

FIGURE 2
STUDY AREA



FIGURE 3
LIDAR SURVEY



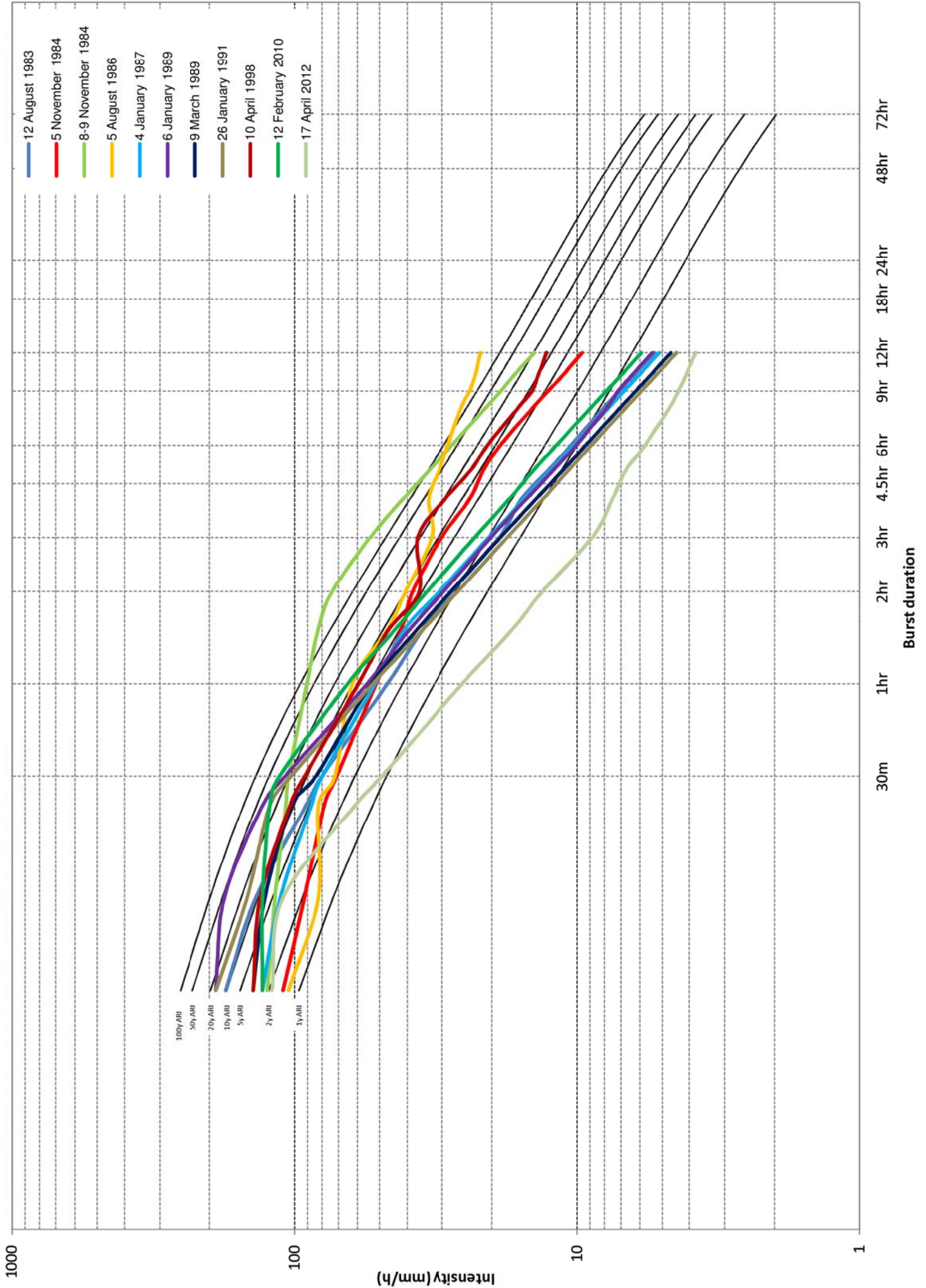
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Ground Level (mASL)
High : >60
Low : <5
Study Area

0 100 200 400 600 800 m

FIGURE 5
 IFD DATA AND RAINFALL COMPARISON
 PADDINGTON GAUGE

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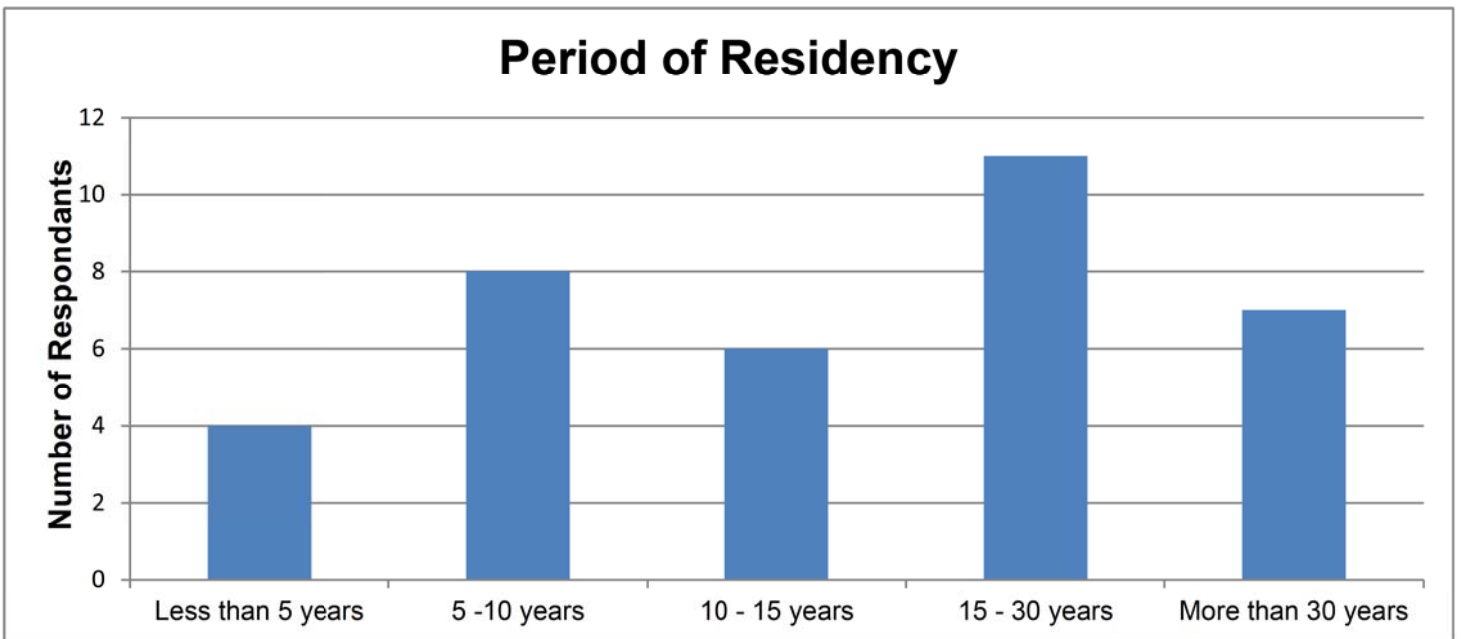
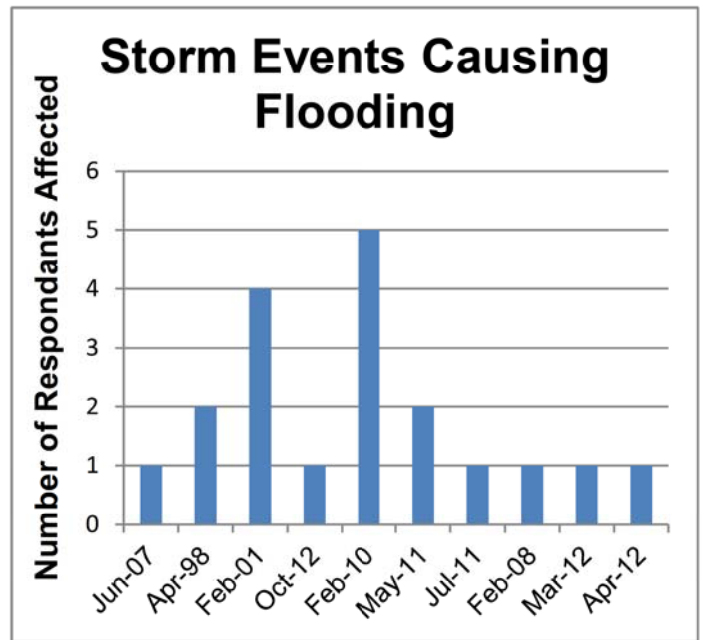
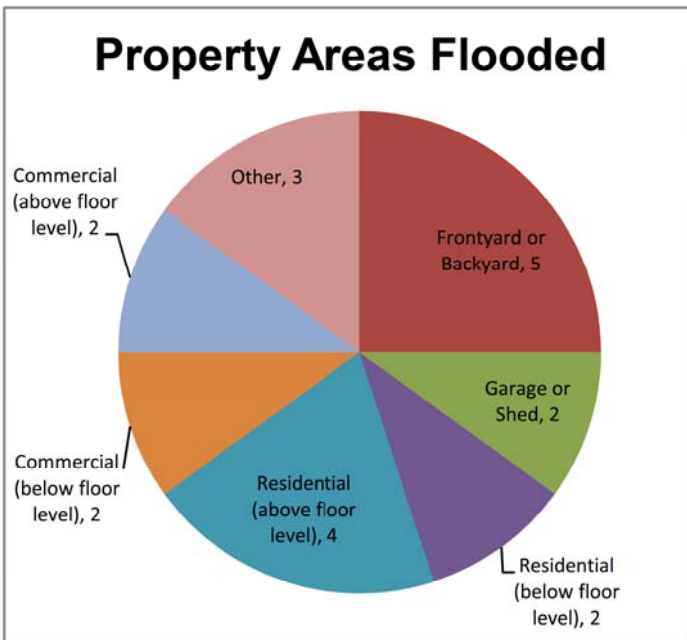
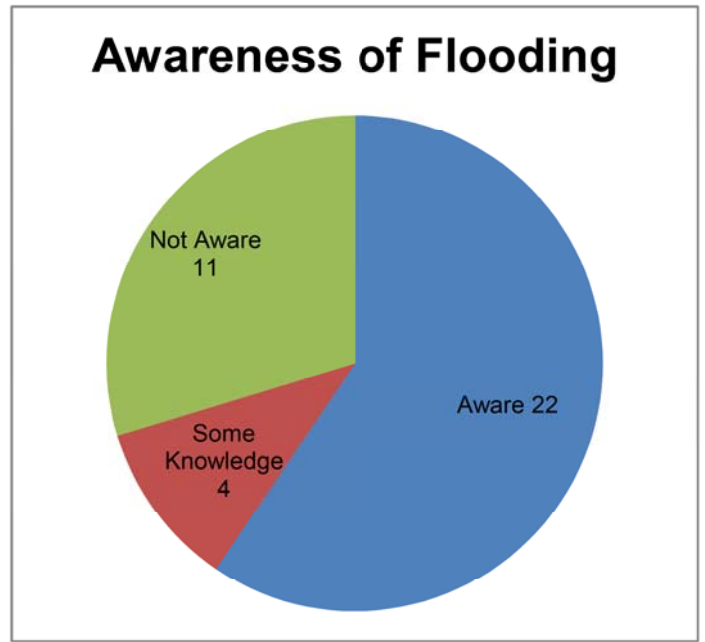
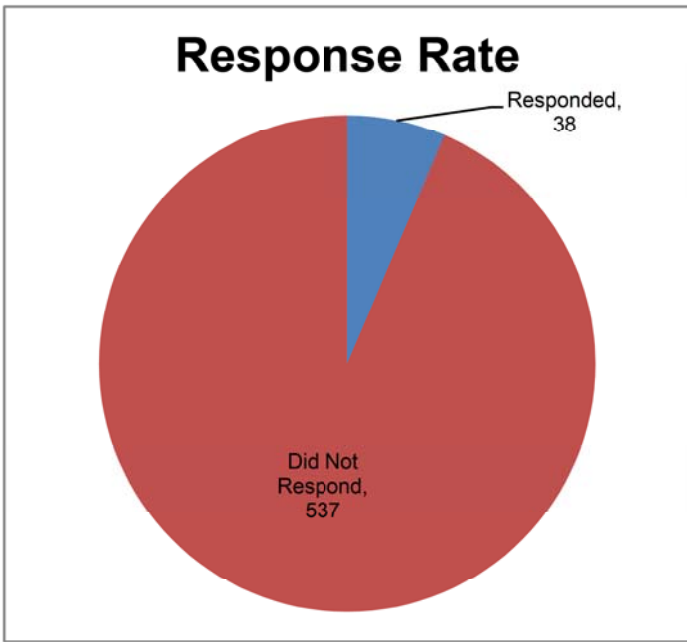


FIGURE 7
REPORTED STORMS & DEPTHS - WOOLLOOMOOLOO



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FIGURE 8A
**FLOODING & ELEVATION MARKS
 CROWN STREET LOW POINT**



Flooding on the corner of Bossley Terrace & Crown Street, 7:39am, 17 April 2012.



Flooding at Crown Street Low Point, 7:44am, 17 April 2012.



Flood barrier installed at Bossley Terrace, with approximate elevation of barrier height. 3.9m AHD



Flooding at Crown Street low point, Woolloomooloo, 7:50am, 17 April 2012.



Flooding at corner Bossley Terrace and Crown Street, Woolloomooloo. 7:51am, 17 April 2012.



Approximate elevation of regular flooding along front fence outside, 18 Crown St, Woolloomooloo. 4.2m AHD

FIGURE 8B
**FLOODING & ELEVATION MARKS
 VICTORIA STREET**



Floodmarks at residence entrance on Victoria St, Potts Point



Floodmarks at residence entrance on Victoria St.



Floodgates installed to avoid inundation at Victoria St, with approximate elevation of flooding in February 2010.



Flooding, Victoria St, April 2012.



Flooding, Victoria St, April 2012.



Approximate elevation of flooding on Victoria St during June 2007 storm.

Note: The catchment has changed significantly since 1986, and peak flood levels during that time are no longer comparable to current conditions

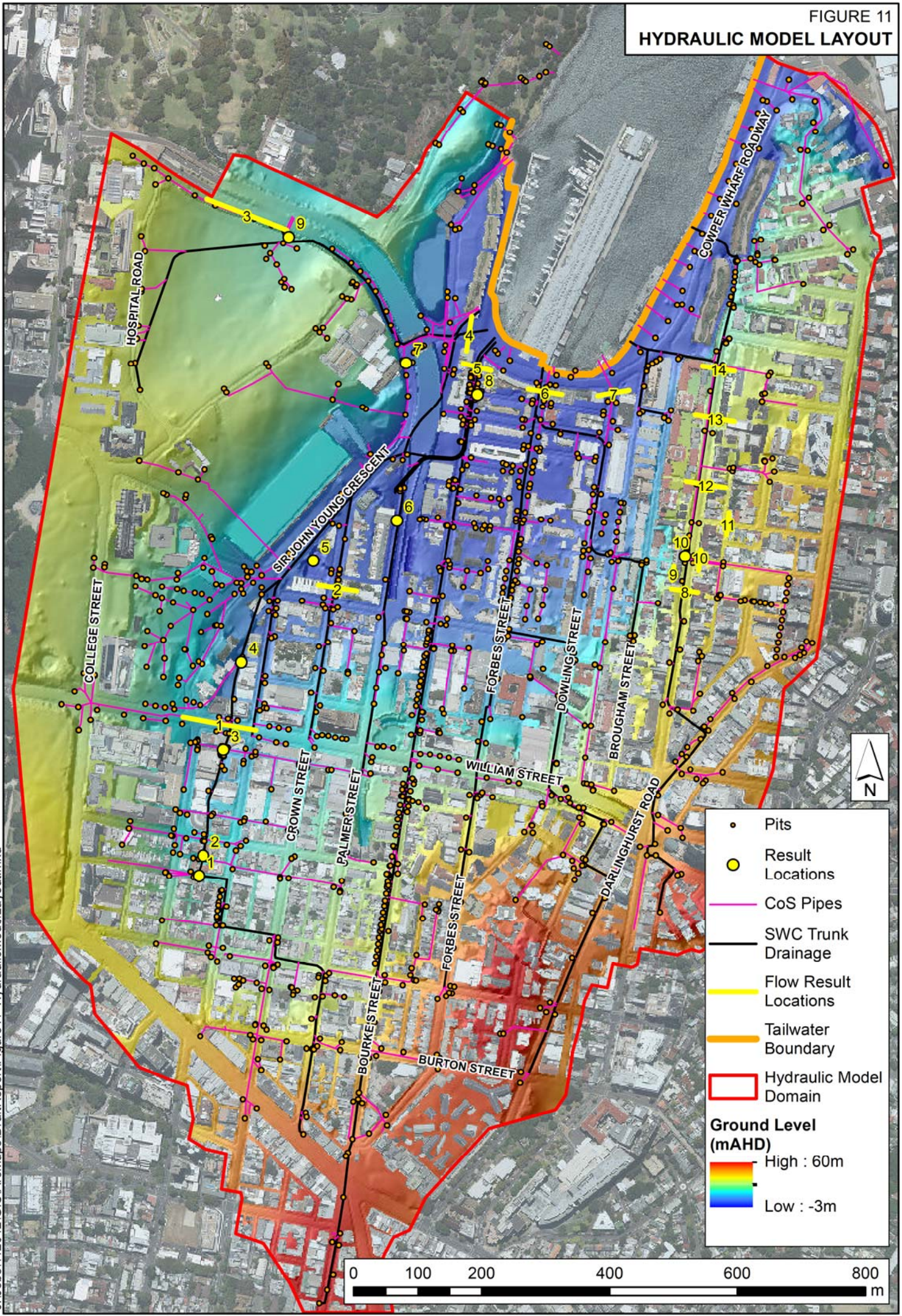


Location	Date	Flood Level (mAHD)	Remarks
4 Yurong St	19/04/1950		Water entered properties adjacent to intersection.
12 Bourke St	5/08/1986	2.06	Property flooded above floor level.
10 Bourke St	5/08/1986	2	Property flooded above floor level
24 Crown St	5/08/1986	4.04	Property flooded above floor level
60-72 Sir John Young Cres	5/08/1986	3.96	Flood level on driveway
60-70 William St	9/04/1998	-	Water in sag
123 Victoria Street	12/02/2010	30.20	Road Flooded
2 - 34 Crown Street	Regularly	4.25	Road Flooded
137A Victoria Street	14/06/2007	-	Above Floor Inundation
Corner Bossley Terrace & Crown Street	14/06/2007	31.02	Road Flooded
	26/02/2008	3.92	Road Flooding leading to property inundation
	12/02/2010	3.92	
	30/05/2011	3.92	
	8/03/2012	3.97	
	17/04/2012	4.27	

FIGURE 10
HYDROLOGIC MODEL LAYOUT



FIGURE 11
HYDRAULIC MODEL LAYOUT



- Pits
 - Result Locations
 - CoS Pipes
 - SWC Trunk Drainage
 - Flow Result Locations
 - Tailwater Boundary
 - Hydraulic Model Domain
- Ground Level (mAHD)**
- High : 60m
 - Low : -3m



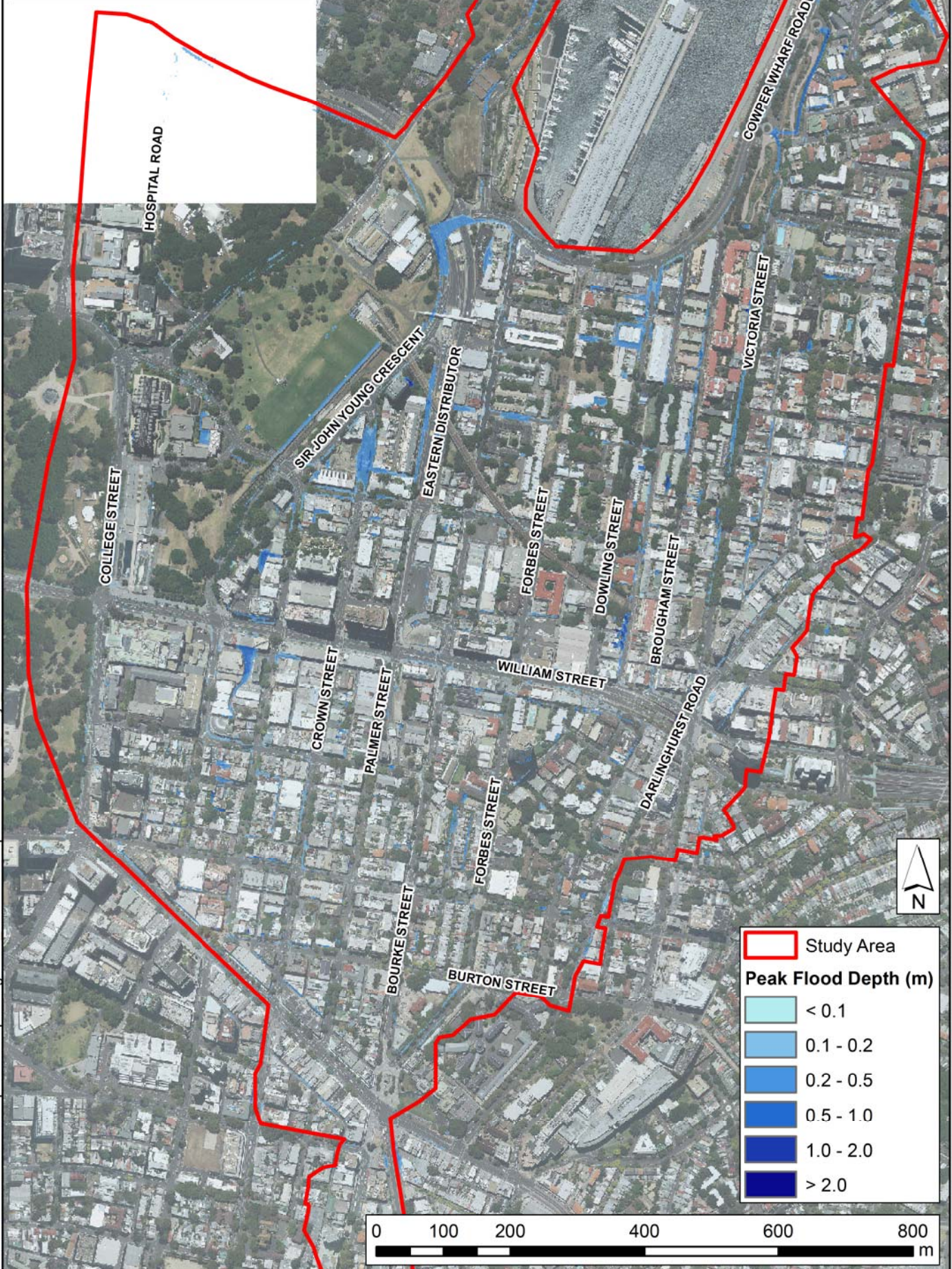
FIGURE 12
 HISTORIC CALIBRATION
 12 FEBRUARY 2012



FIGURE 13

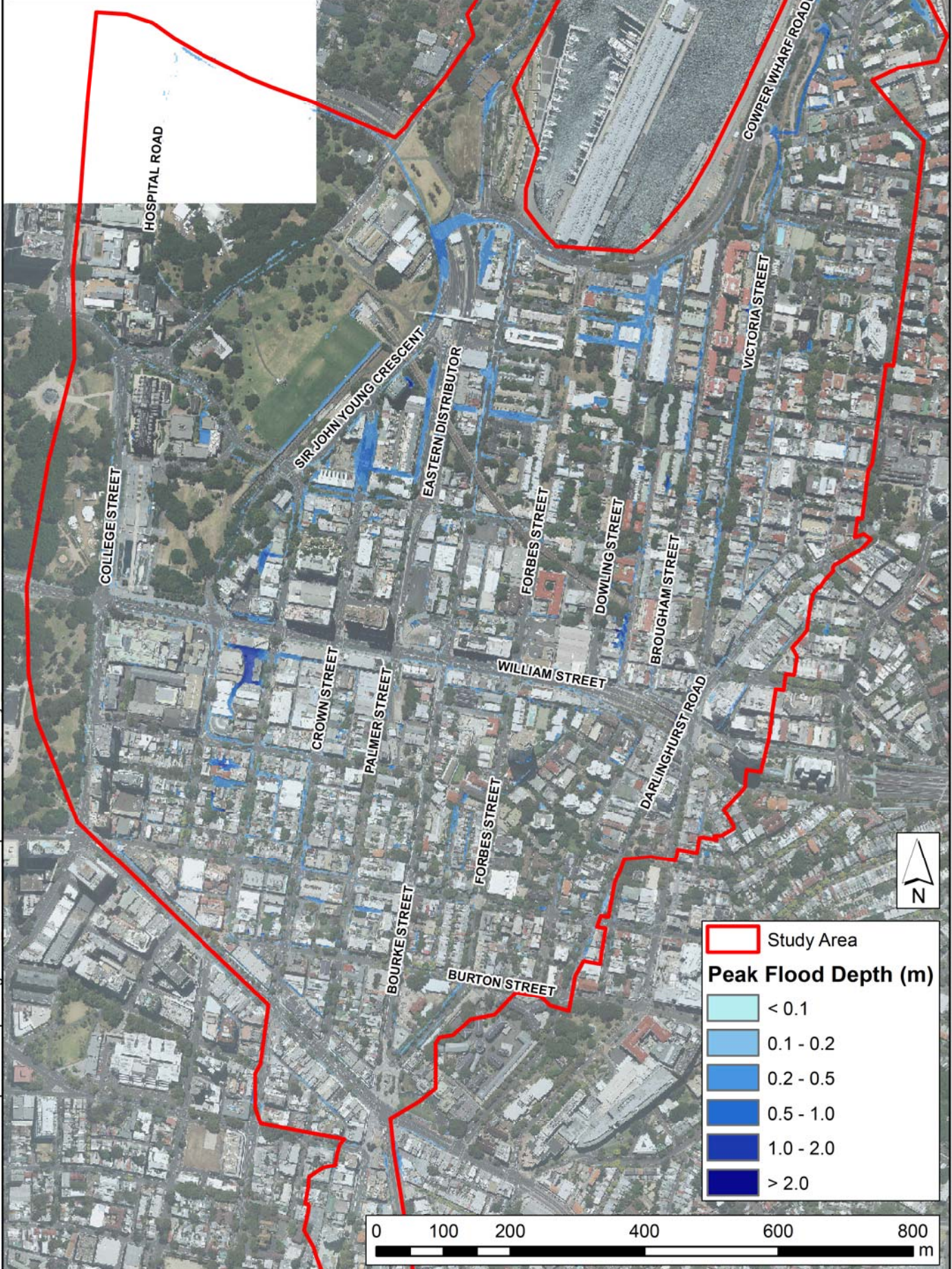
**PEAK FLOOD DEPTHS AND LEVELS
2 YEAR ARI**

Note: Tall buildings, road and rail overpasses, vegetation cover, near vertical changes in grade and high density urban development has meant that in some locations ALS cannot accurately define the ground surface (refer Section 3.1). As a result some abnormalities exist in these figures which can only be resolved with extensive and detailed ground survey.



**PEAK FLOOD DEPTHS AND LEVELS
5 YEAR ARI**

Note: Tall buildings, road and rail overpasses, vegetation cover, near vertical changes in grade and high density urban development has meant that in some locations ALS cannot accurately define the ground surface (refer Section 3.1). As a result some abnormalities exist in these figures which can only be resolved with extensive and detailed ground survey.



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FIGURE 15

**PEAK FLOOD DEPTHS AND LEVELS
10 YEAR ARI**

Note: Tall buildings, road and rail overpasses, vegetation cover, near vertical changes in grade and high density urban development has meant that in some locations ALS cannot accurately define the ground surface (refer Section 3.1). As a result some abnormalities exist in these figures which can only be resolved with extensive and detailed ground survey.

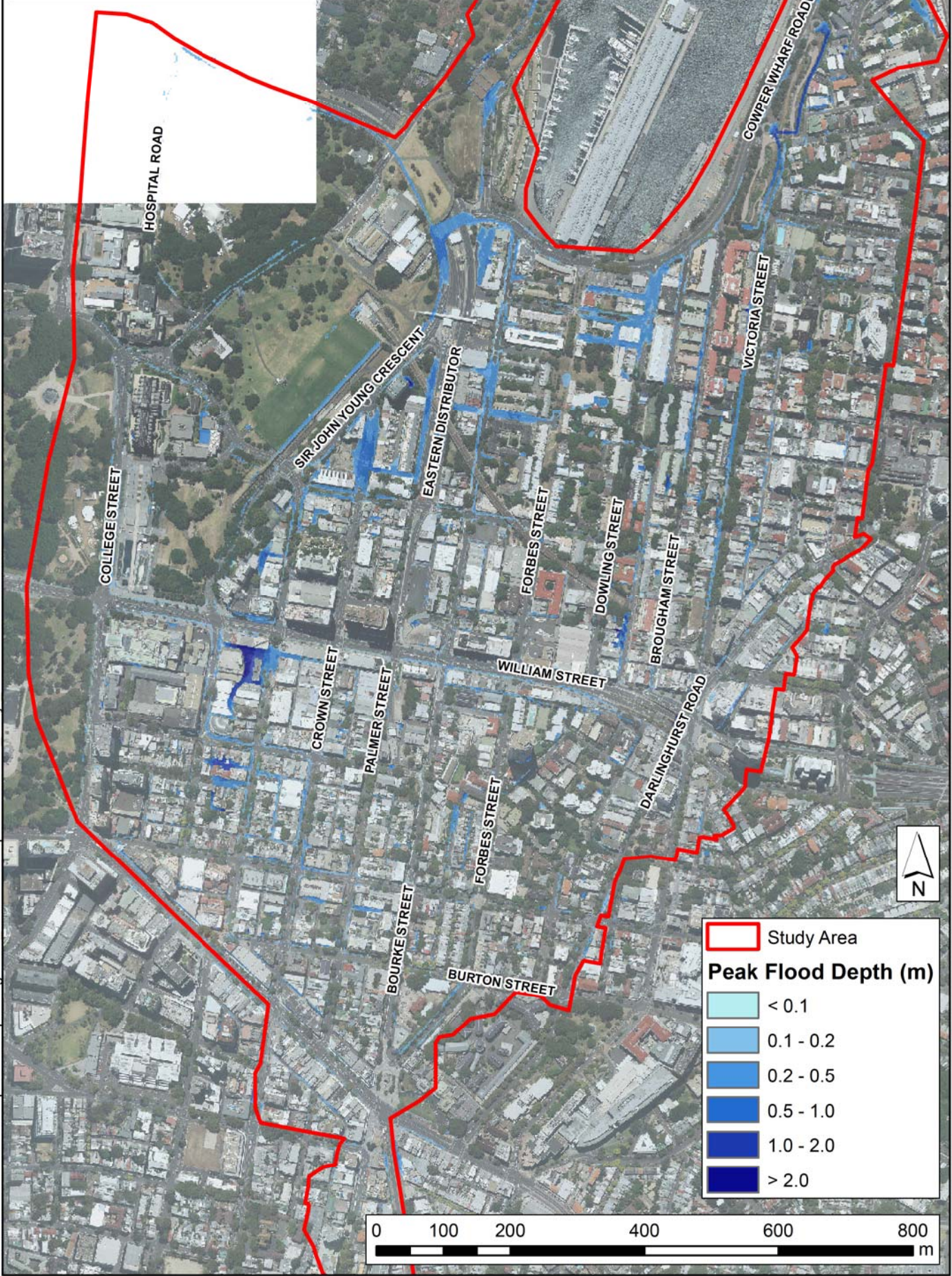


FIGURE 16

**PEAK FLOOD DEPTHS AND LEVELS
20 YEAR ARI**

Note: Tall buildings, road and rail overpasses, vegetation cover, near vertical changes in grade and high density urban development has meant that in some locations ALS cannot accurately define the ground surface (refer Section 3.1). As a result some abnormalities exist in these figures which can only be resolved with extensive and detailed ground survey.

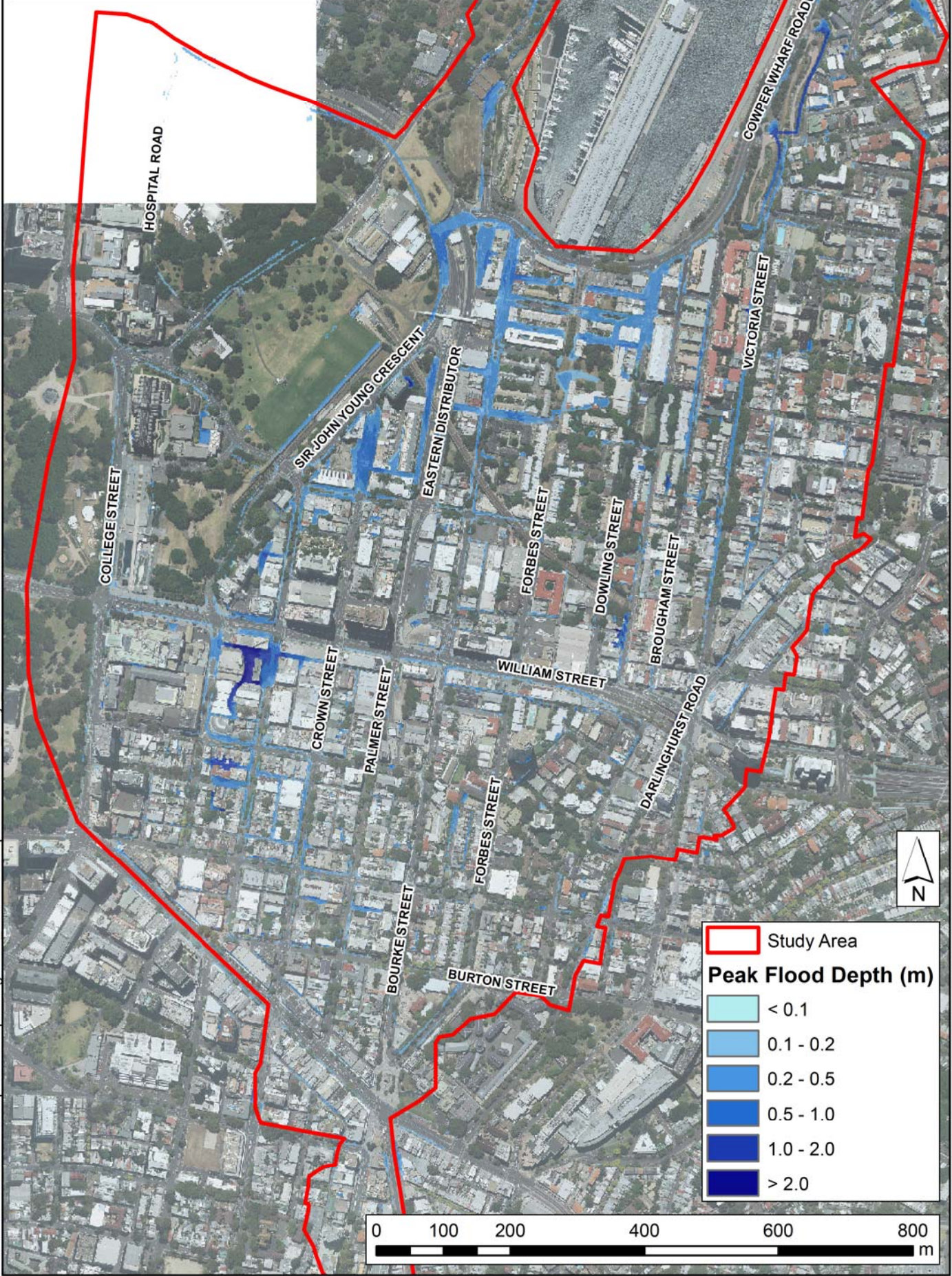
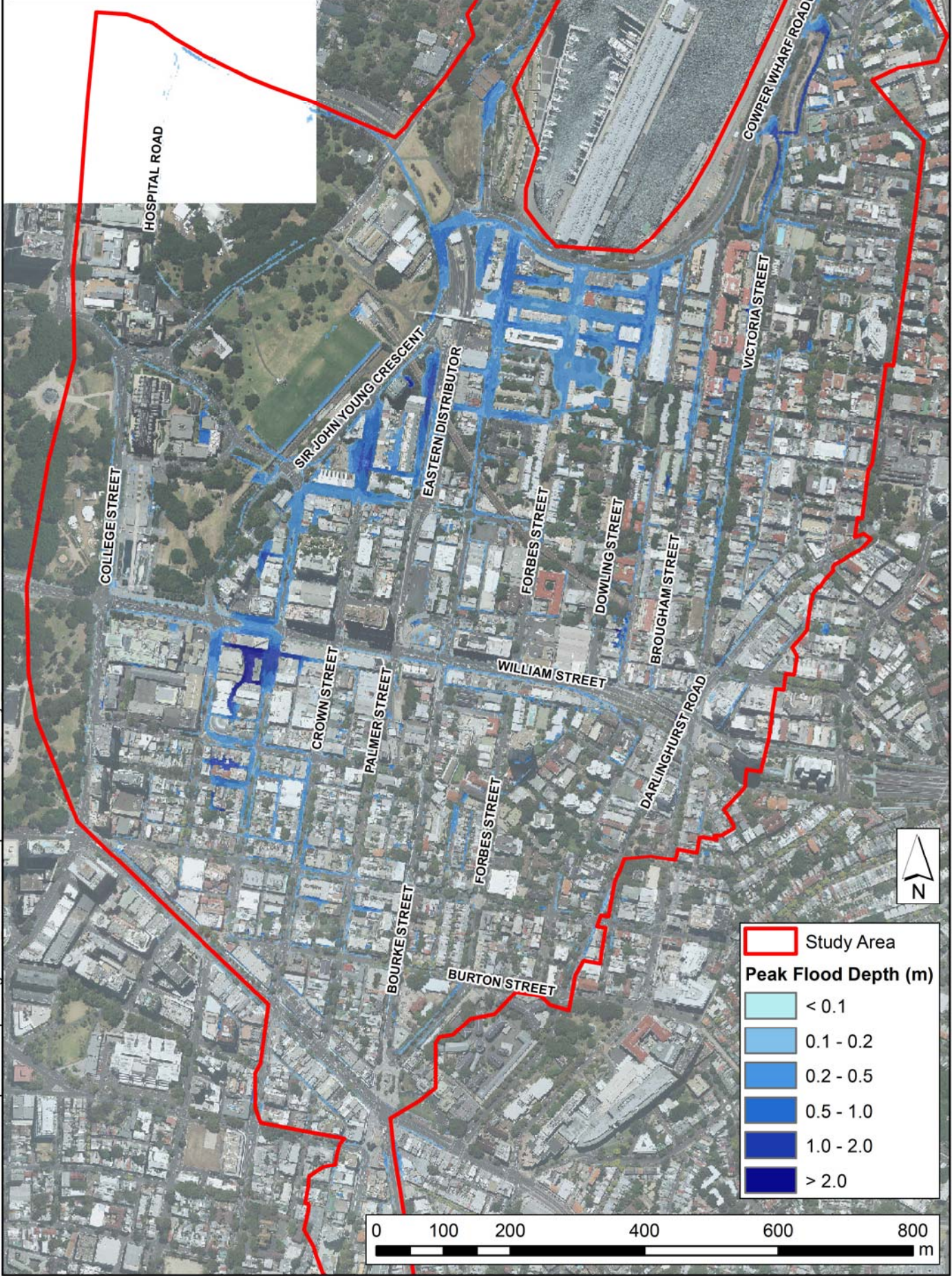


FIGURE 17

**PEAK FLOOD DEPTHS AND LEVELS
50 YEAR ARI**

Note: Tall buildings, road and rail overpasses, vegetation cover, near vertical changes in grade and high density urban development has meant that in some locations ALS cannot accurately define the ground surface (refer Section 3.1). As a result some abnormalities exist in these figures which can only be resolved with extensive and detailed ground survey.



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FIGURE 18

**PEAK FLOOD DEPTHS AND LEVELS
100 YEAR ARI**

Note: Tall buildings, road and rail overpasses, vegetation cover, near vertical changes in grade and high density urban development has meant that in some locations ALS cannot accurately define the ground surface (refer Section 3.1). As a result some abnormalities exist in these figures which can only be resolved with extensive and detailed ground survey.

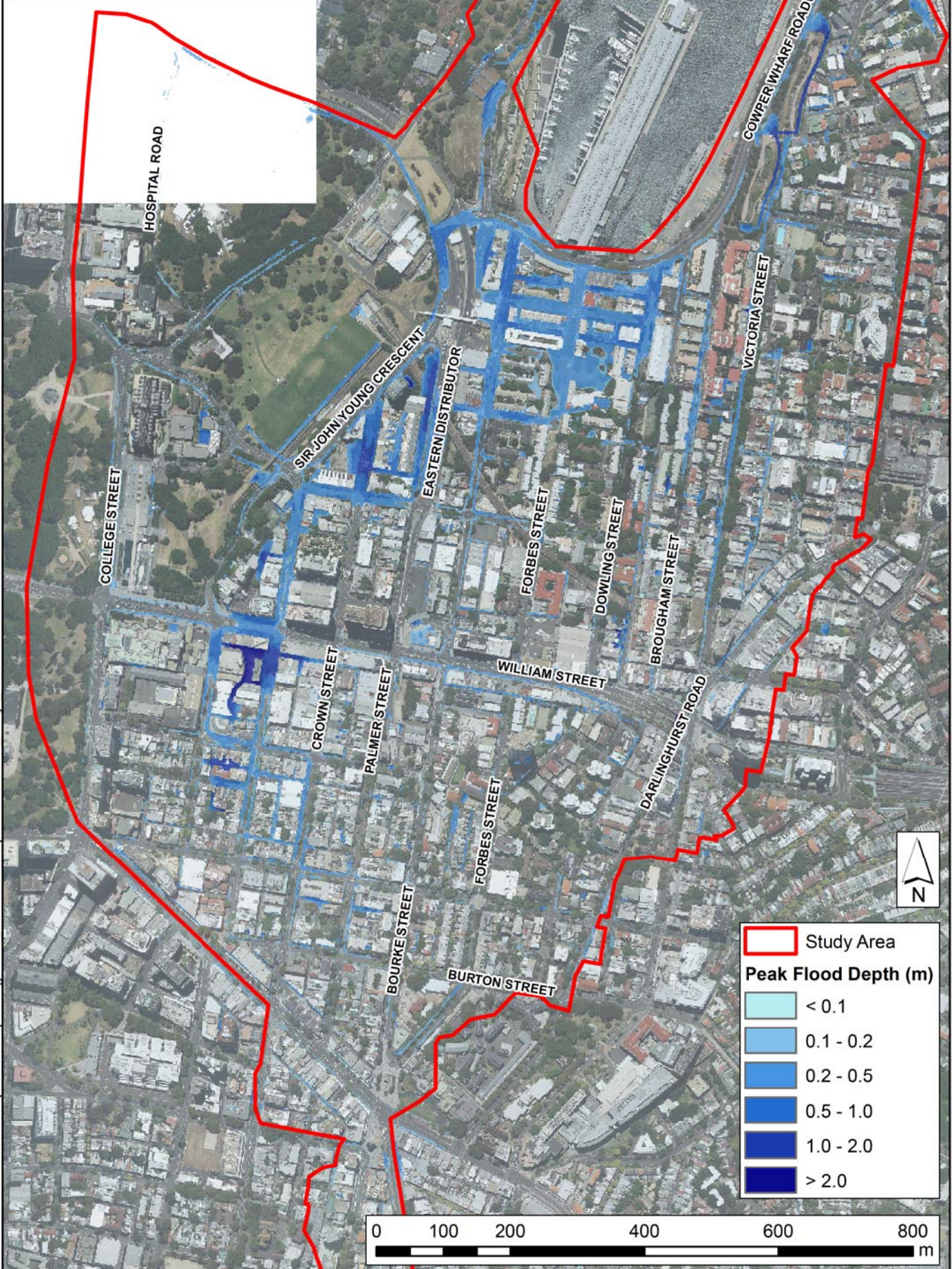


FIGURE 19

**PEAK FLOOD DEPTHS AND LEVELS
PMF EVENT**

Note: Tall buildings, road and rail overpasses, vegetation cover, near vertical changes in grade and high density urban development has meant that in some locations ALS cannot accurately define the ground surface (refer Section 3.1). As a result some abnormalities exist in these figures which can only be resolved with extensive and detailed ground survey.

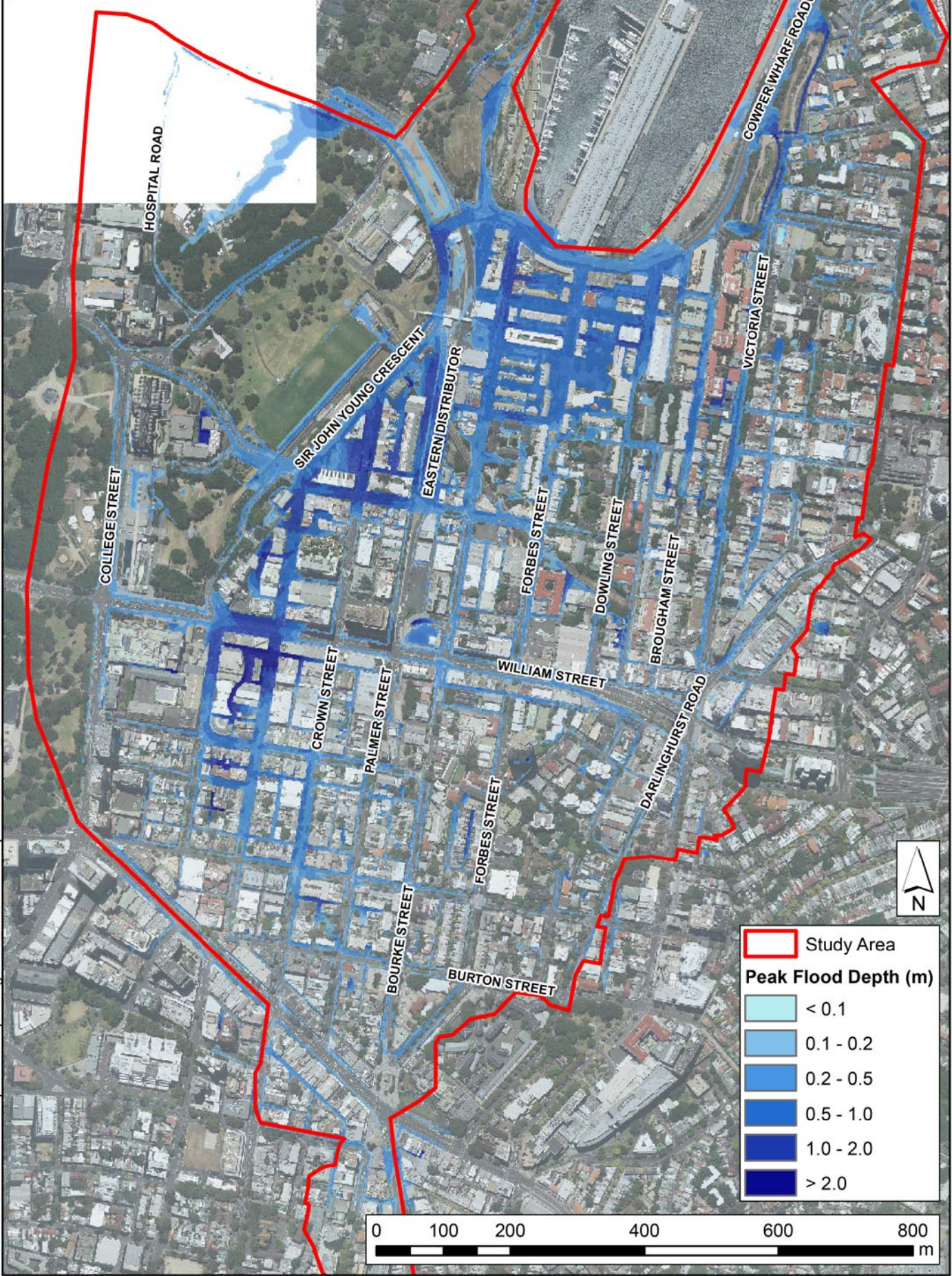


FIGURE 20

**PROVISIONAL HYDRAULIC HAZARD
10 YEAR ARI**

Note: Provisional hydraulic hazard classification has been determined based on appendix L of the NSW Floodplain Development Manual (2005) given velocity and depth. Other factors that contribute to flood risk have not been considered in preparing this figure

