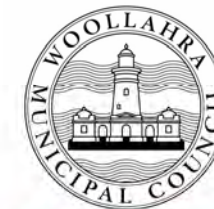
Depths (m)	
	0.1
	0.2
	0.3
	0.5
	1.0
	2.0
	3.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 16.3:  
 Peak Floodwater Depths  
 for the PMF**

Prepared By:  
**Catchment Simulation Solutions**  
 Suite 2.01, 210 George St  
 Sydney, NSW 2000  
 File Name: Fig16.3 - Peak Floodwater  
 Depths for the PMF.wor



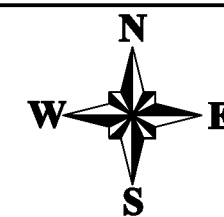
### LEGEND

#### Velocities (m/s)

- 0.01 to 0.25
- 0.25 to 0.5
- 0.5 to 1.0
- 1.0 to 2.0
- 2.0 to 10.0

#### Notes:

Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)

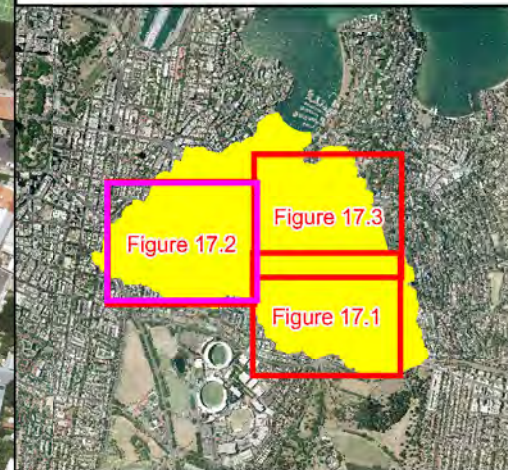


**Figure 17.1:**  
**Peak Flow Velocity**  
**for the 100% AEP Flood**

Prepared By:

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

File Name: Fig17.1 - Peak Flow Velocity  
 for the 100% AEP Flood.wor



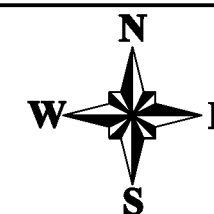
### LEGEND

#### Velocities (m/s)

	0.01 to 0.25
	0.25 to 0.5
	0.5 to 1.0
	1.0 to 2.0
	2.0 to 10.0

#### Notes:

Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)



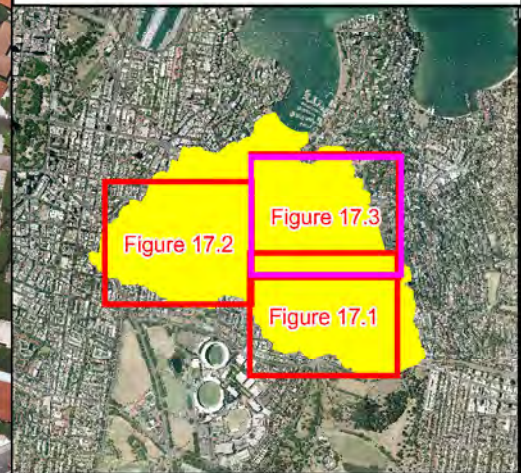
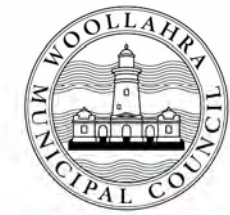
**Figure 17.2:**  
**Peak Flow Velocity**  
**for the 100% AEP Flood**

Prepared By:

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

File Name: Fig17.2 - Peak Flow Velocity  
 for the 100% AEP Flood.wor





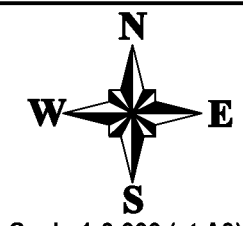
**LEGEND**

Velocities (m/s)

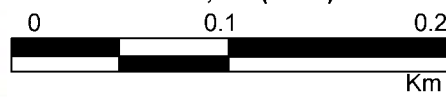
- 0.01 to 0.25
- 0.25 to 0.5
- 0.5 to 1.0
- 1.0 to 2.0
- 2.0 to 10.0

Notes:

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)

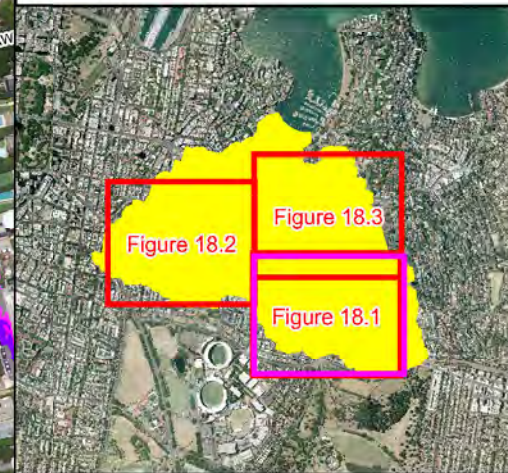


**Figure 17.3:  
Peak Flow Velocity  
for the 100% AEP Flood**

Prepared By:

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

File Name: Fig17.3 - Peak Flow Velocity  
for the 100% AEP Flood.wor

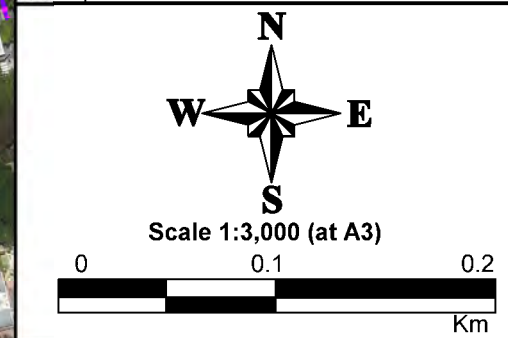


**LEGEND**

**Velocities (m/s)**

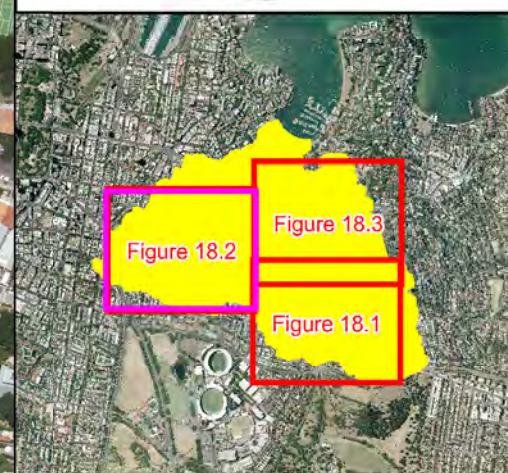
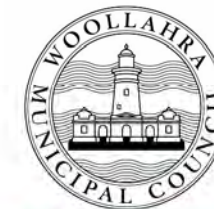
Yellow	0.01 to 0.25
Light Green	0.25 to 0.5
Dark Green	0.5 to 1.0
Magenta	1.0 to 2.0
Purple	2.0 to 10.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 18.1:  
 Peak Flow Velocity  
 for the 20% AEP Flood**

Prepared By:  
**Catchment Simulation Solutions**  
 Suite 2.01, 210 George St  
 Sydney, NSW 2000  
 File Name: Fig18.1 - Peak Flow Velocity  
 for the 20% AEP Flood.wor

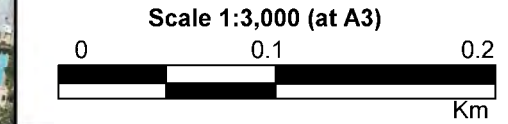
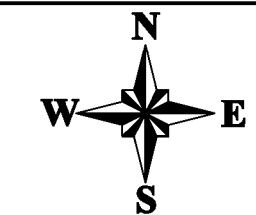


**LEGEND**

**Velocities (m/s)**

Yellow	0.01 to 0.25
Light Green	0.25 to 0.5
Dark Green	0.5 to 1.0
Magenta	1.0 to 2.0
Purple	2.0 to 10.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

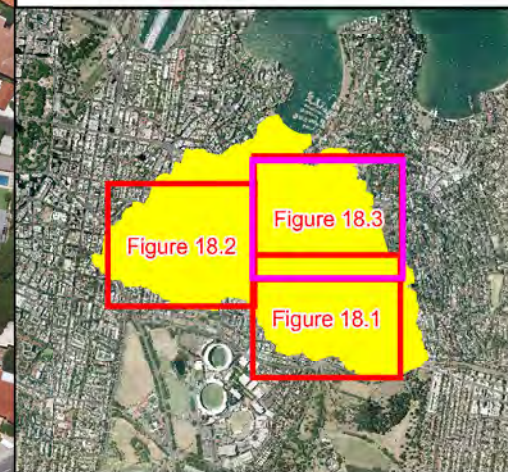


**Figure 18.2:  
 Peak Flow Velocity  
 for the 20% AEP Flood**

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

File Name: Fig18.2 - Peak Flow Velocity  
 for the 20% AEP Flood.wor





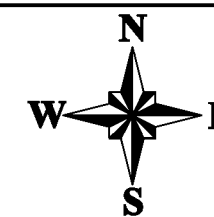
### LEGEND

#### Velocities (m/s)

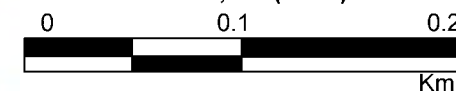
Yellow	0.01 to 0.25
Light Green	0.25 to 0.5
Dark Green	0.5 to 1.0
Magenta	1.0 to 2.0
Purple	2.0 to 10.0

#### Notes:

Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra  
 Municipal Council LGA



Scale 1:3,000 (at A3)



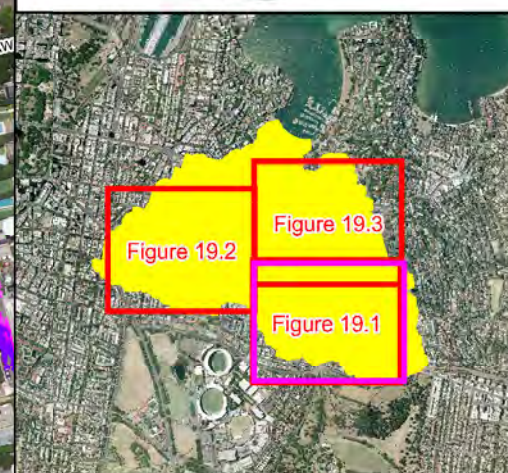
**Figure 18.3:**  
**Peak Flow Velocity**  
**for the 20% AEP Flood**

Prepared By:

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

File Name: Fig18.3 - Peak Flow Velocity  
 for the 20% AEP Flood.wor



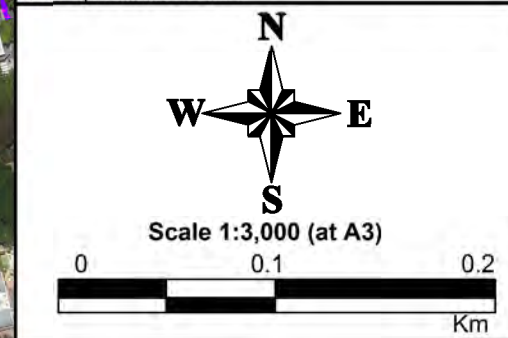


**LEGEND**

**Velocities (m/s)**

Yellow	0.01 to 0.25
Light Green	0.25 to 0.5
Dark Green	0.5 to 1.0
Magenta	1.0 to 2.0
Purple	2.0 to 10.0

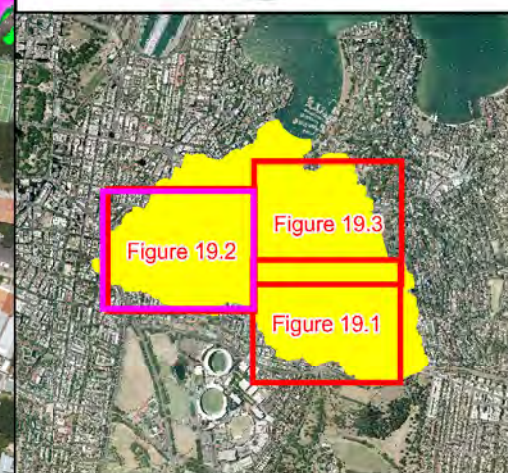
**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 19.1:  
 Peak Flow Velocity  
 for the 10% AEP Flood**

Prepared By:  
**Catchment Simulation Solutions**  
 Suite 2.01, 210 George St  
 Sydney, NSW 2000  
 File Name: Fig19.1 - Peak Flow Velocity  
 for the 10% AEP Flood.wor



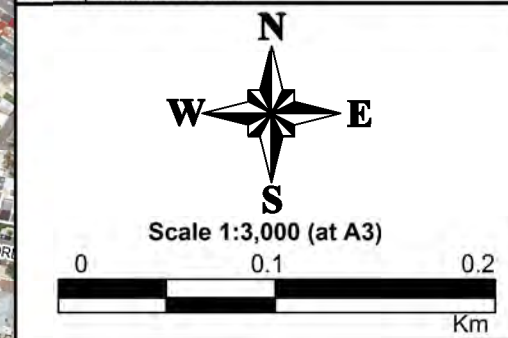


**LEGEND**

**Velocities (m/s)**

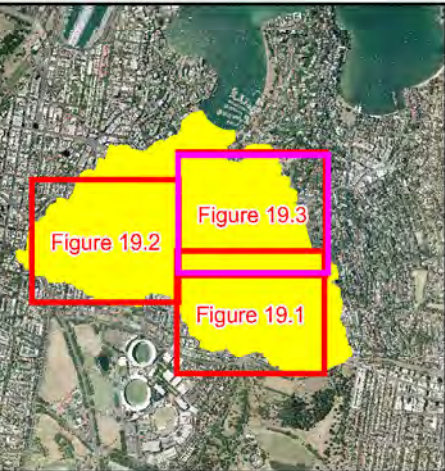
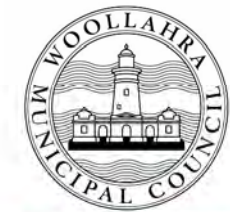
Yellow	0.01 to 0.25
Light Green	0.25 to 0.5
Dark Green	0.5 to 1.0
Magenta	1.0 to 2.0
Purple	2.0 to 10.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 19.2:  
 Peak Flow Velocity  
 for the 10% AEP Flood**

Prepared By:  
**Catchment Simulation Solutions**  
 Suite 2.01, 210 George St  
 Sydney, NSW 2000  
 File Name: Fig19.2 - Peak Flow Velocity  
 for the 10% AEP Flood.wor



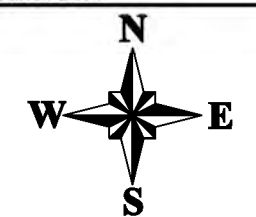
**LEGEND**

**Velocities (m/s)**

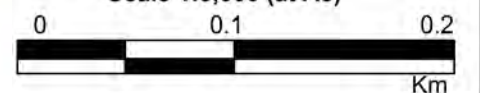
- 0.01 to 0.25
- 0.25 to 0.5
- 0.5 to 1.0
- 1.0 to 2.0
- 2.0 to 10.0

Notes:

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)



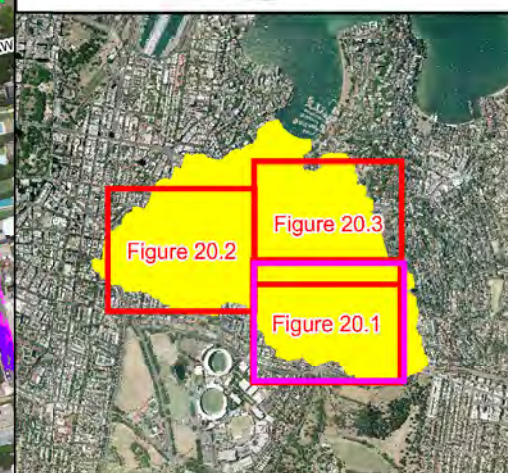
**Figure 19.3:**  
**Peak Flow Velocity**  
**for the 10% AEP Flood**

Prepared By:

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

File Name: Fig19.3 - Peak Flow Velocity  
for the 10% AEP Flood.wor



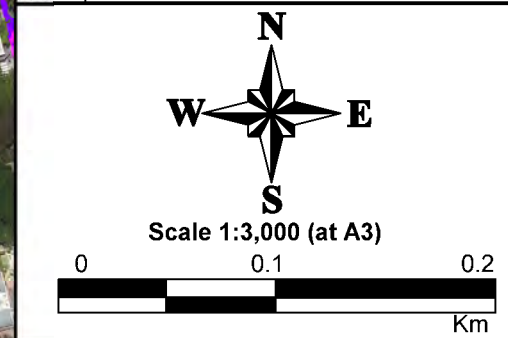


**LEGEND**

**Velocities (m/s)**

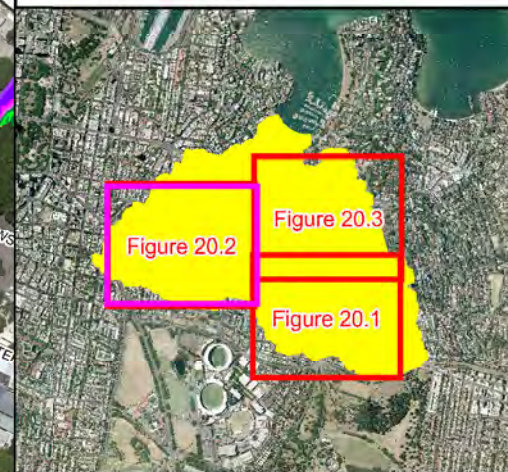
Yellow	0.01 to 0.25
Light Green	0.25 to 0.5
Dark Green	0.5 to 1.0
Magenta	1.0 to 2.0
Purple	2.0 to 10.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 20.1:  
 Peak Flow Velocity  
 for the 5% AEP Flood**

Prepared By:  
**Catchment Simulation Solutions**  
 Suite 2.01, 210 George St  
 Sydney, NSW 2000  
 File Name: Fig20.1 - Peak Flow Velocity  
 for the 5% AEP Flood.wor



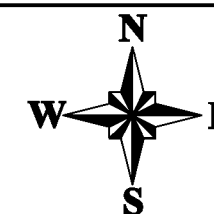
### LEGEND

#### Velocities (m/s)

- 0.01 to 0.25
- 0.25 to 0.5
- 0.5 to 1.0
- 1.0 to 2.0
- 2.0 to 10.0

#### Notes:

Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra  
 Municipal Council LGA



Scale 1:3,000 (at A3)

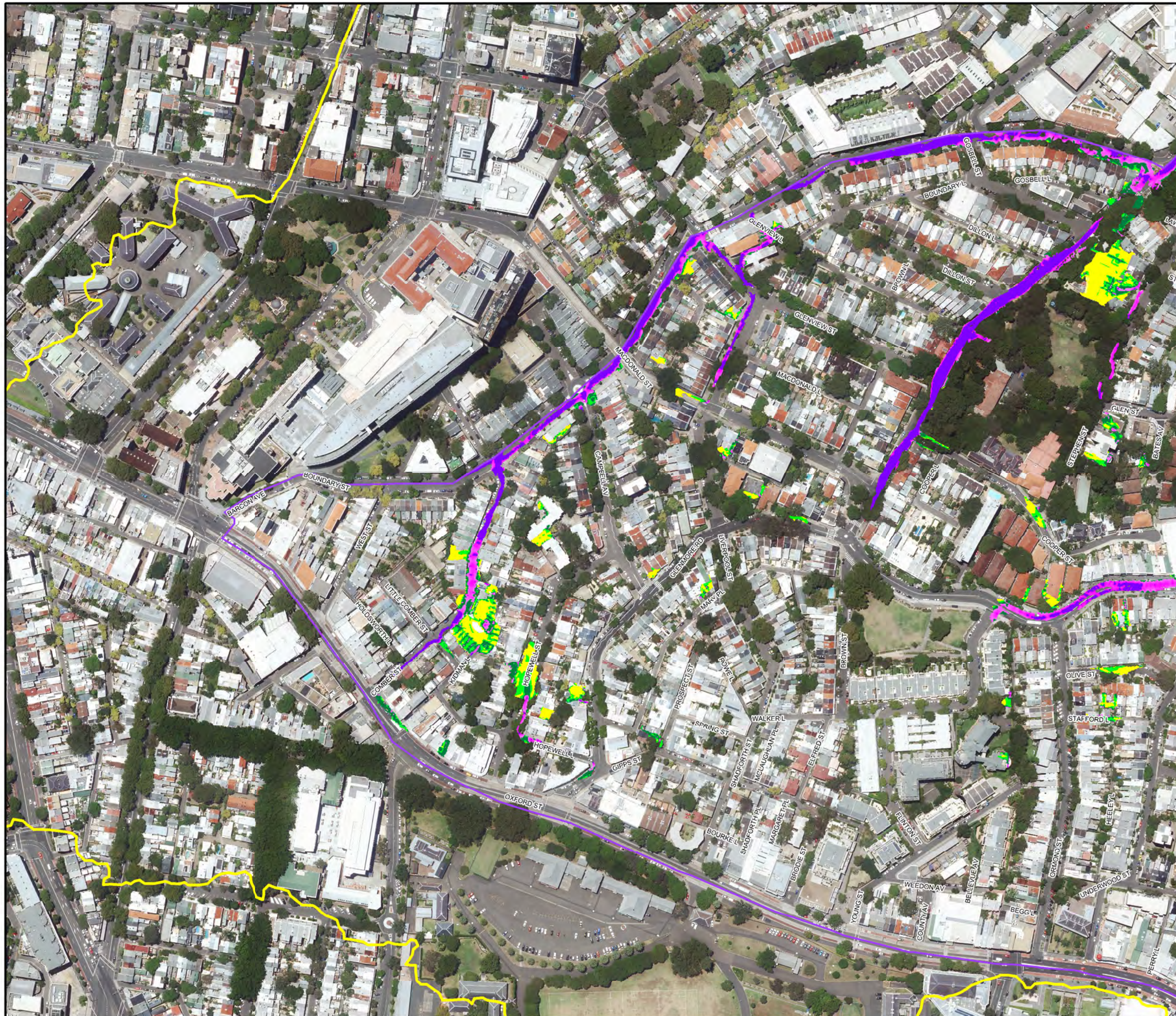


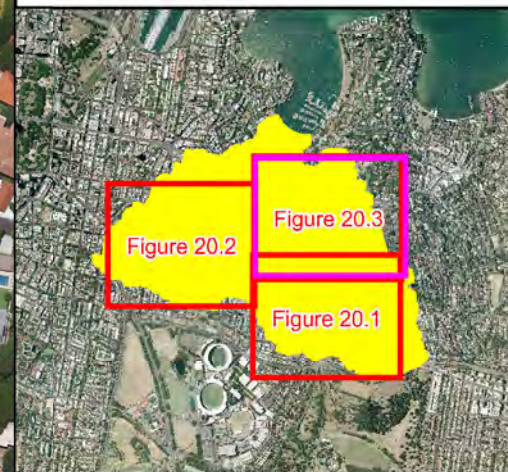
**Figure 20.2:  
 Peak Flow Velocity  
 for the 5% AEP Flood**

Prepared By:

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

File Name: Fig20.2 - Peak Flow Velocity  
 for the 5% AEP Flood.wor





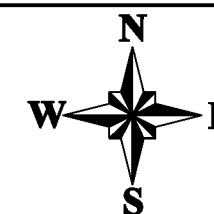
### LEGEND

#### Velocities (m/s)

Yellow	0.01 to 0.25
Light Green	0.25 to 0.5
Dark Green	0.5 to 1.0
Magenta	1.0 to 2.0
Purple	2.0 to 10.0

#### Notes:

Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra  
 Municipal Council LGA



Scale 1:3,000 (at A3)

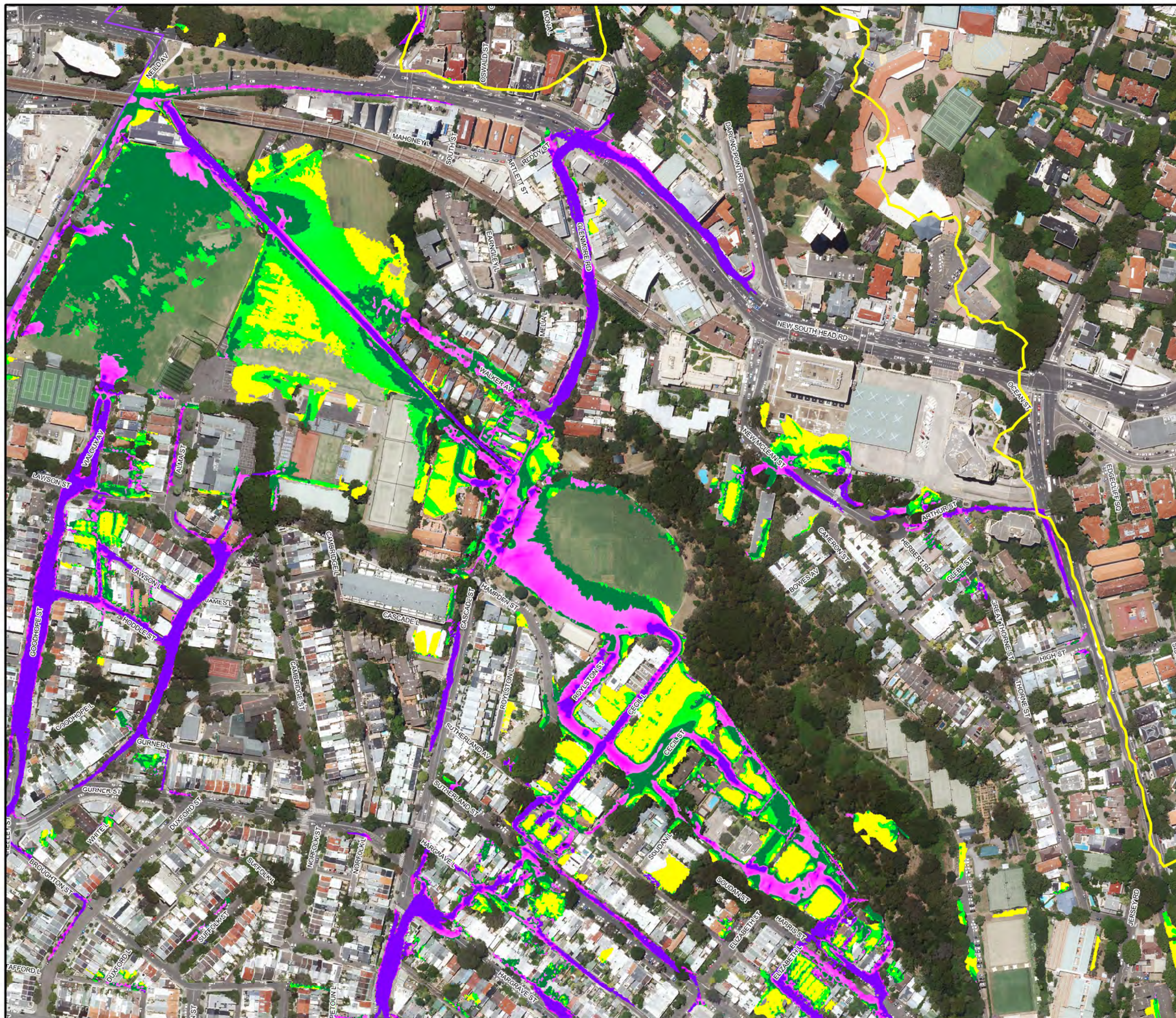


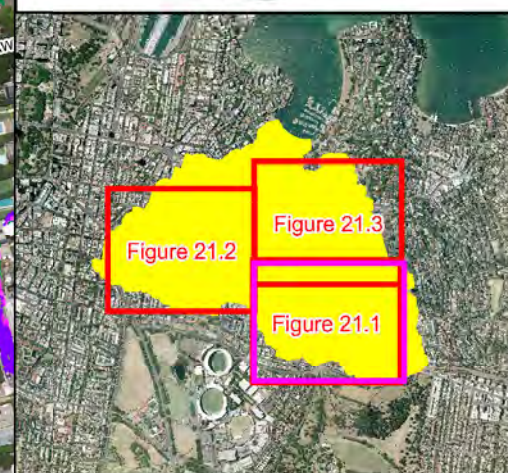
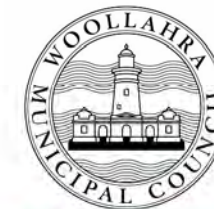
**Figure 20.3:**  
**Peak Flow Velocity**  
**for the 5% AEP Flood**

Prepared By:

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

File Name: Fig20.3 - Peak Flow Velocity  
 for the 5% AEP Flood.wor

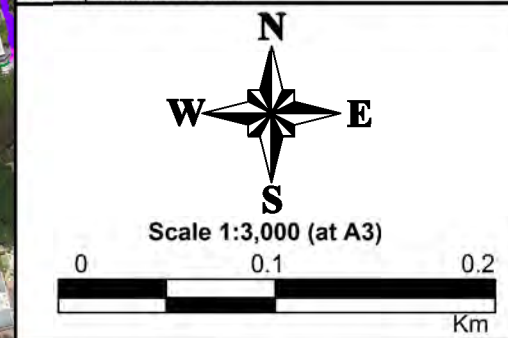




**LEGEND**

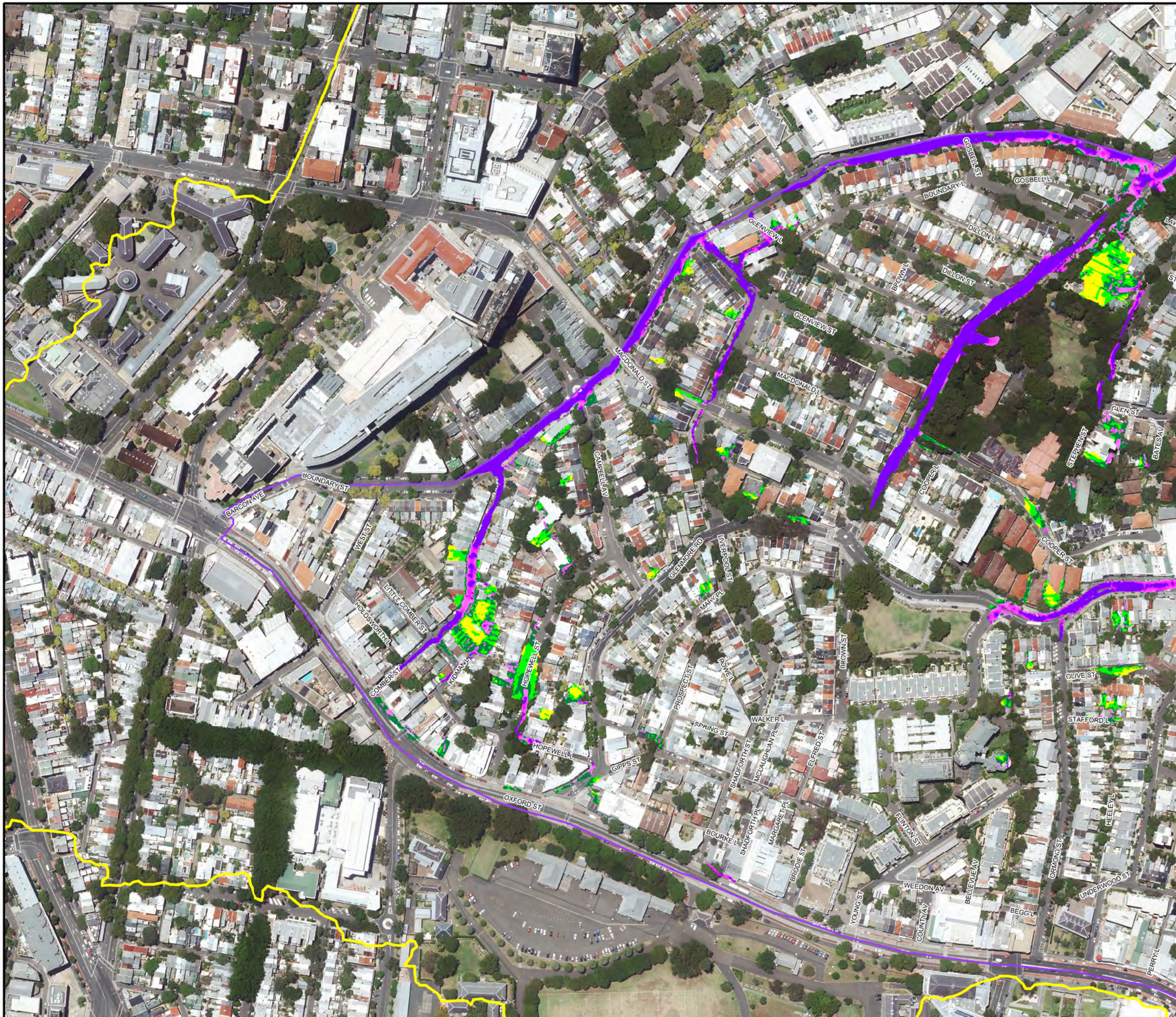
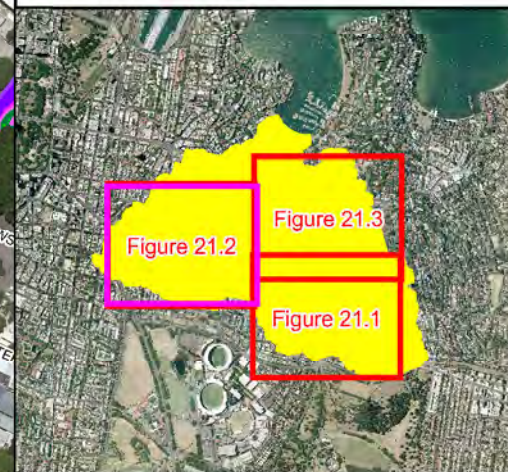
Velocities (m/s)	
Yellow	0.01 to 0.25
Light Green	0.25 to 0.5
Dark Green	0.5 to 1.0
Magenta	1.0 to 2.0
Purple	2.0 to 10.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 21.1:**  
**Peak Flow Velocity**  
**for the 1% AEP Flood**

Prepared By:  
**Catchment Simulation Solutions**  
 Suite 2.01, 210 George St  
 Sydney, NSW 2000  
 File Name: Fig21.1 - Peak Flow Velocity  
 for the 1% AEP Flood.wor



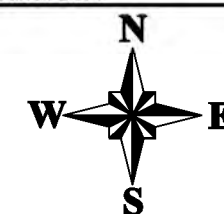
**LEGEND**

Velocities (m/s)

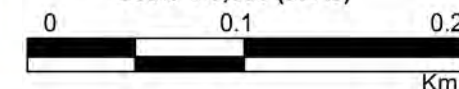
- 0.01 to 0.25
- 0.25 to 0.5
- 0.5 to 1.0
- 1.0 to 2.0
- 2.0 to 10.0

Notes:

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)

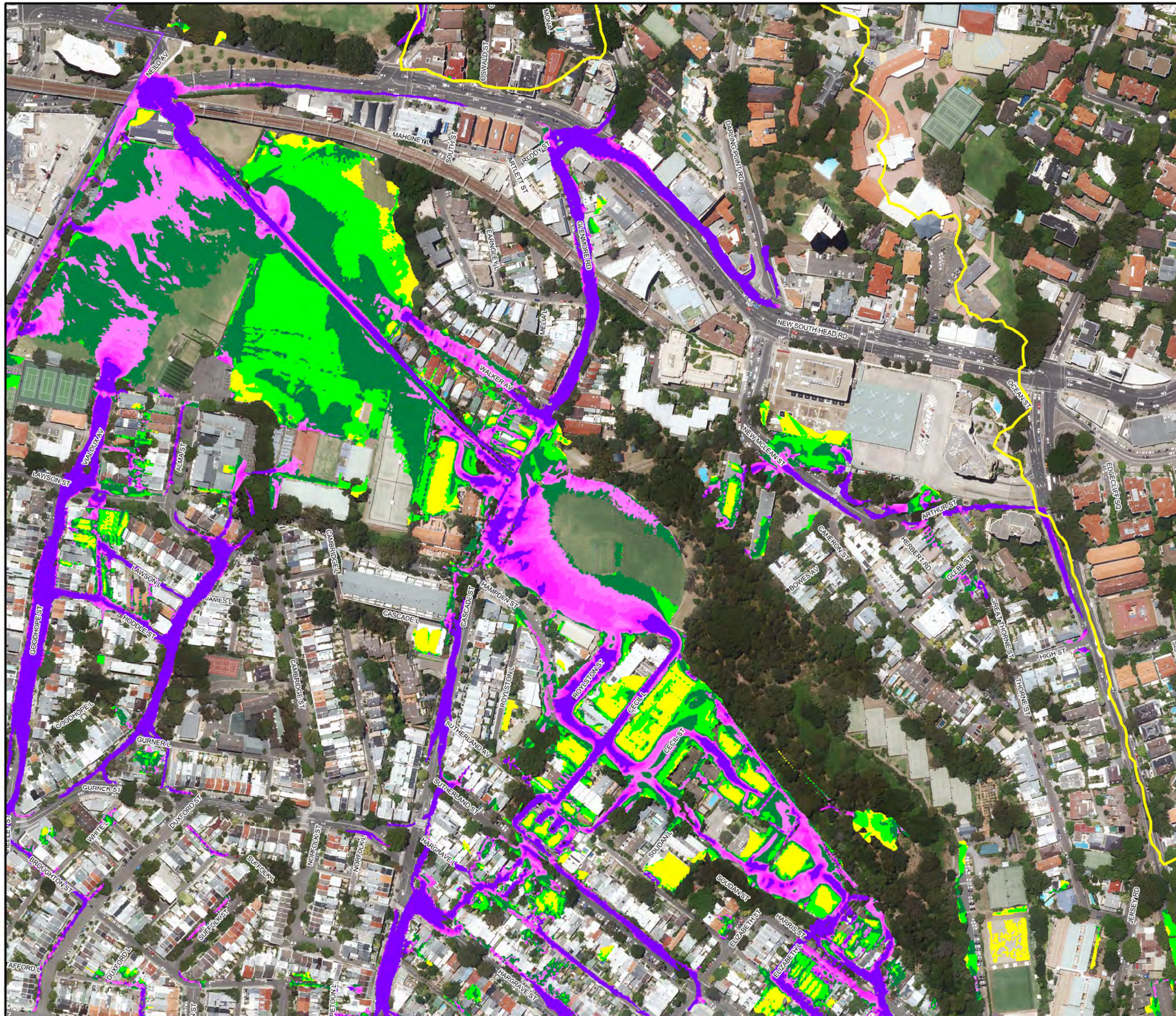
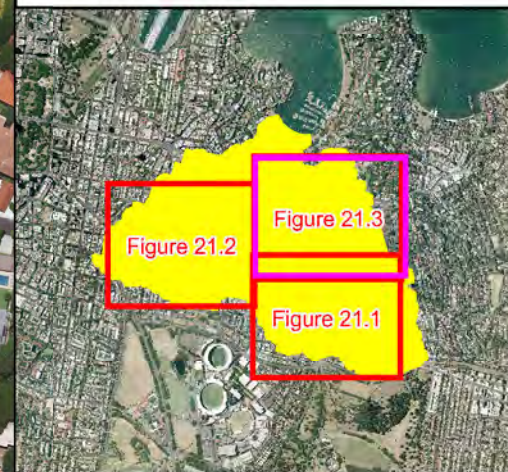


**Figure 21.2:  
Peak Flow Velocity  
for the 1% AEP Flood**

Prepared By:

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

File Name: Fig21.2 - Peak Flow Velocity  
for the 1% AEP Flood.wor



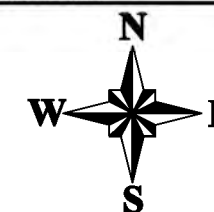
**LEGEND**

Velocities (m/s)

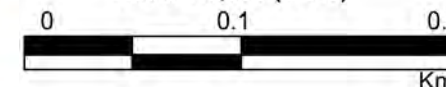
- 0.01 to 0.25
- 0.25 to 0.5
- 0.5 to 1.0
- 1.0 to 2.0
- 2.0 to 10.0

Notes:

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)



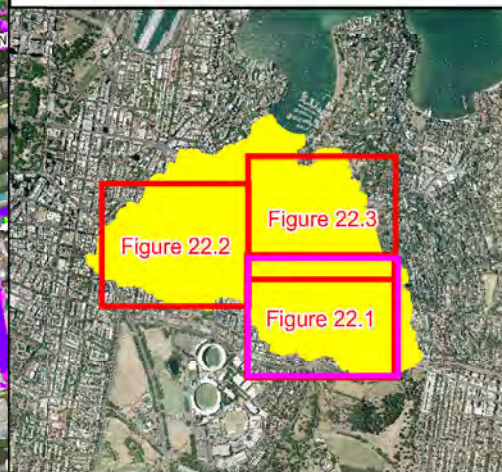
**Figure 21.3:  
Peak Flow Velocity  
for the 1% AEP Flood**

Prepared By:

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

File Name: Fig21.3 - Peak Flow Velocity  
for the 1% AEP Flood.wor





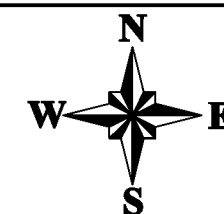
**LEGEND**

Velocities (m/s)

Yellow	0.01 to 0.25
Light Green	0.25 to 0.5
Dark Green	0.5 to 1.0
Magenta	1.0 to 2.0
Purple	2.0 to 10.0

Notes:

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)

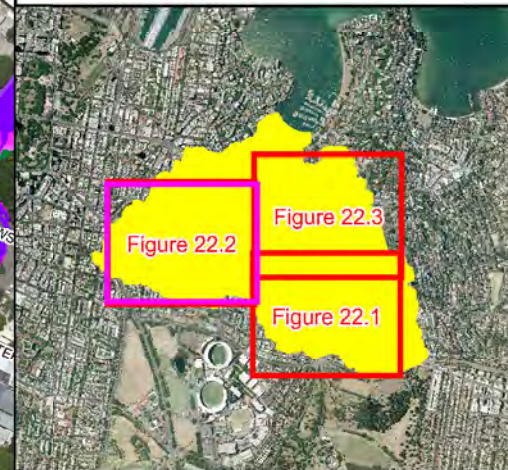


**Figure 22.1:  
Peak Flow Velocity  
for the PMF**

Prepared By:

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

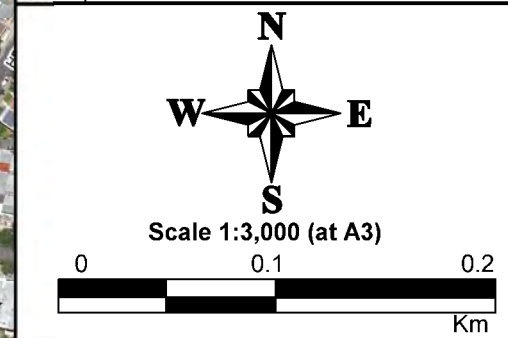
File Name: Fig22.1 - Peak Flow Velocity  
for the PMF.wor



**LEGEND**

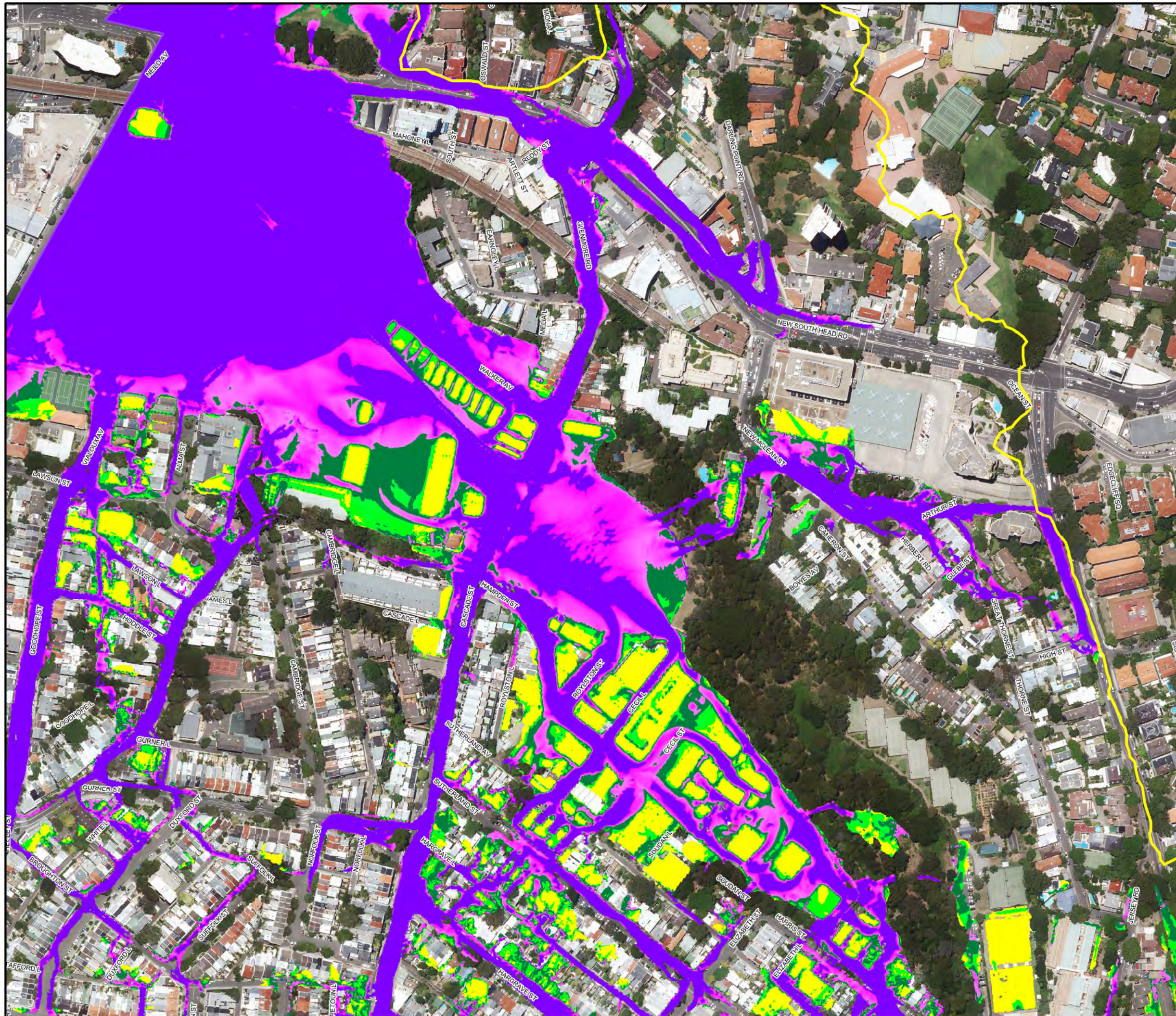
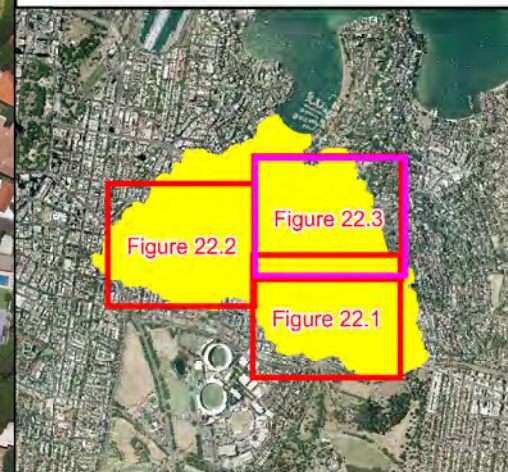
Velocities (m/s)	
	0.01 to 0.25
	0.25 to 0.5
	0.5 to 1.0
	1.0 to 2.0
	2.0 to 10.0

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 22.2:  
 Peak Flow Velocity  
 for the PMF**

Prepared By:  
**Catchment Simulation Solutions**  
 Suite 2.01, 210 George St  
 Sydney, NSW 2000  
 File Name: Fig22.2 - Peak Flow Velocity  
 for the PMF.wor



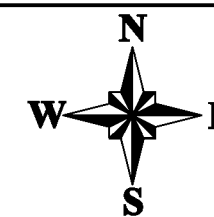
**LEGEND**

**Velocities (m/s)**

- 0.01 to 0.25
- 0.25 to 0.5
- 0.5 to 1.0
- 1.0 to 2.0
- 2.0 to 10.0

**Notes:**

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)

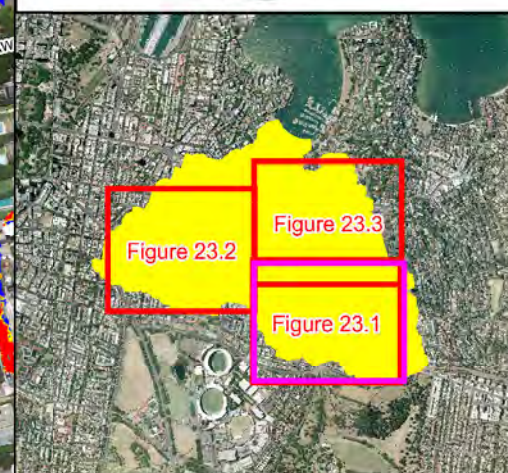


**Figure 22.3:  
Peak Flow Velocity  
for the PMF**

Prepared By:

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

File Name: Fig22.3 - Peak Flow Velocity  
for the PMF.wor



**LEGEND**

**Hazard**

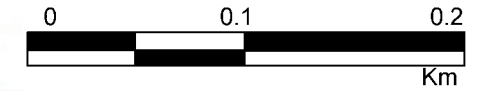
- Low
- Transition
- High

**Notes:**

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)

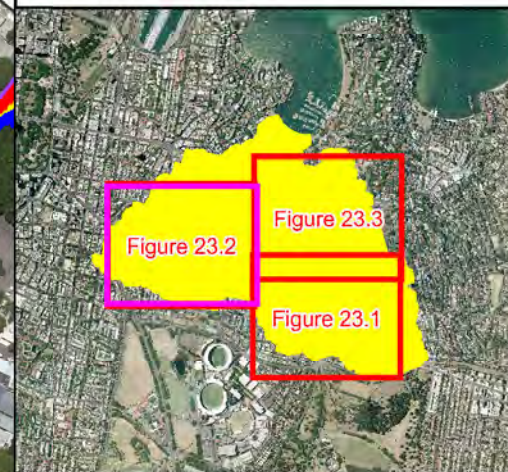


**Figure 23.1:  
Provisional Flood Hazard  
for the 1% AEP Flood**

Prepared By:


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

File Name: Fig23.1 - Provisional Flood Hazard for the 1% AEP Flood.wor



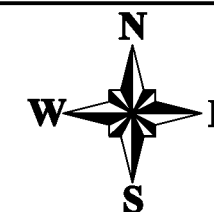
**LEGEND**

Hazard

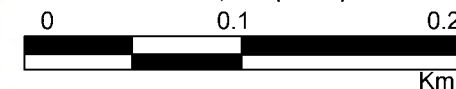
-  Low
-  Transition
-  High

Notes:

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra  
Municipal Council LGA




Scale 1:3,000 (at A3)



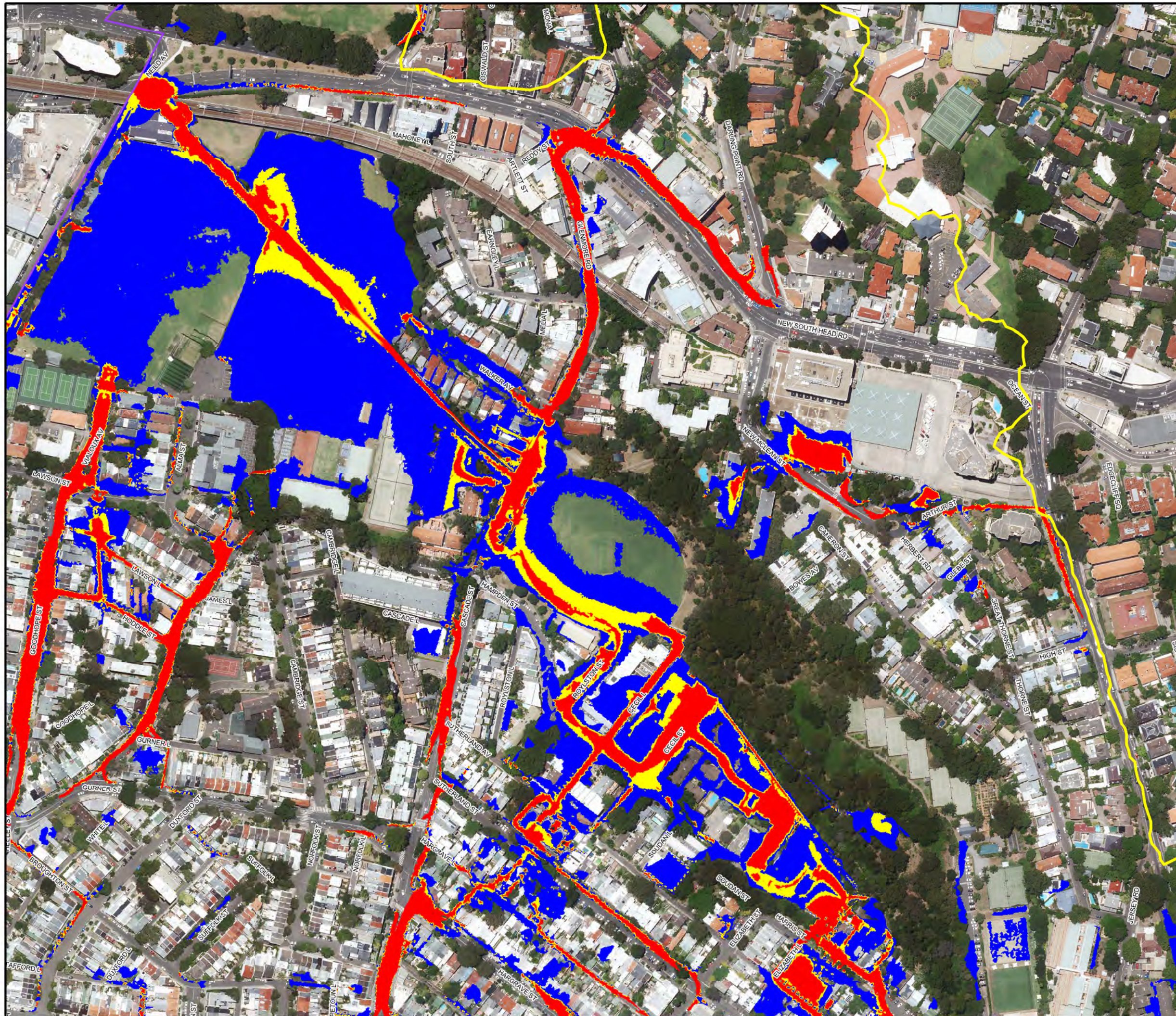
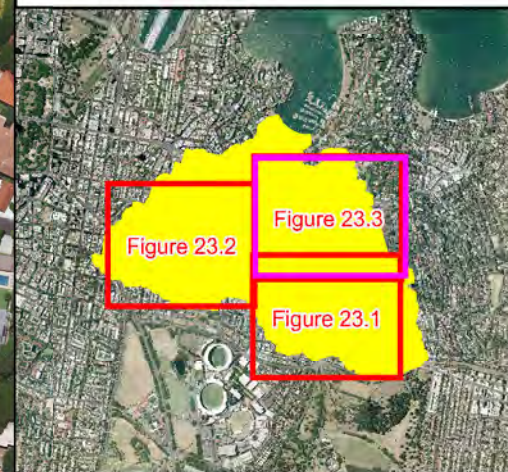
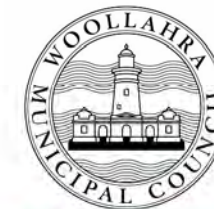
**Figure 23.2:  
Provisional Flood Hazard  
for the 1% AEP Flood**

Prepared By:

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

File Name: Fig23.2 - Provisional Flood  
Hazard for the 1% AEP Flood.wor

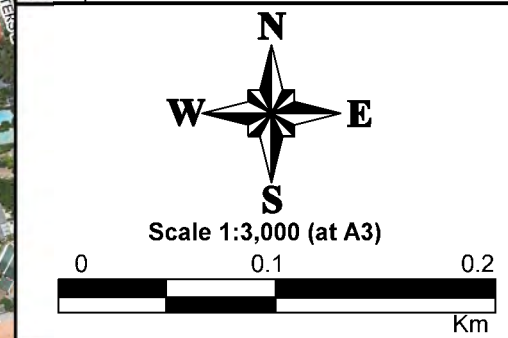




**LEGEND**

Hazard	
	Low
	Transition
	High

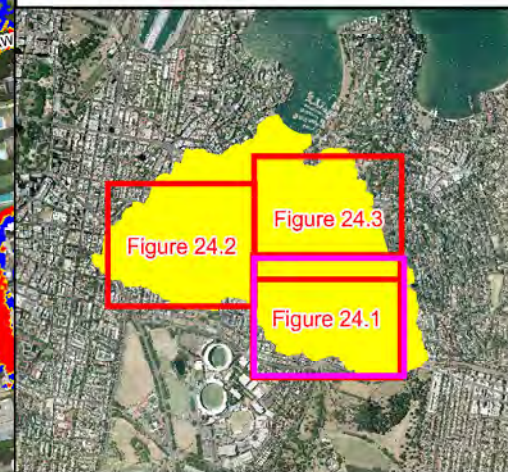
**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 23.3:  
 Provisional Flood Hazard  
 for the 1% AEP Flood**

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

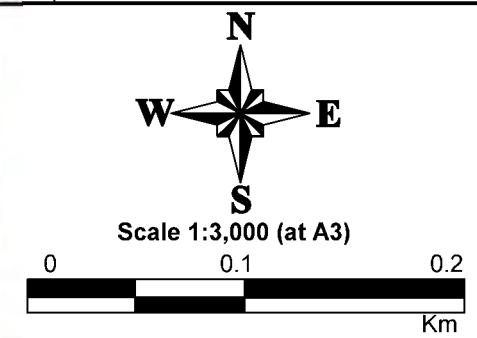
File Name: Fig23.3 - Provisional Flood Hazard for the 1% AEP Flood.wor



**LEGEND**

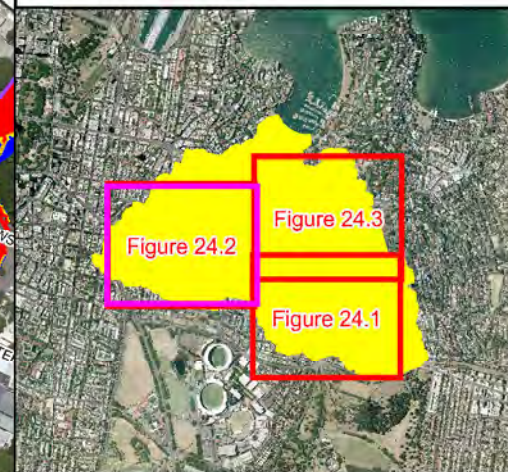
Hazard	
	Low
	Transition
	High

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 24.1:  
 Provisional Flood Hazard  
 for the PMF**

Prepared By:  
**Catchment Simulation Solutions**  
 Suite 2.01, 210 George St  
 Sydney, NSW 2000  
 File Name: Fig24.1 - Provisional Flood Hazard for the PMF.wor



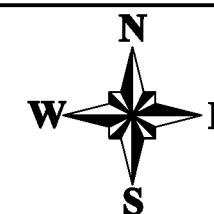
**LEGEND**

**Hazard**

- Low
- Transition
- High

**Notes:**

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)



**Figure 24.2:  
Provisional Flood Hazard  
for the PMF**

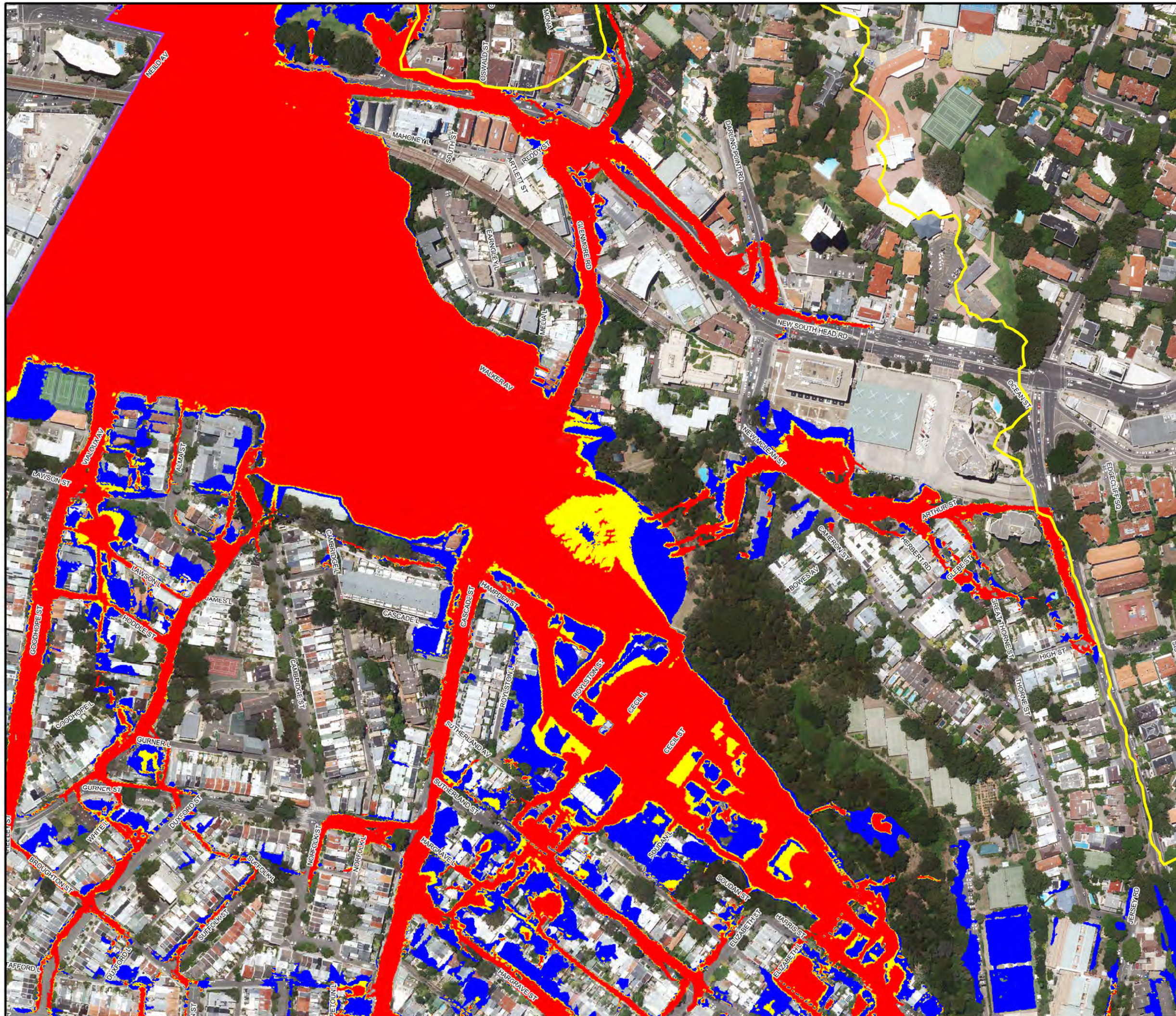
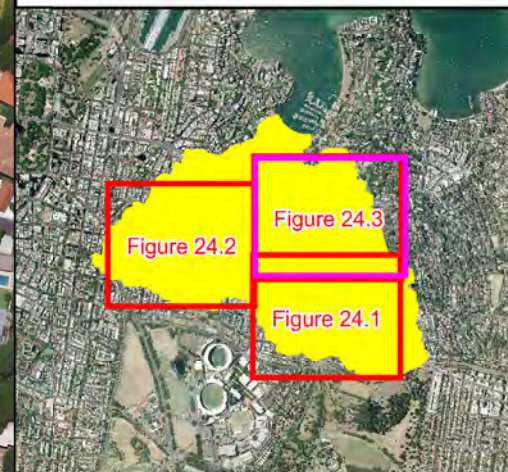
Prepared By:

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

File Name: Fig24.2 - Provisional Flood Hazard for the PMF.wor



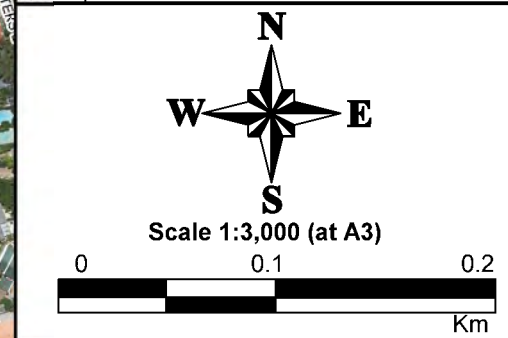




**LEGEND**

Hazard	
	Low
	Transition
	High

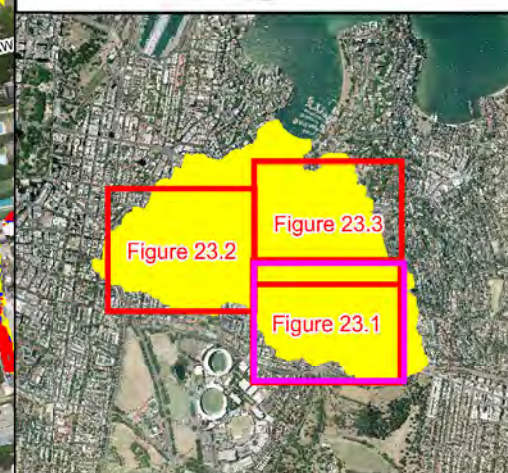
**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 24.3:  
 Provisional Flood Hazard  
 for the PMF**

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

File Name: Fig24.3 - Provisional Flood Hazard for the PMF.wor



**LEGEND**

**Hydraulic Categories**

- Flood Fringe
- Flood Storage
- Floodway

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

N  
 W E  
 S

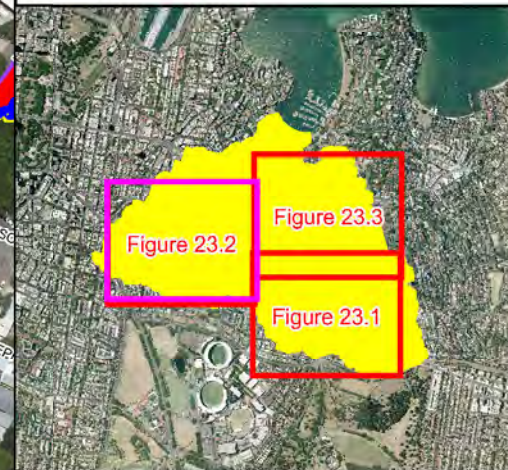
Scale 1:3,000 (at A3)

0      0.1      0.2  
 Km

**Figure 25.1:**  
**Hydraulic Categories**  
**for the 1% AEP Flood**

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

File Name: Fig25.1 - Hydraulic Categories for the 1% AEP Flood wor



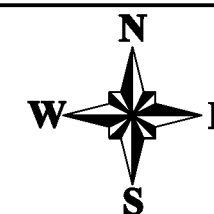
### LEGEND

#### Hydraulic Categories

- Flood Fringe
- Flood Storage
- Floodway

#### Notes:

Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA



Scale 1:3,000 (at A3)

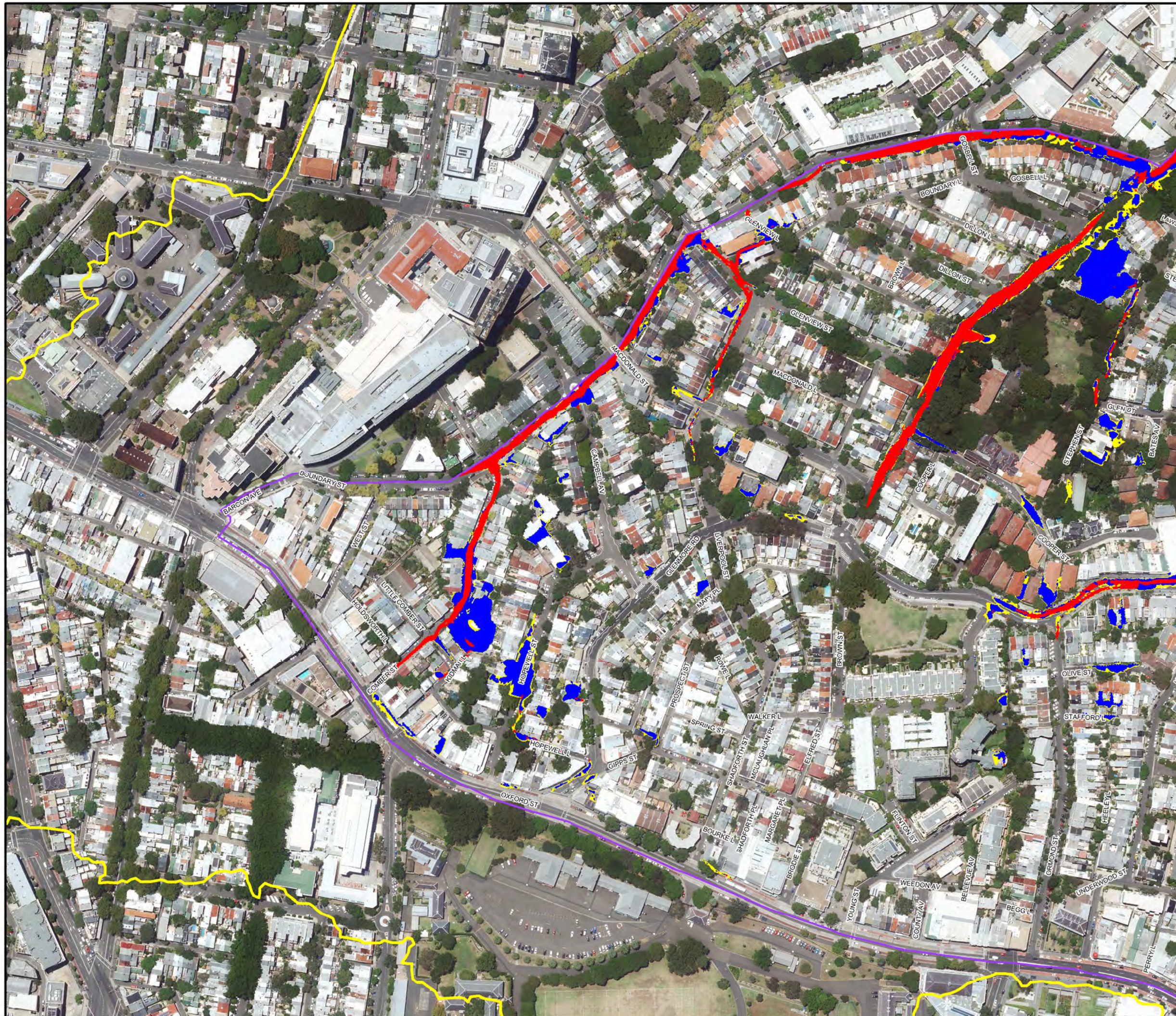


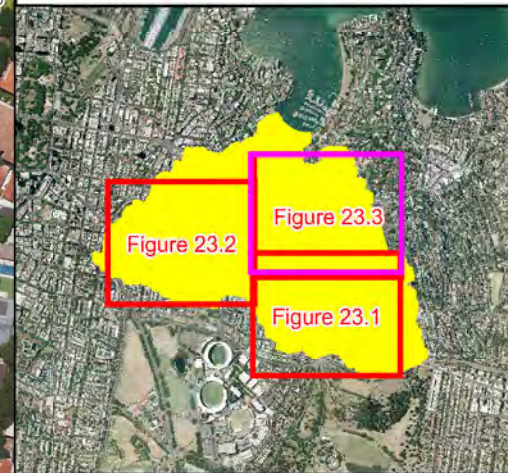
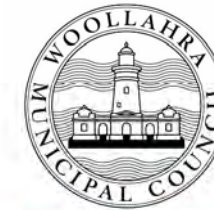
**Figure 25.2:**  
**Hydraulic Categories**  
**for the 1% AEP Flood**

Prepared By:

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

File Name: Fig25.2 - Hydraulic Categories  
 for the 1% AEP Flood wor





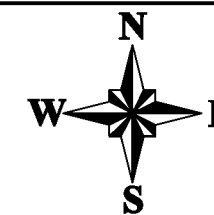
### LEGEND

#### Hydraulic Categories

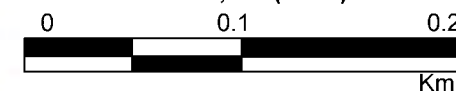
- Flood Fringe
- Flood Storage
- Floodway

#### Notes:

Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra  
 Municipal Council LGA



Scale 1:3,000 (at A3)

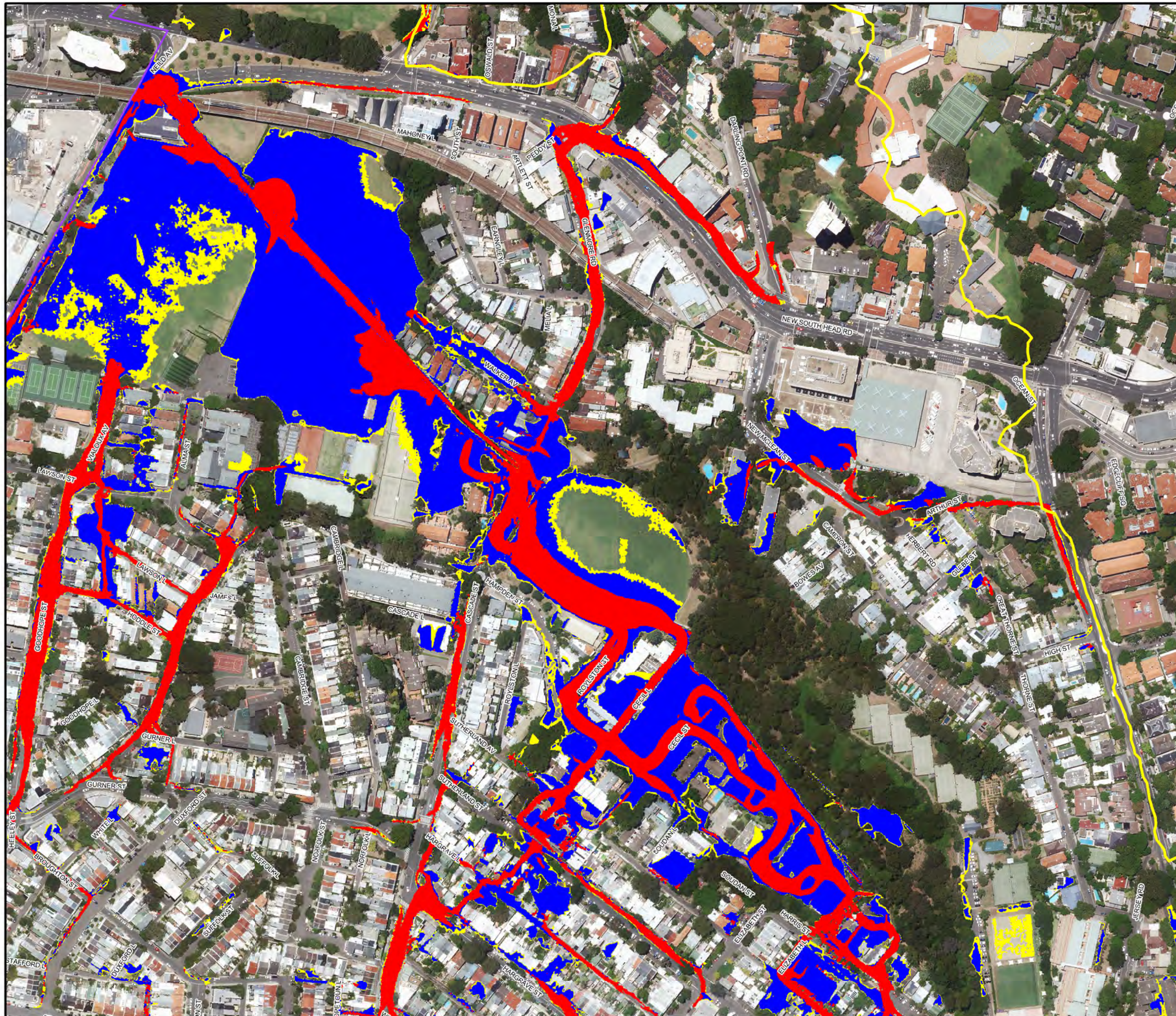


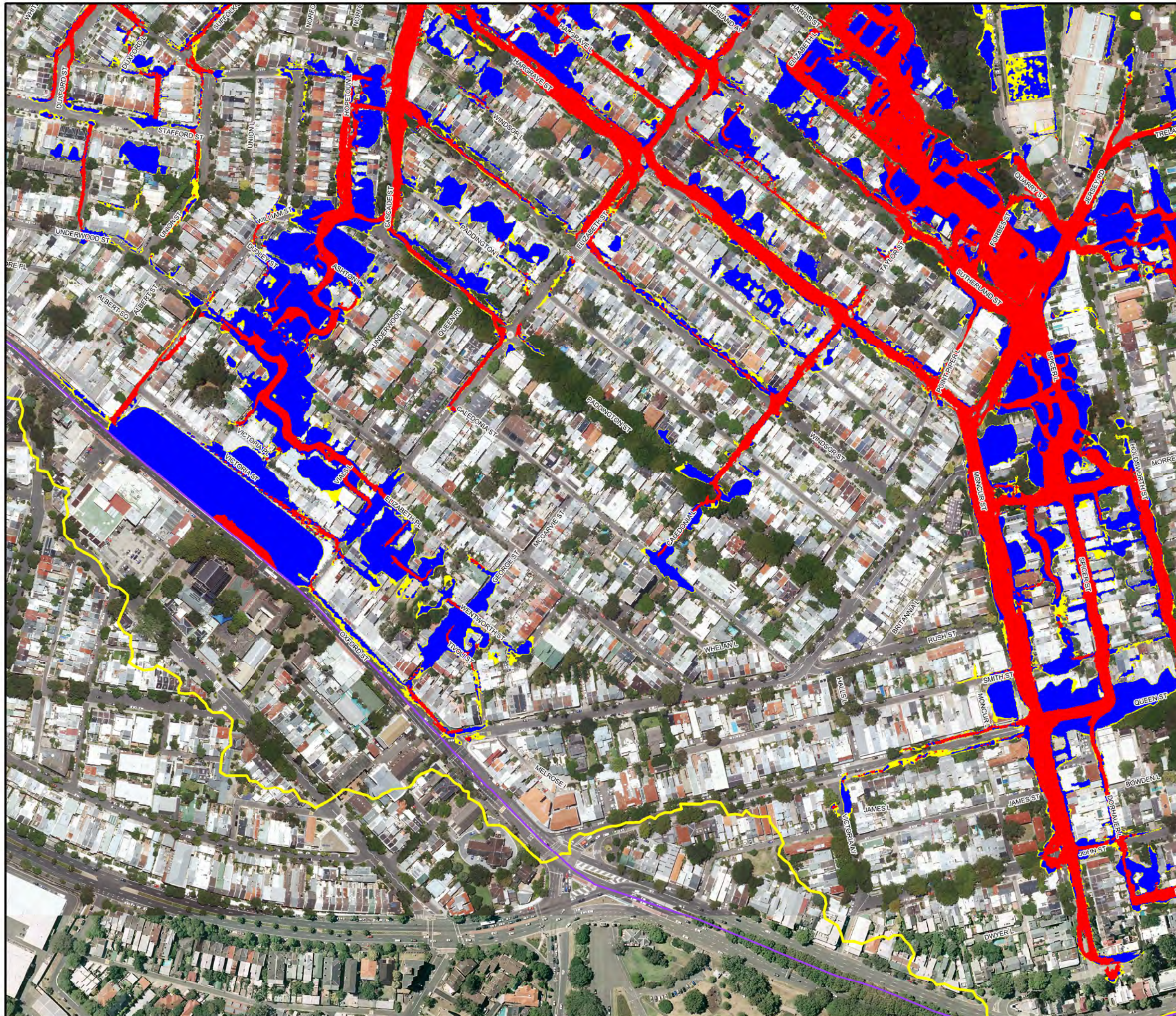
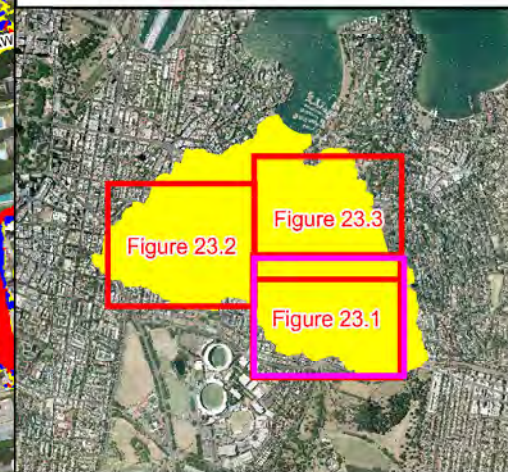
**Figure 25.3:**  
**Hydraulic Categories**  
**for the 1% AEP Flood**

Prepared By:

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

File Name: Fig25.3 - Hydraulic Categories  
 for the 1% AEP Flood wor





**LEGEND**

**Hydraulic Categories**

- Flood Fringe
- Flood Storage
- Floodway

**Notes:**  
 Aerial photograph date: January 2014  
 Flood water depths only shown within Woollahra Municipal Council LGA

N  
 W E  
 S

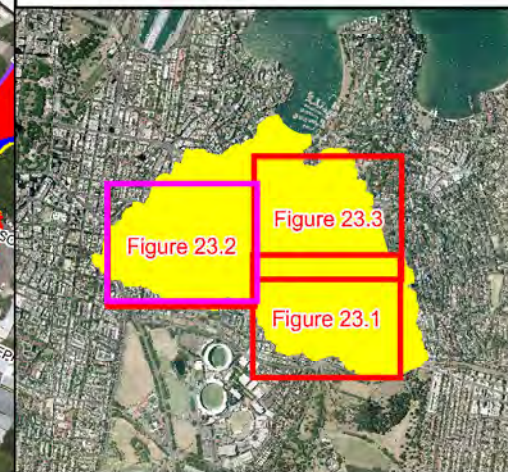
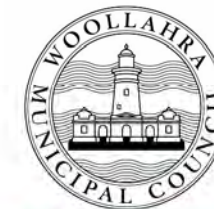
Scale 1:3,000 (at A3)

0      0.1      0.2  
 Km

**Figure 26.1:**  
**Hydraulic Categories**  
**for the PMF**

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

File Name: Fig26.1 - Hydraulic Categories for the PMF.wor



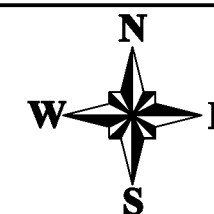
**LEGEND**

**Hydraulic Categories**

-  Flood Fringe
-  Flood Storage
-  Floodway

**Notes:**

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA




Scale 1:3,000 (at A3)

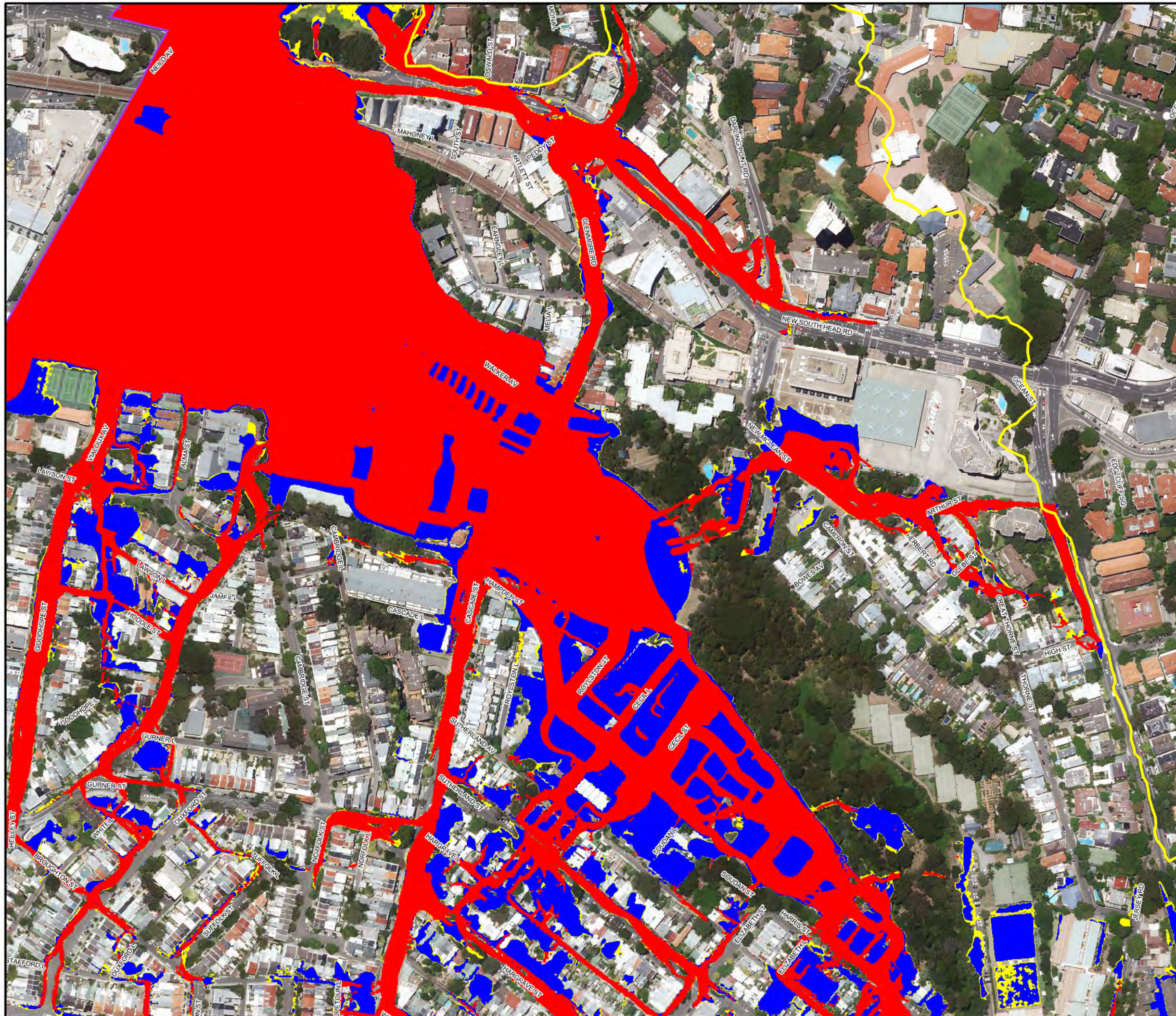
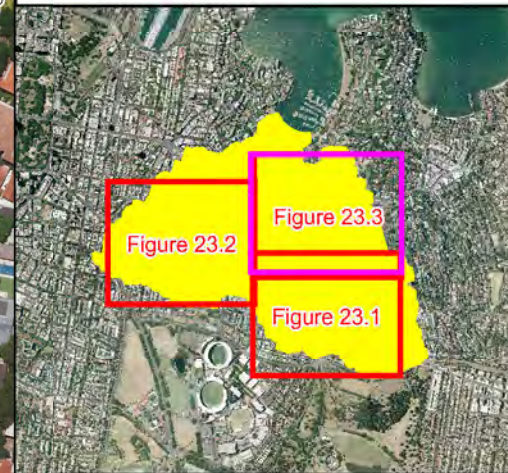
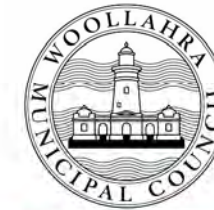


**Figure 26.2:  
Hydraulic Categories  
for the PMF**

Prepared By:

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

File Name: Fig26.2 - Hydraulic Categories for the PMF.wor



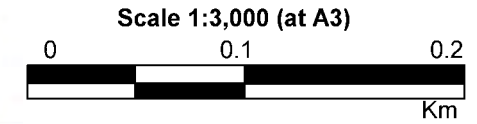
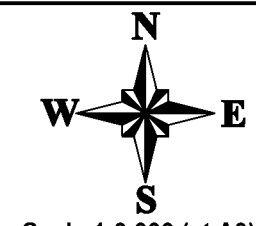
**LEGEND**

**Hydraulic Categories**

- Flood Fringe
- Flood Storage
- Floodway

**Notes:**

Aerial photograph date: January 2014  
Flood water depths only shown within Woollahra Municipal Council LGA



**Figure 26.3:  
Hydraulic Categories  
for the PMF**

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

File Name: Fig26.3 - Hydraulic Categories  
for the PMF.wor