

College, Orth and Werrington Creeks Catchment Floodplain Risk Management Study

Final Report

Volume 2 of 2: Figures

October 2021



Catchment Simulation Solutions

FIGURES

- Figure 1: College, Orth and Werrington Creeks Catchment
- Figure 2: Ground Surface Elevations
- Figure 3: Existing Land Use Zones
- Figure 4: Vulnerable and Critical Facilities
- Figure 5: Environmental and Heritage Constraints

Floodwater Depth Maps

- Figure 6: Floodwater Depths for the 0.5EY Flood
- Figure 7: Floodwater Depths for the 20% AEP Flood
- Figure 8: Floodwater Depths for the 10% AEP Flood
- Figure 9: Floodwater Depths for the 5% AEP Flood
- Figure 10: Floodwater Depths for the 2% AEP Flood
- Figure 11: Floodwater Depths for the 1% AEP Flood
- Figure 12: Floodwater Depths for the 0.5% AEP Flood
- Figure 13: Floodwater Depths for the 0.2% AEP Flood
- Figure 14: Floodwater Depths for the PMF

Floodwater Level Maps

- Figure 15: Floodwater Levels for the 0.5EY Flood
- Figure 16: Floodwater Levels for the 20% AEP Flood
- Figure 17: Floodwater Levels for the 10% AEP Flood
- Figure 18: Floodwater Levels for the 5% AEP Flood
- Figure 19: Floodwater Levels for the 2% AEP Flood
- Figure 20: Floodwater Levels for the 1% AEP Flood

- Figure 21: Floodwater Levels for the 0.5% AEP Flood
- Figure 22: Floodwater Levels for the 0.2% AEP Flood
- Figure 23: Floodwater Levels for the PMF

Floodwater Velocity Maps

- Figure 24: Floodwater Velocities for the 0.5EY Flood
- Figure 25: Floodwater Velocities for the 20% AEP Flood
- Figure 26: Floodwater Velocities for the 10% AEP Flood
- Figure 27: Floodwater Velocities for the 5% AEP Flood
- Figure 28: Floodwater Velocities for the 2% AEP Flood
- Figure 29: Floodwater Velocities for the 1% AEP Flood
- Figure 30: Floodwater Velocities for the 0.5% AEP Flood
- Figure 31: Floodwater Velocities for the 0.2% AEP Flood
- Figure 32: Floodwater Velocities for the PMF

Flood Hazard Maps

- Figure 33: Flood Hazard for the 5% AEP Flood
- Figure 34: Flood Hazard for the 1% AEP Flood
- Figure 35: Flood Hazard for the 0.5% AEP Flood
- Figure 36: Flood Hazard for the 0.2% AEP Flood
- Figure 37: Flood Hazard for the PMF

Hydraulic Category Maps

- Figure 38: Hydraulic Categories for the 5% AEP Flood
- Figure 39: Hydraulic Categories for the 1% AEP Flood
- Figure 40: Hydraulic Categories for the 0.5% AEP Flood

- Figure 41: Hydraulic Categories for the 0.2% AEP Flood
- Figure 42: Hydraulic Categories for the PMF

Emergency Response Precinct Classifications

- Figure 43: Emergency Response Classifications for the 5% AEP Flood
- Figure 44: Emergency Response Classifications for the 1% AEP Flood
- Figure 45: Emergency Response Classifications for the 0.5% AEP Flood
- Figure 46: Emergency Response Classifications for the 0.2% AEP Flood
- Figure 47: Emergency Response Classifications for the PMF

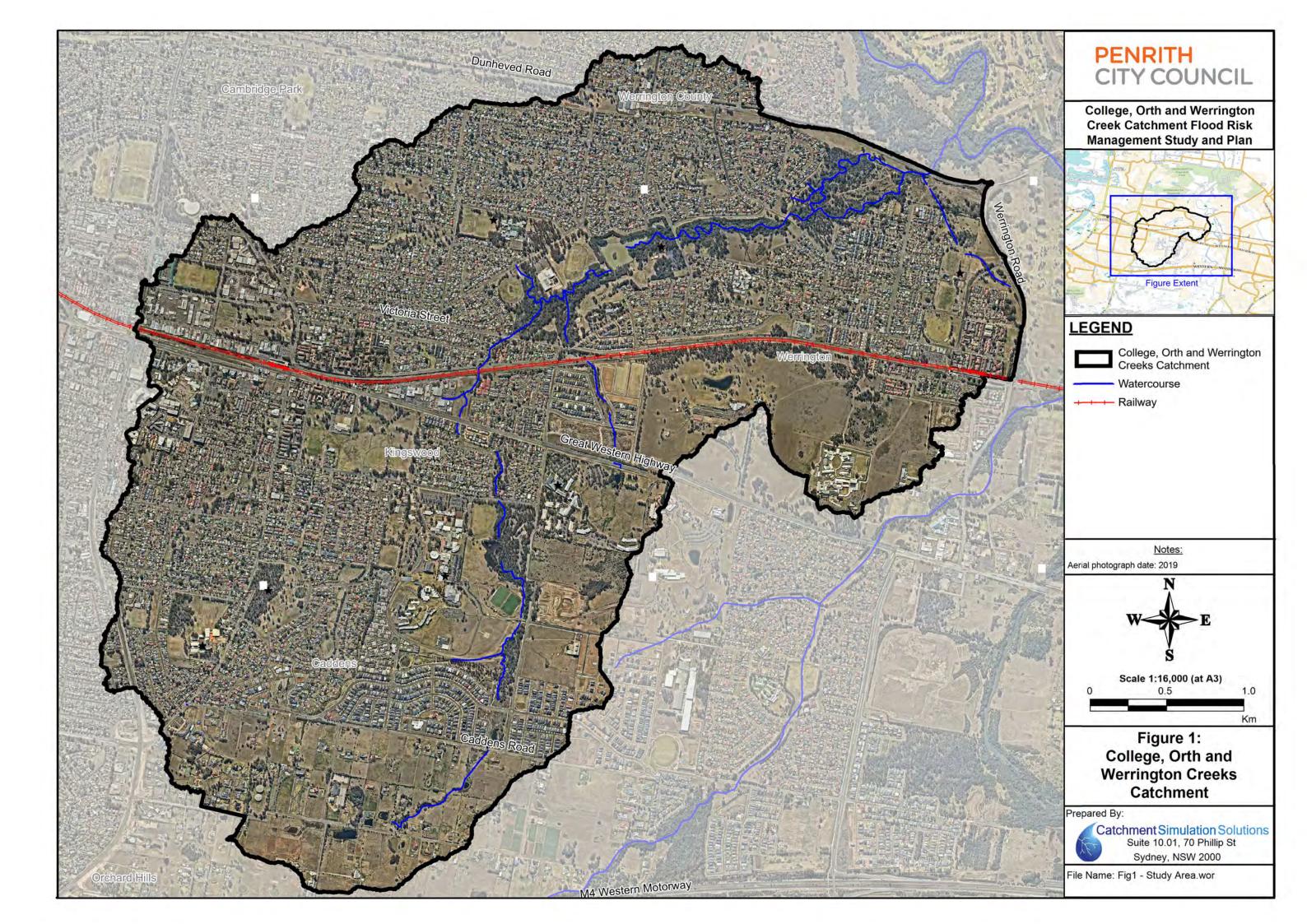
Miscellaneous Maps

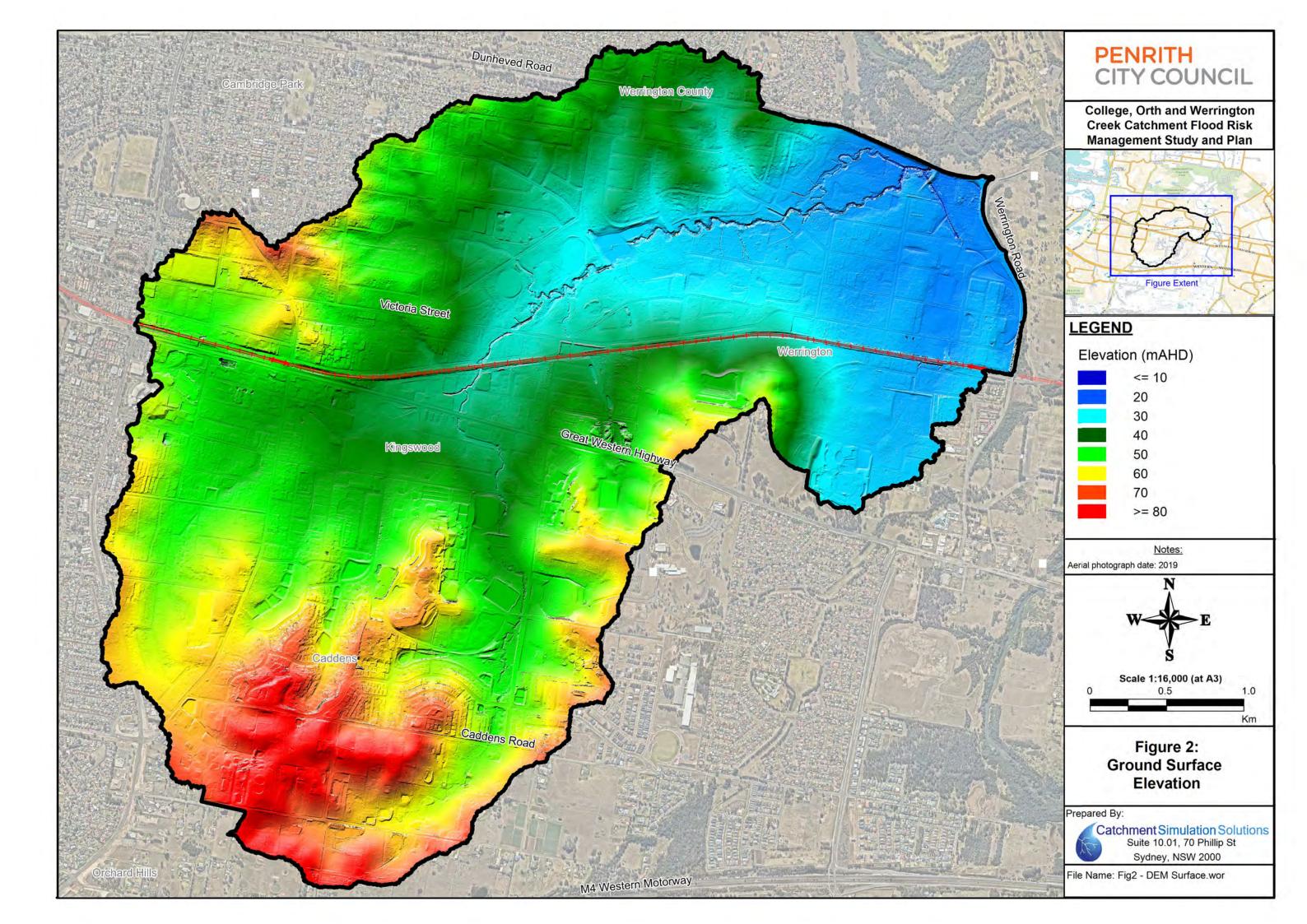
- Figure 48: Frequency of Above Floor Flooding
- Figure 49: Flood Affectation of Vulnerable and Critical Facilities
- Figure 50: Potential Future Catchment Land Use
- Figure 51: Complying Development Areas
- Figure 52: Flood Planning Area
- Figure 53: Land Use Zones with 1%AEP National Hazards
- Figure 54: Land Use Zones with PMF National Hazards
- Figure 55: Flood Planning Constraints Mapping
- Figure 56: Flood Planning Constraints Mapping with Land Use Zones

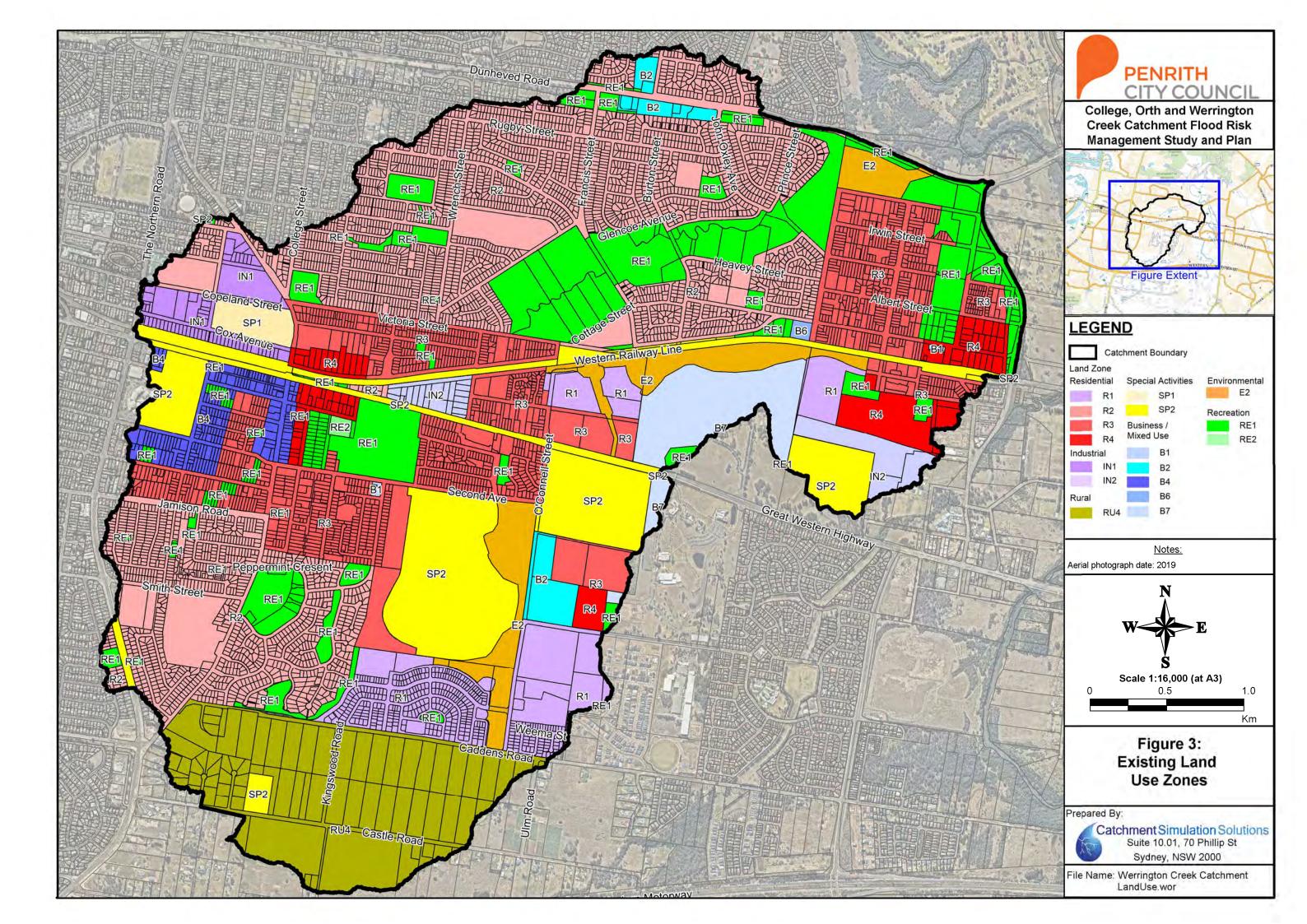
Preliminary Concept Designs for Flood Risk Management Options

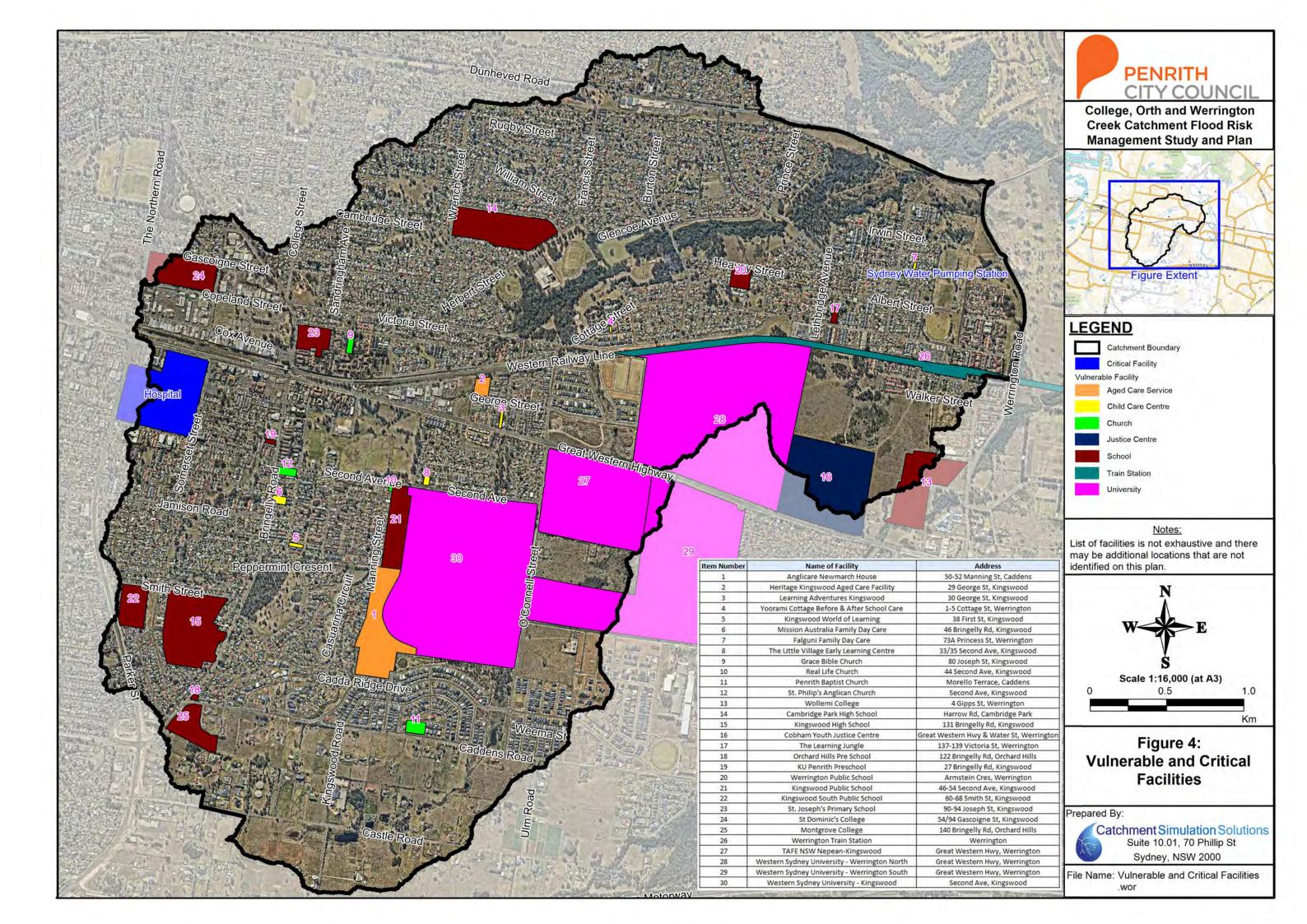
- Figure 57: Location of Flood Modification Options
- Figure 58: FM1: Chapman Gardens Basin Augmentation
- Figure 59: FM2: Great Western Highway Basin Augmentation
- Figure 60: FM3: Lincoln Drive Park Levee Installation
- Catchment Simulation Solutions

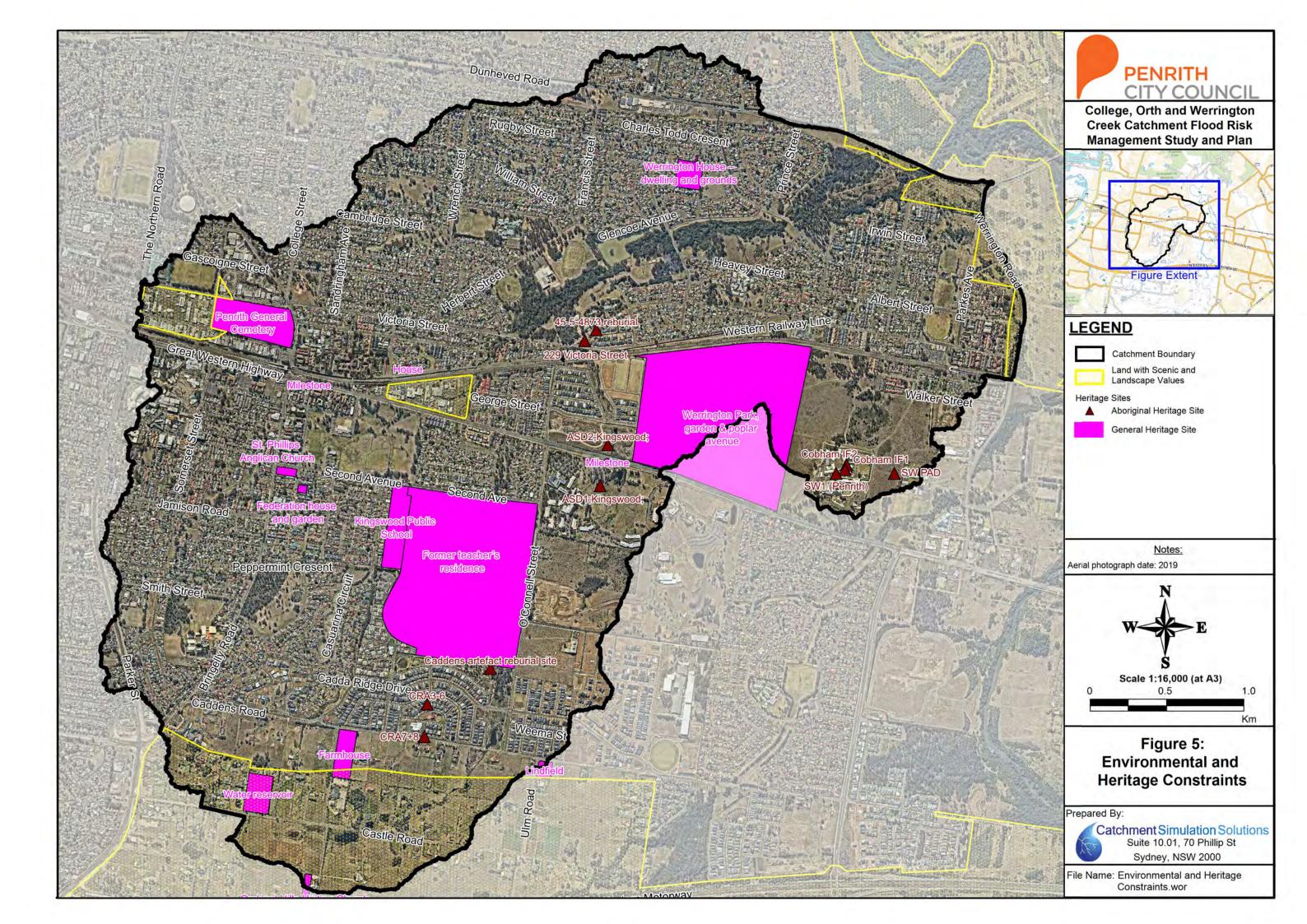
- Figure 61: FM4: Stafford Street Basin Augmentation
- Figure 62: FM5: Jamison Road Basin Modifications
- Figure 63: FM6: Victoria Street Culvert Upgrade
- Figure 64: FM7: Great Western Highway Culvert Upgrade
- Figure 65: FM8: Werrington Creek Railway Culvert Upgrade
- Figure 66: FM9: Werrington Creek Railway Culvert Upgrade
- Figure 67: FM10: Werrington Railway Station Culvert Upgrade
- Figure 68: FM11: Dunkley Place Stormwater Upgrades
- Figure 69: FM12: Orleton Place to Francis Street Stormwater Upgrades
- Figure 70: FM13: Rugby Street to William Street Stormwater Upgrades
- Figure 71: FM14: Victoria Street to Joseph Street Stormwater Upgrades
- Figure 72: FM16: Stapley Street to Bringelly Road Stormwater Upgrades
- Figure 73: FM17: College Creek and Orth Creek Channel Enlargement
- Figure 74: FM18: Great Western Highway Median Modification

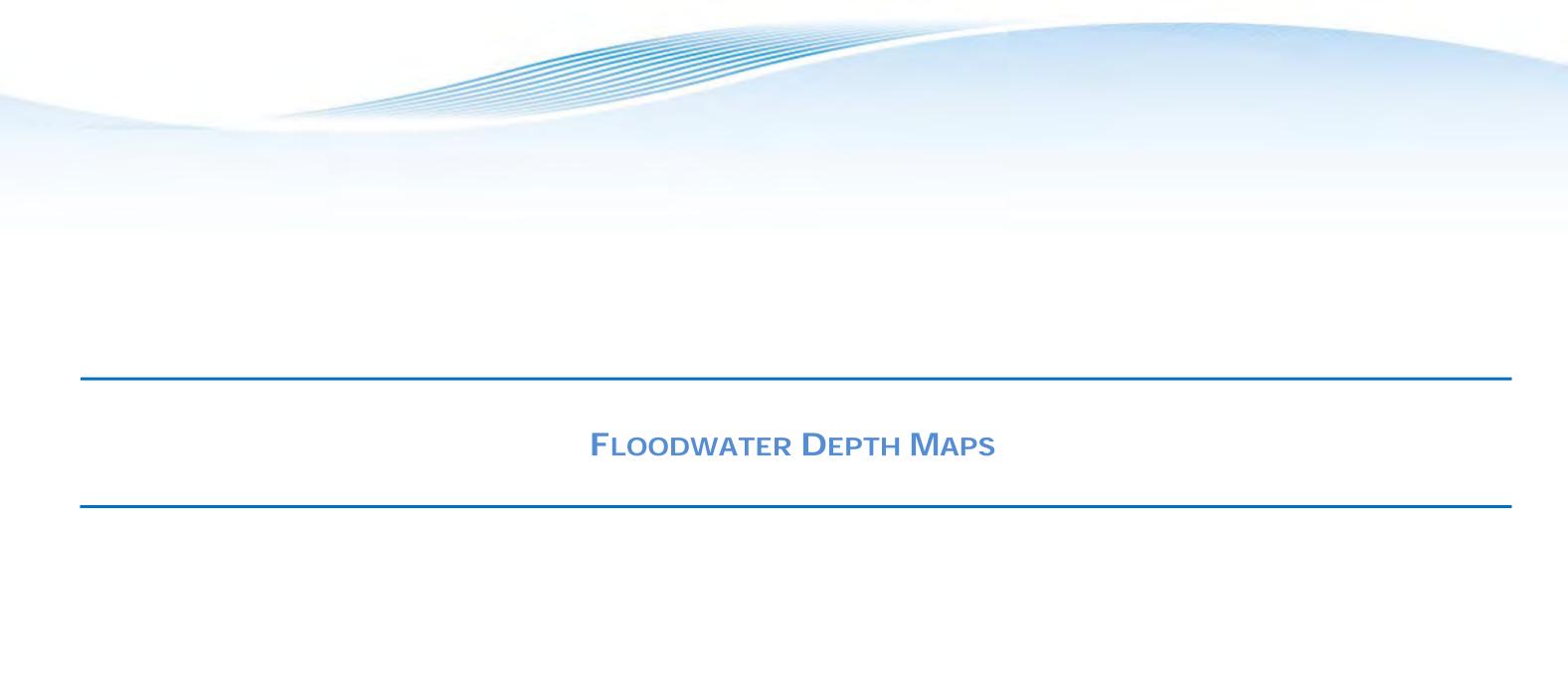


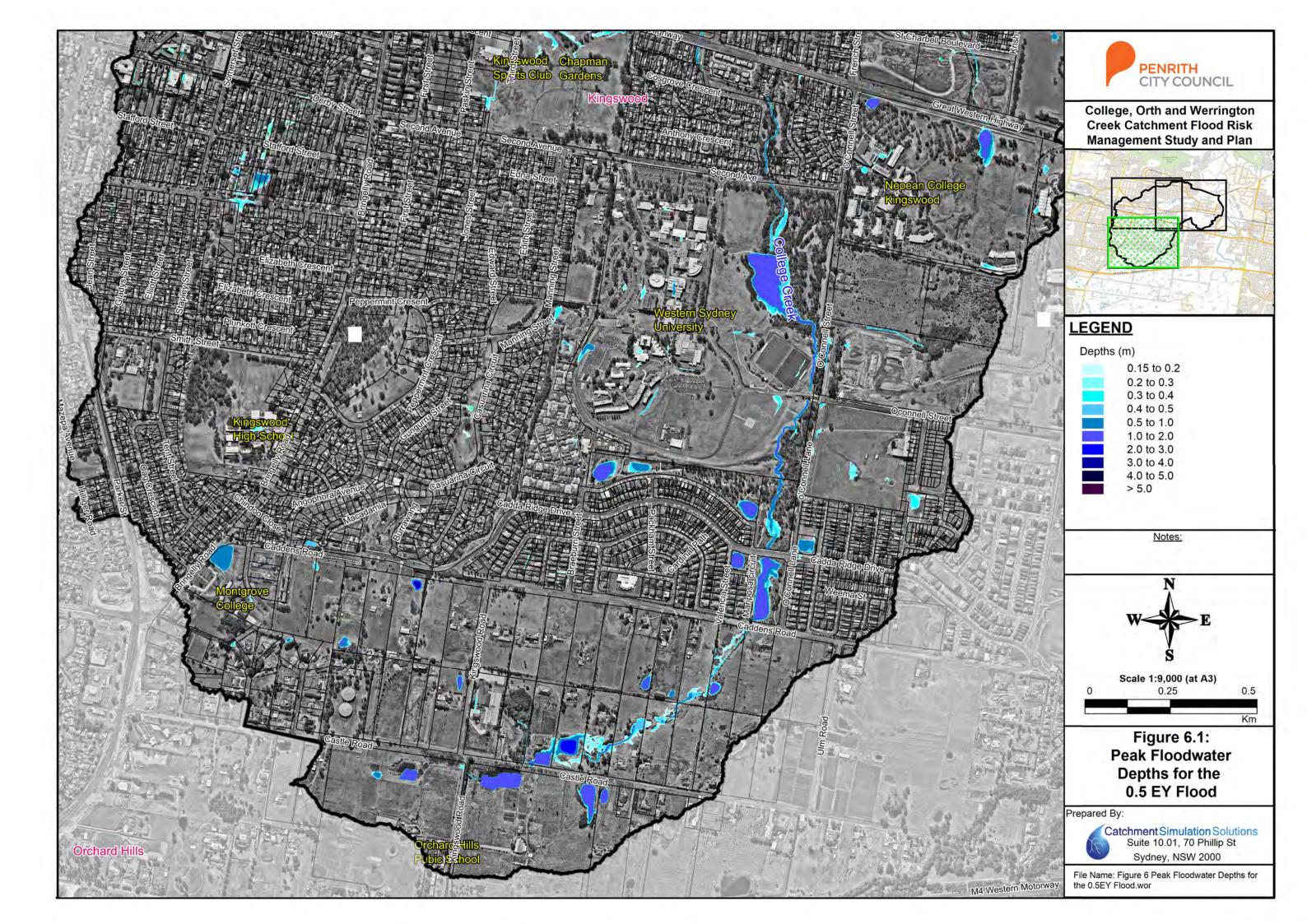


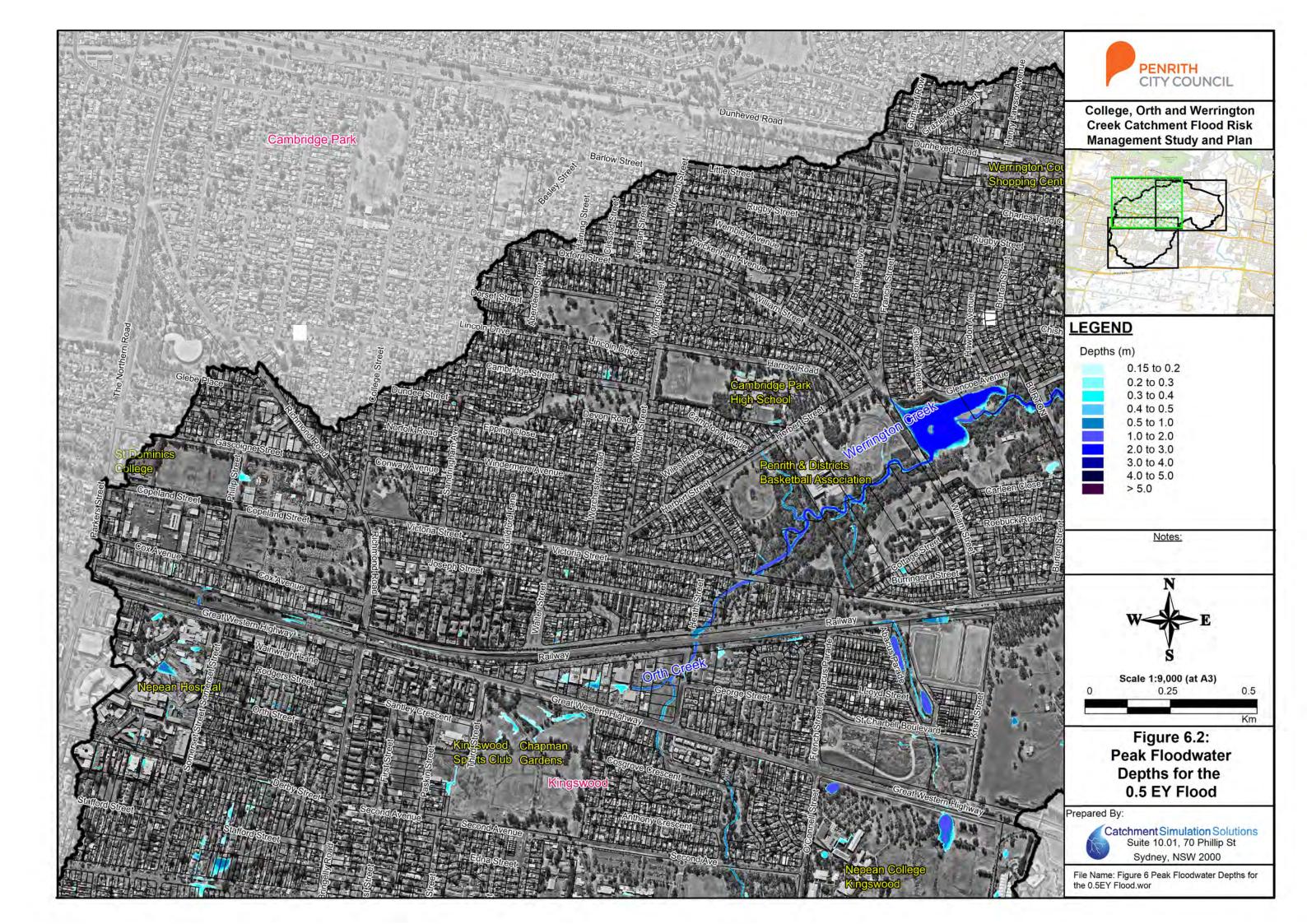


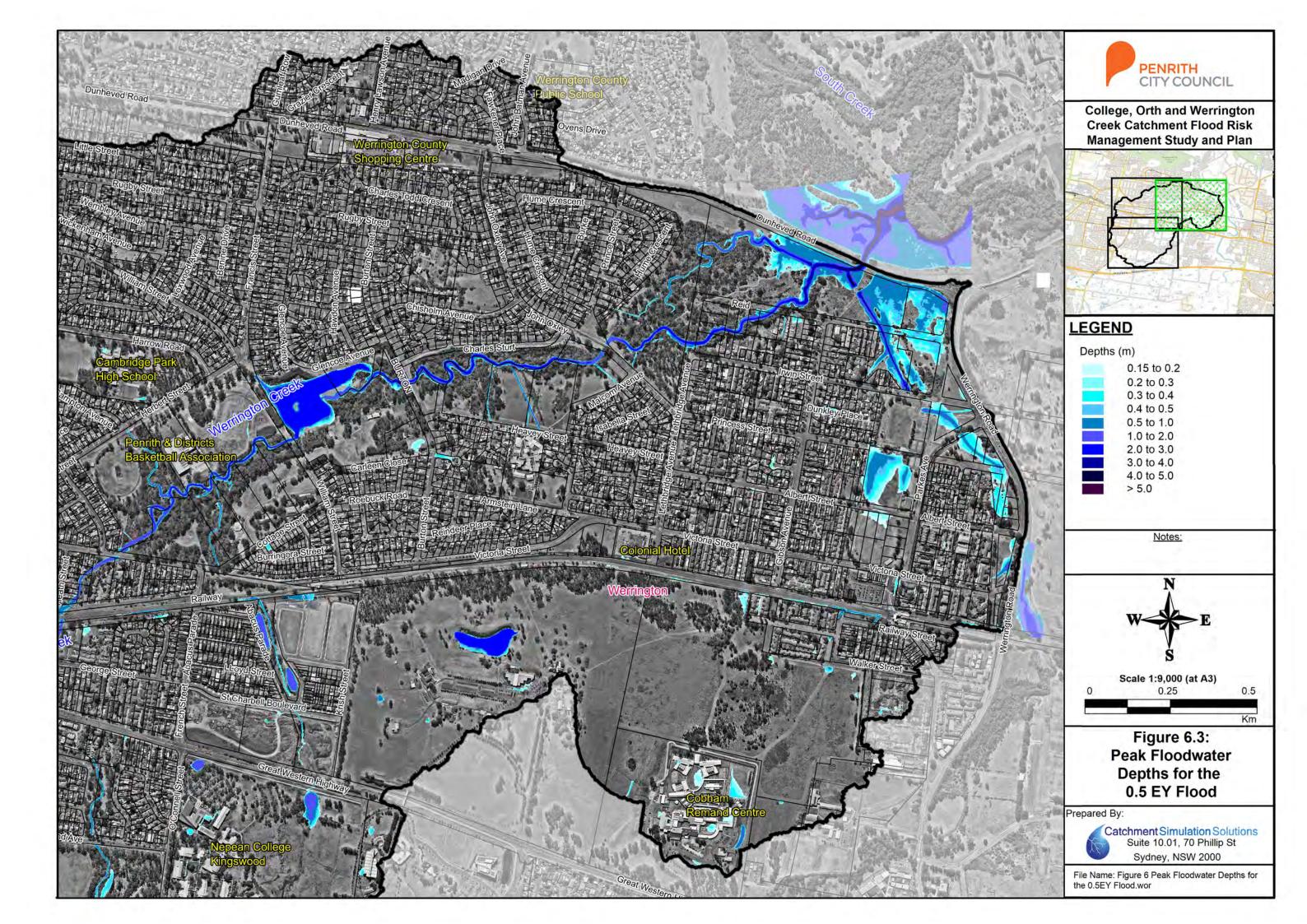


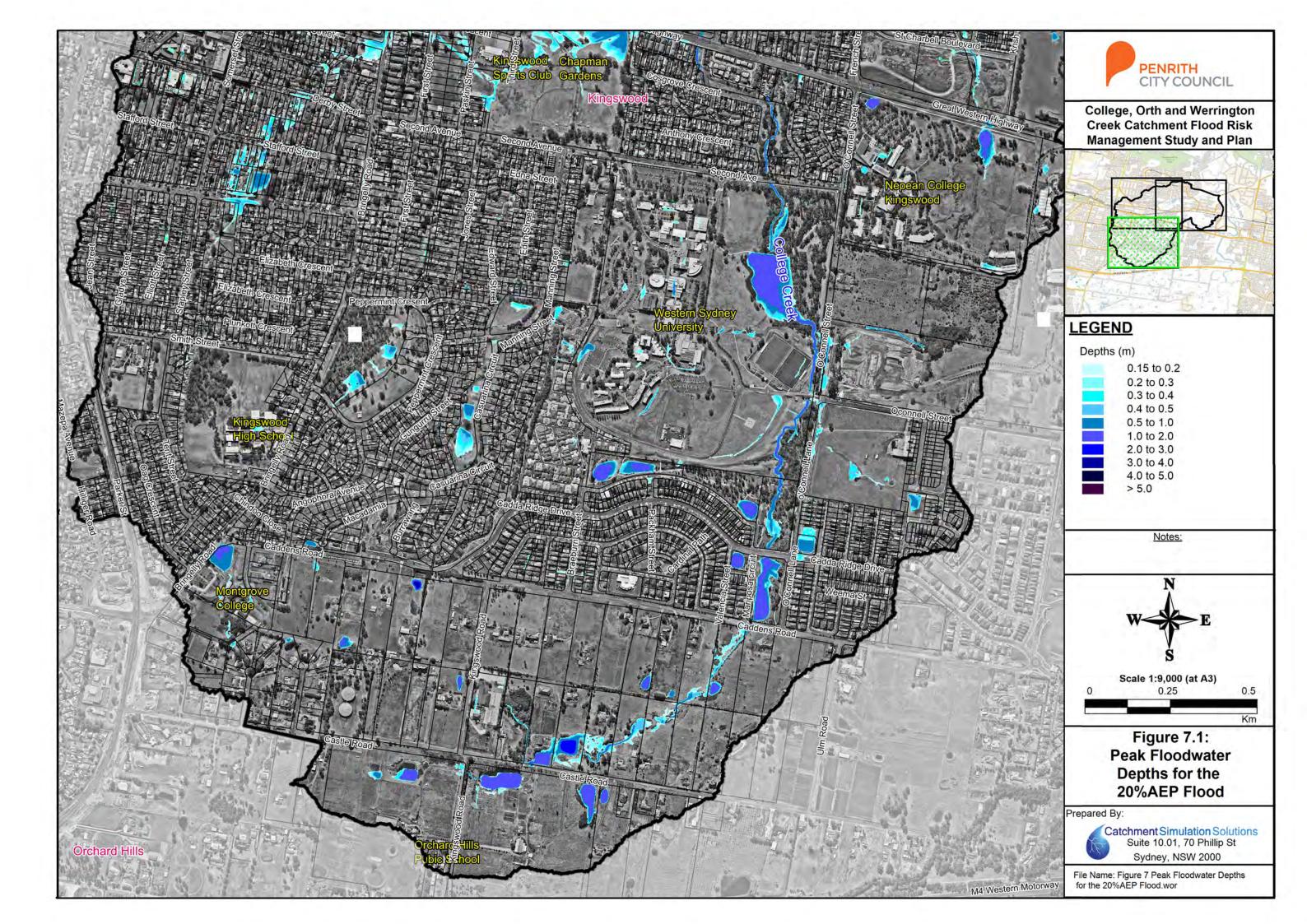


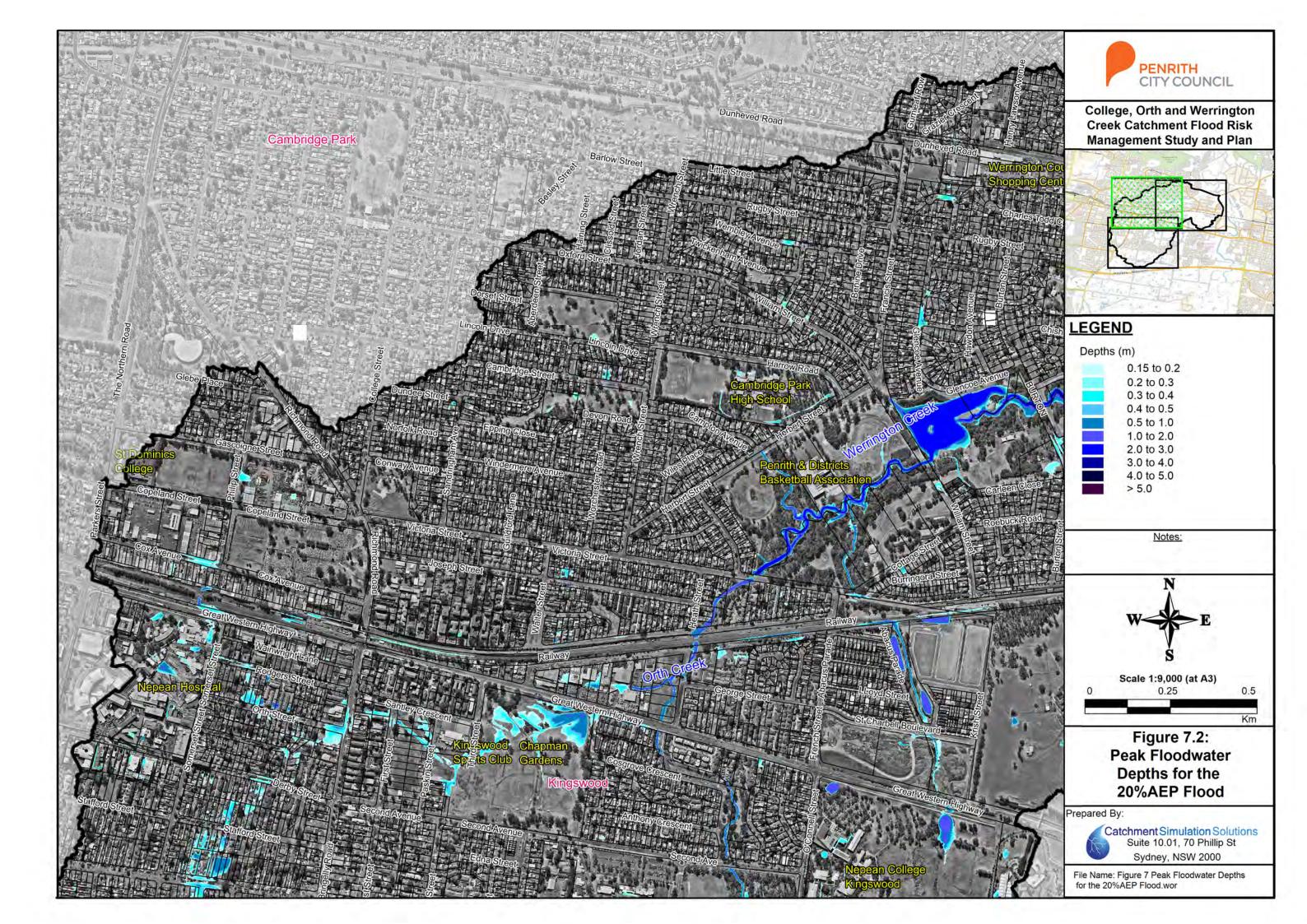


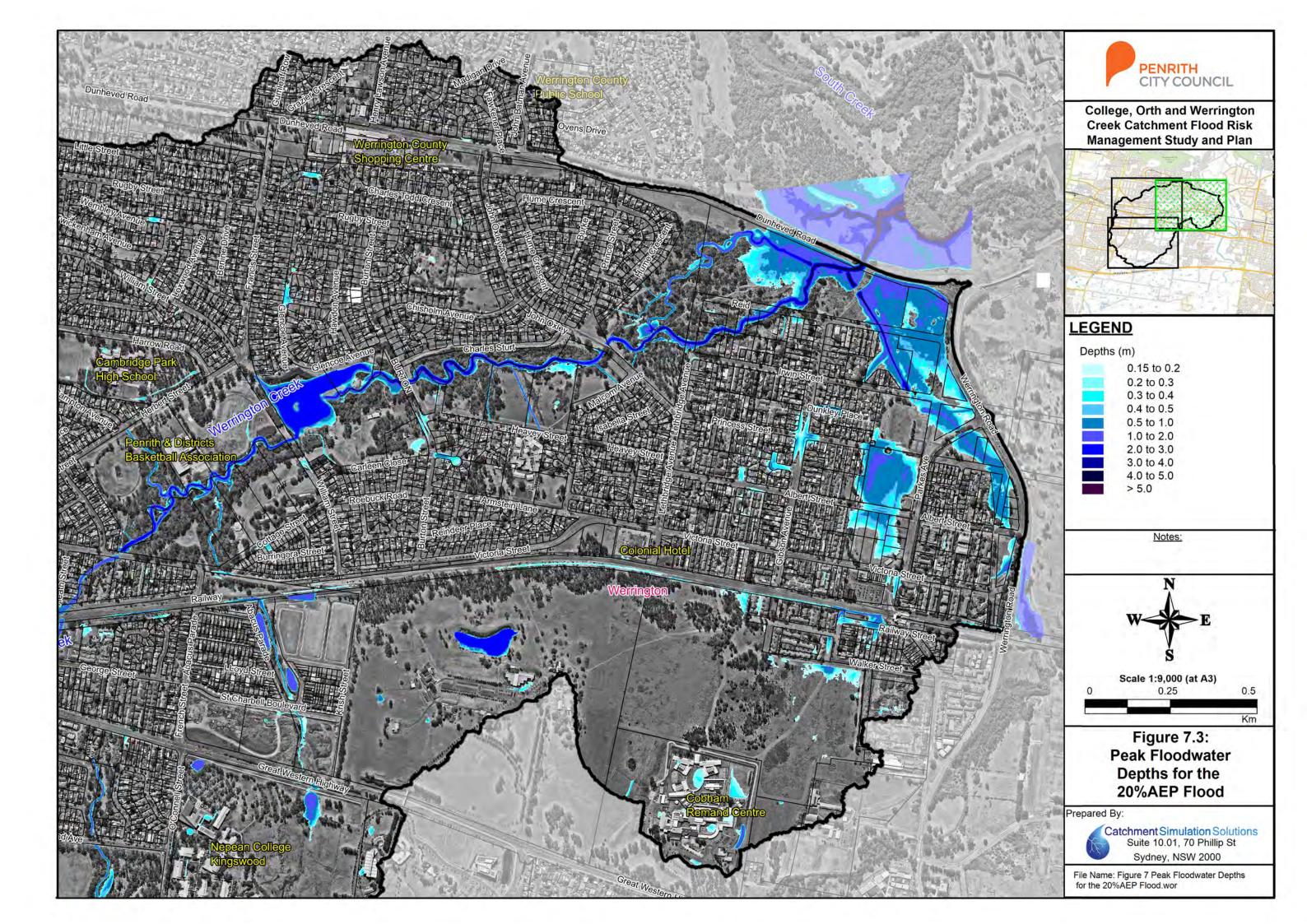


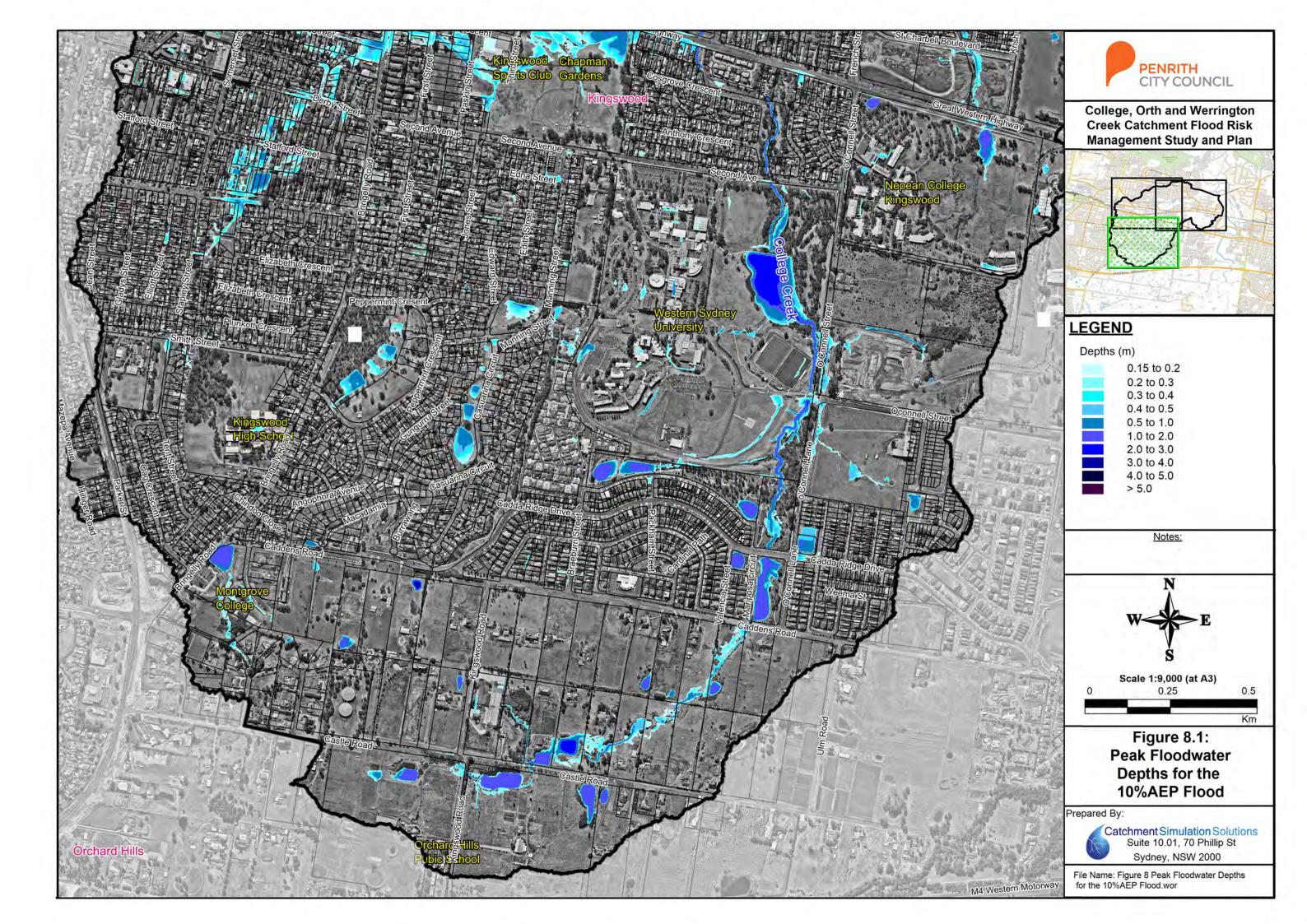


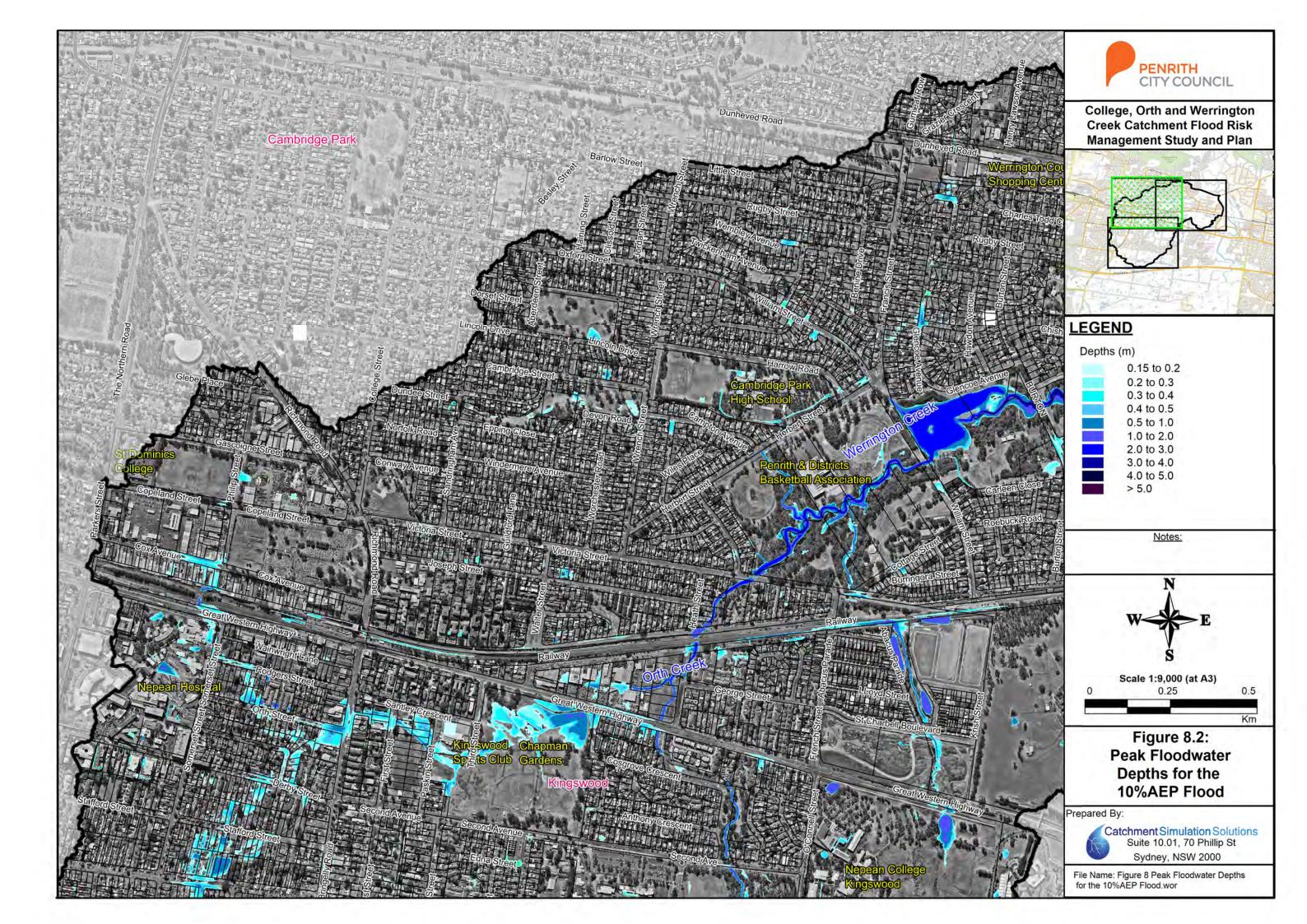


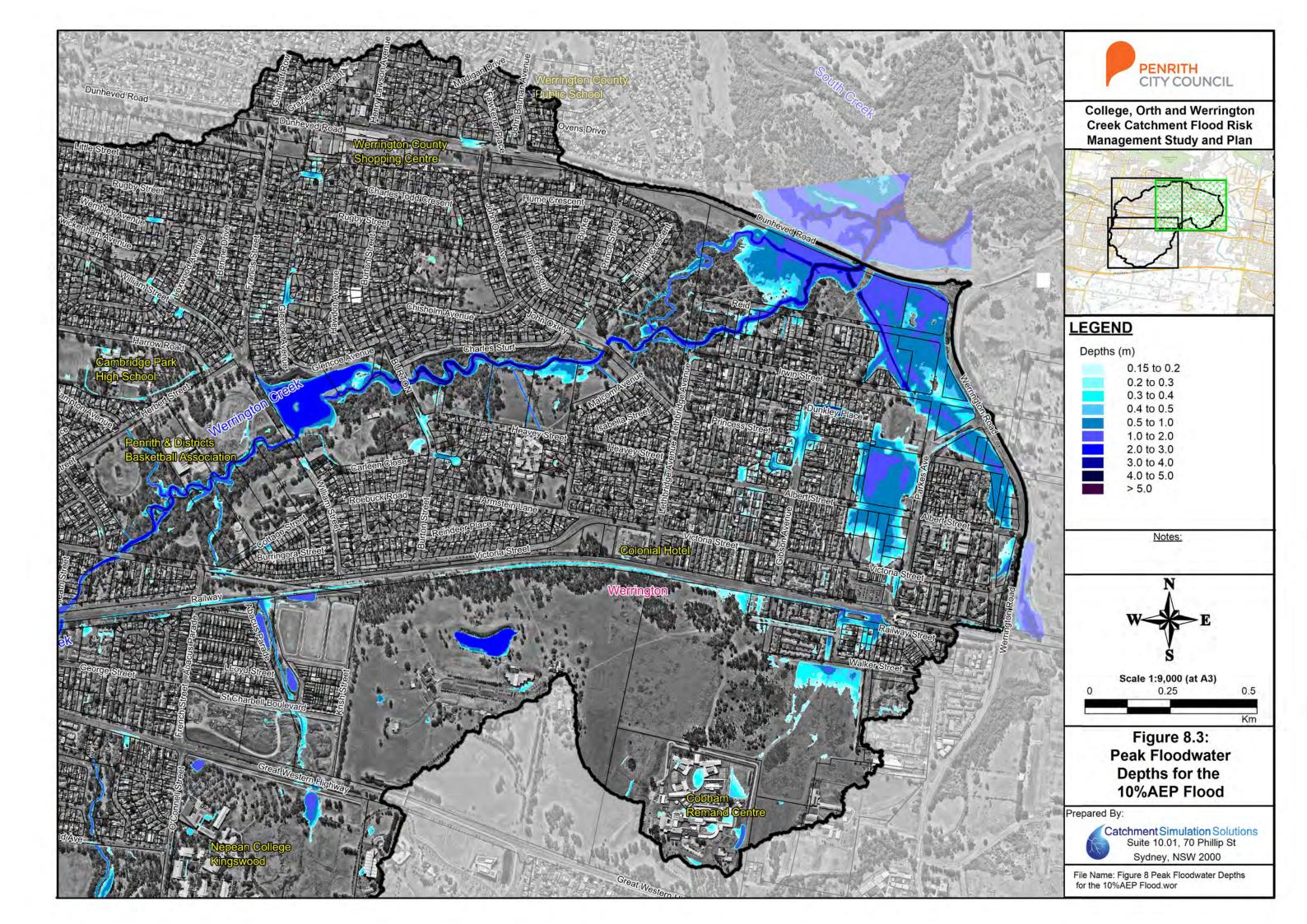


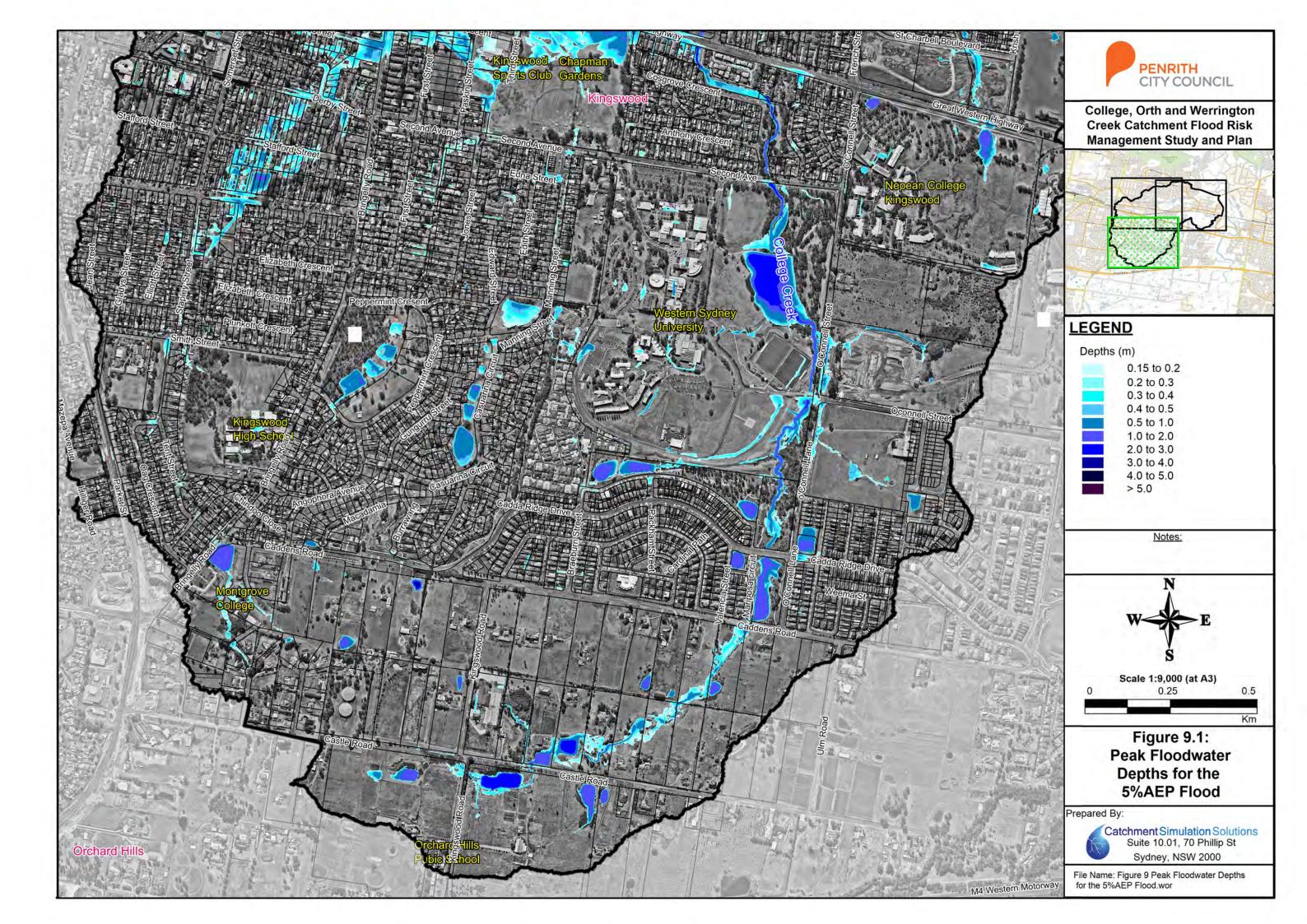


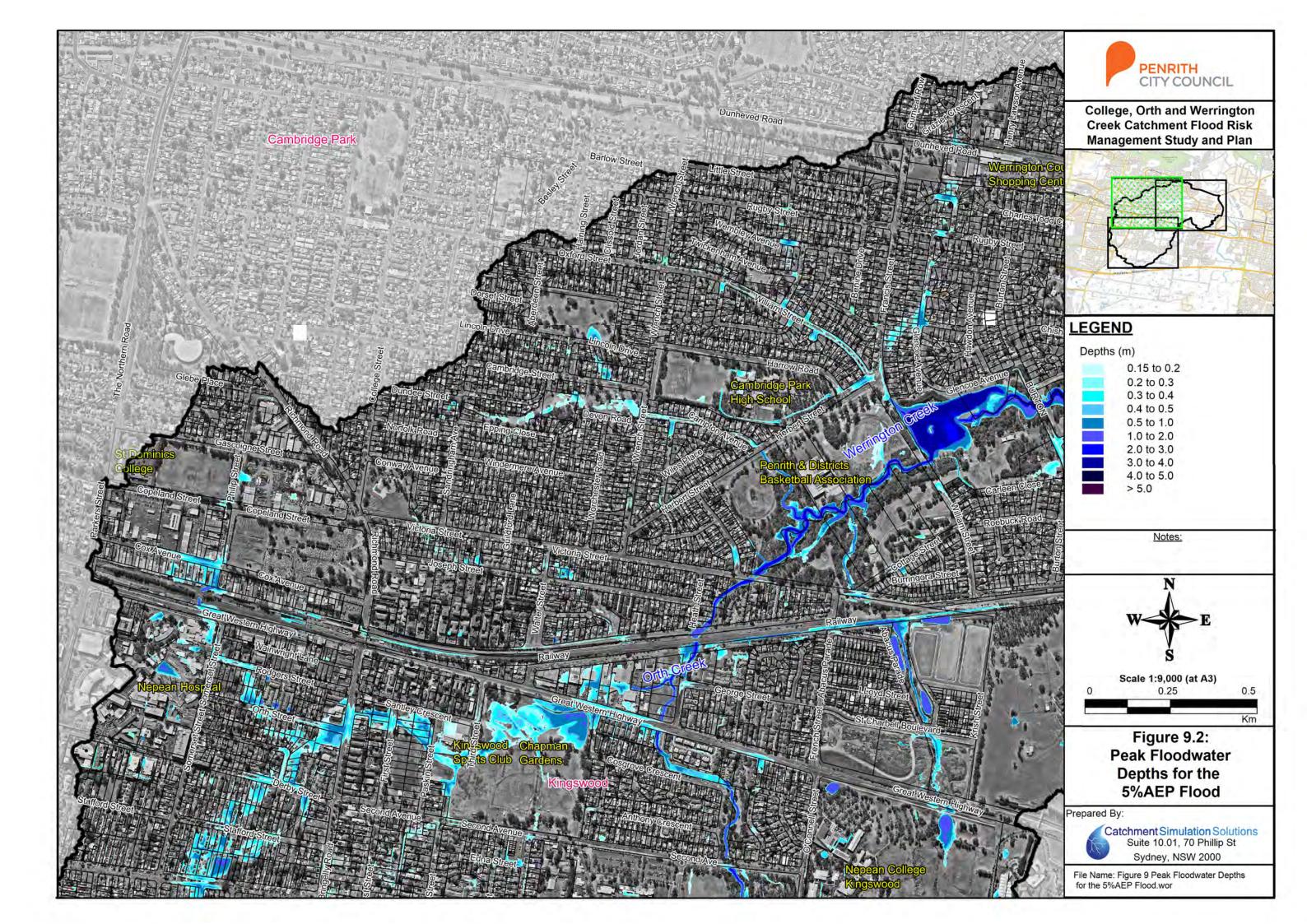


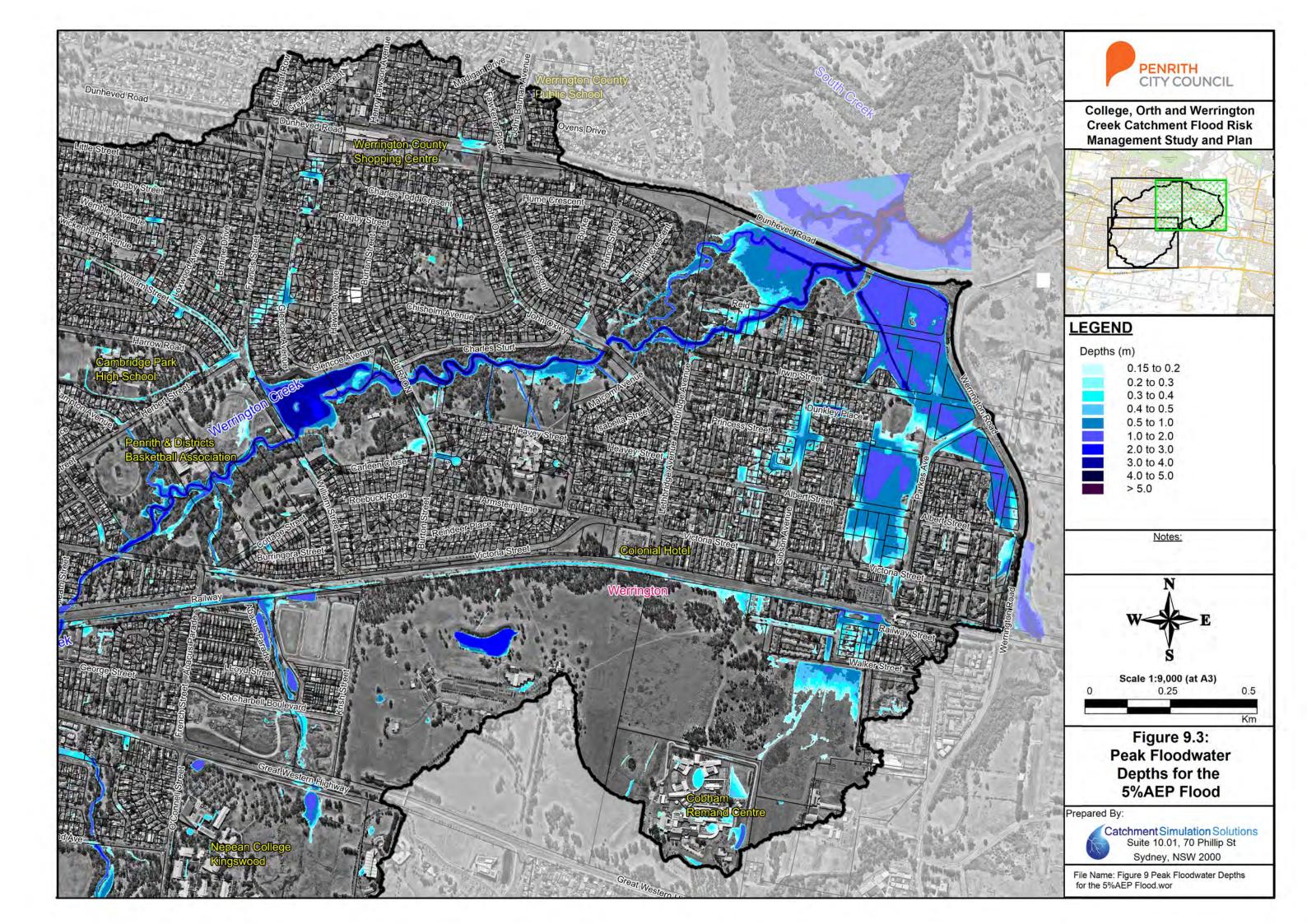


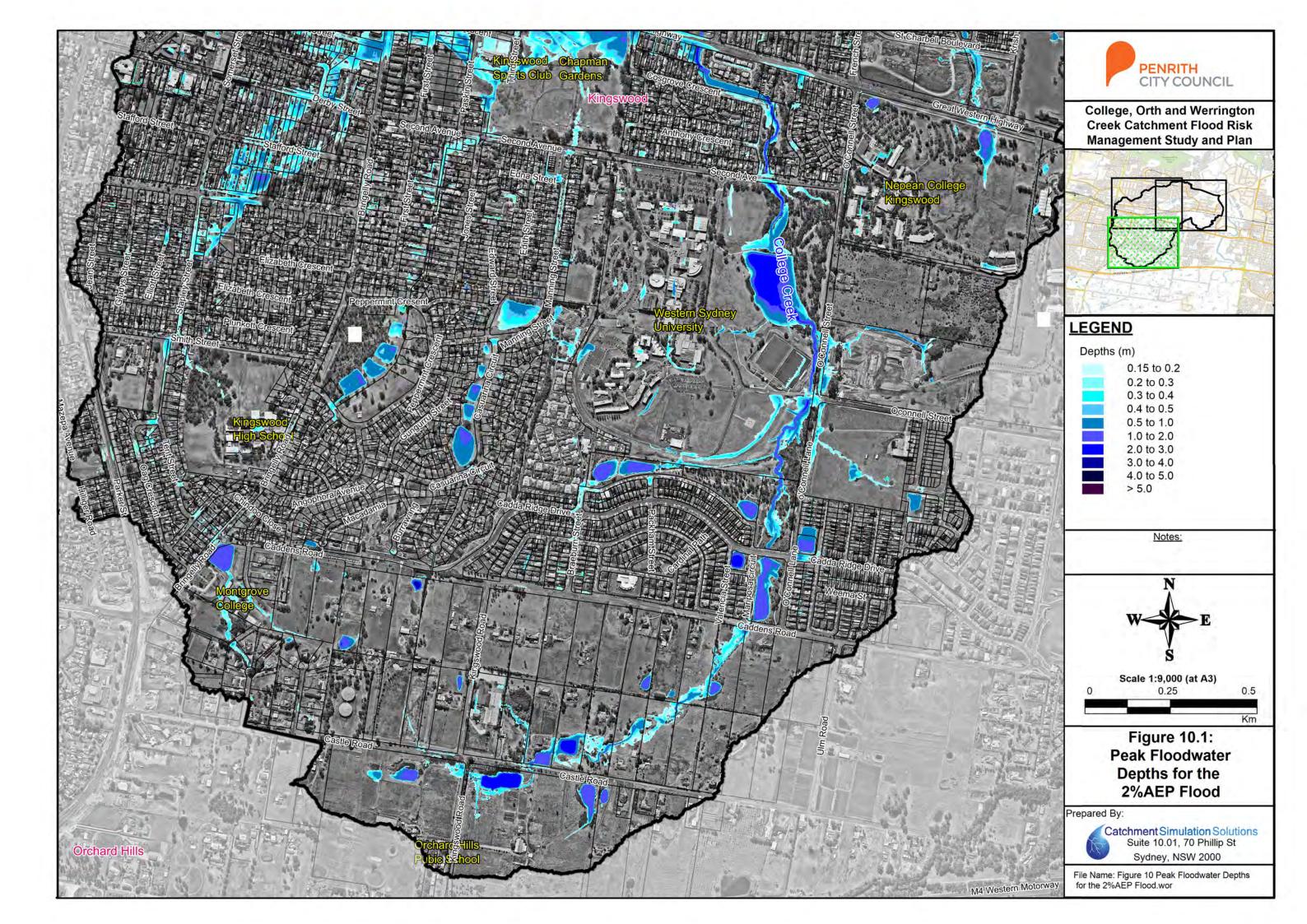


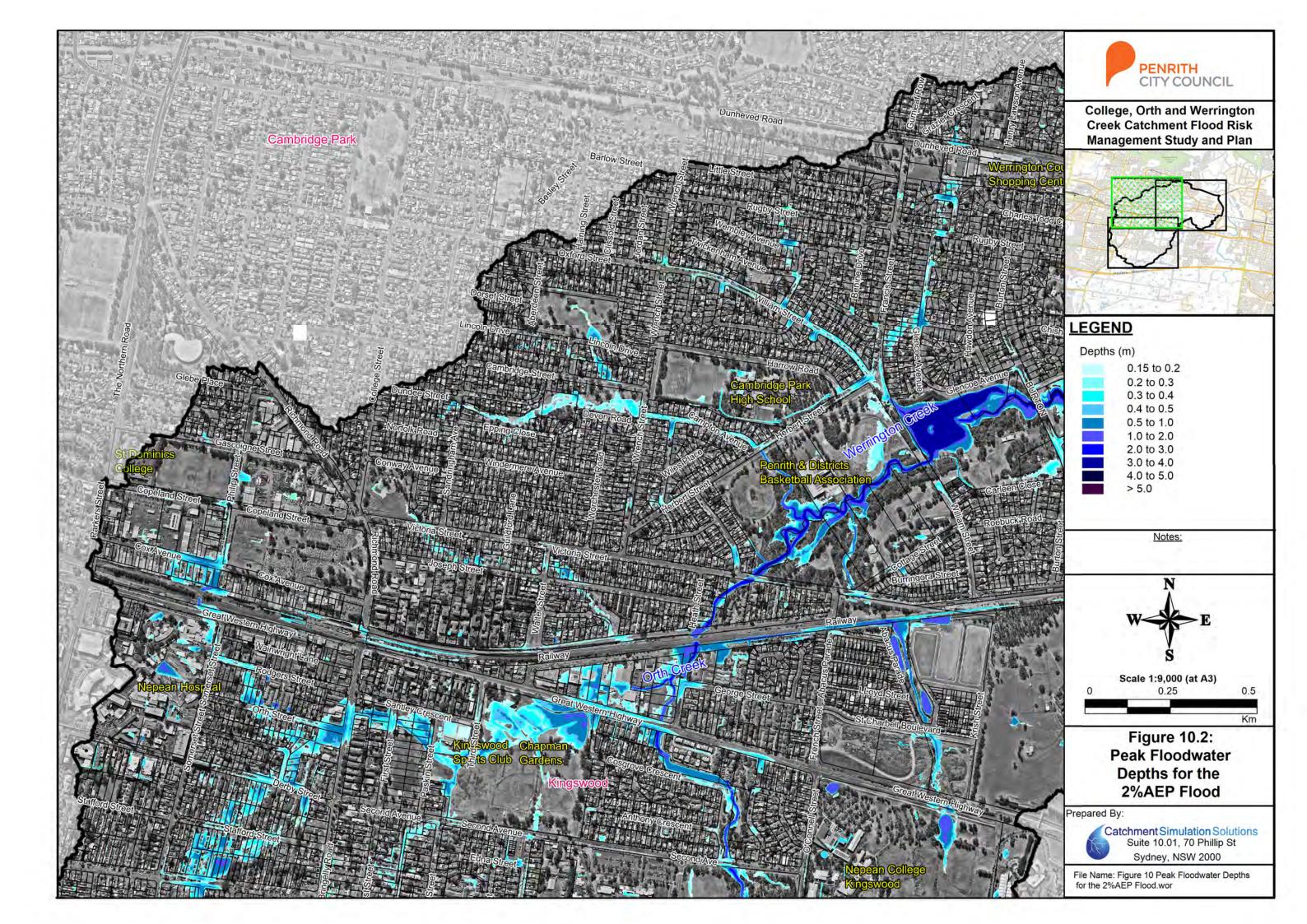


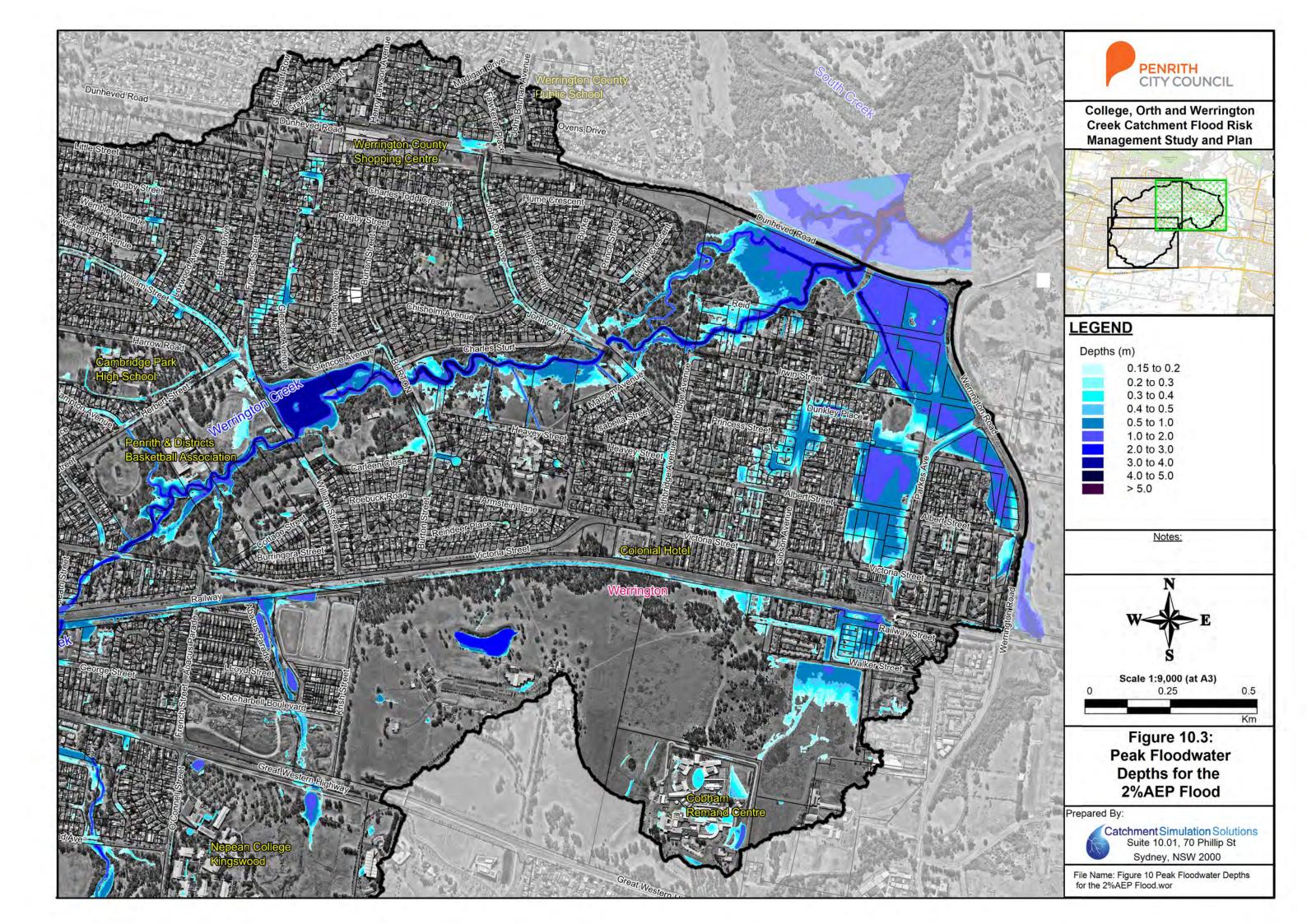


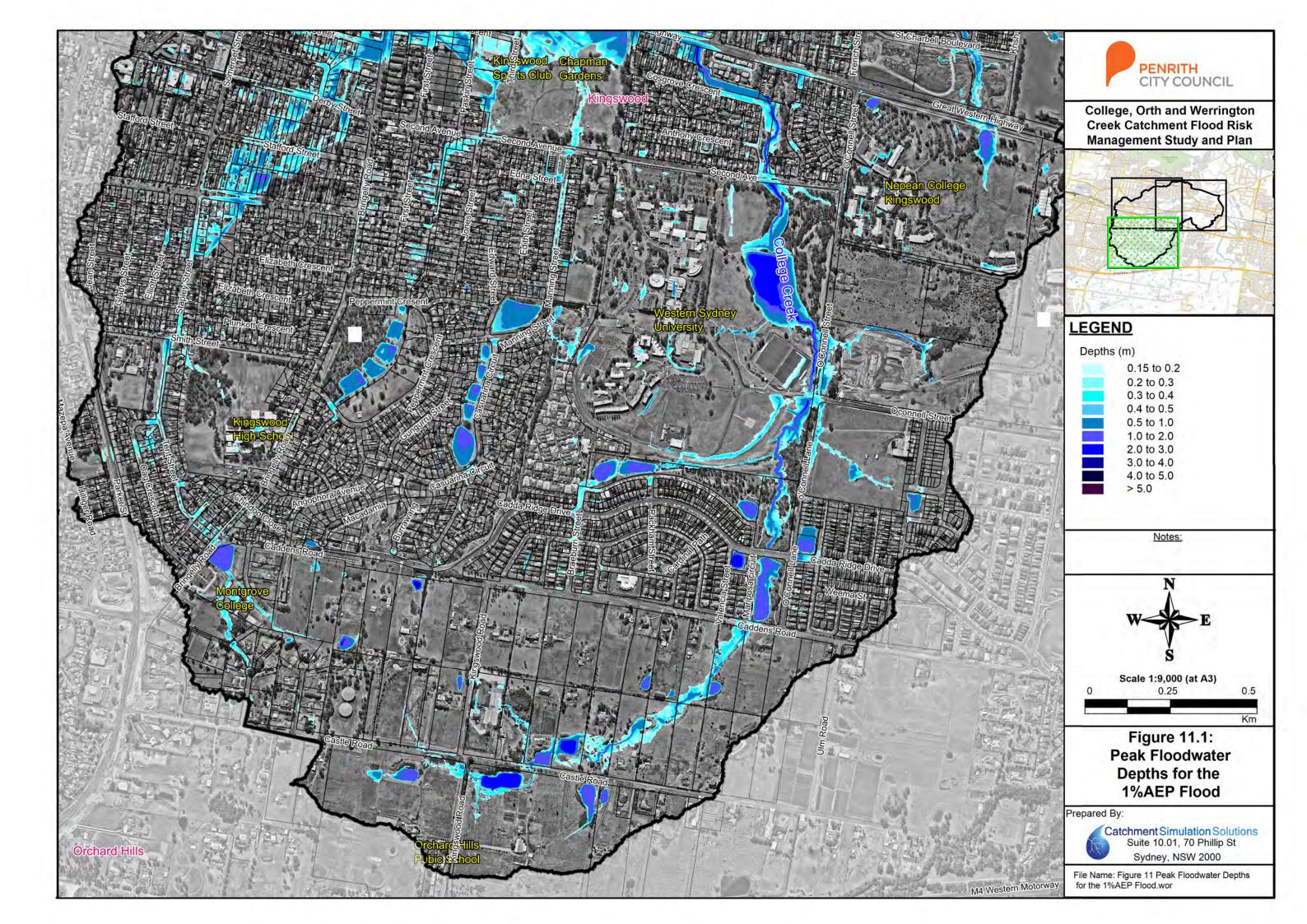


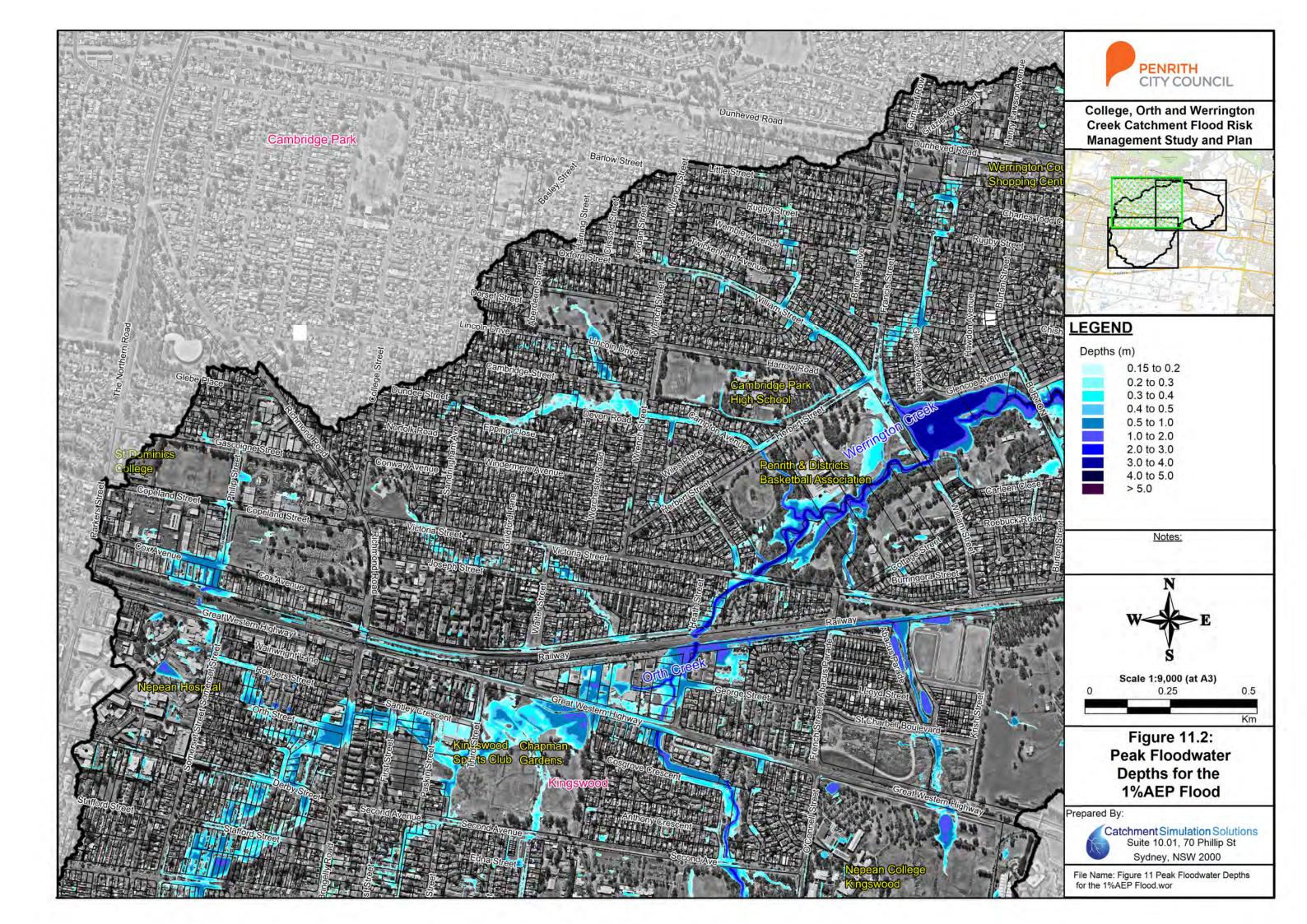


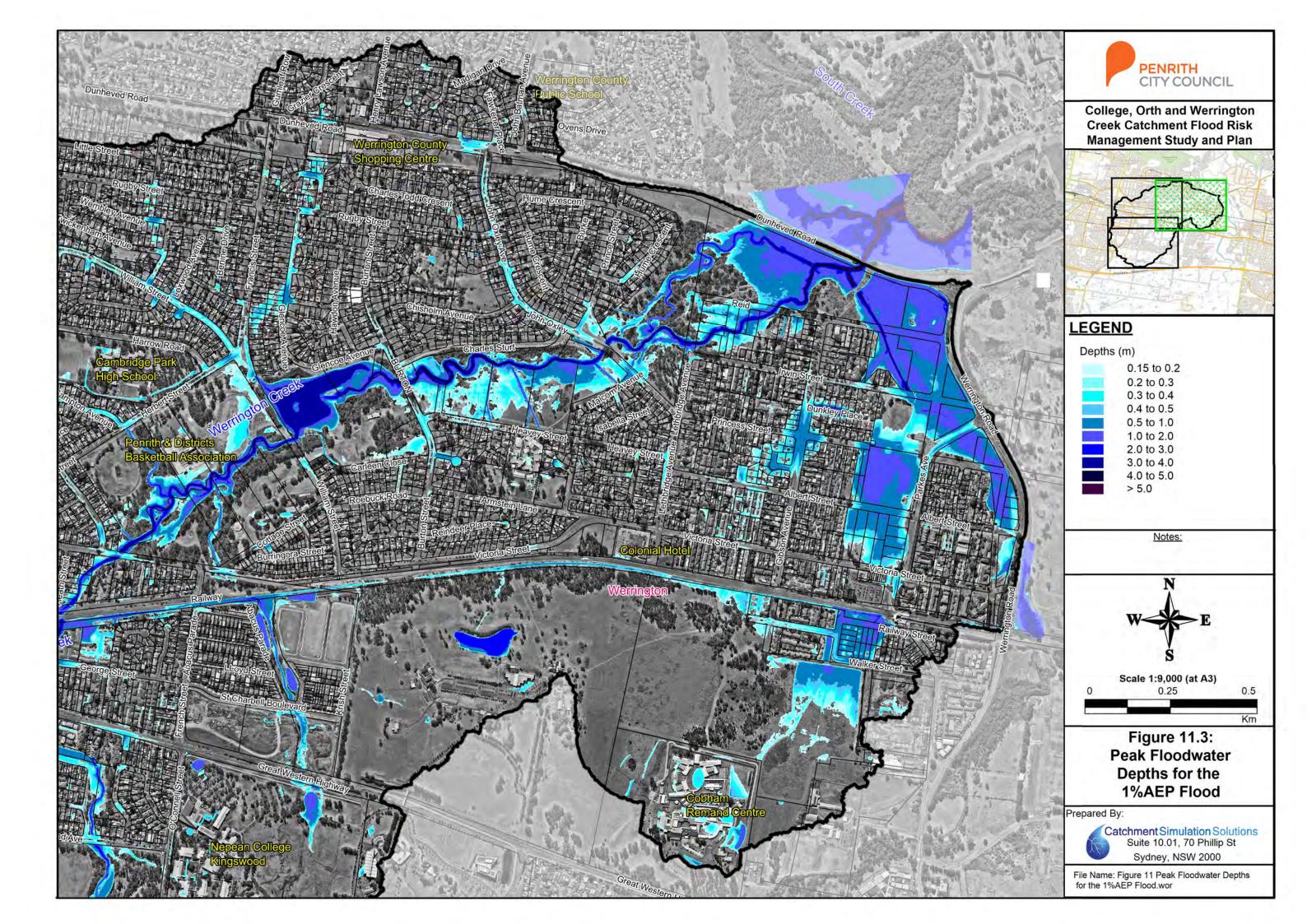


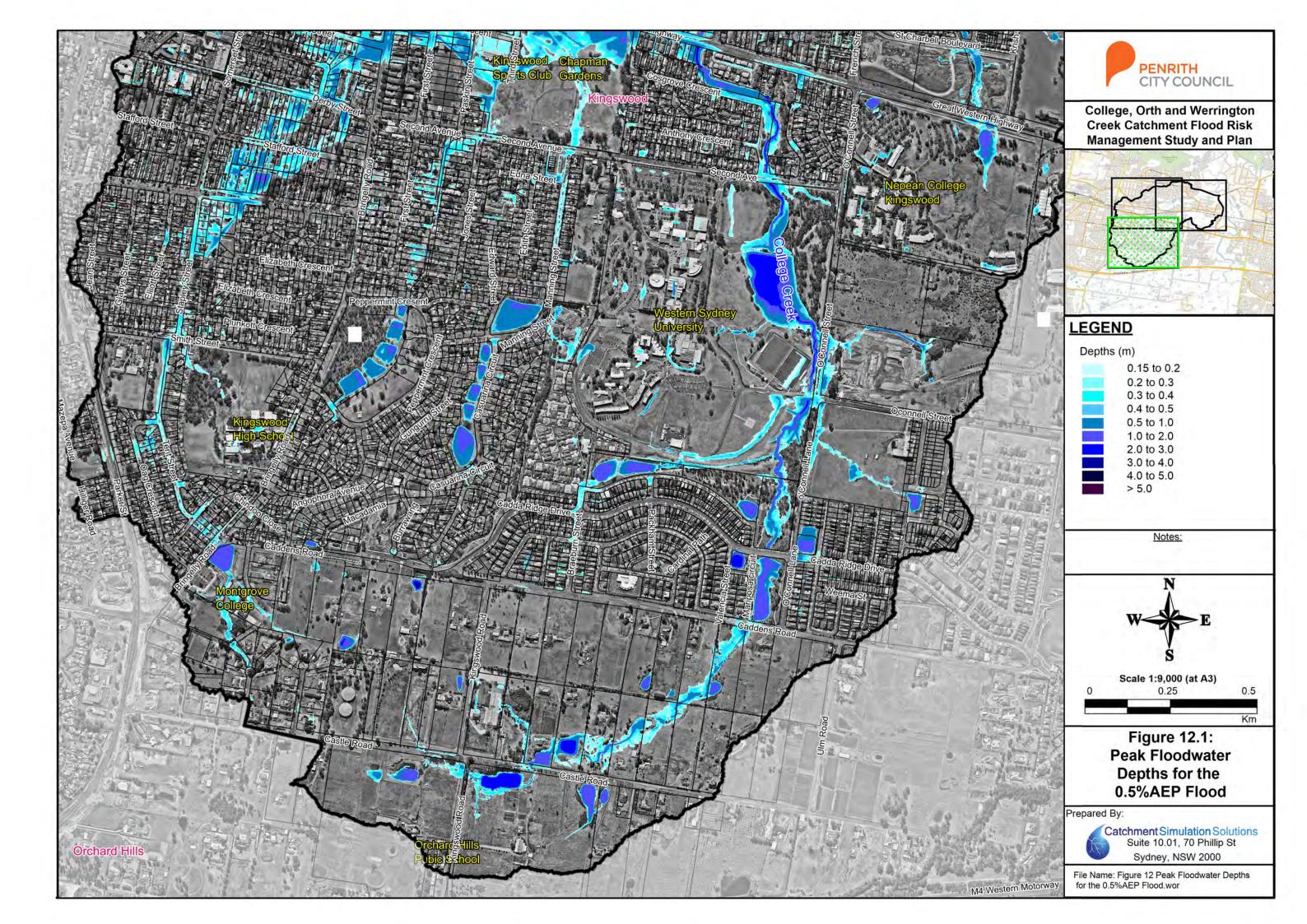


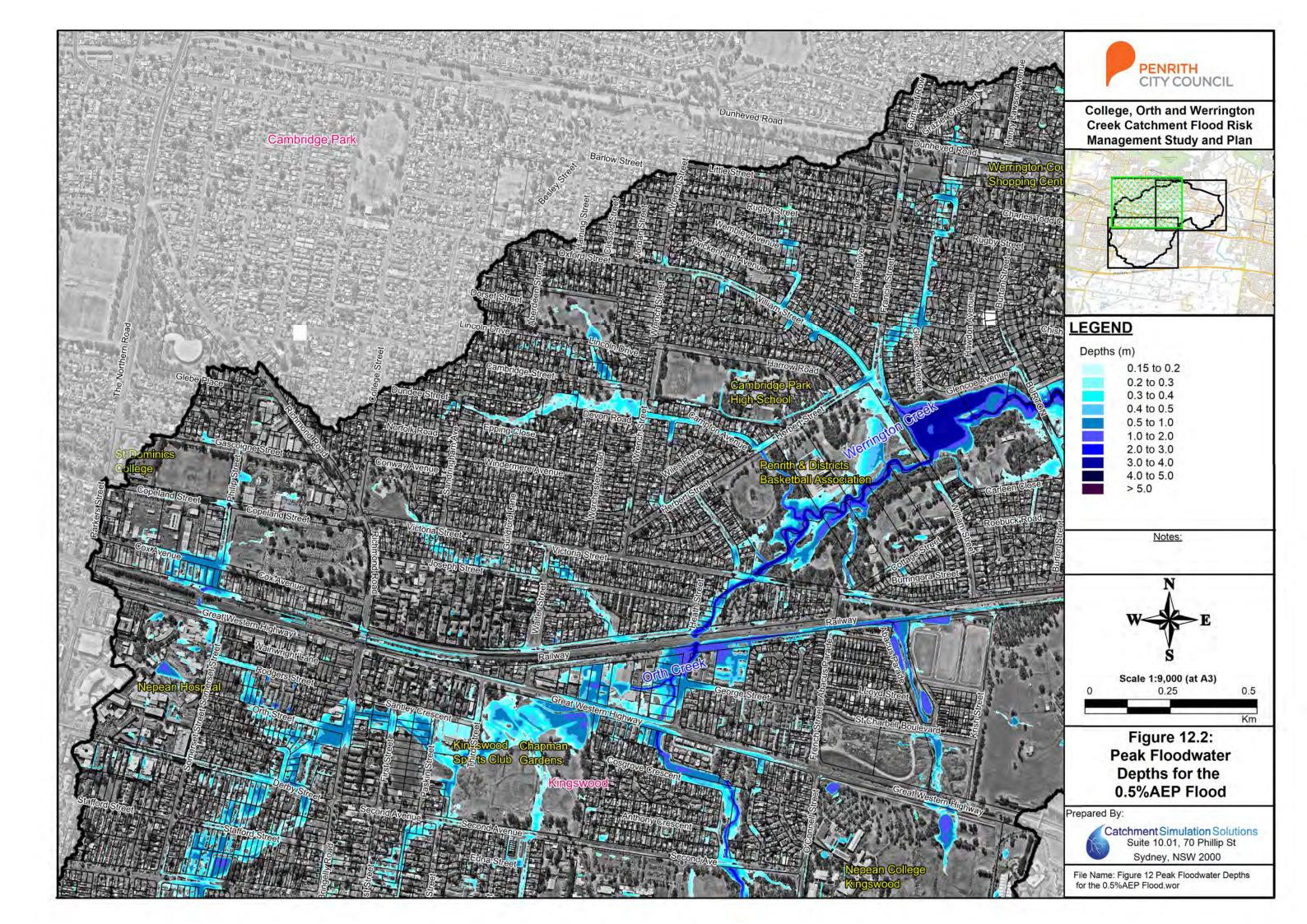


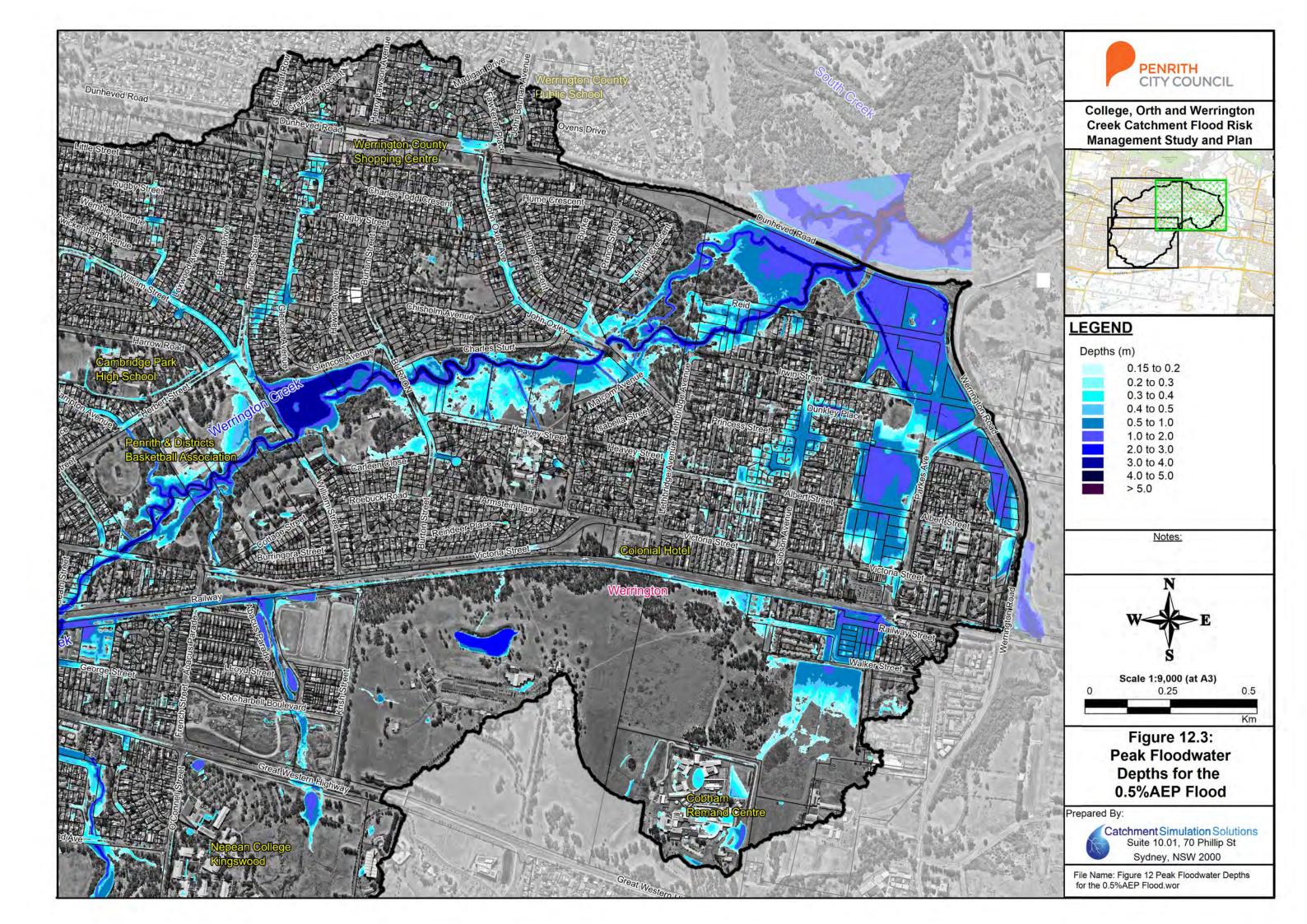


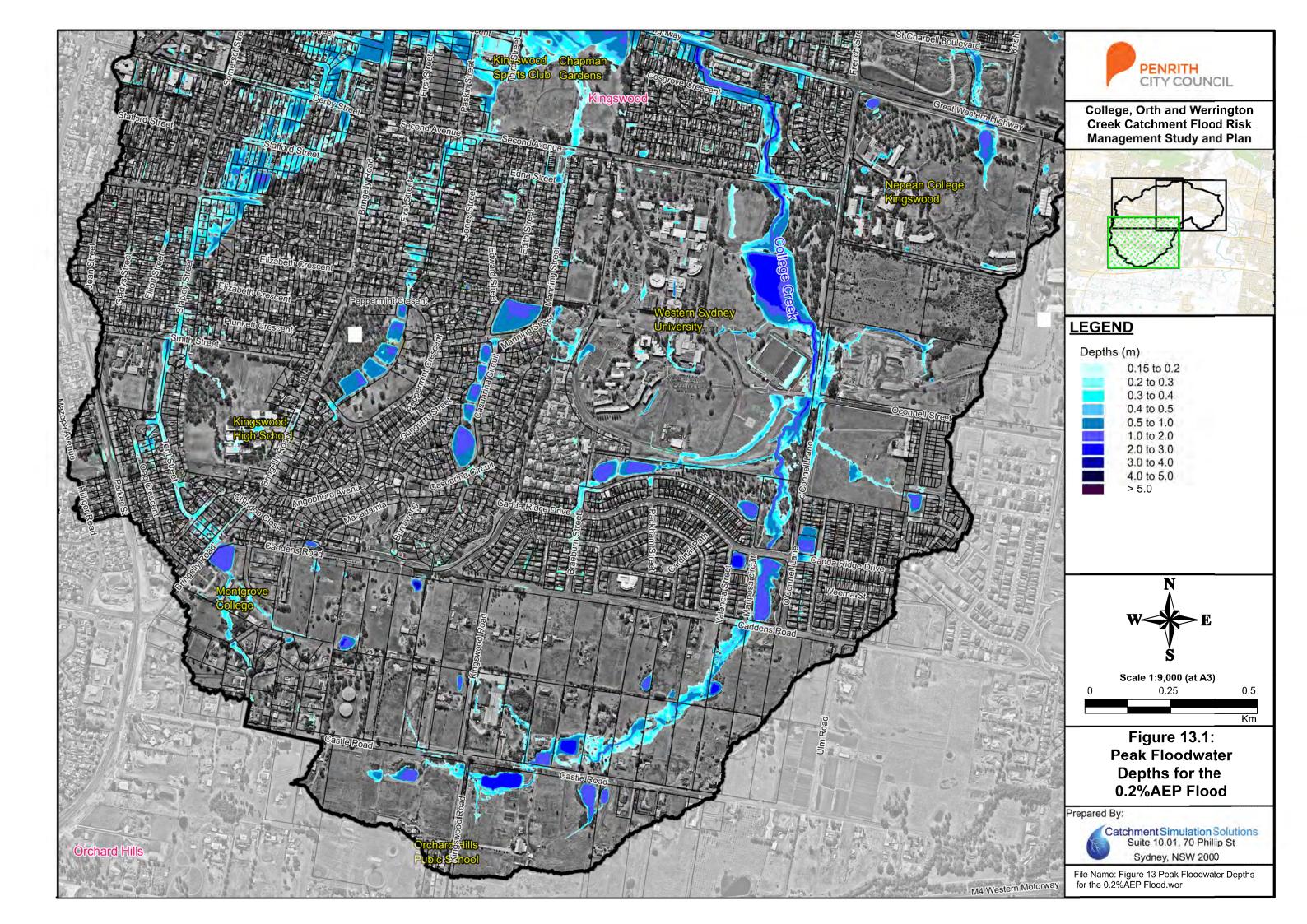


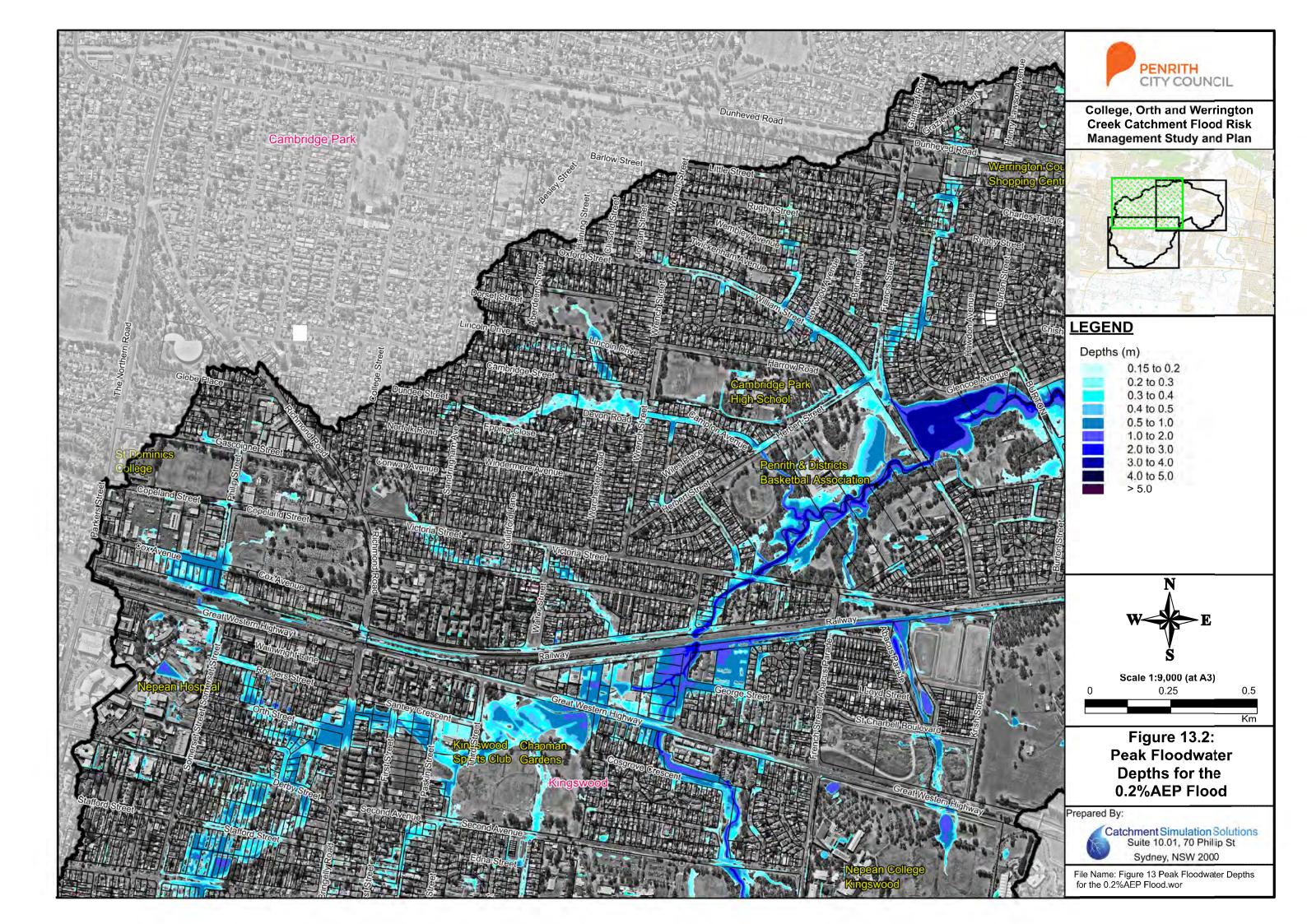


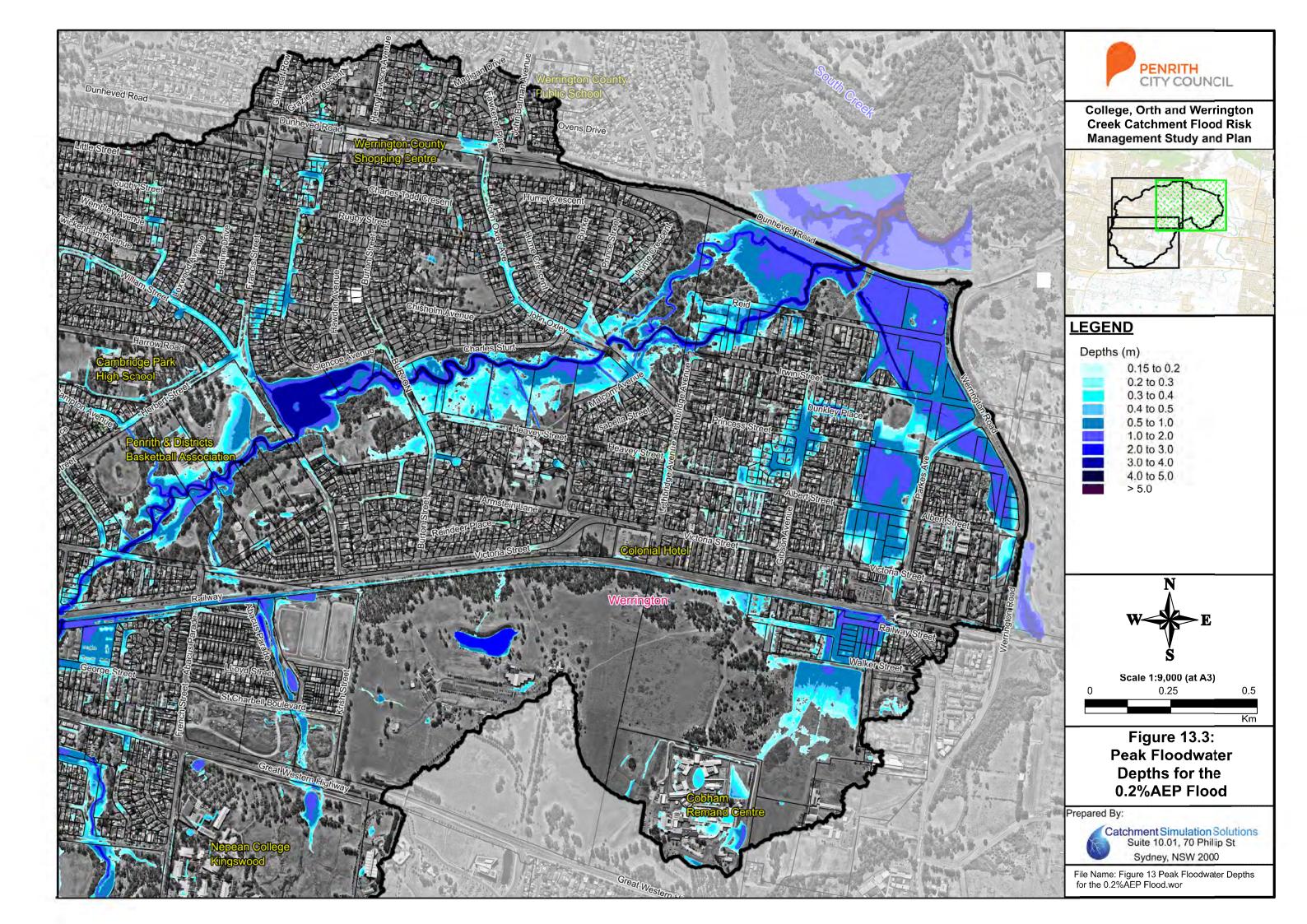


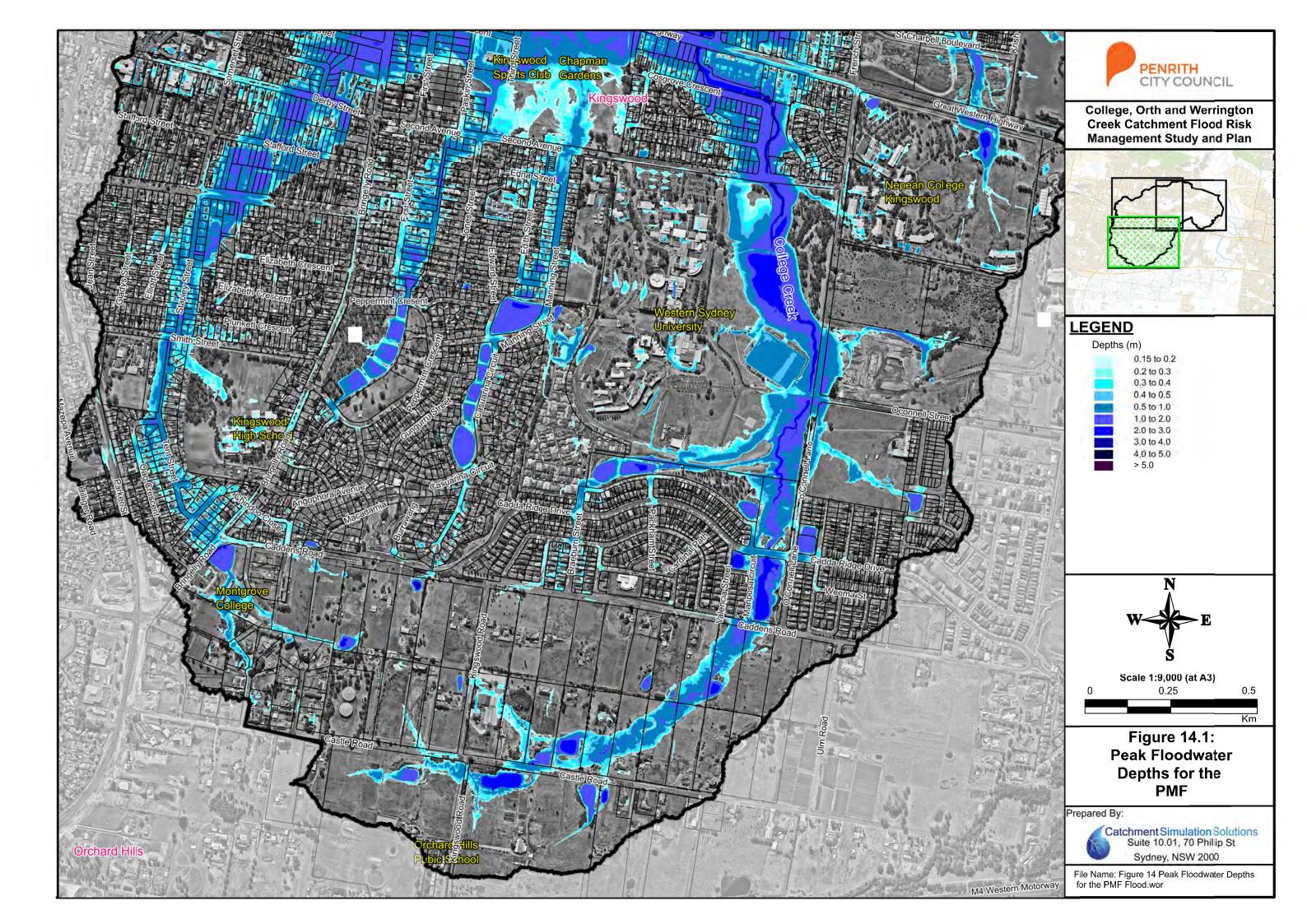


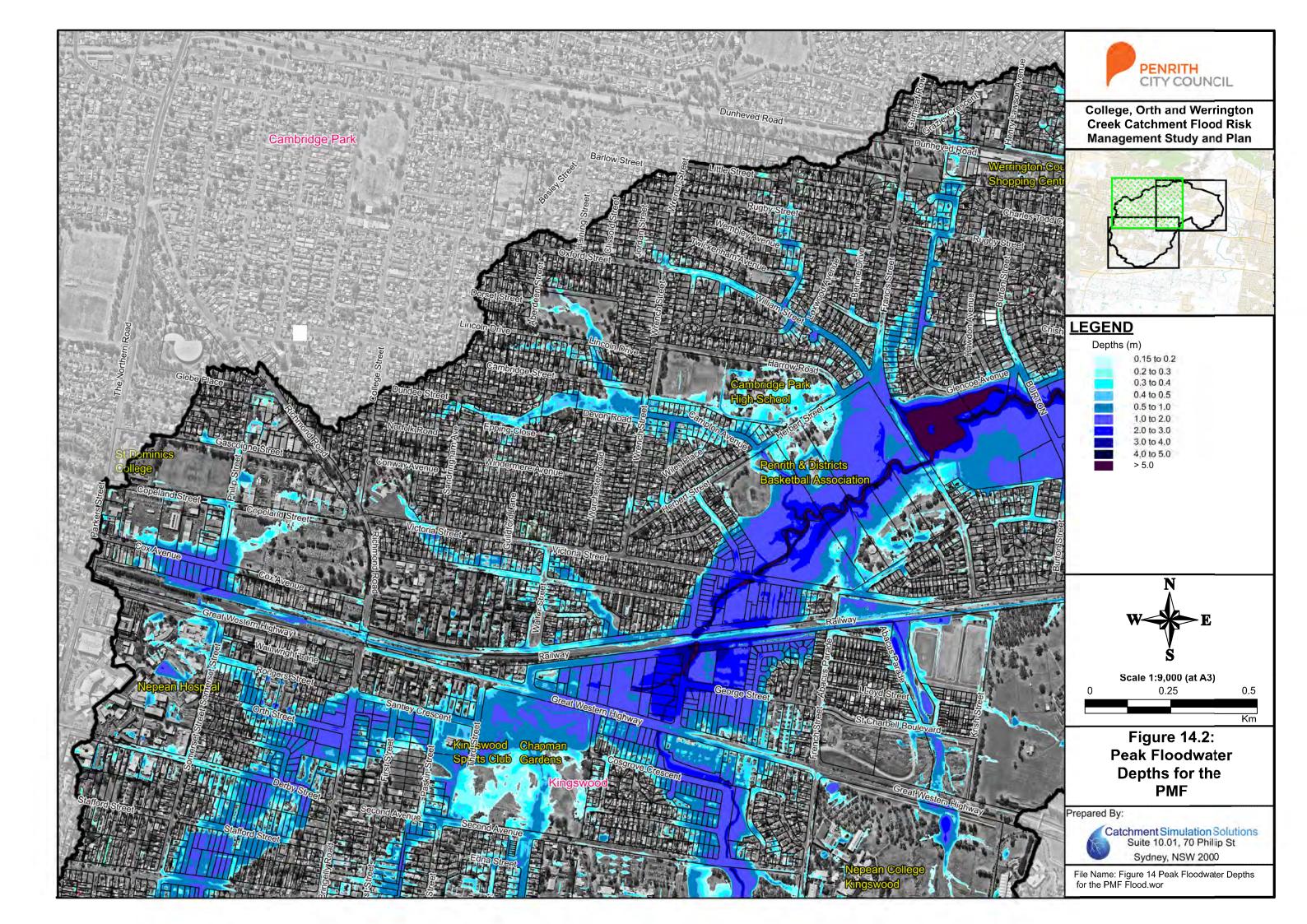


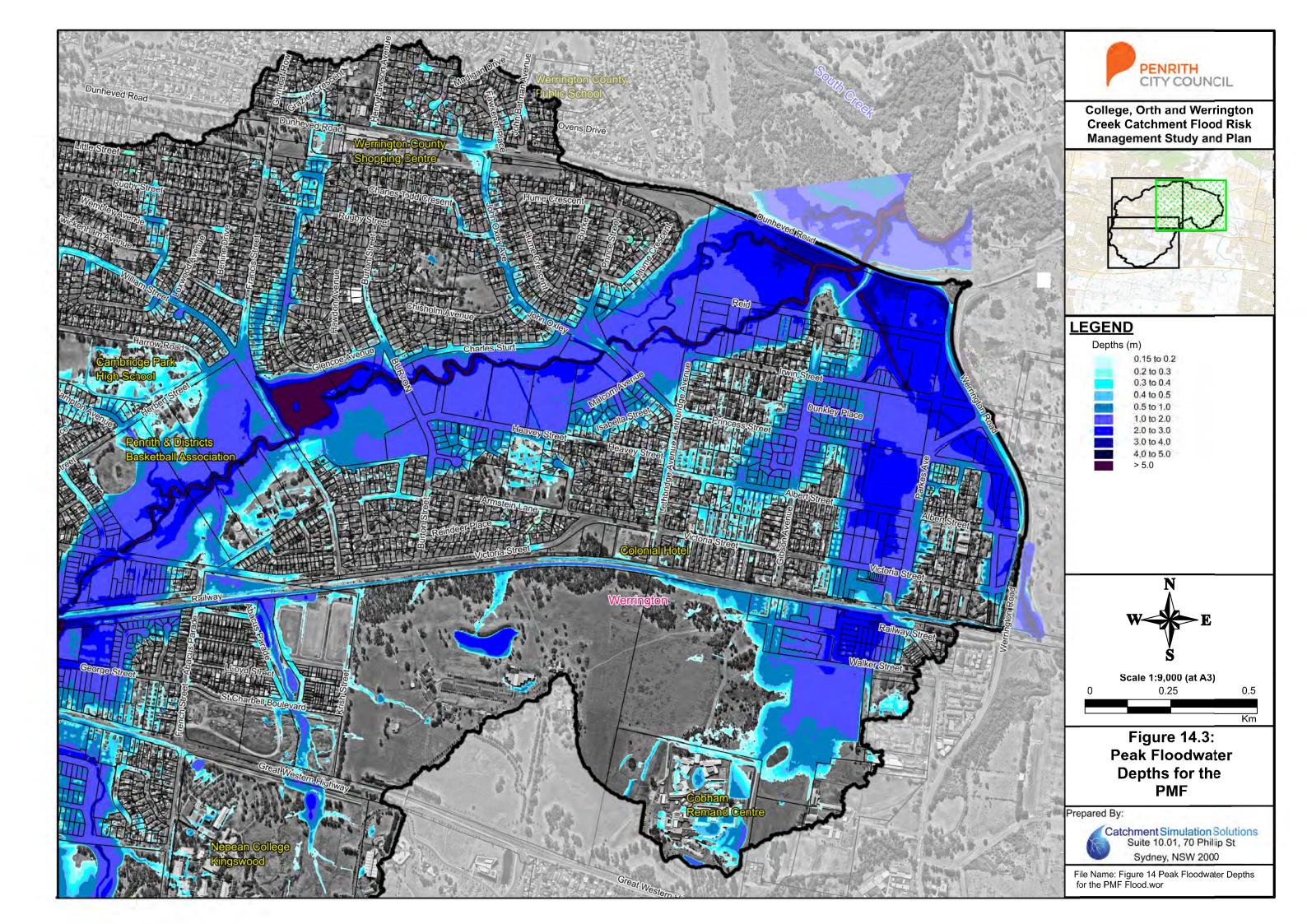


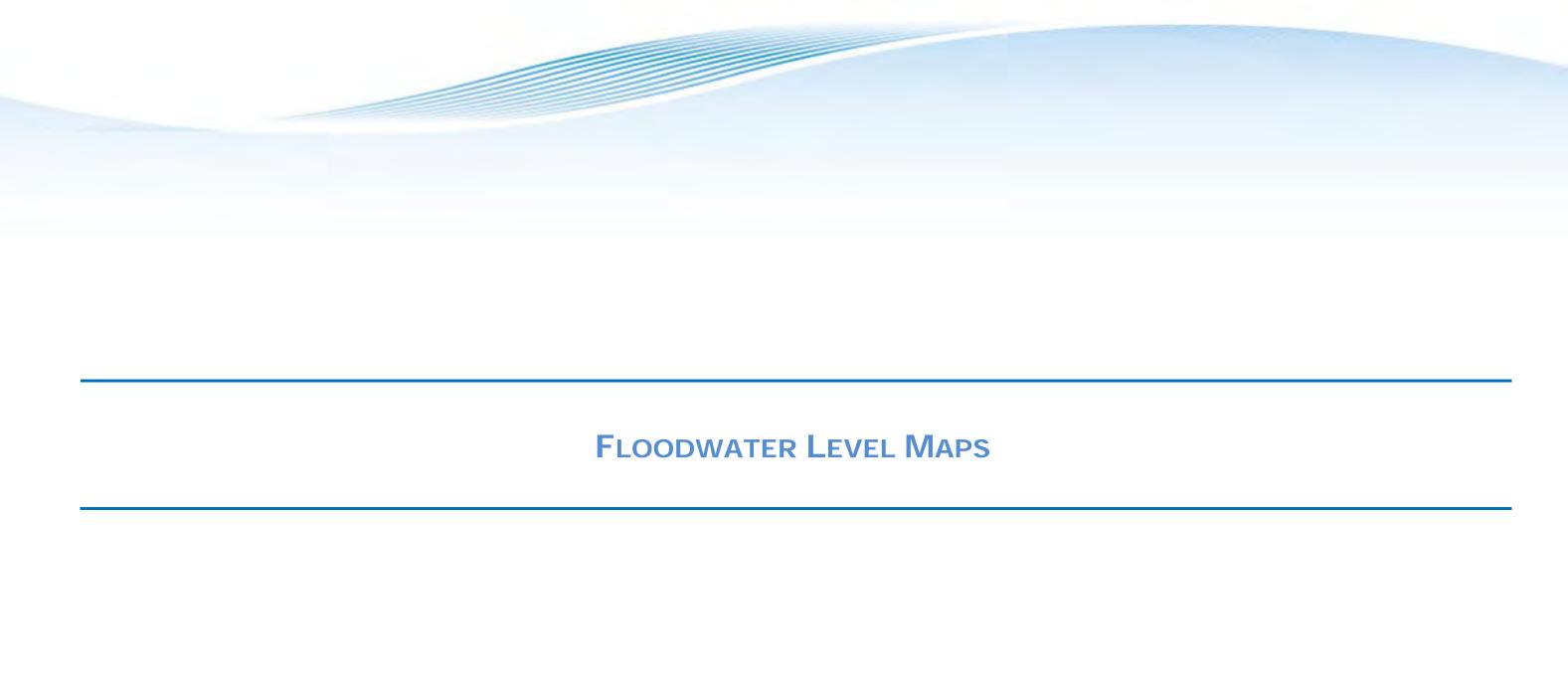


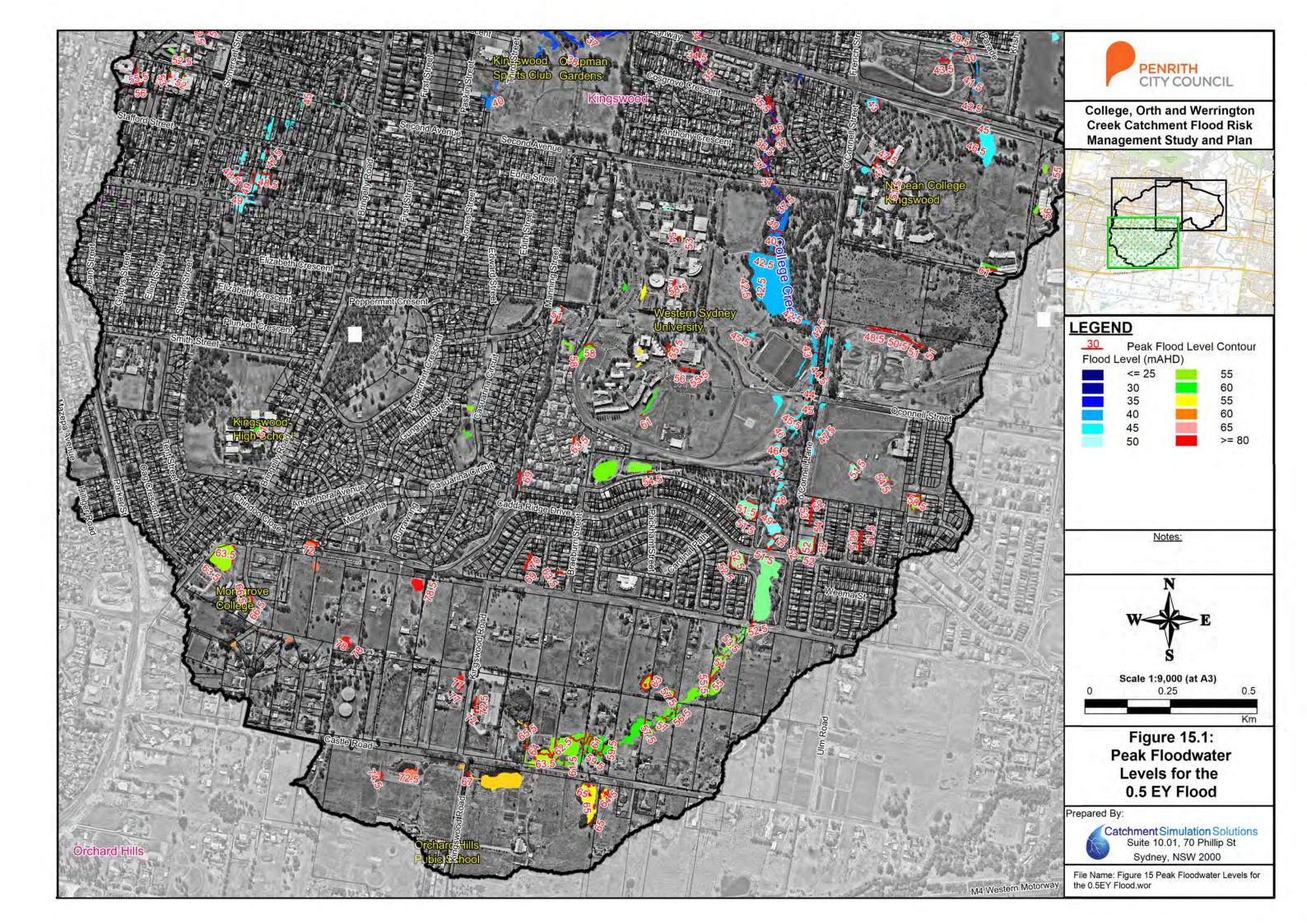


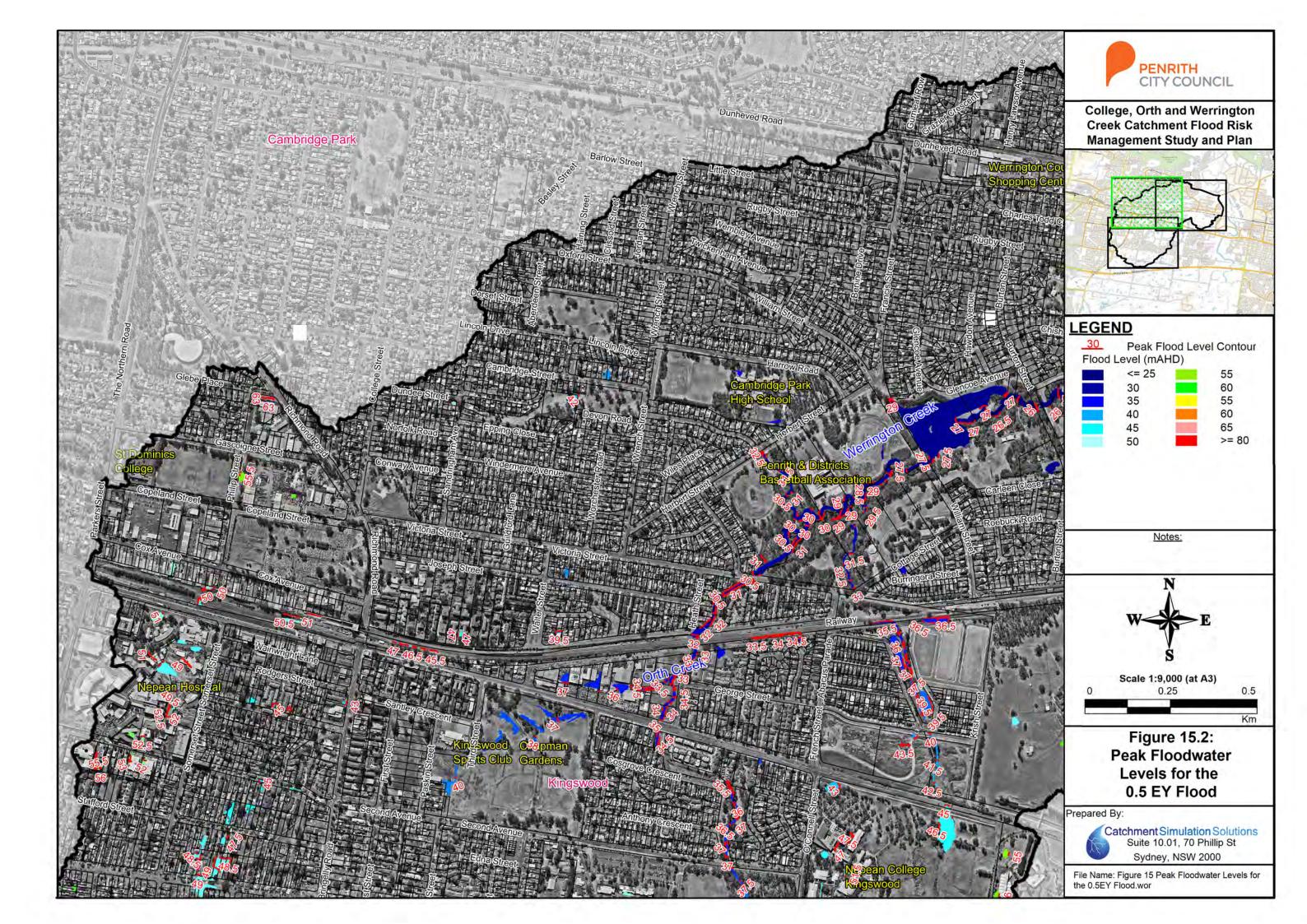


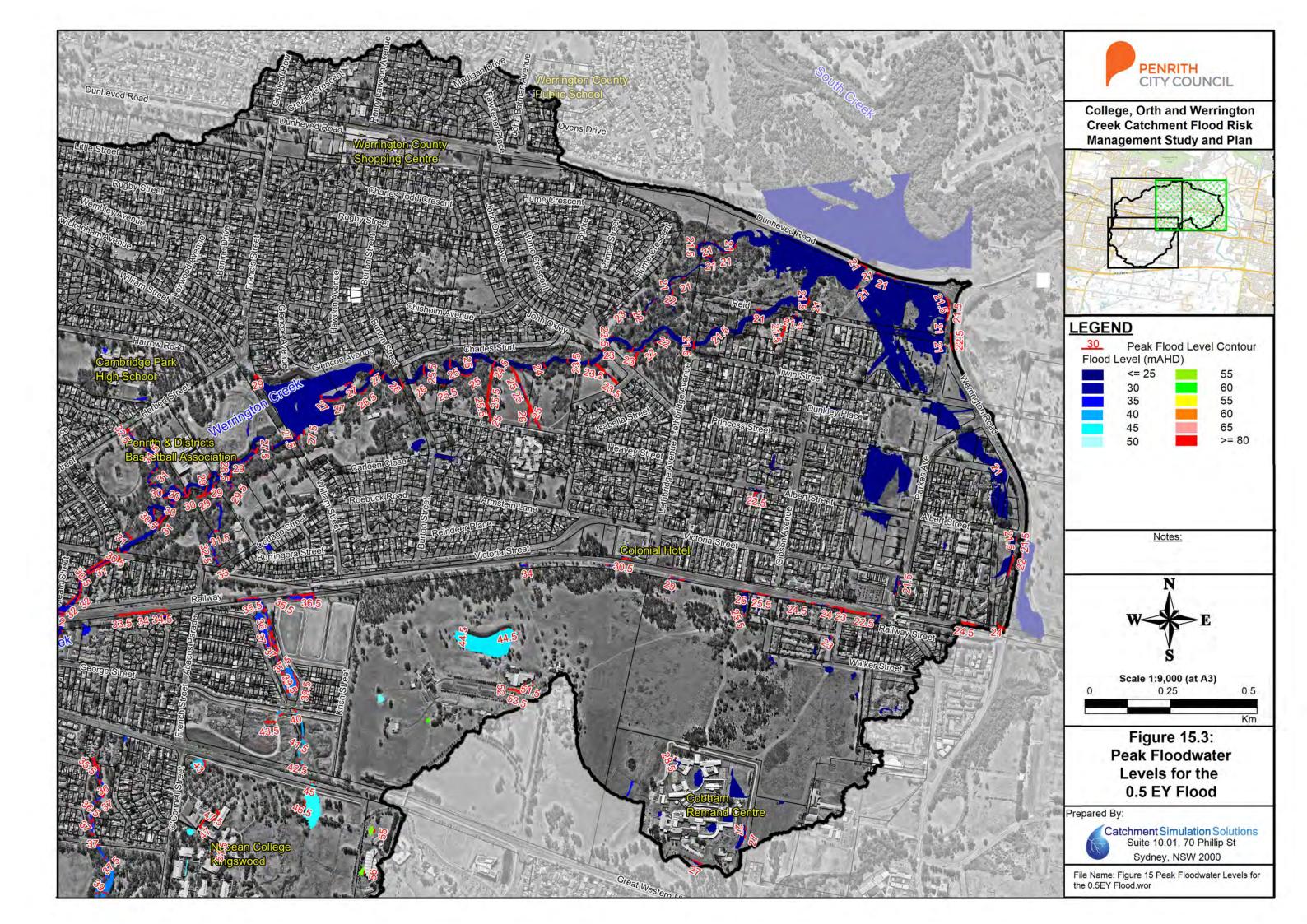


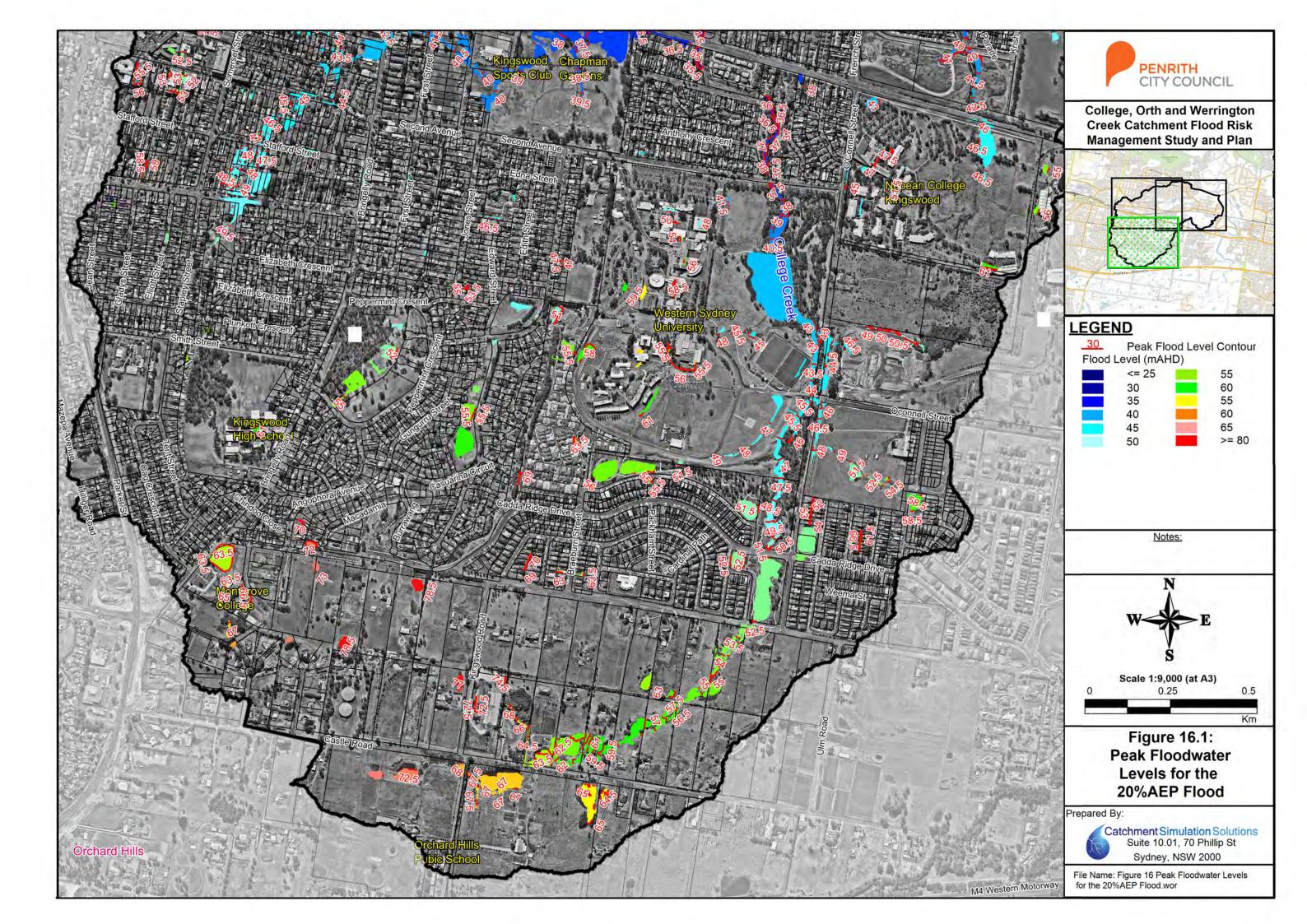


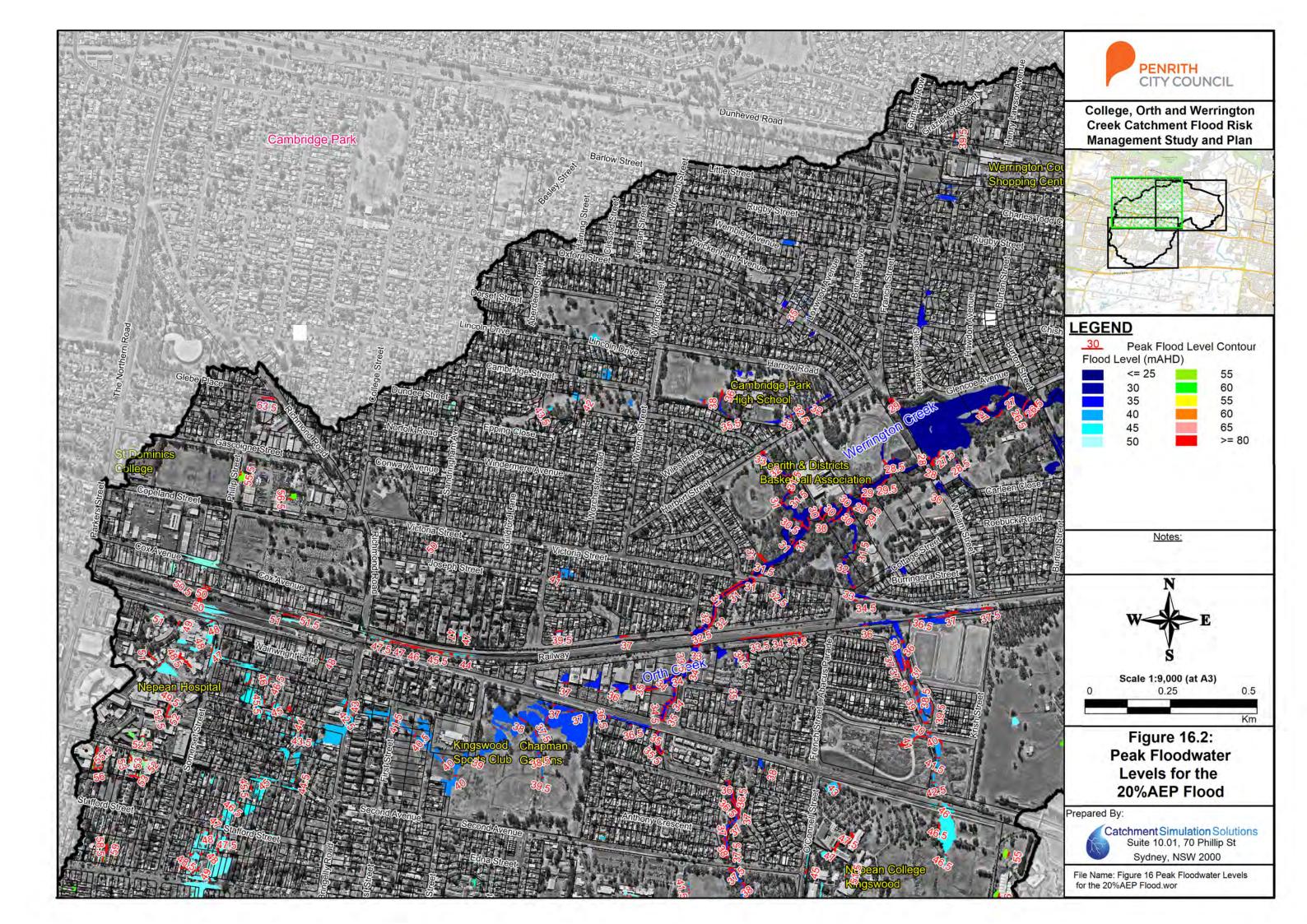


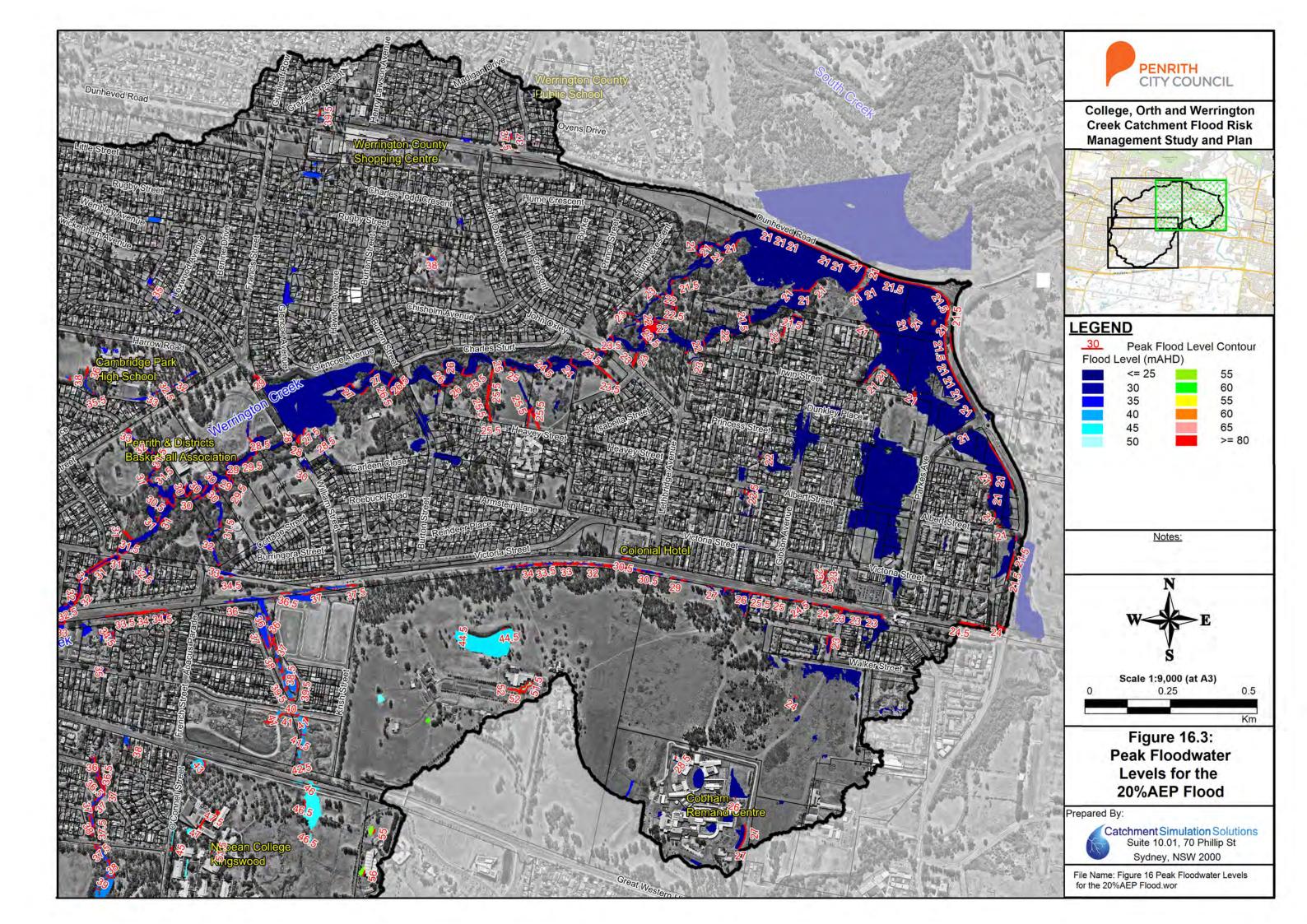


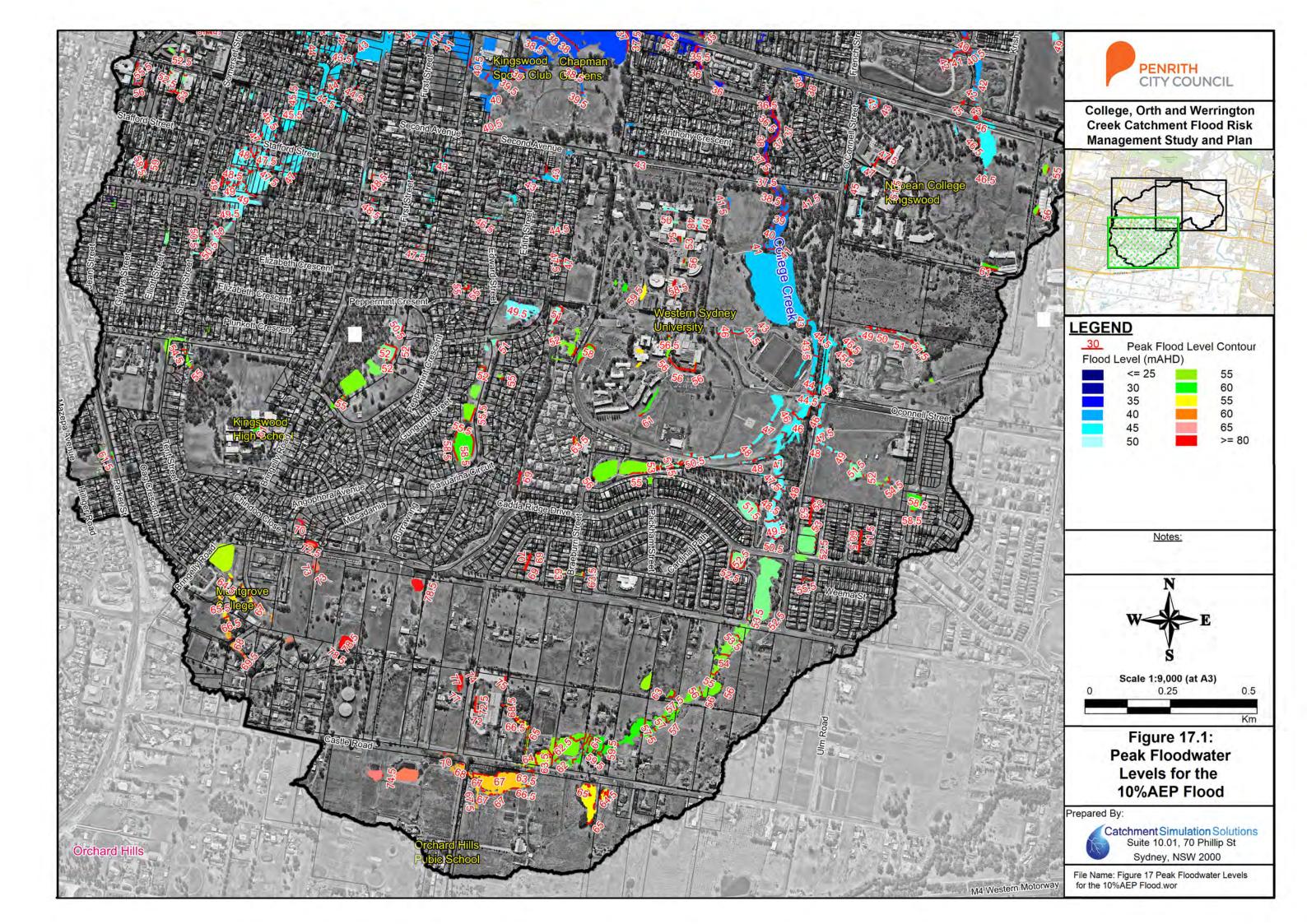


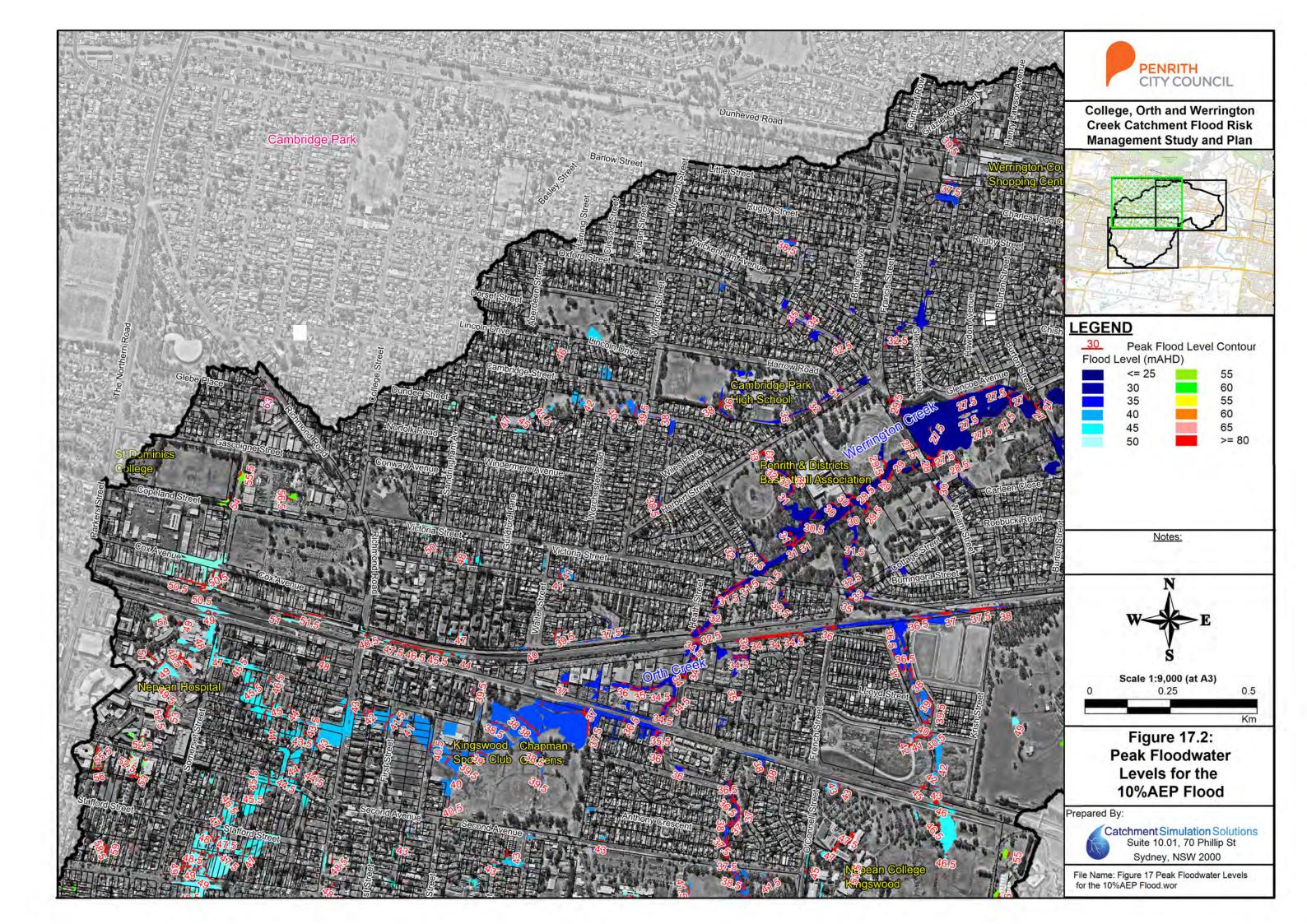


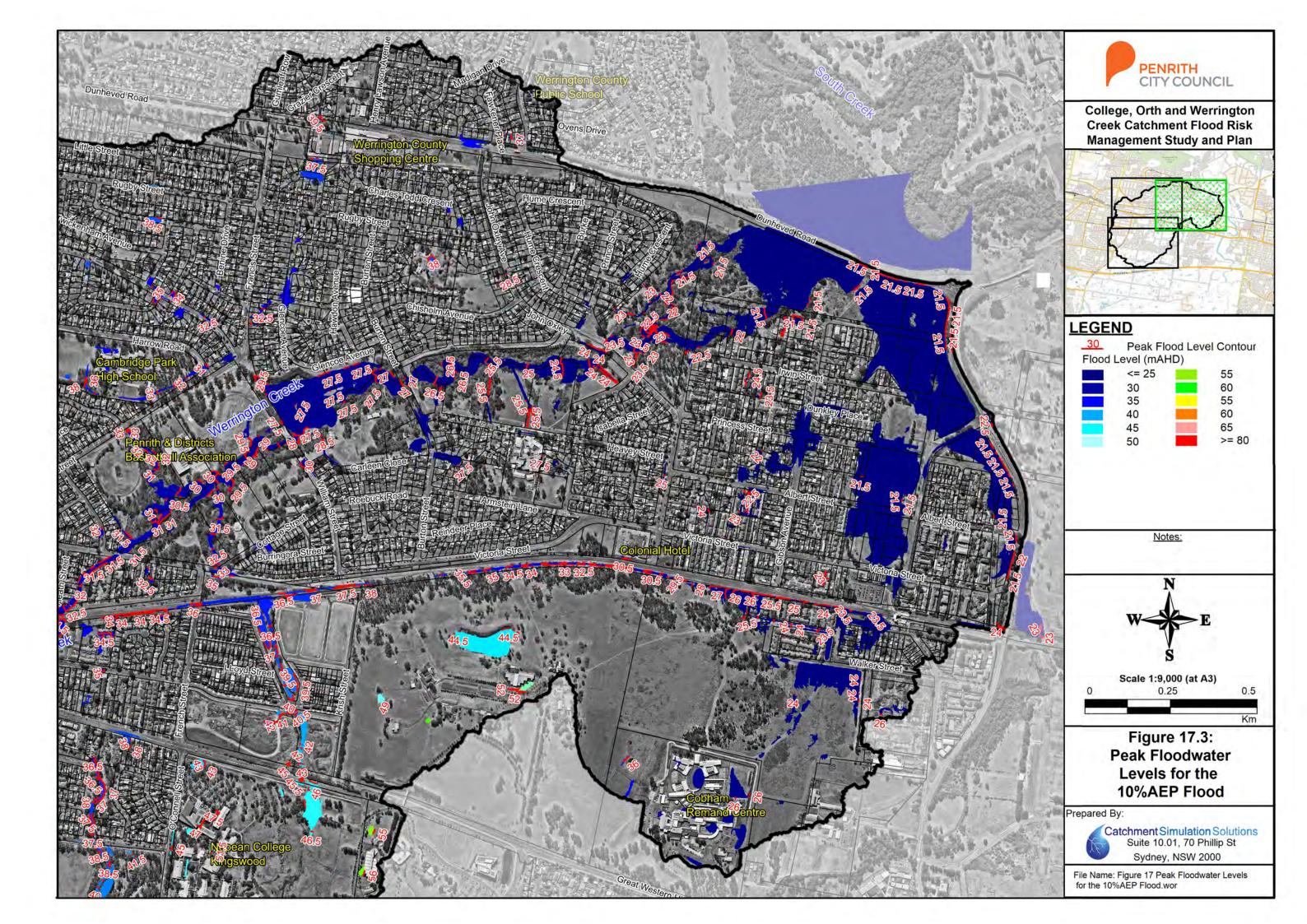


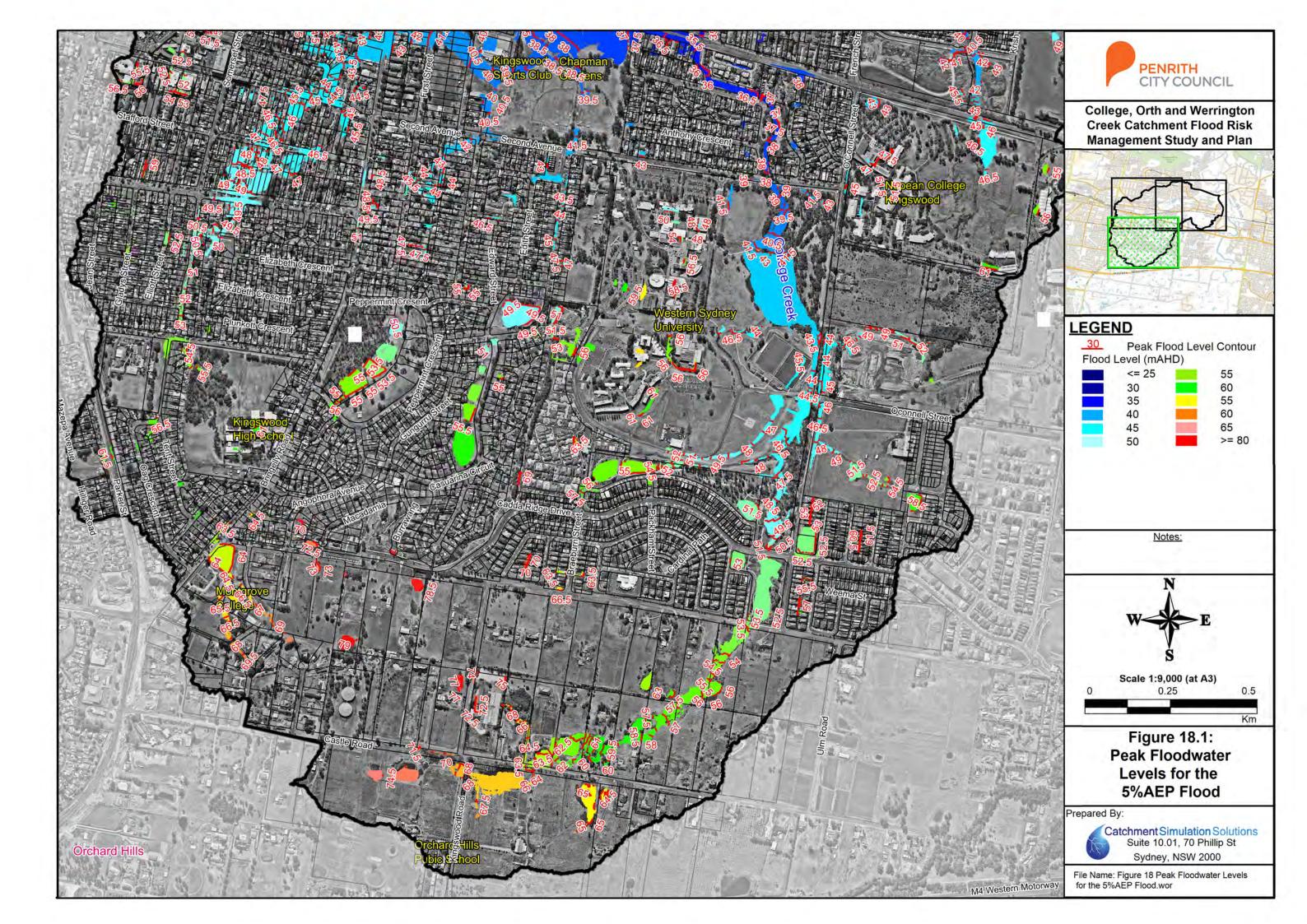


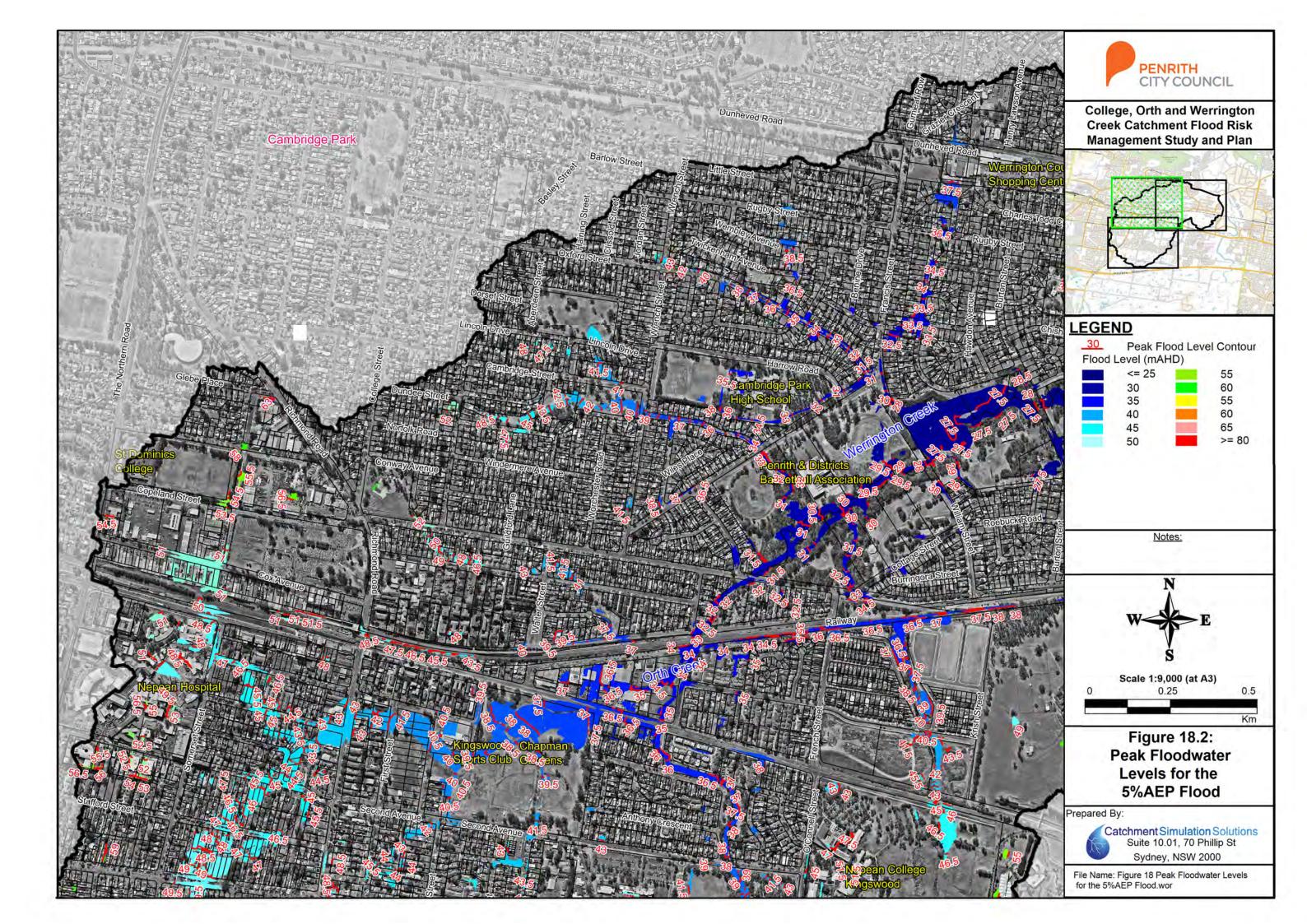


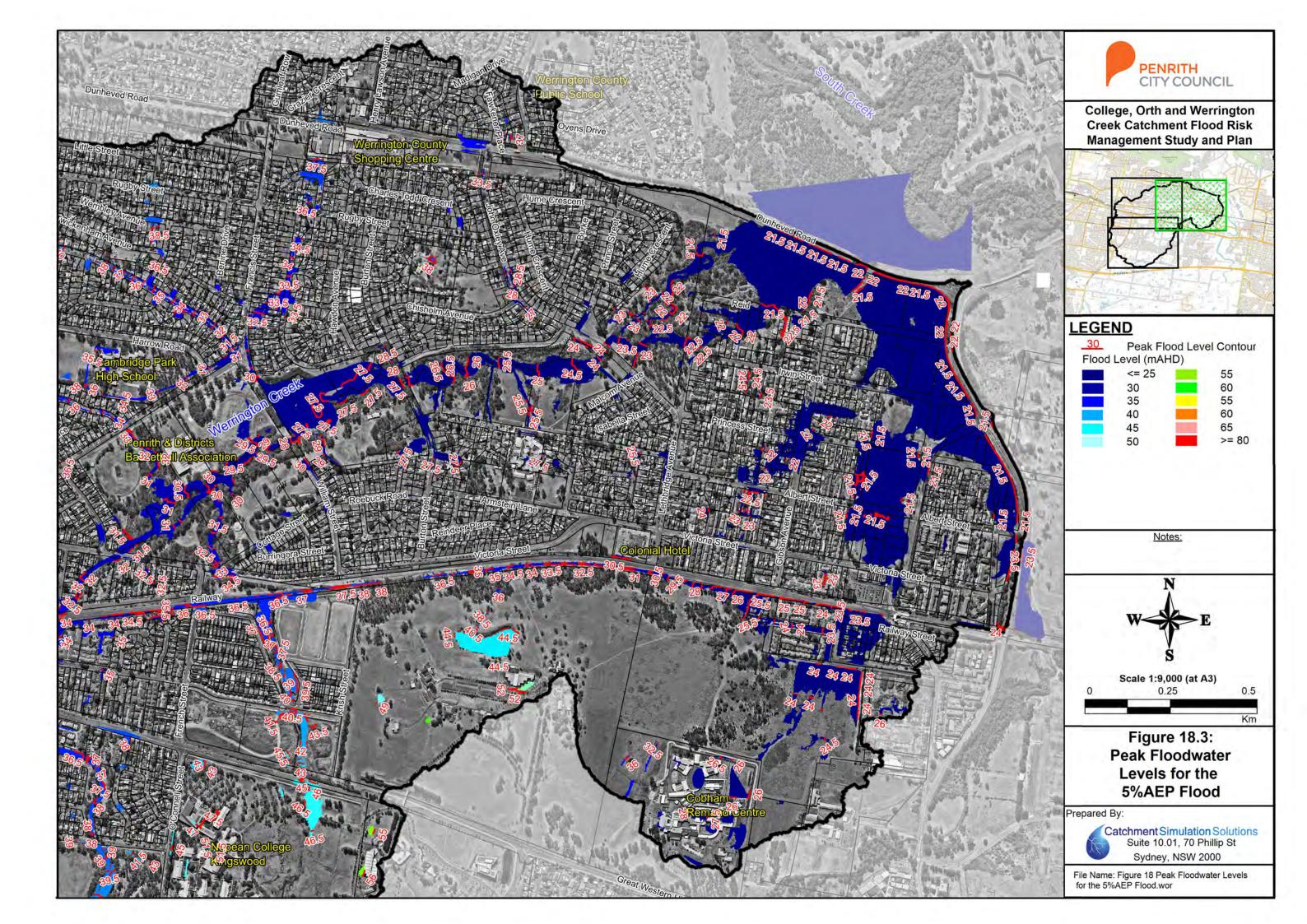


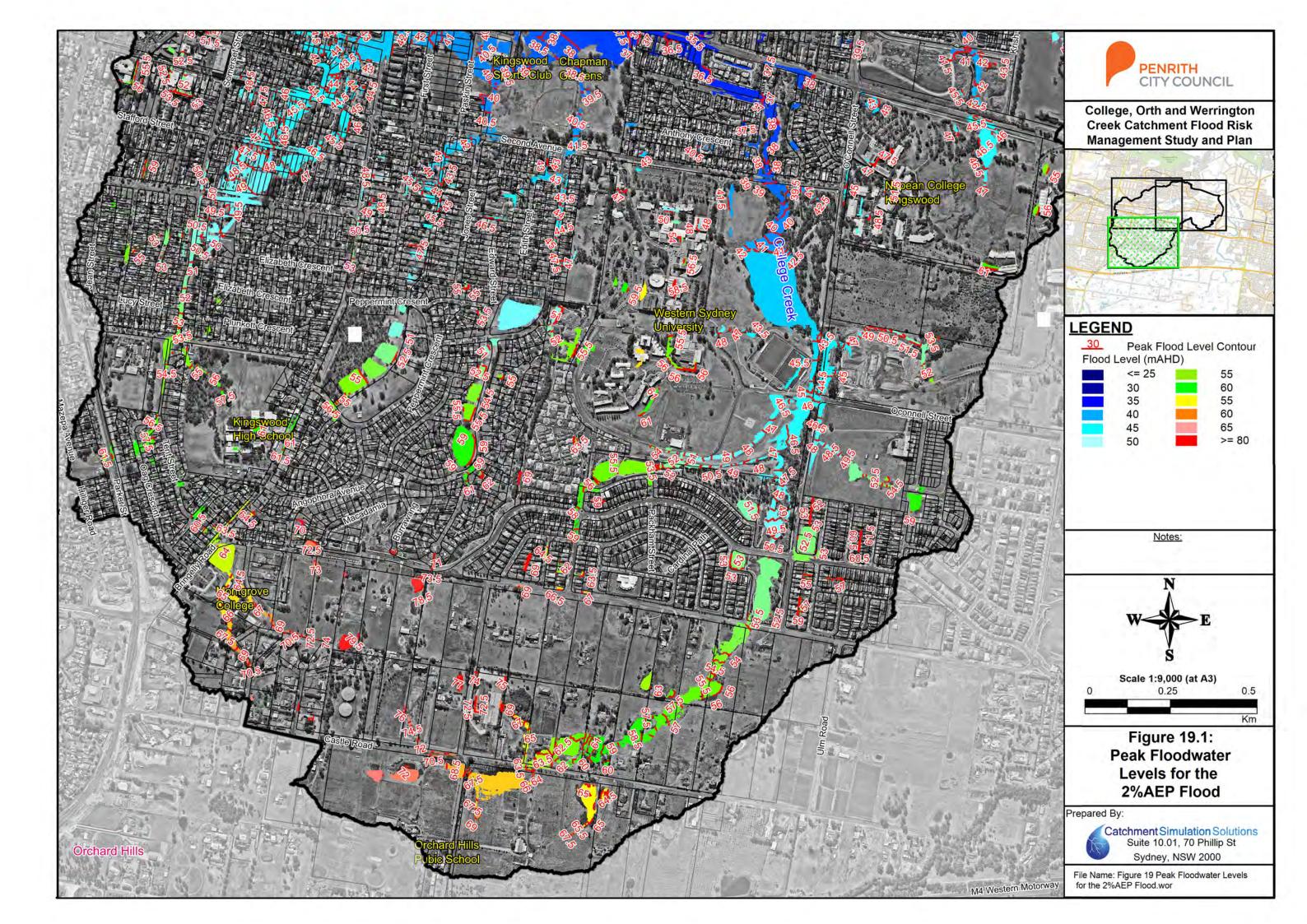


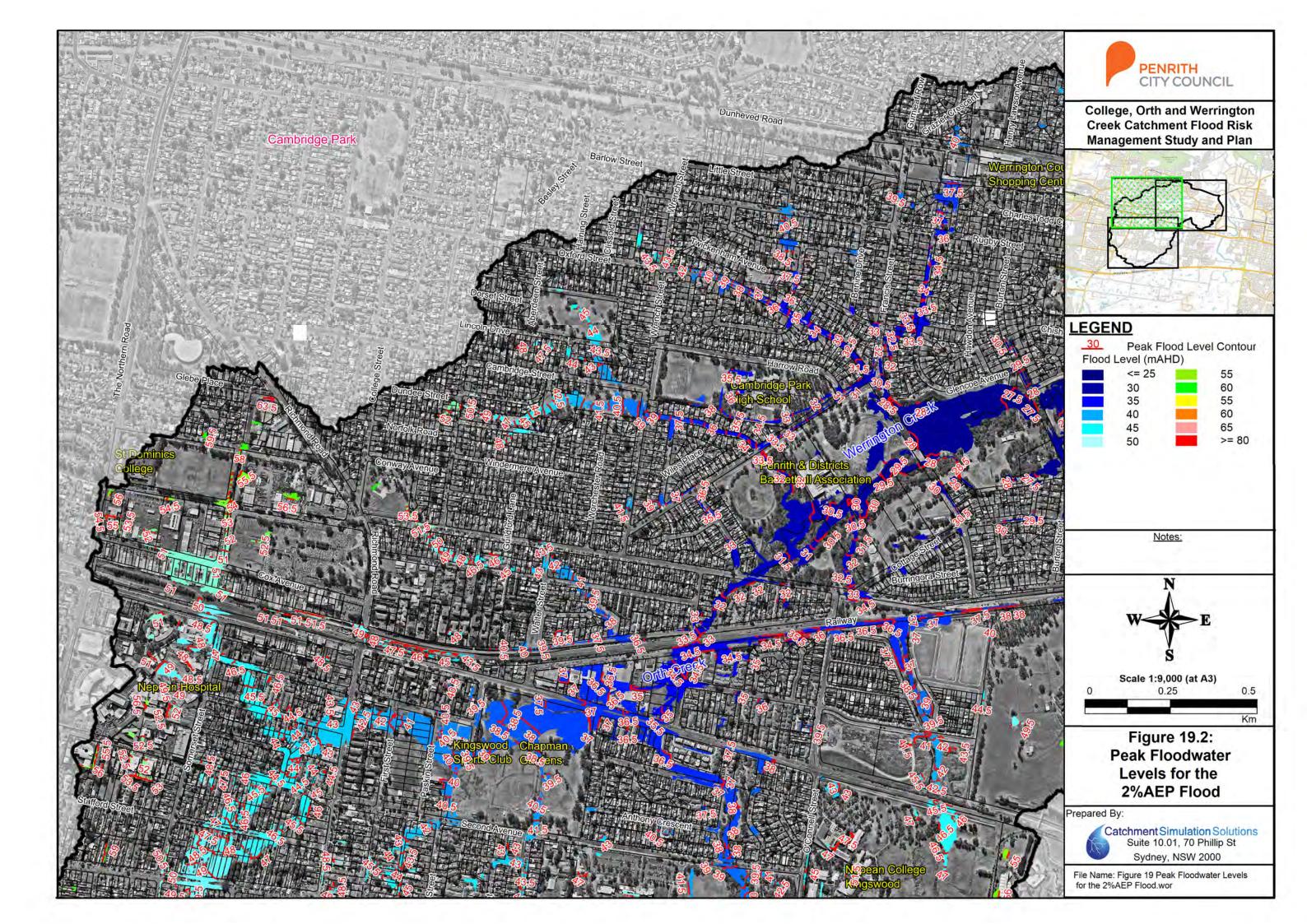


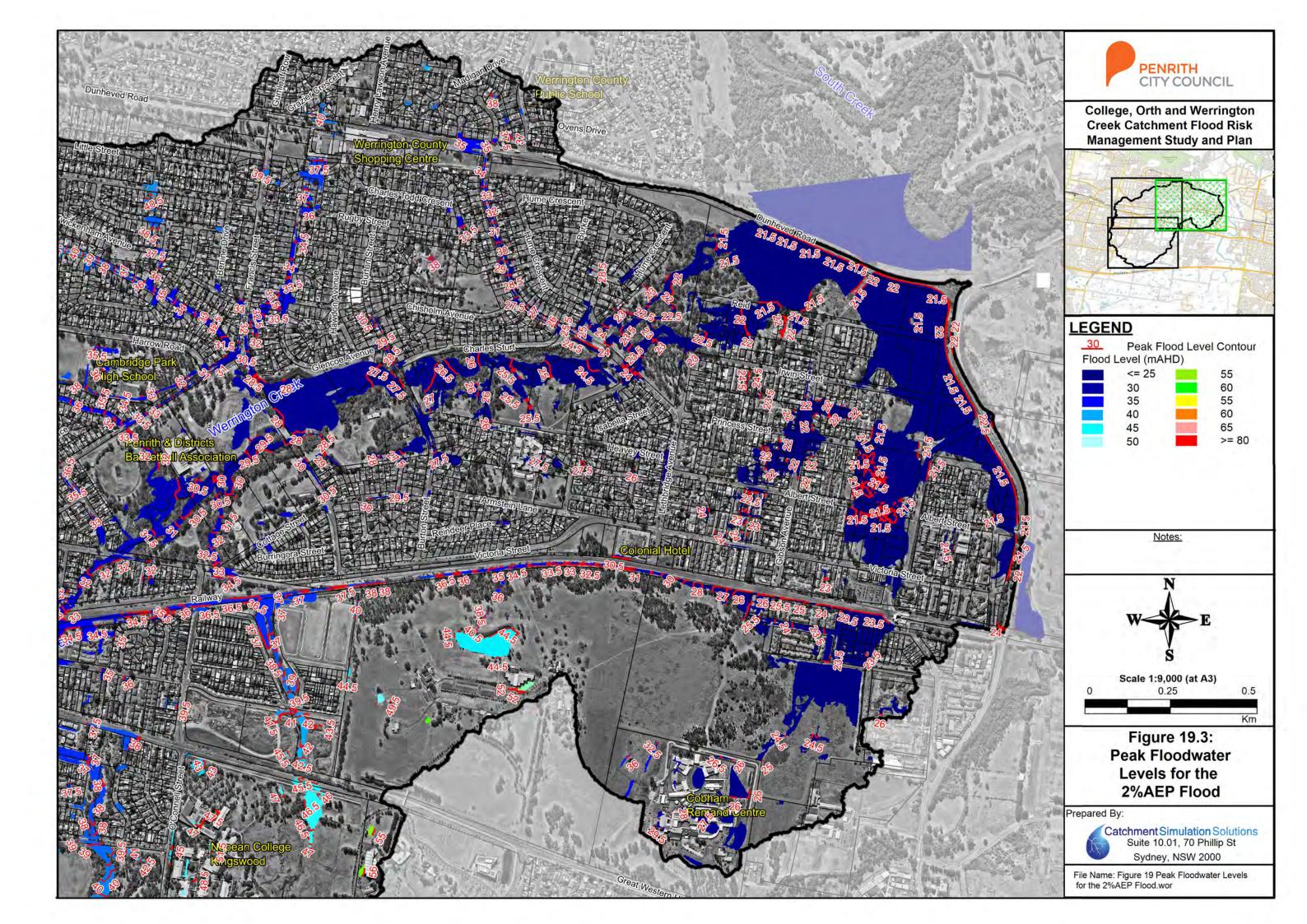


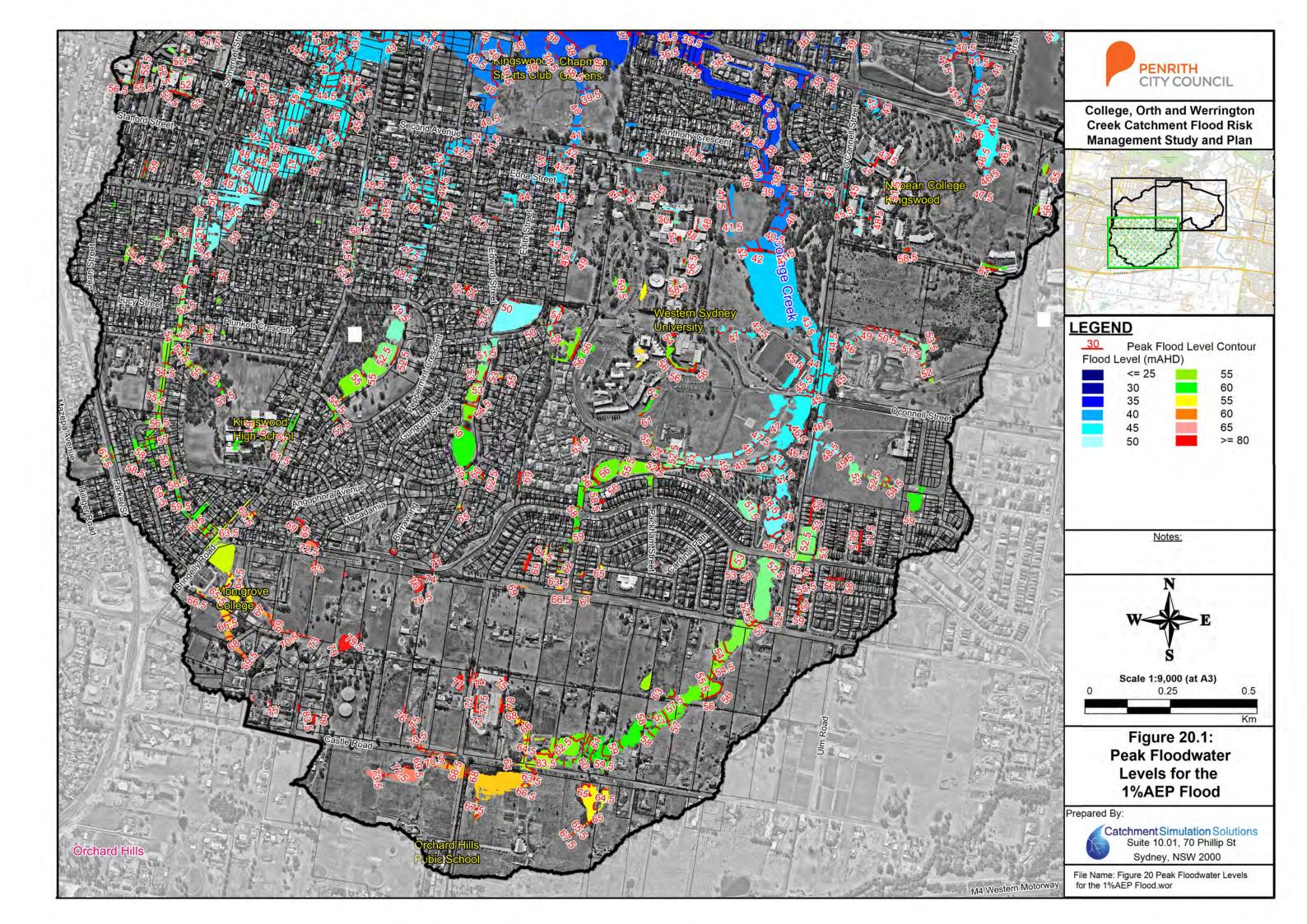


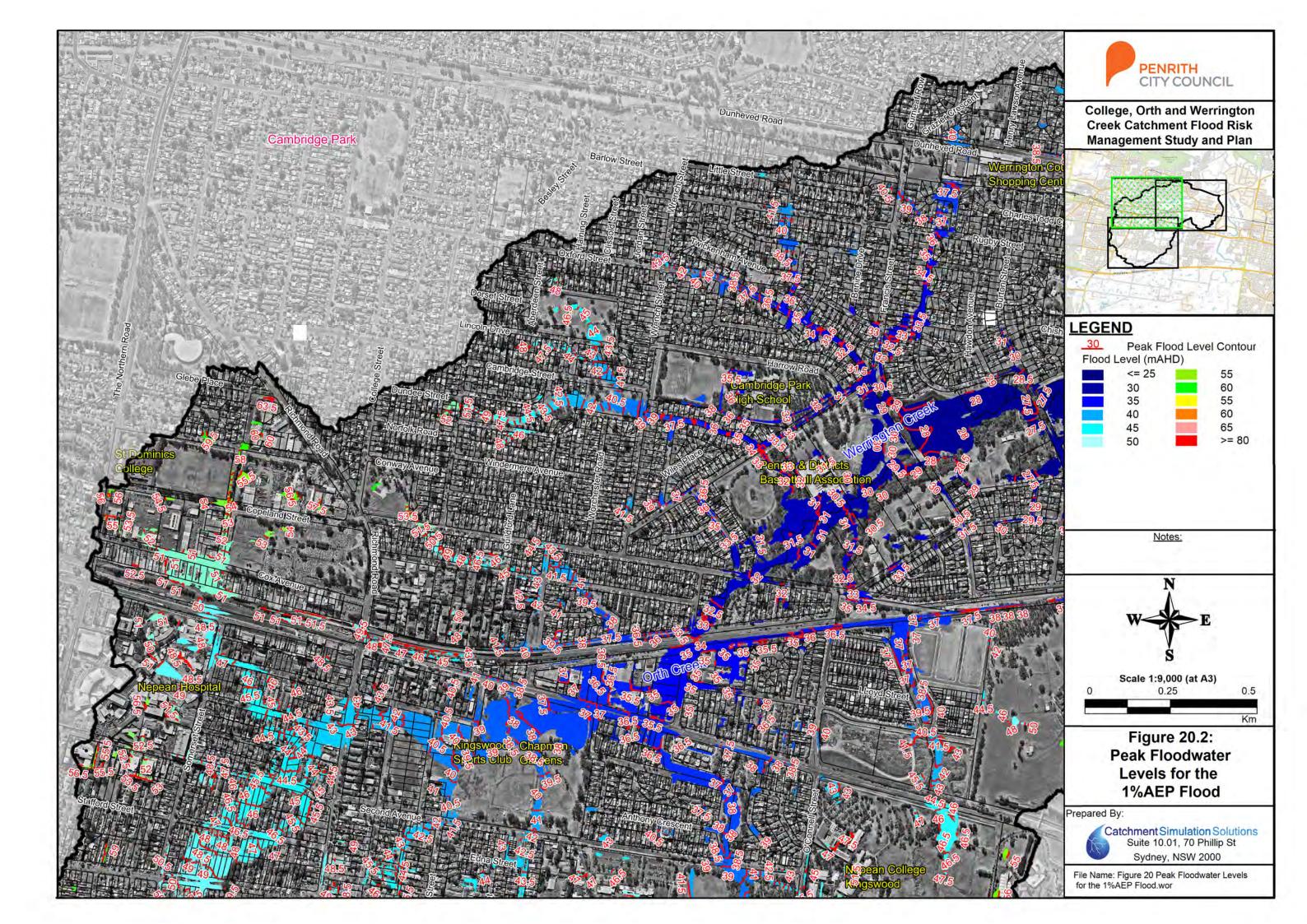


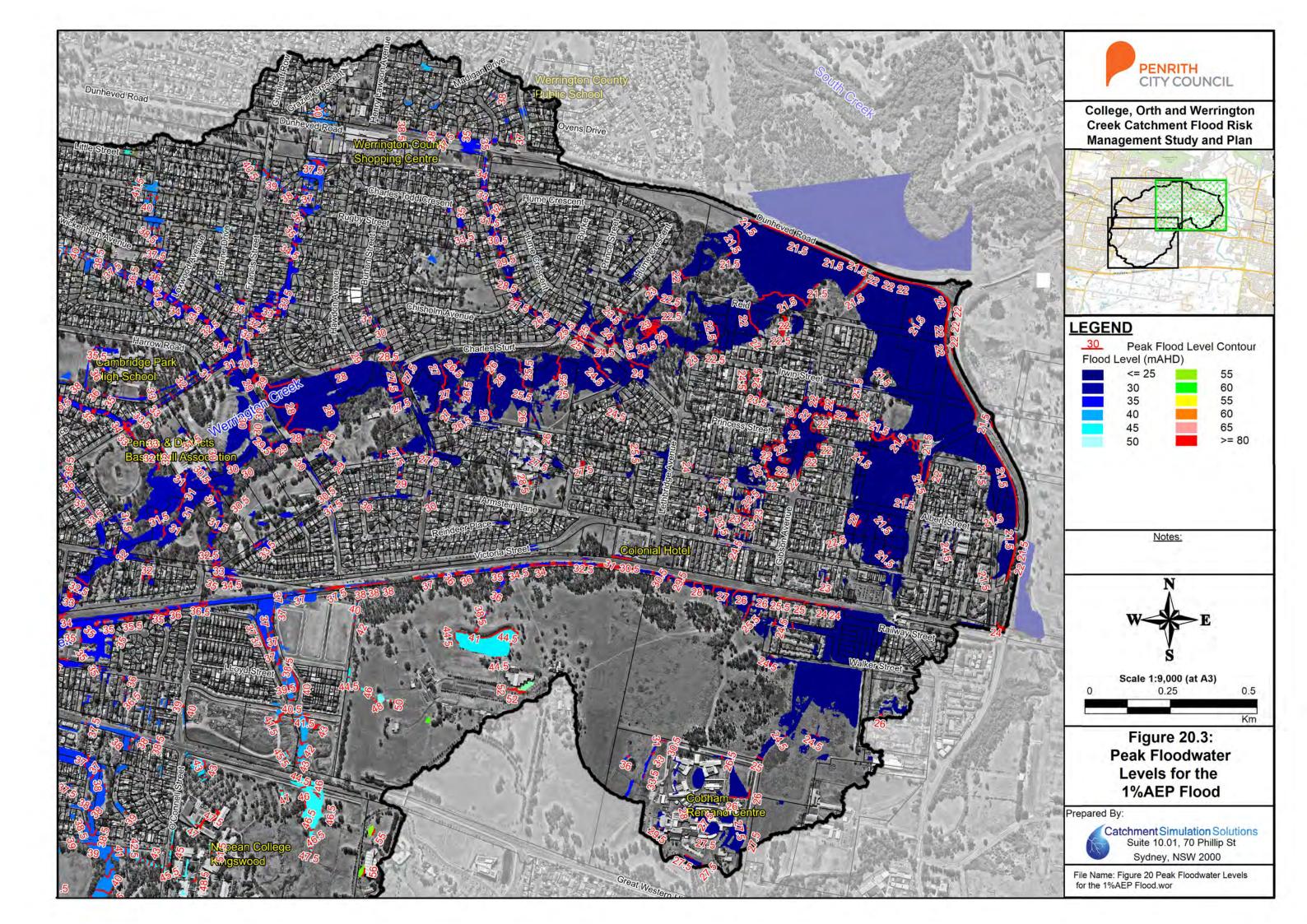


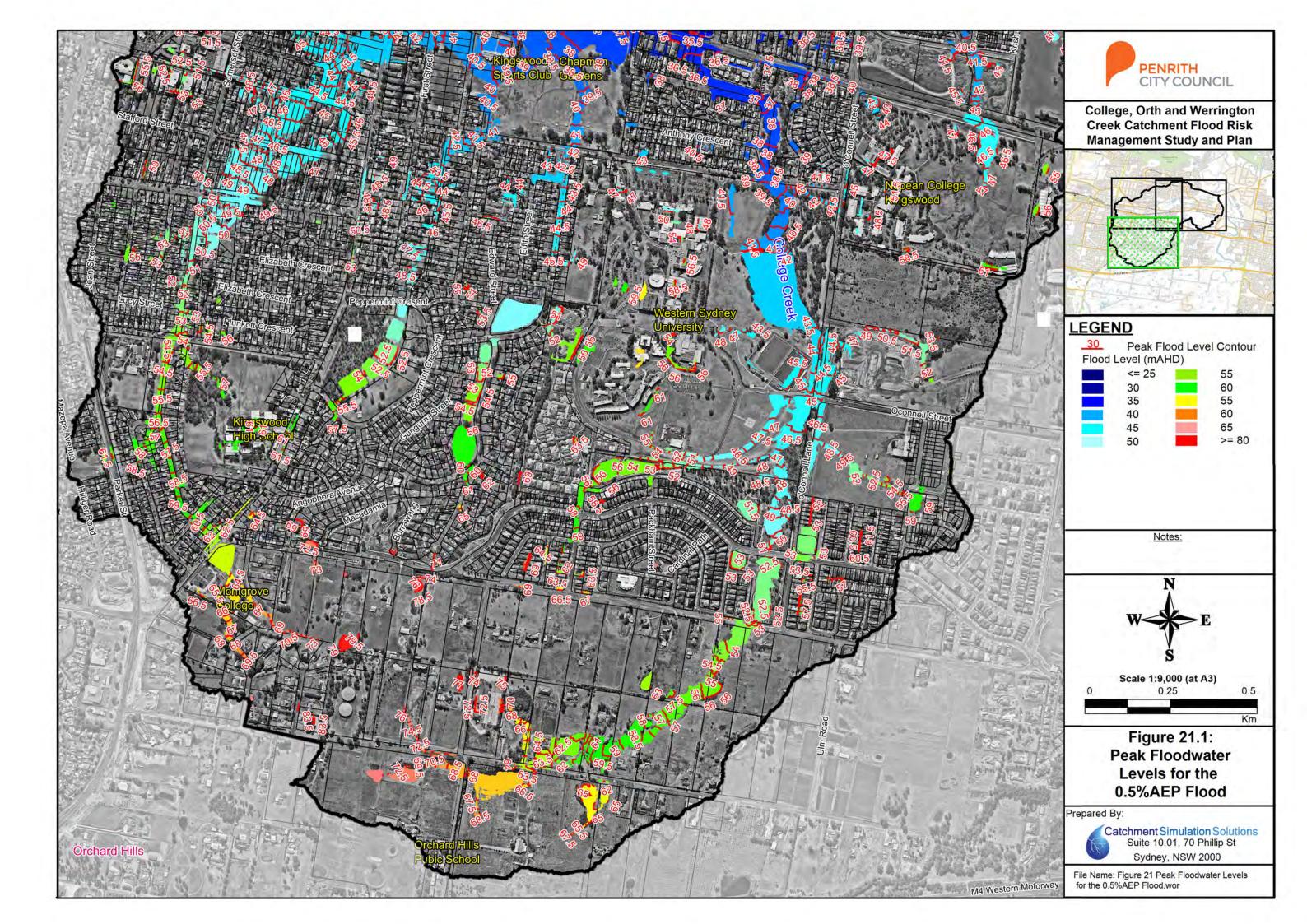


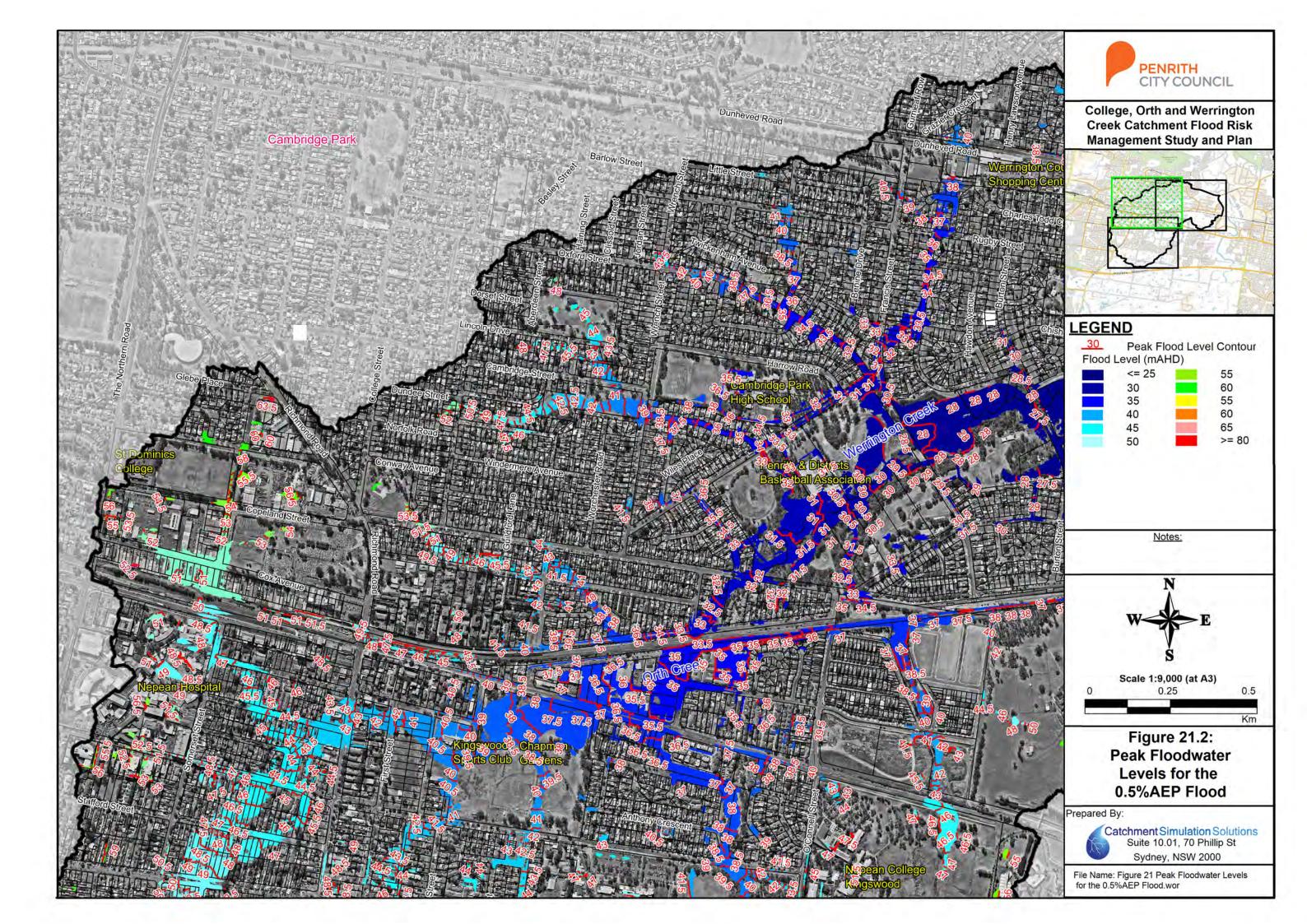


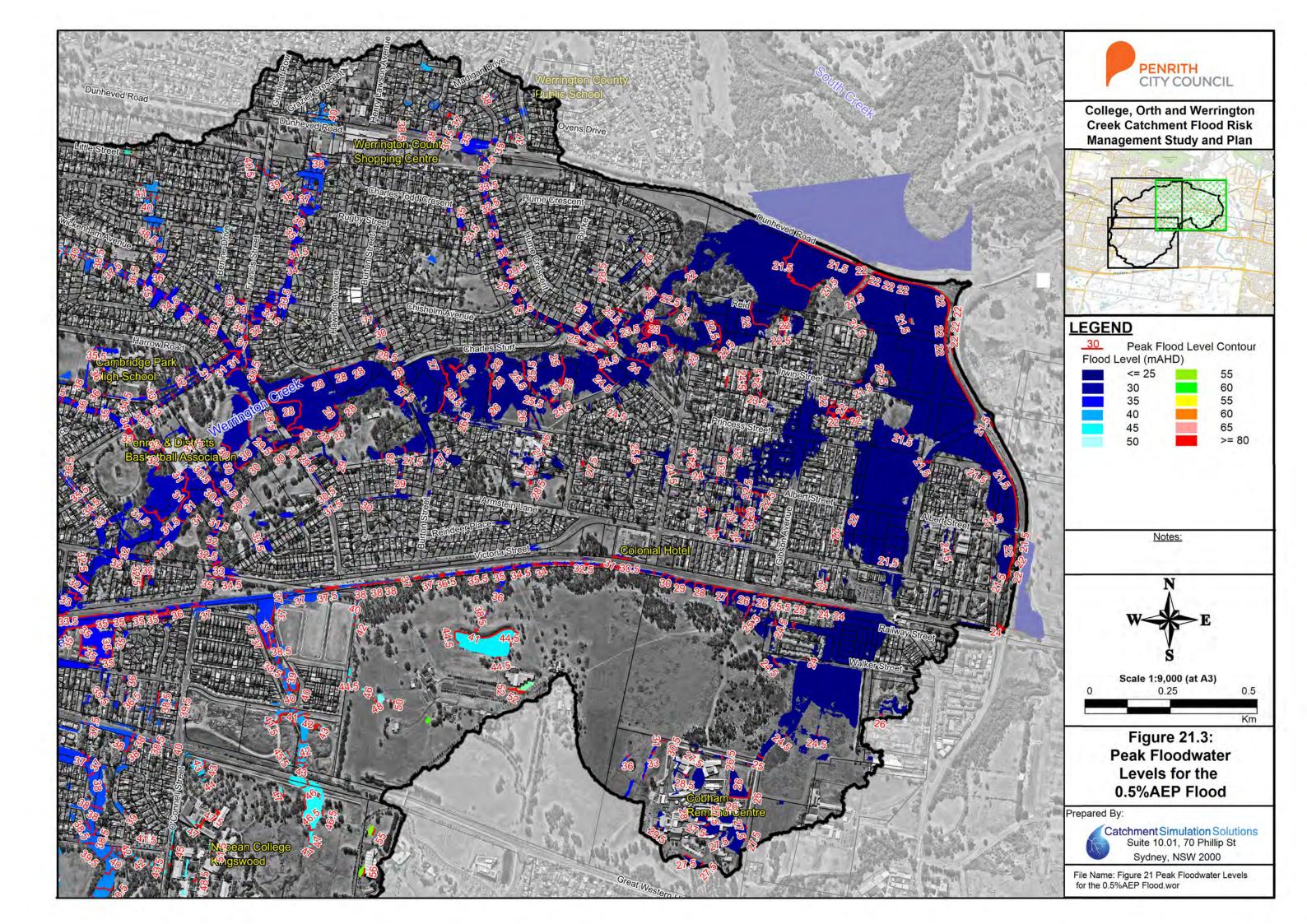


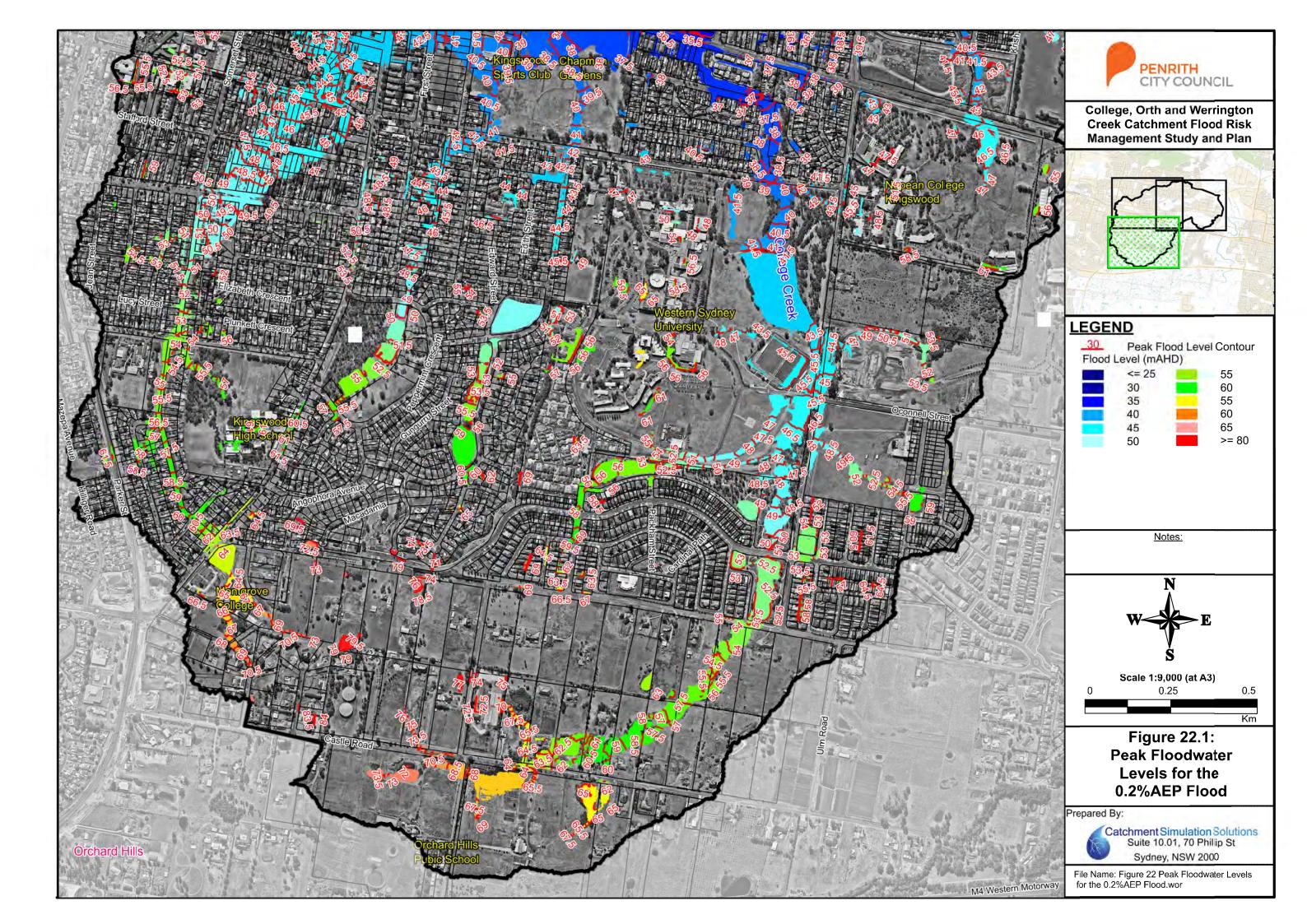


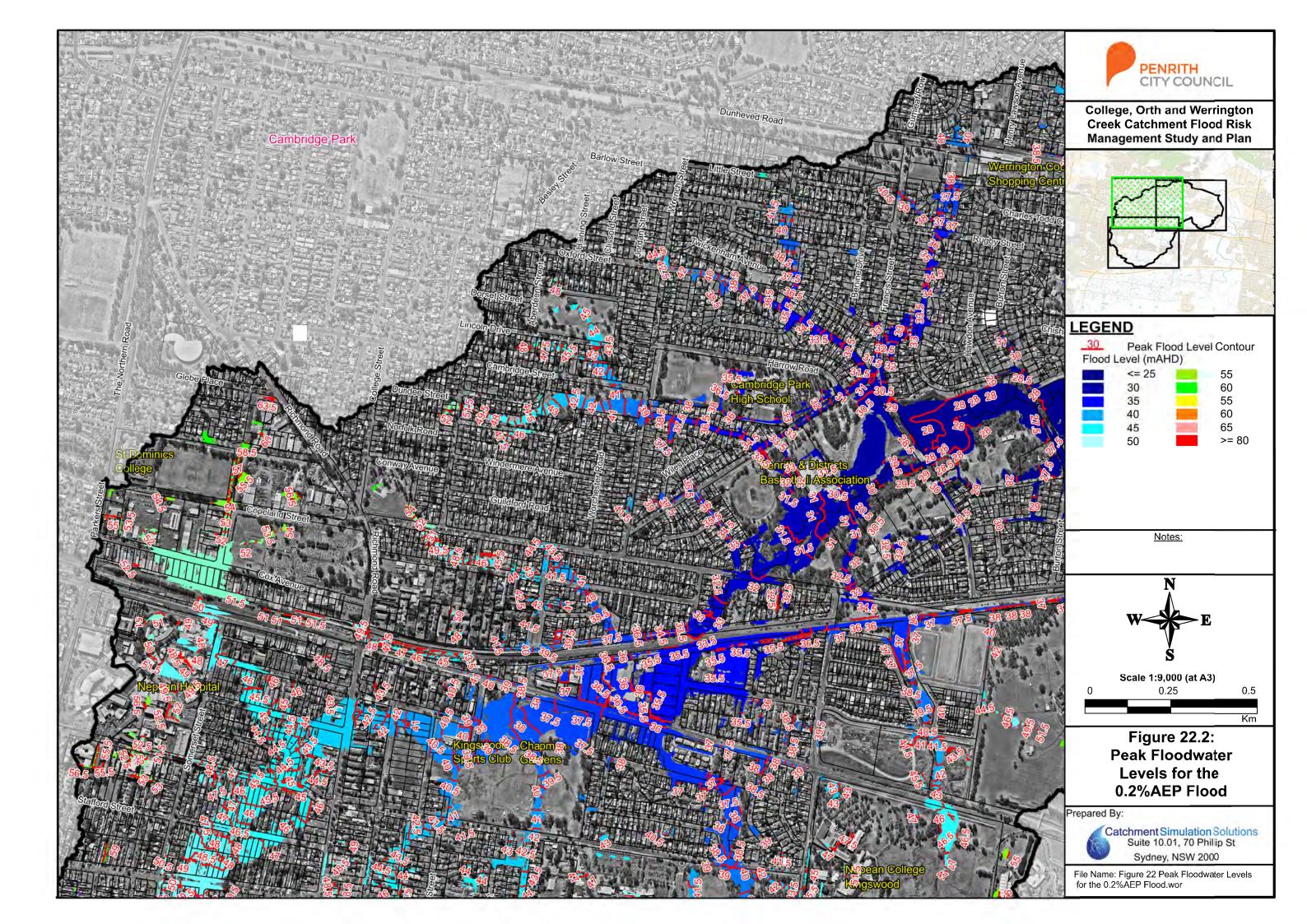


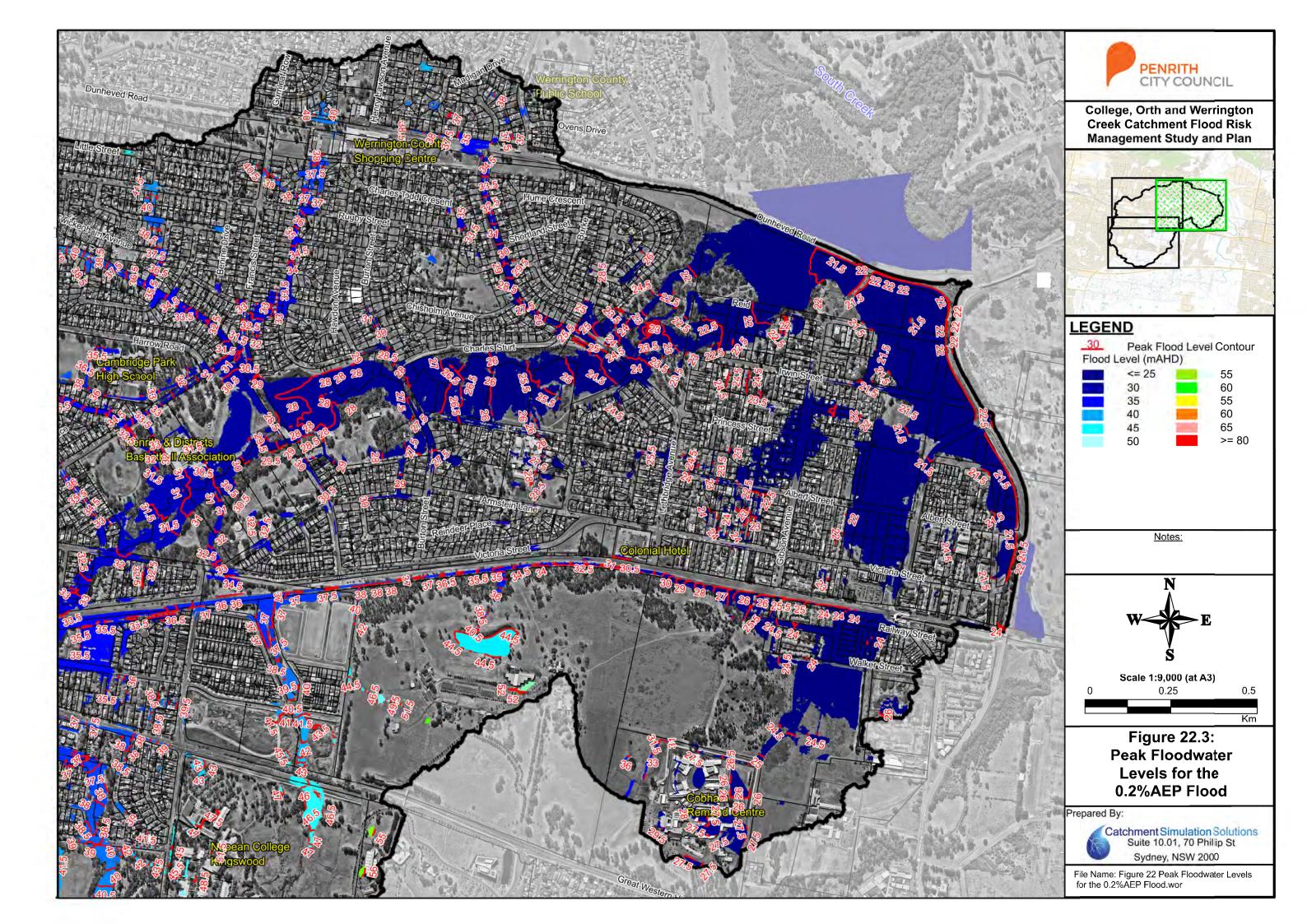


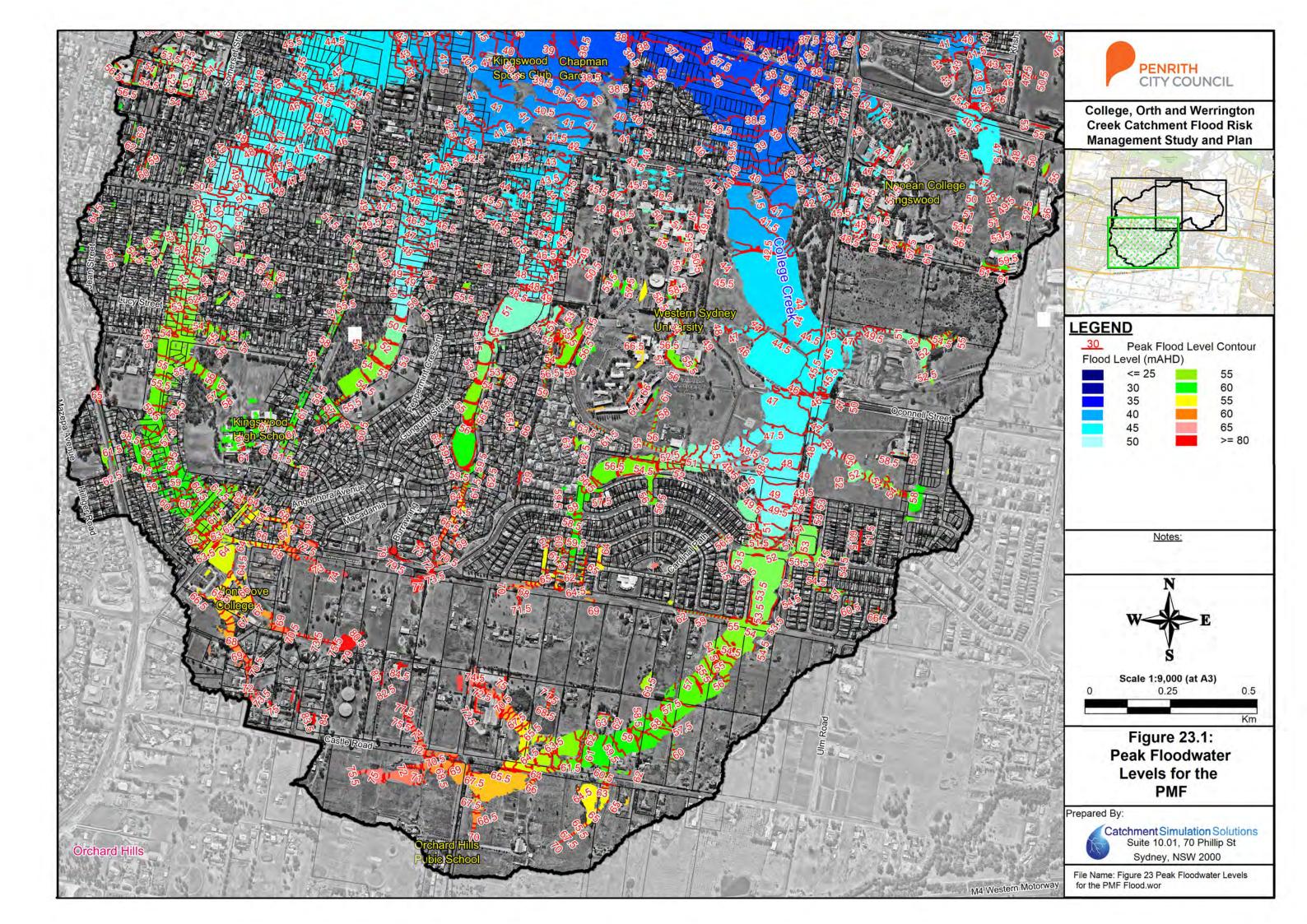


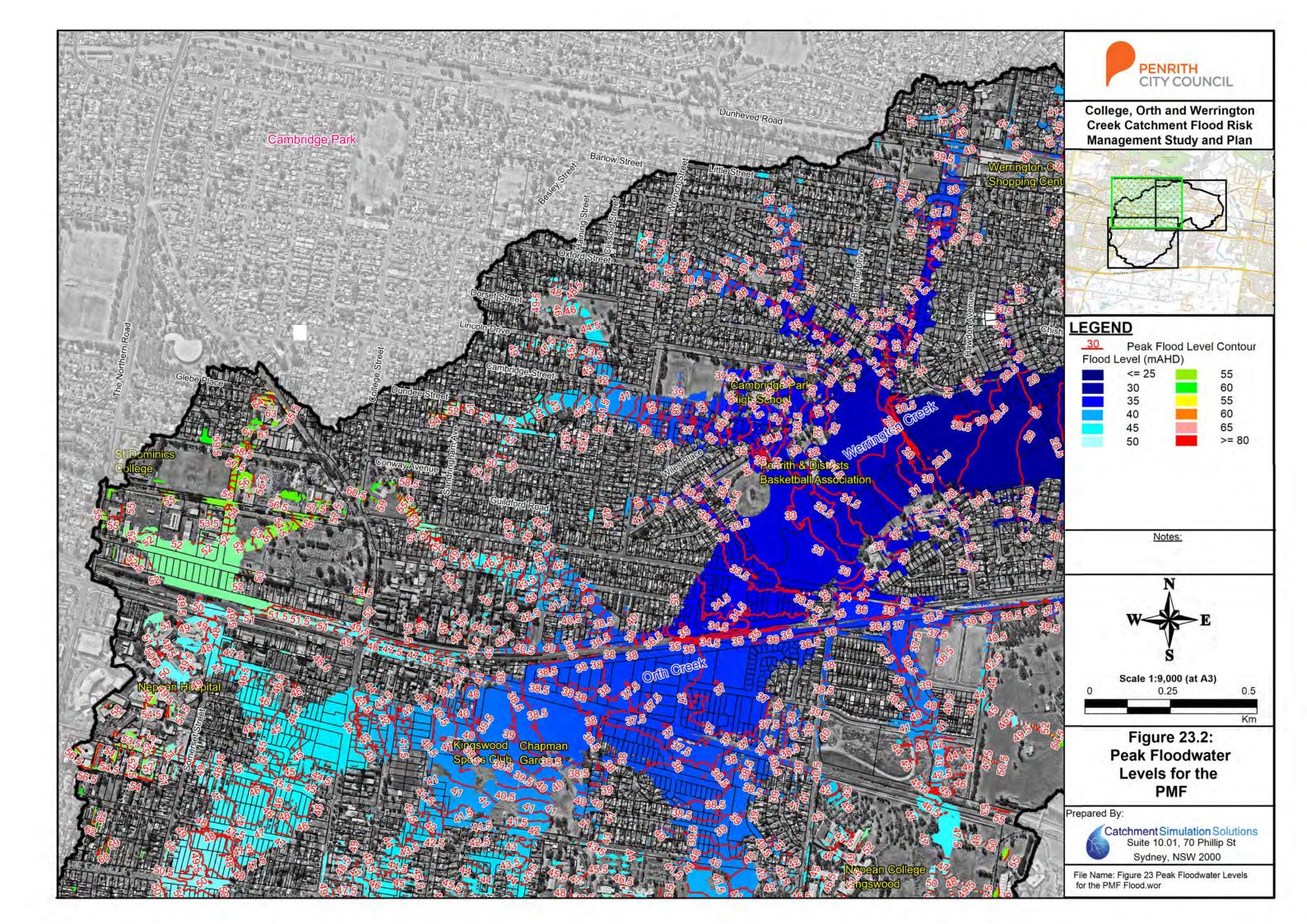


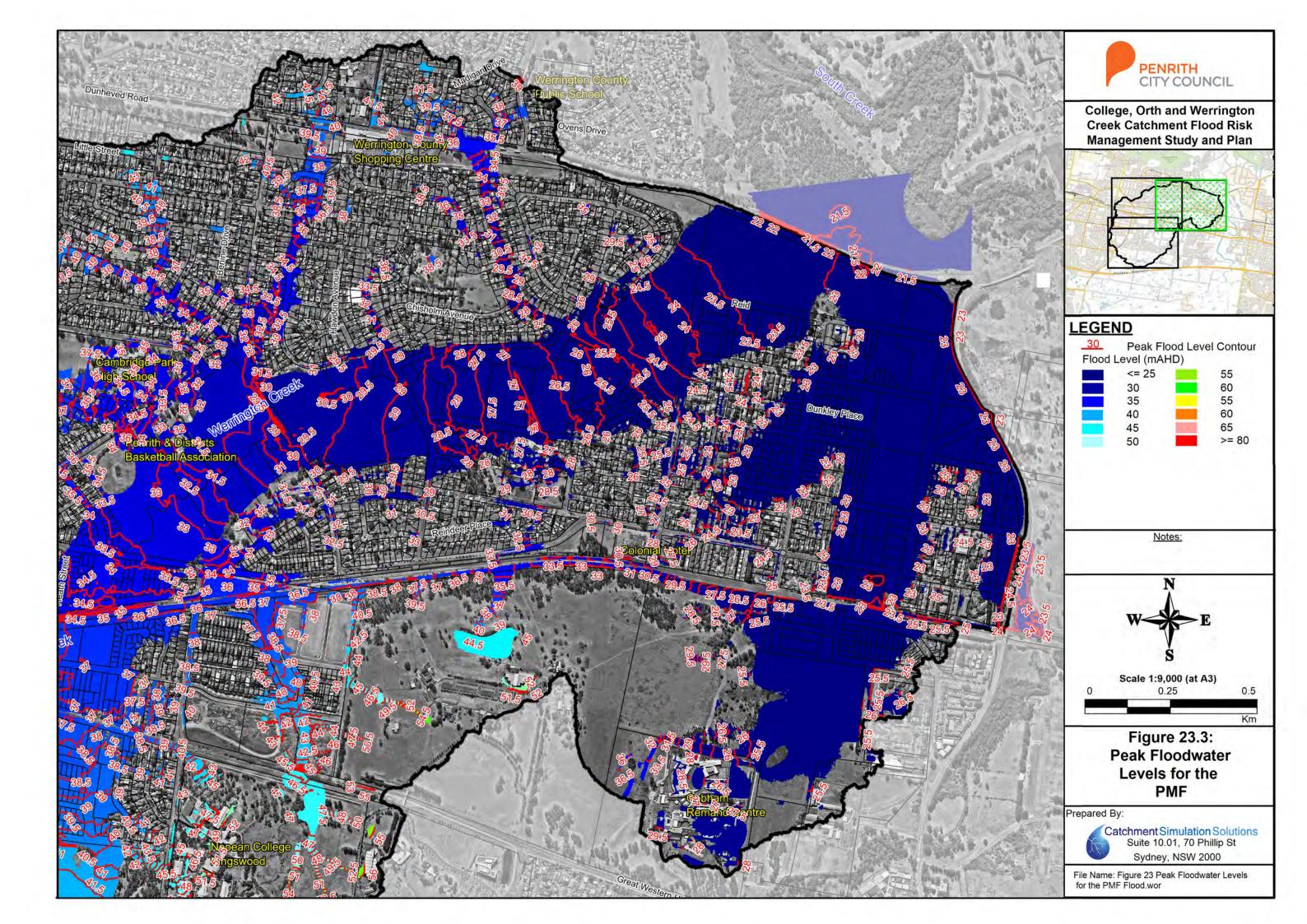


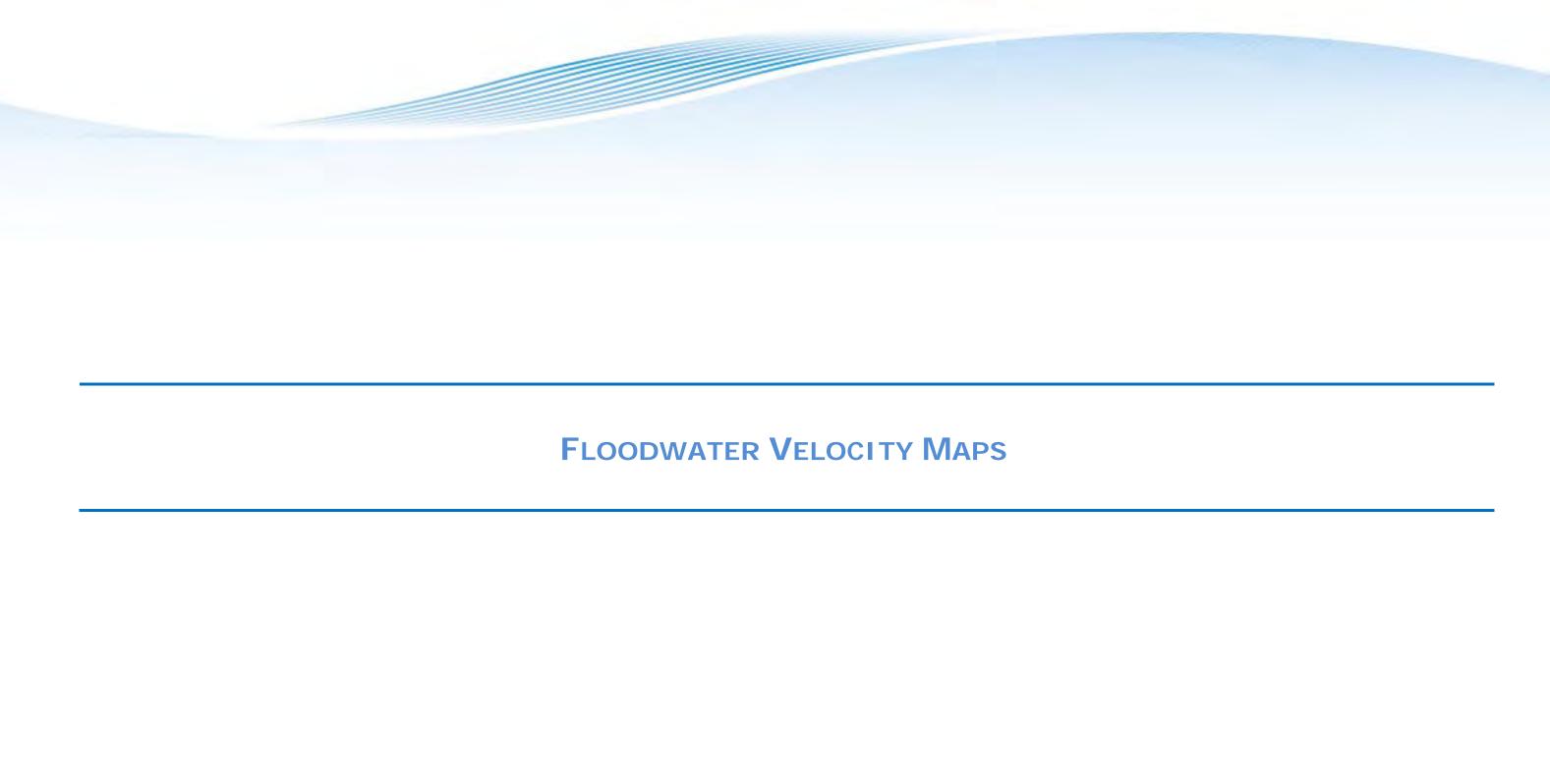


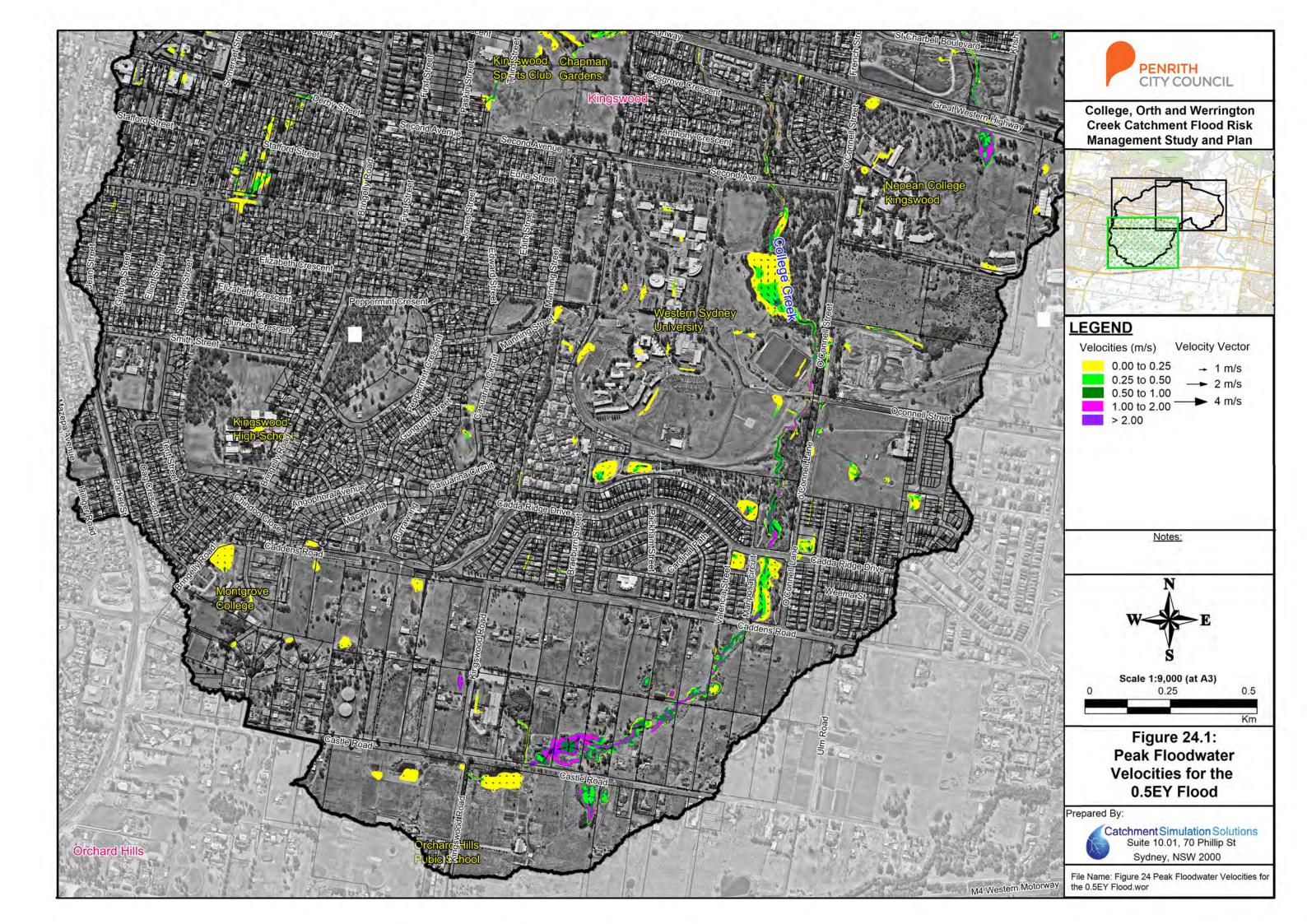


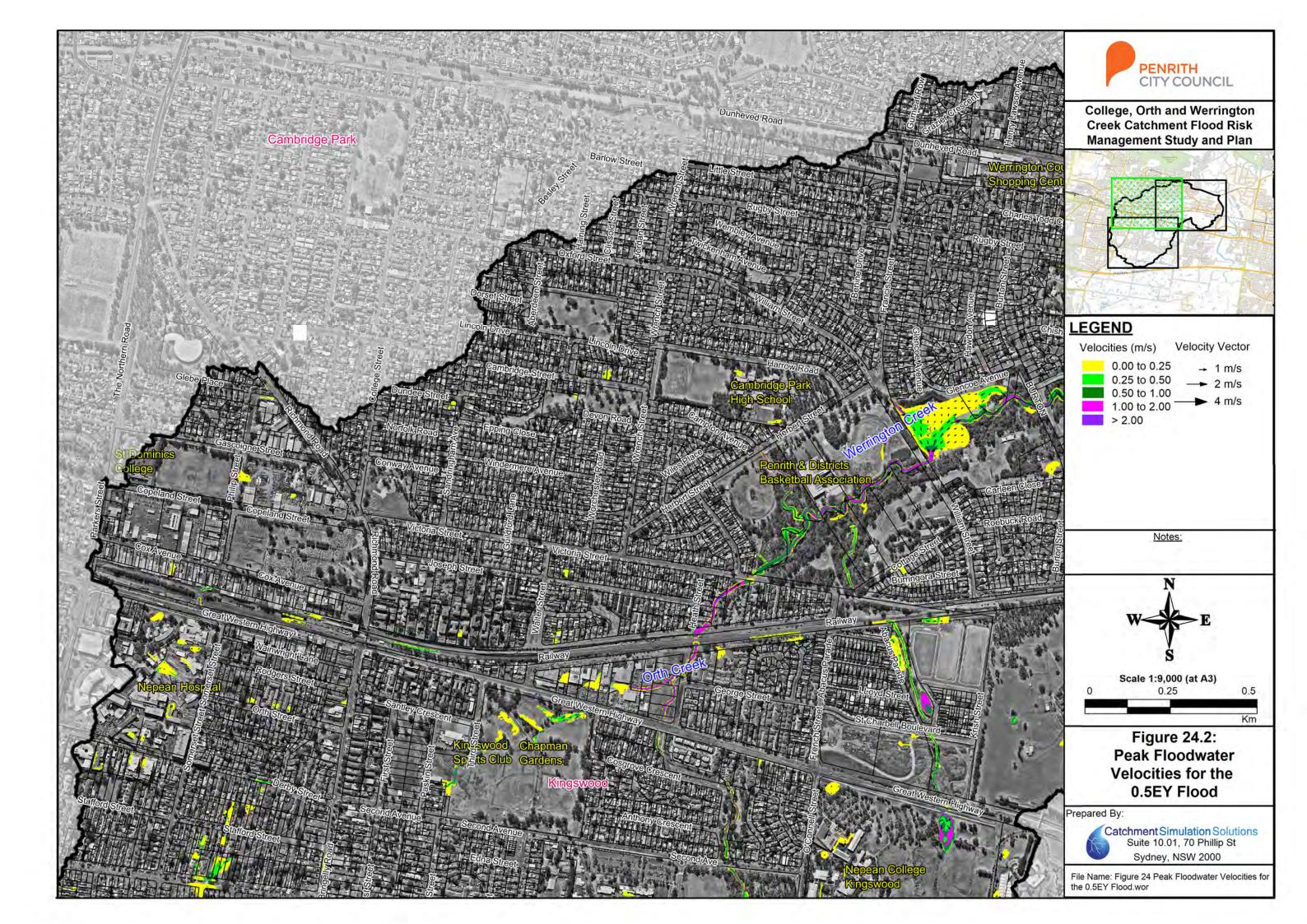


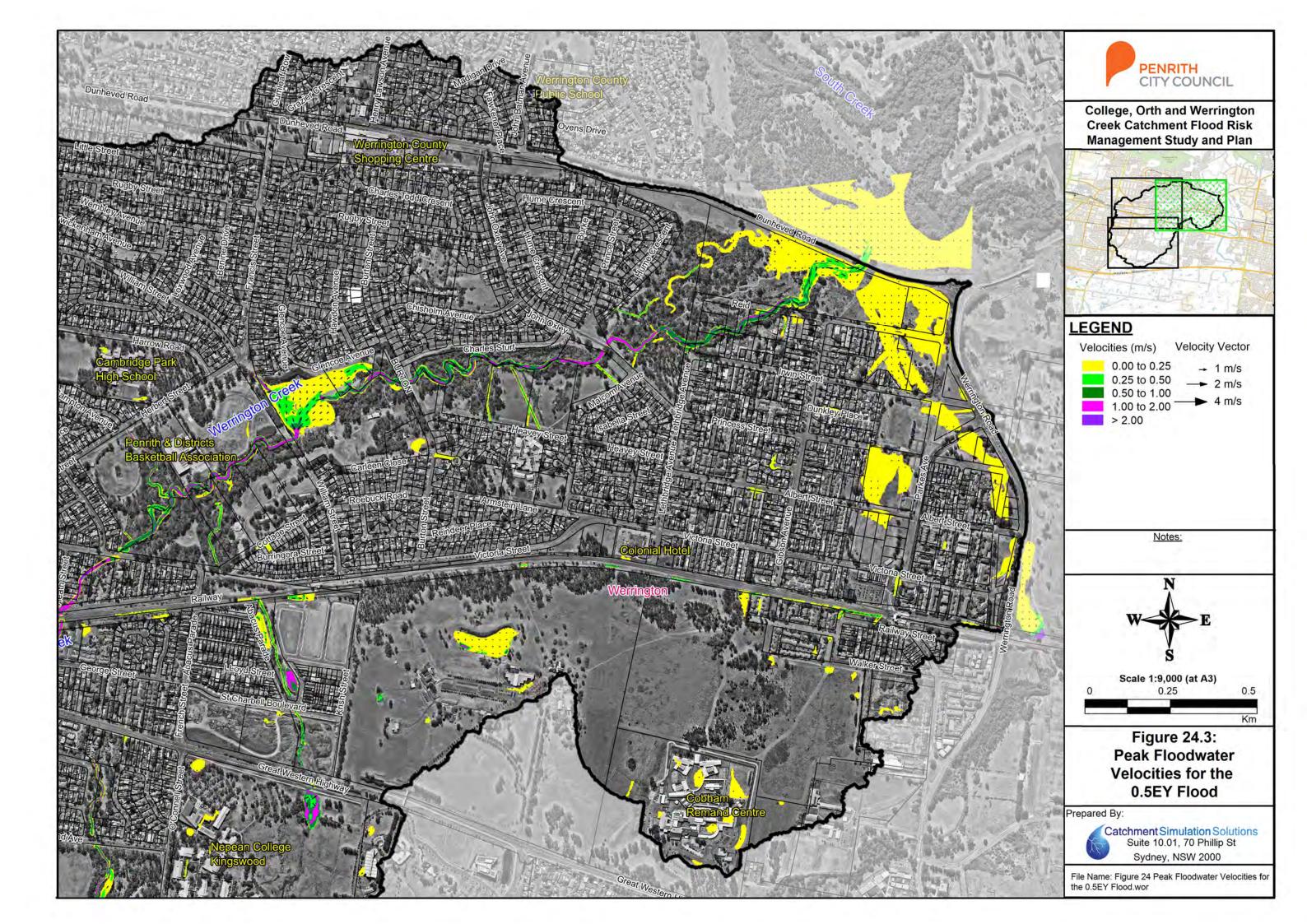




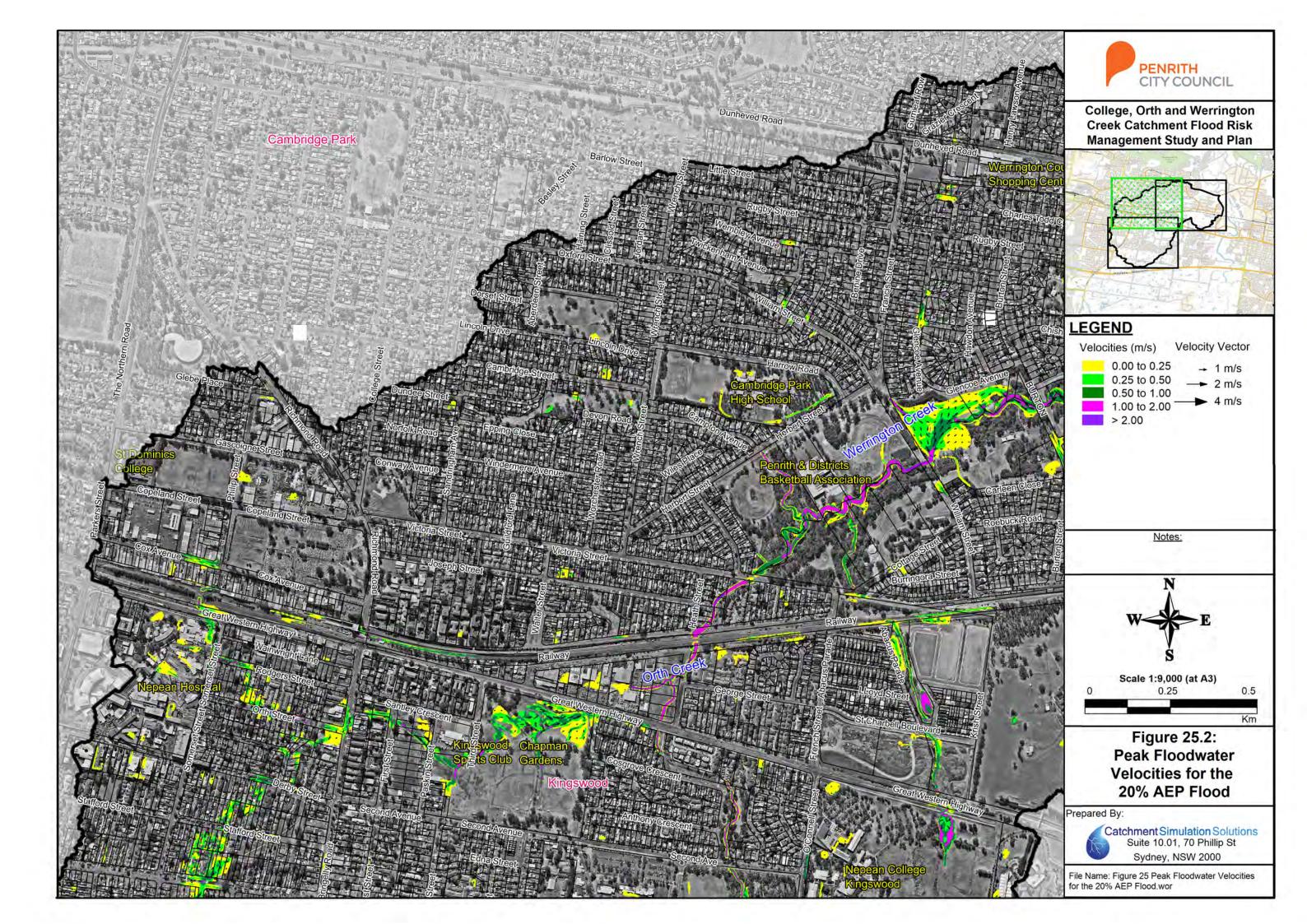


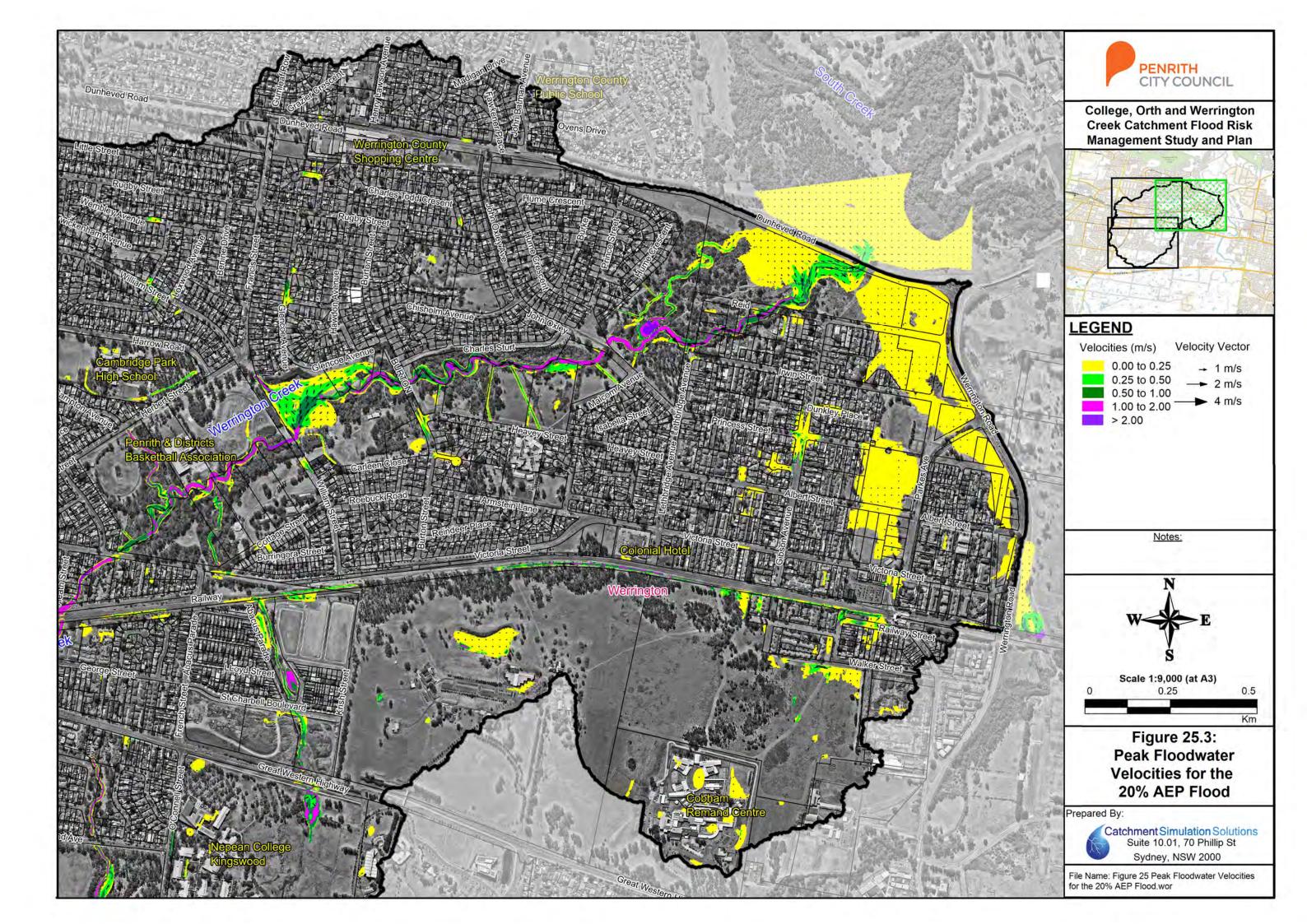


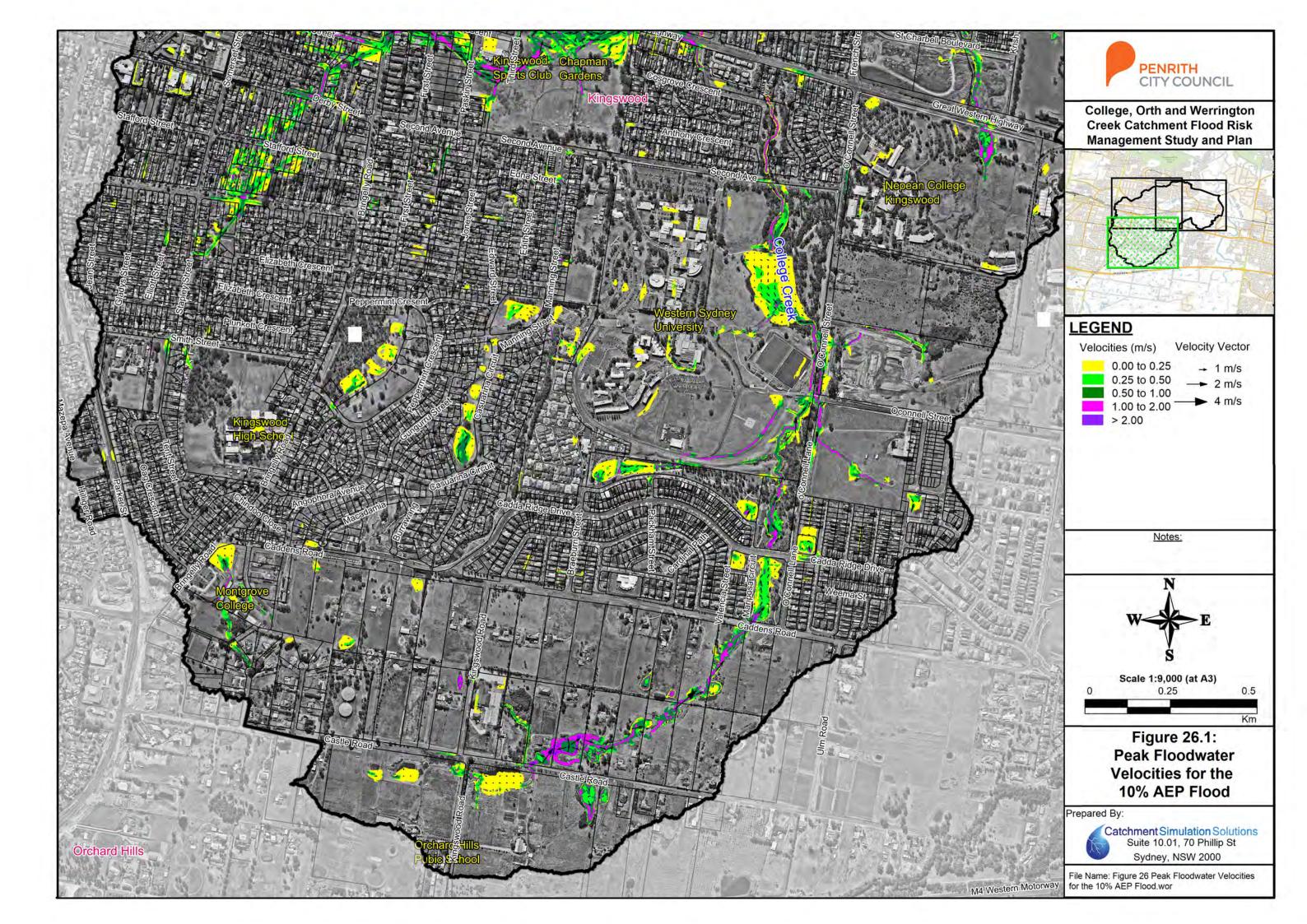


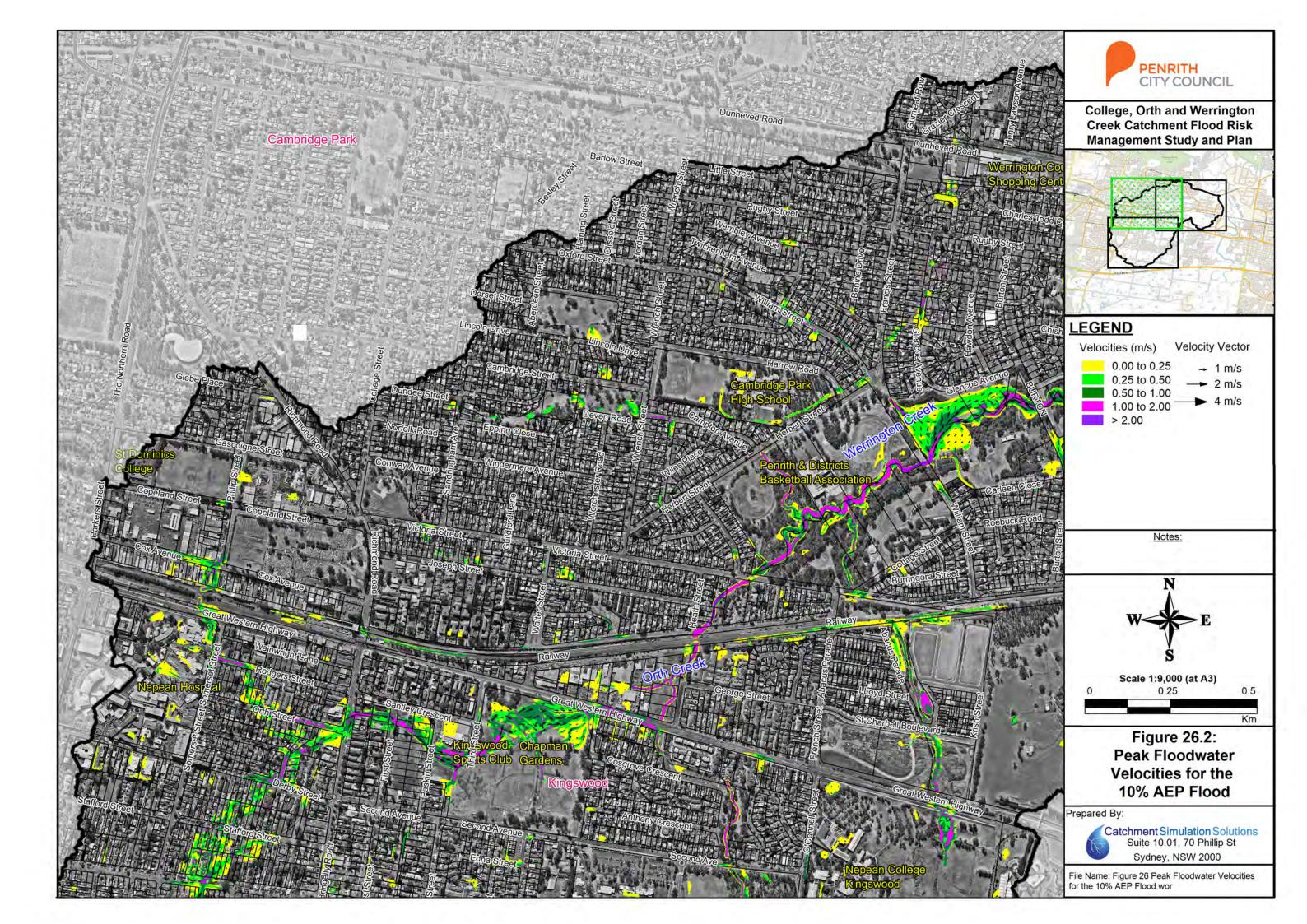


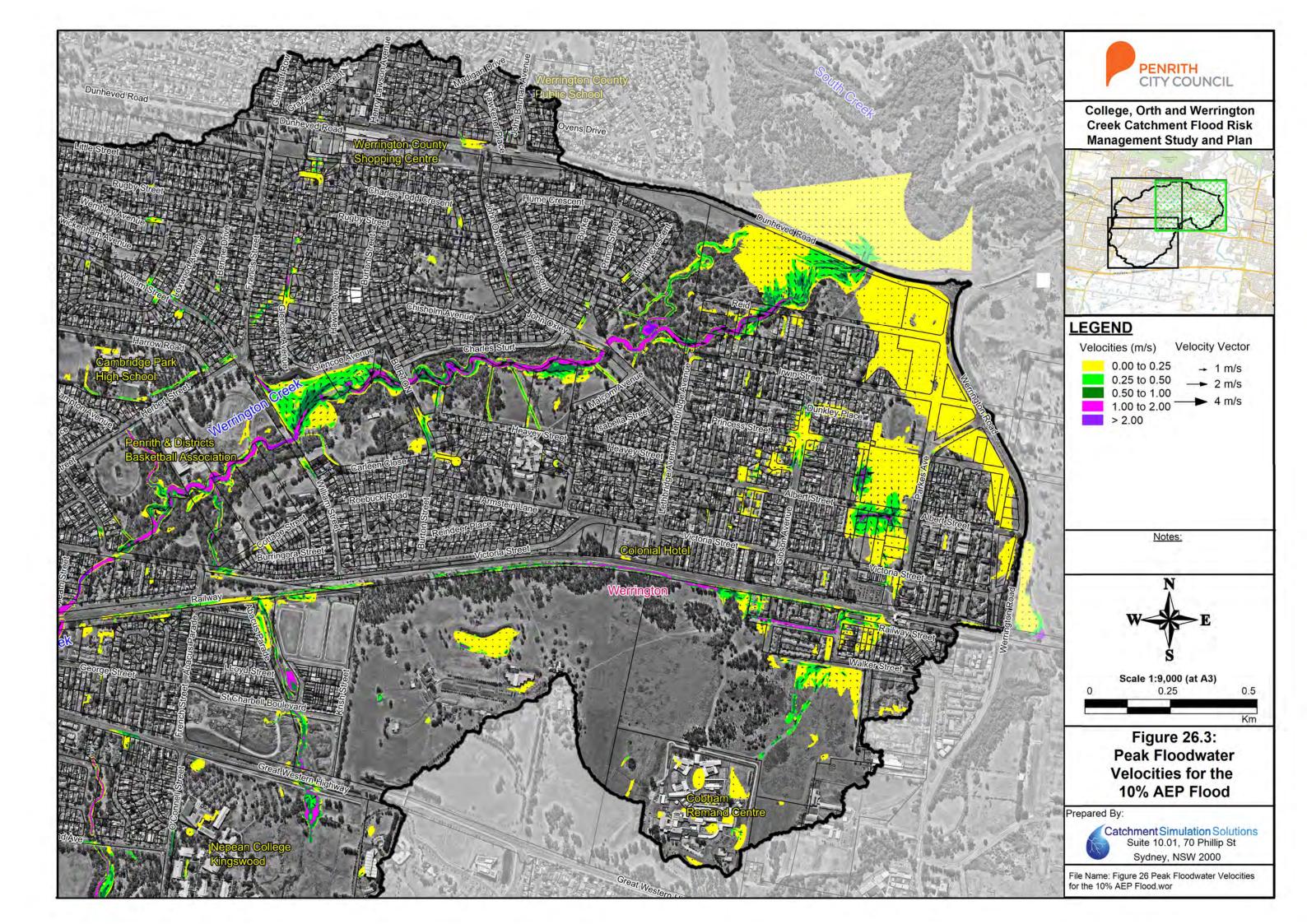


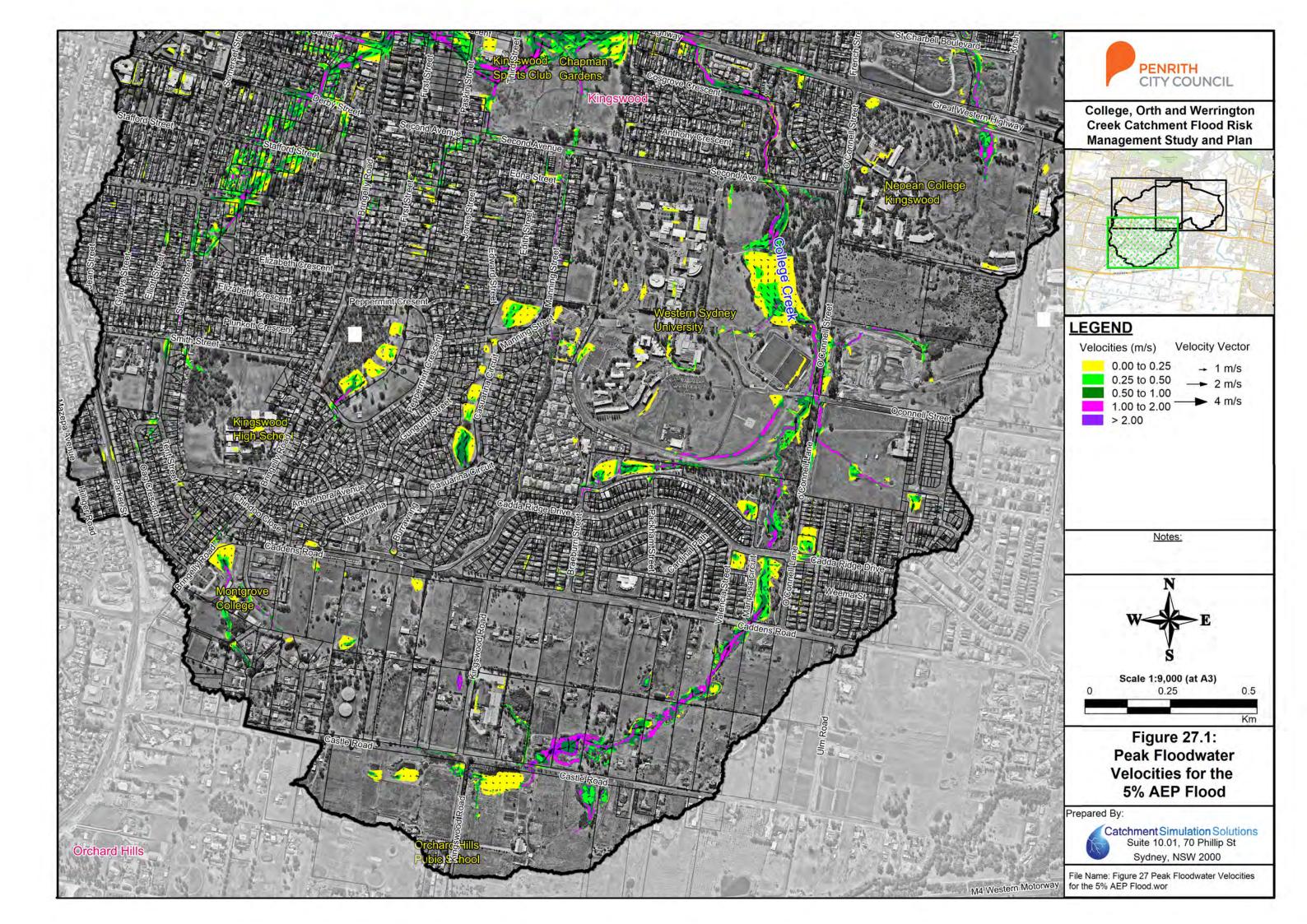


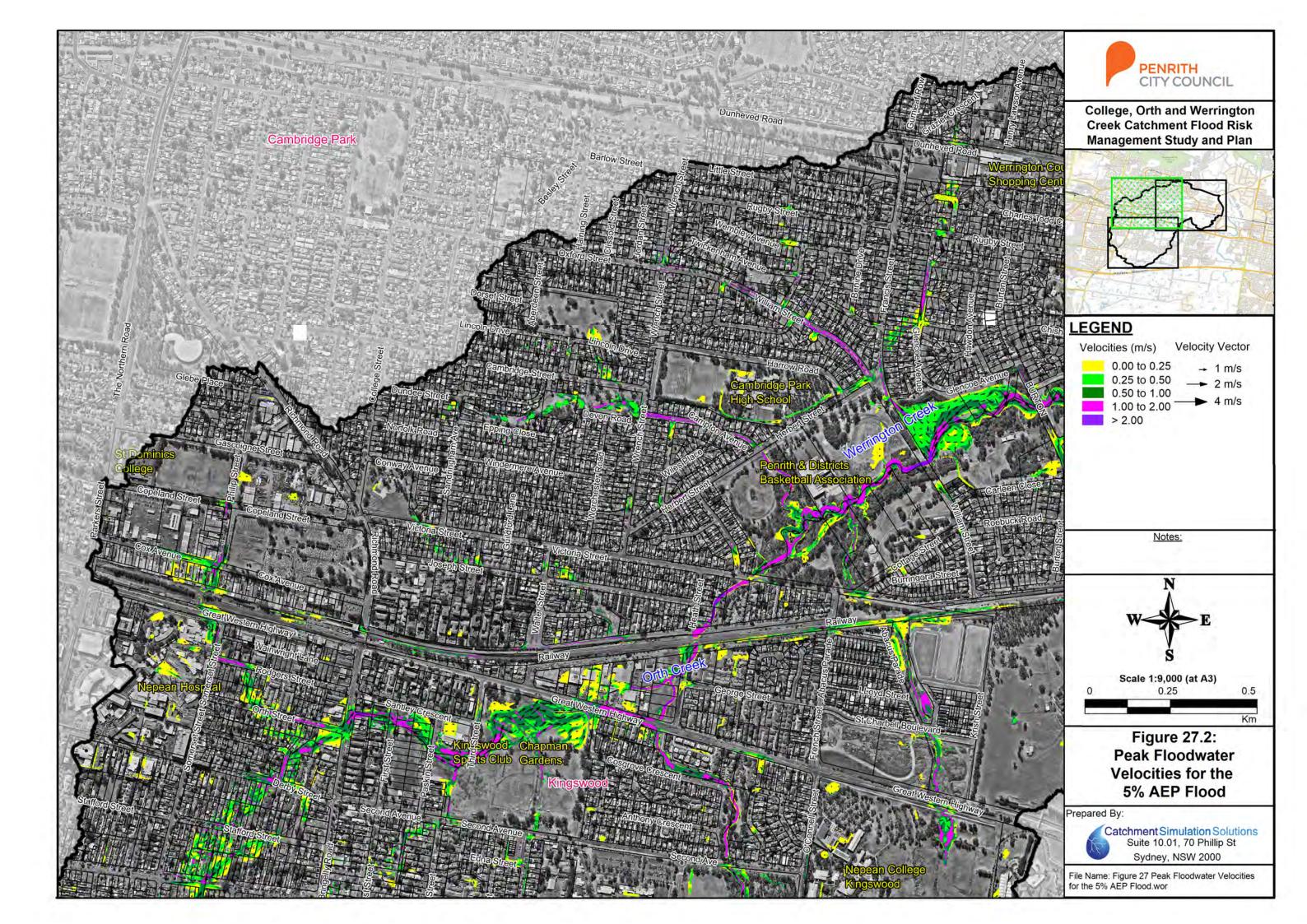


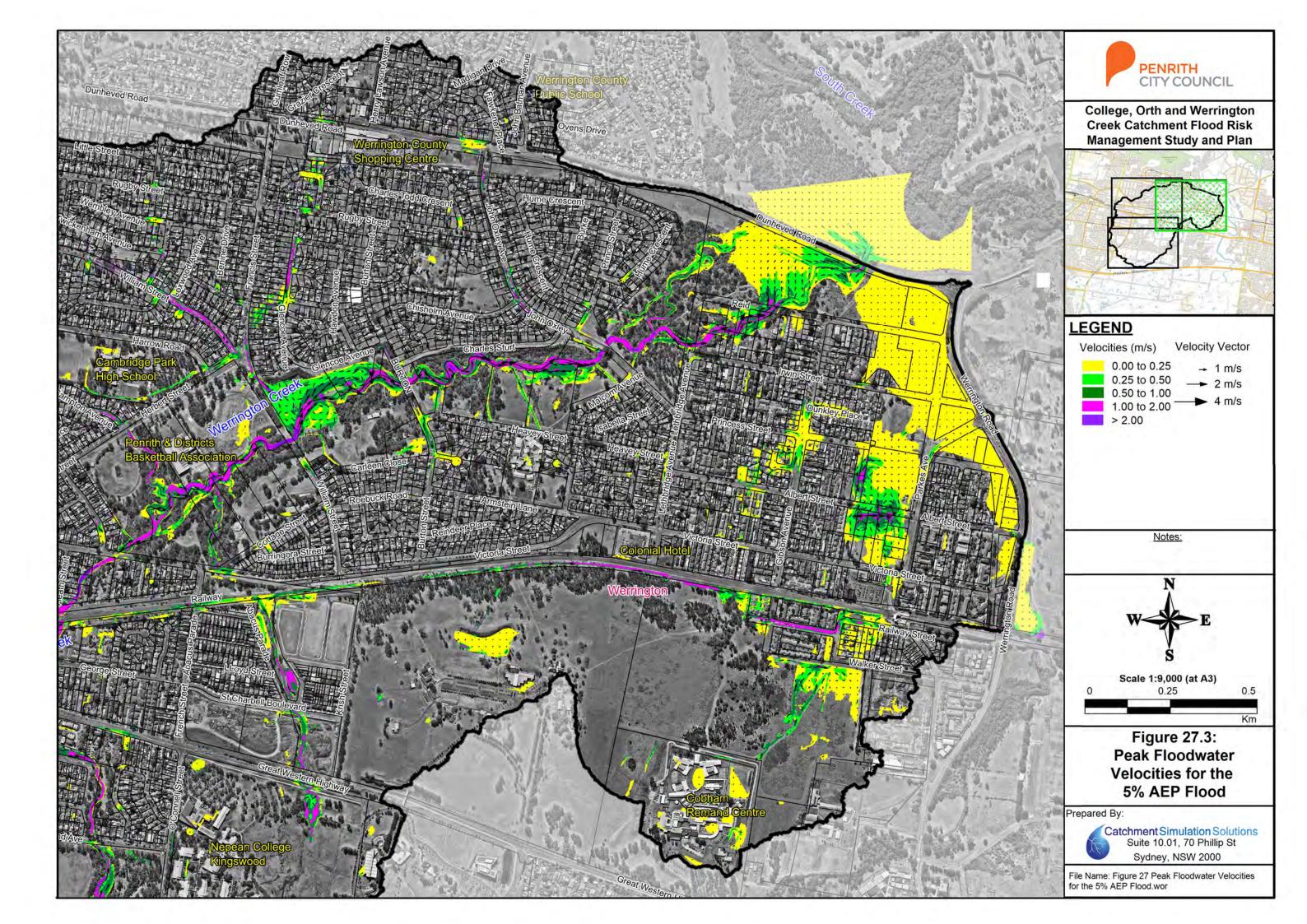


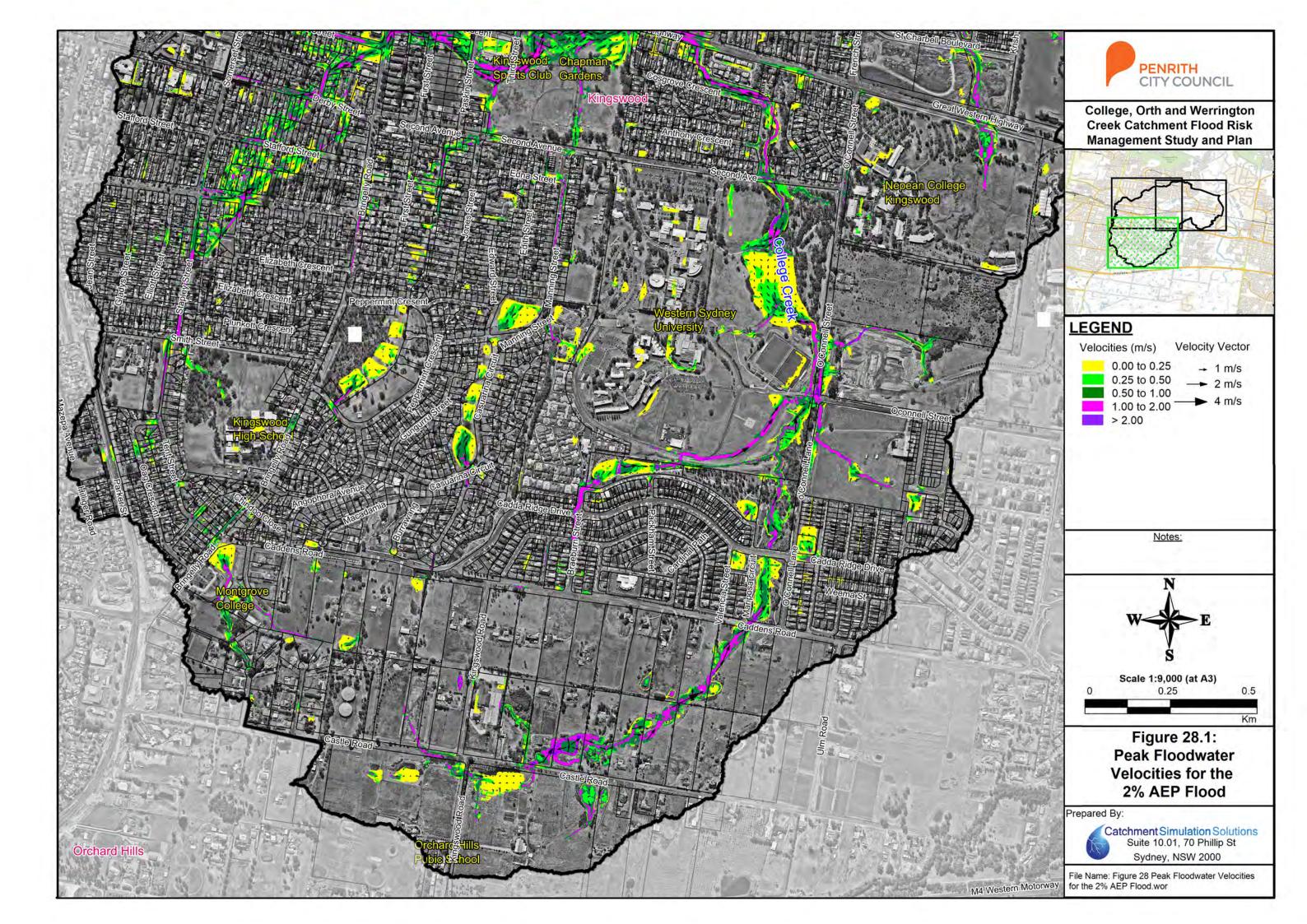


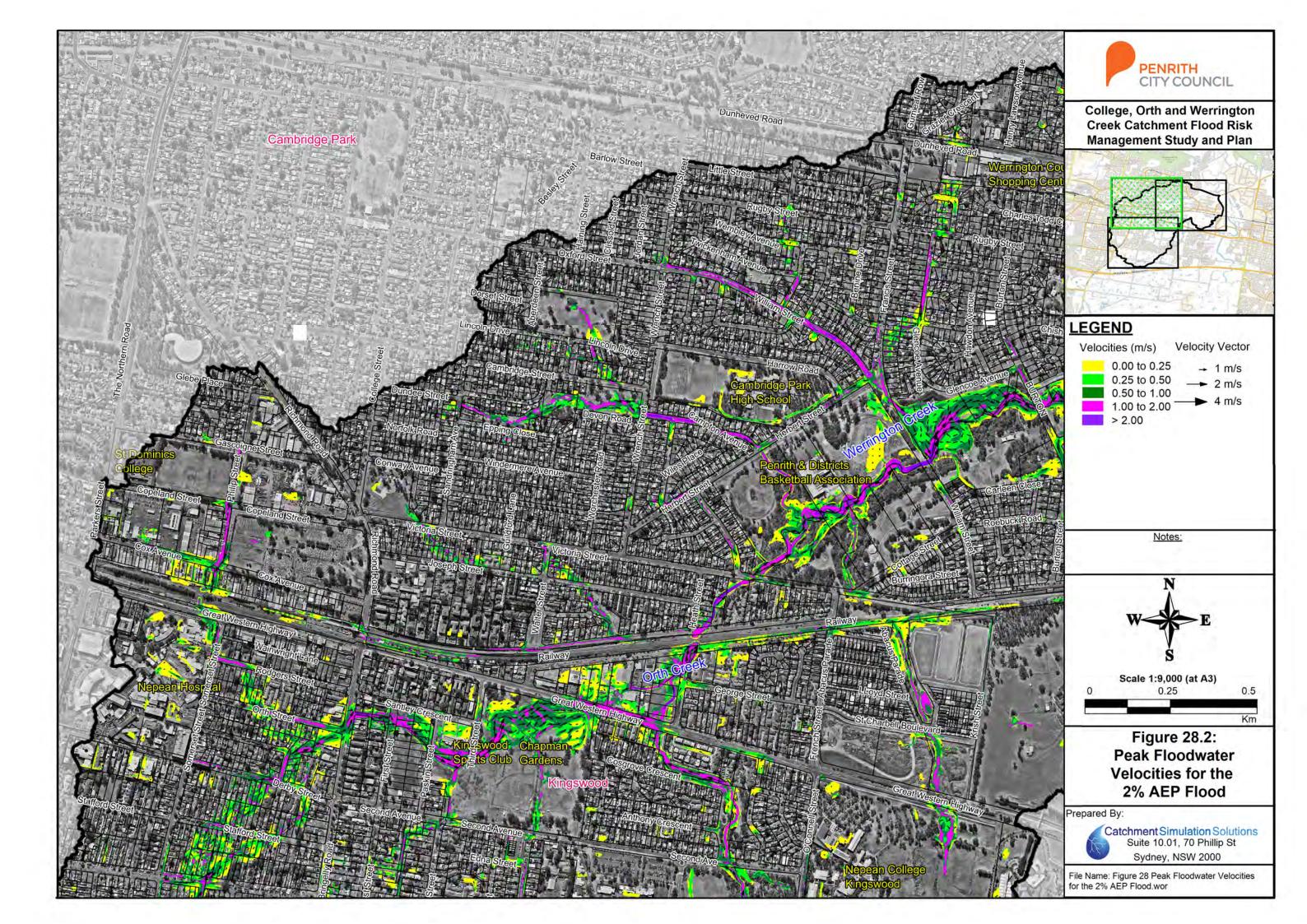


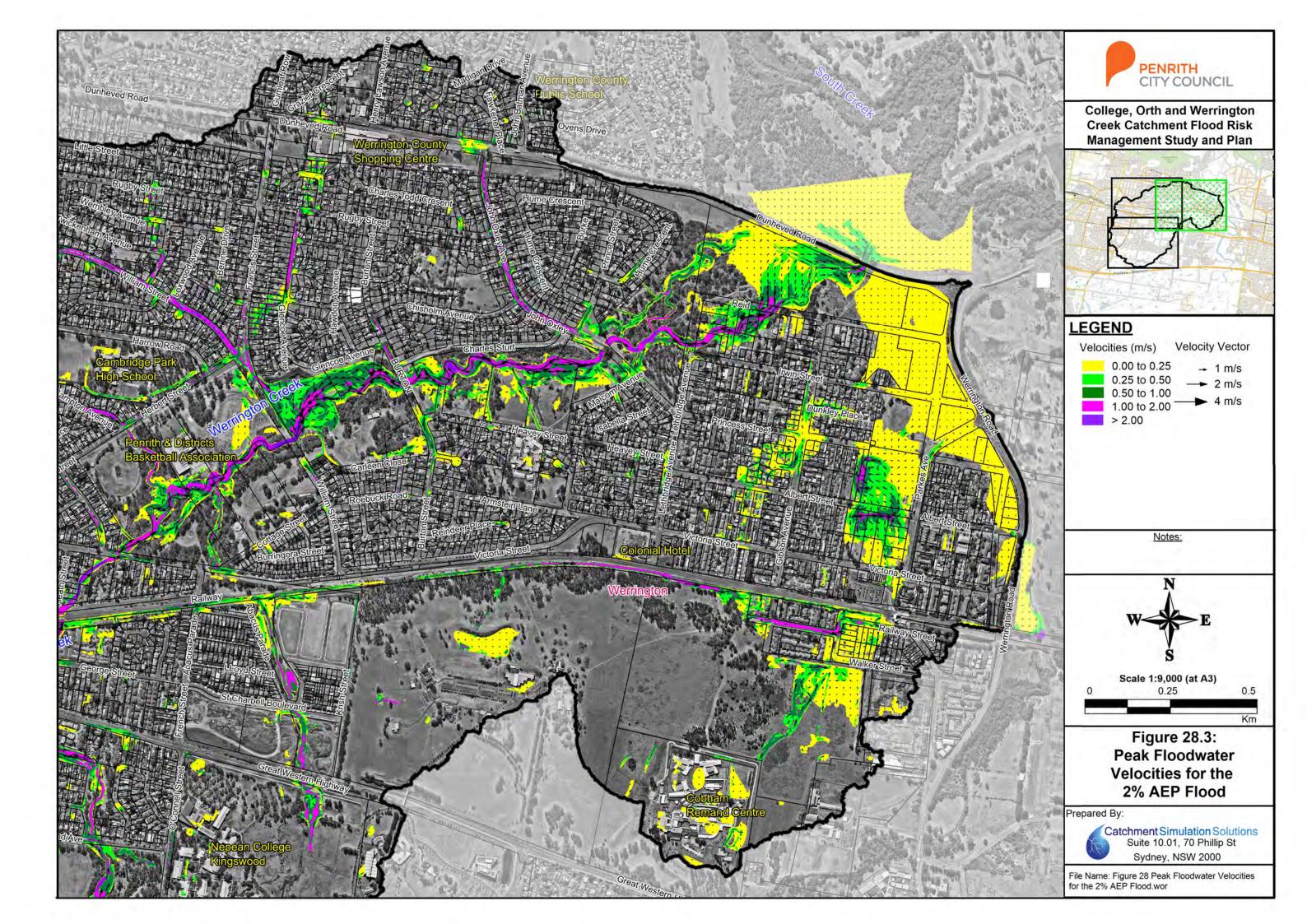


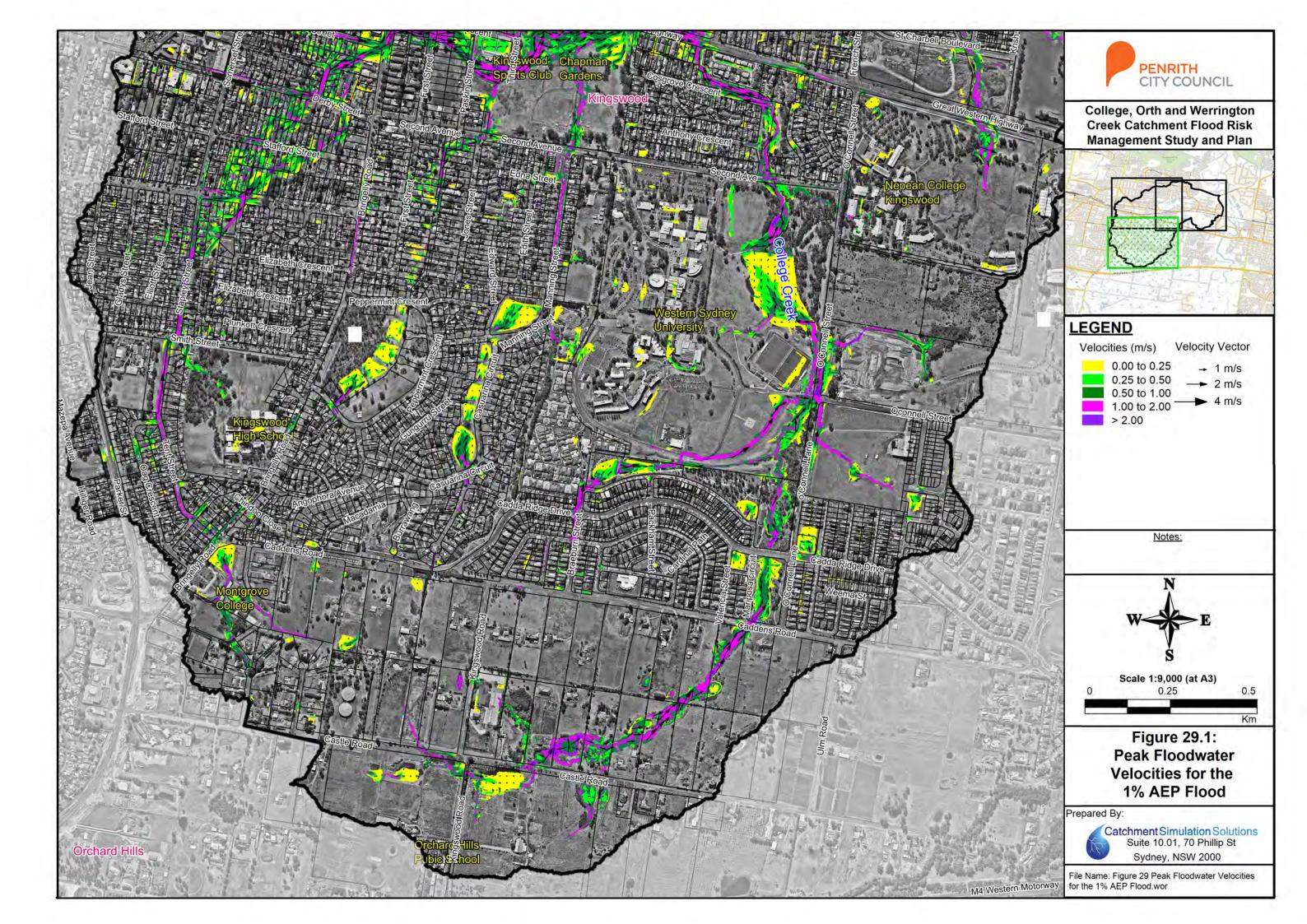


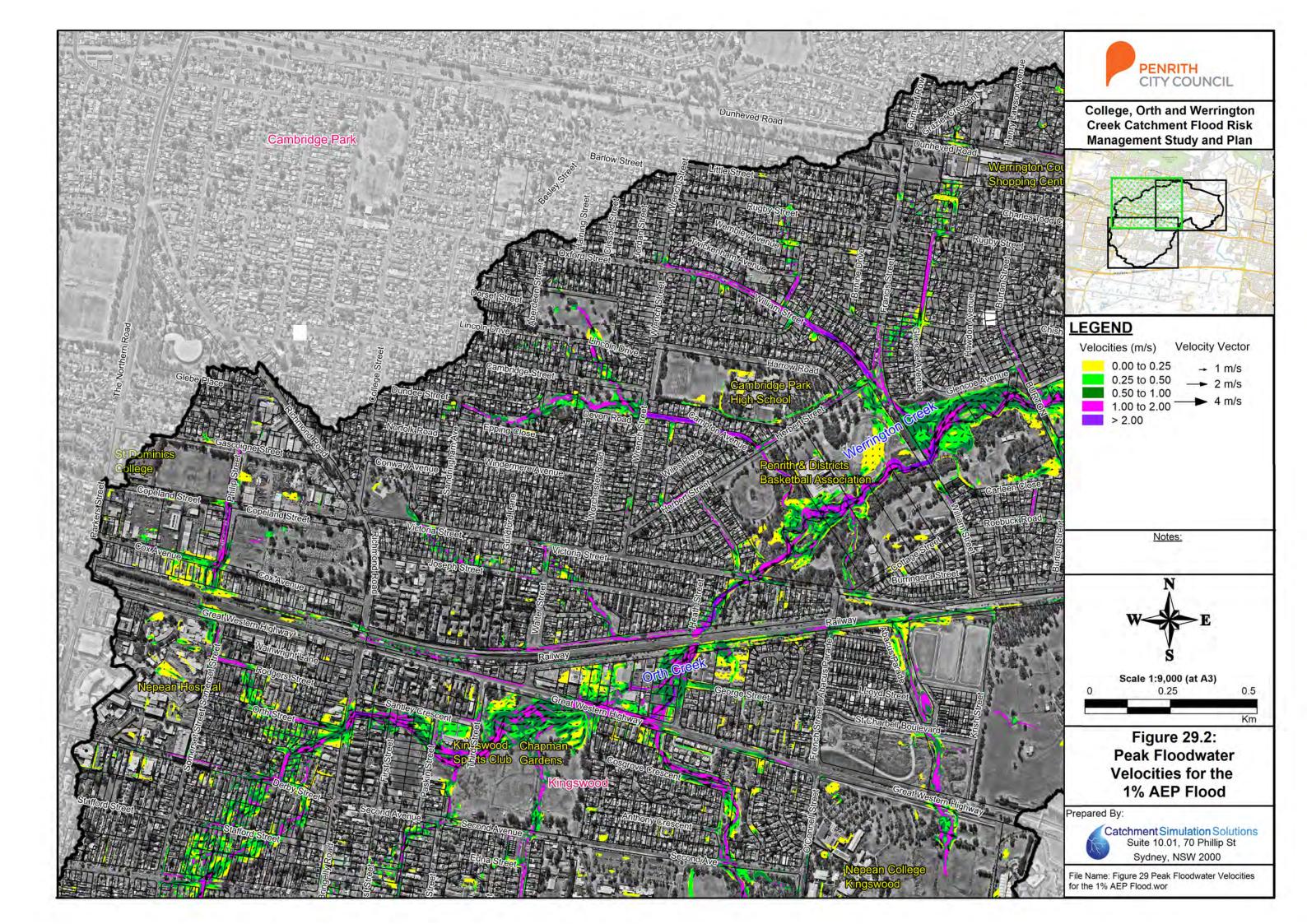


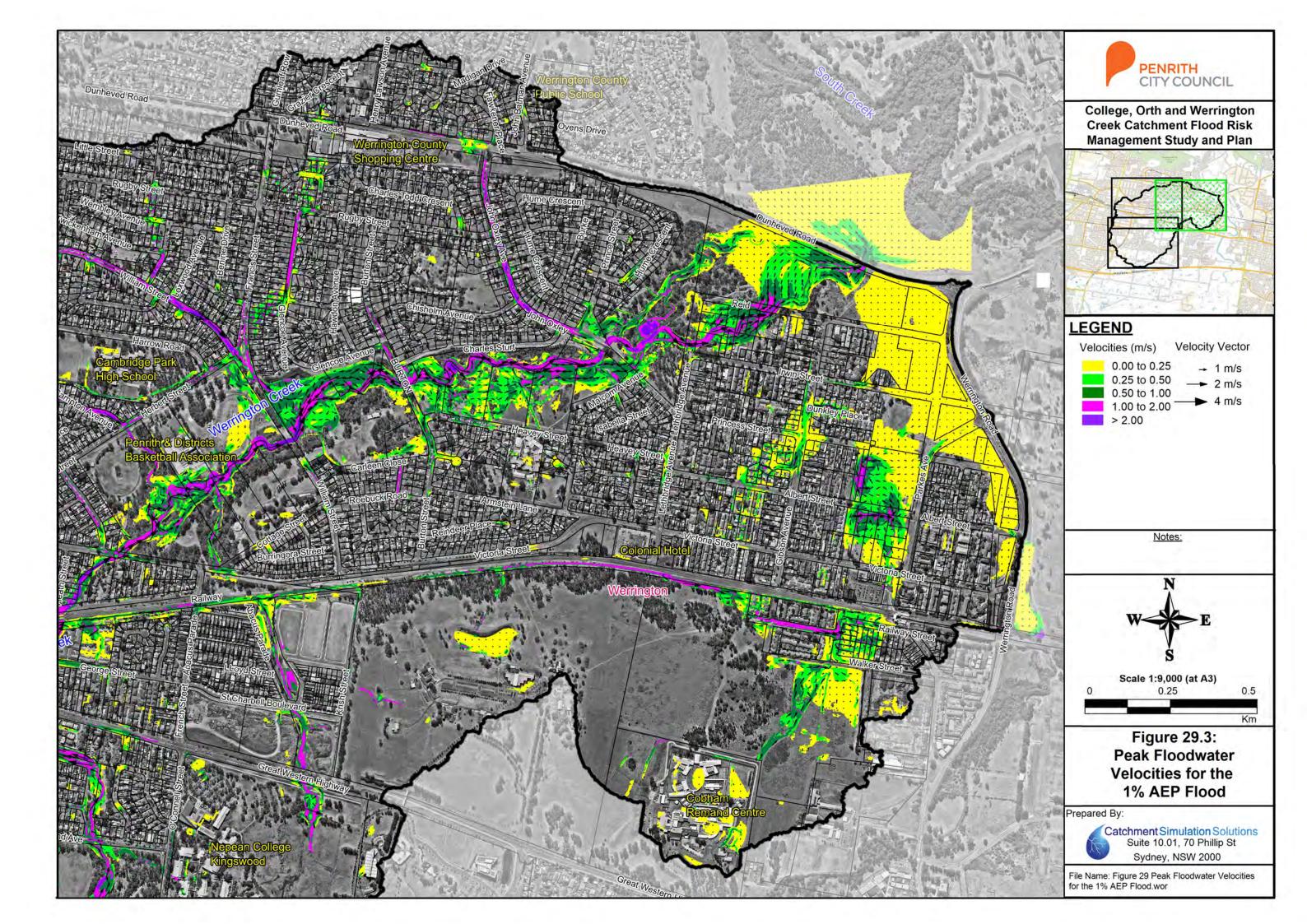


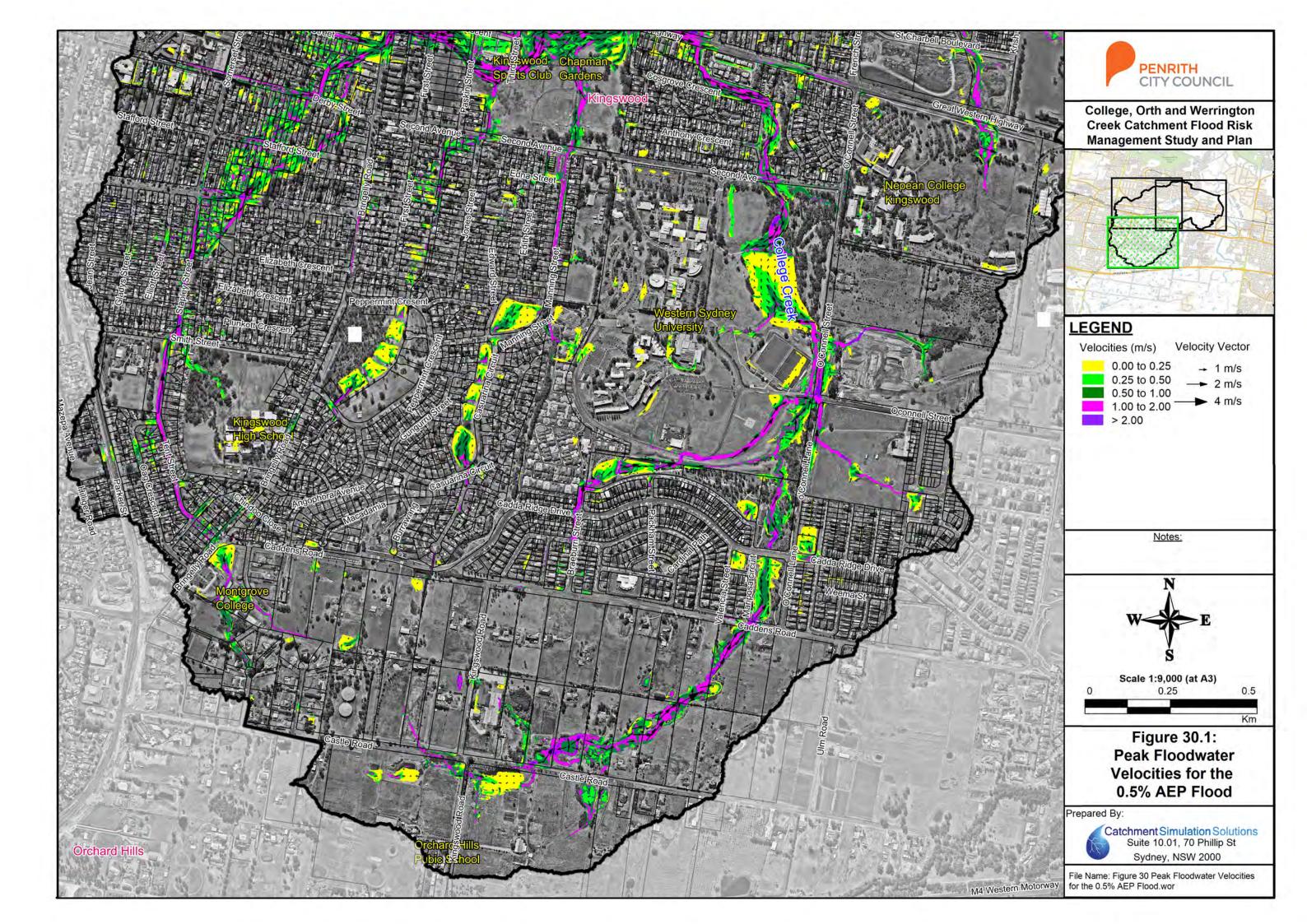


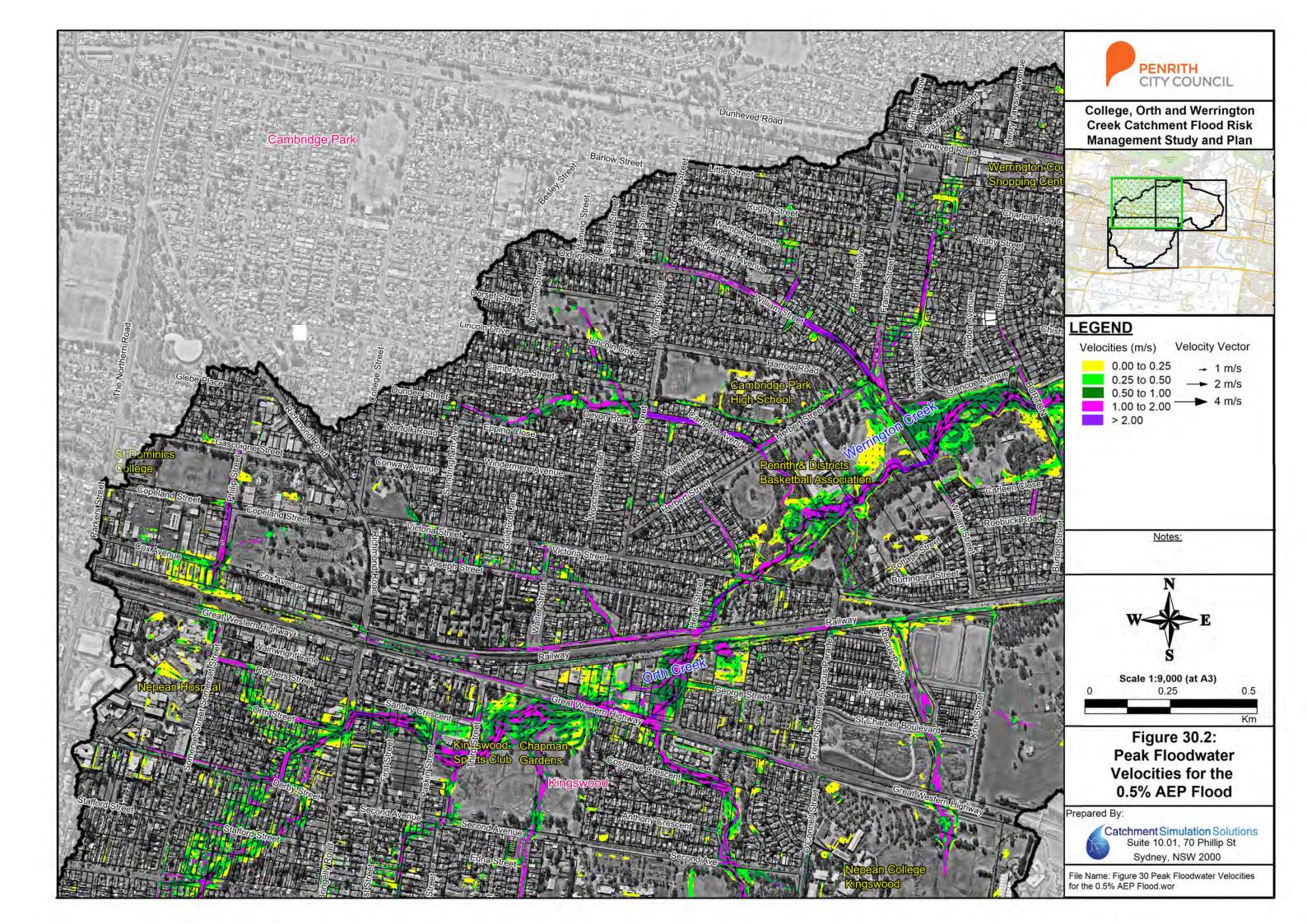


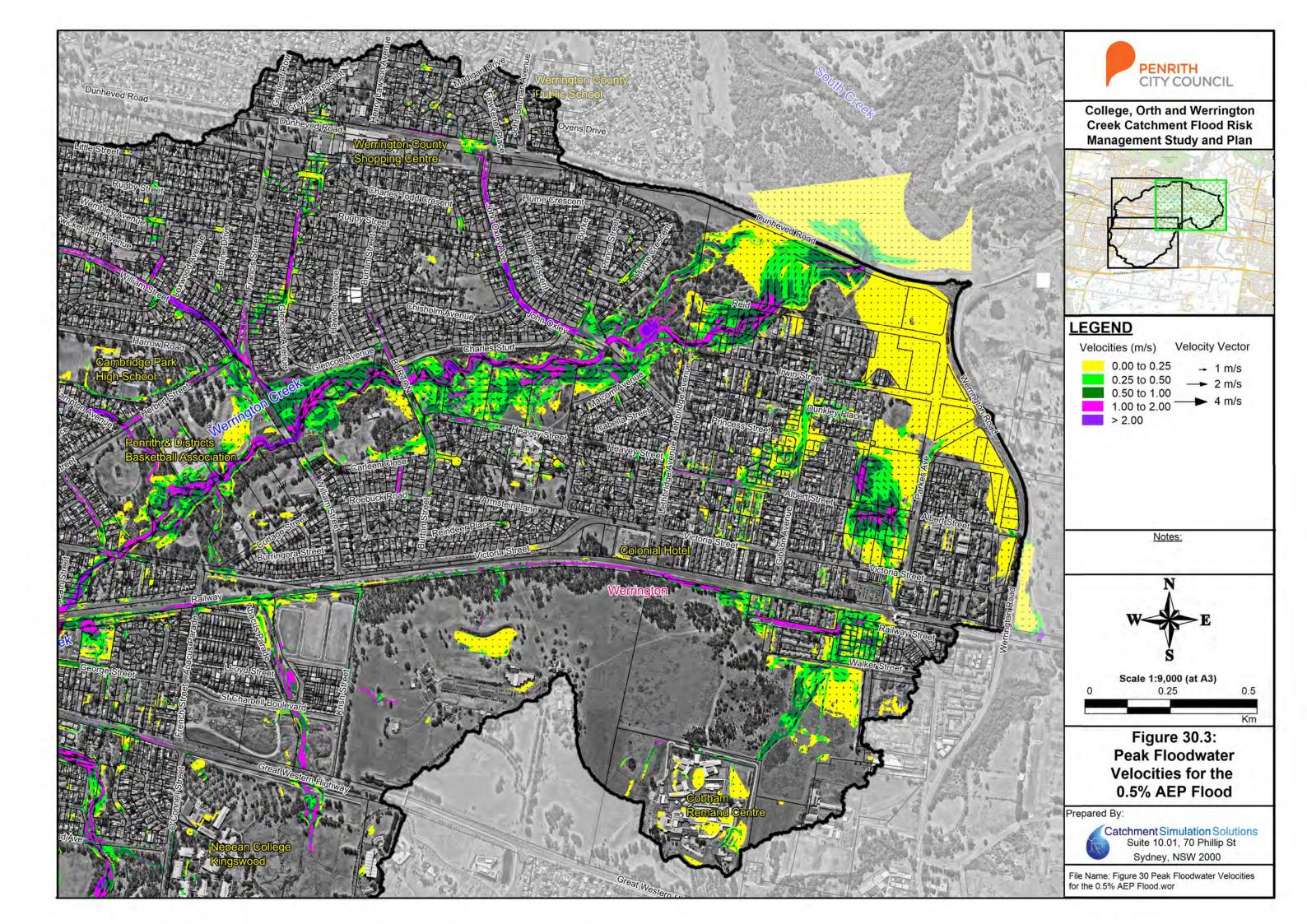


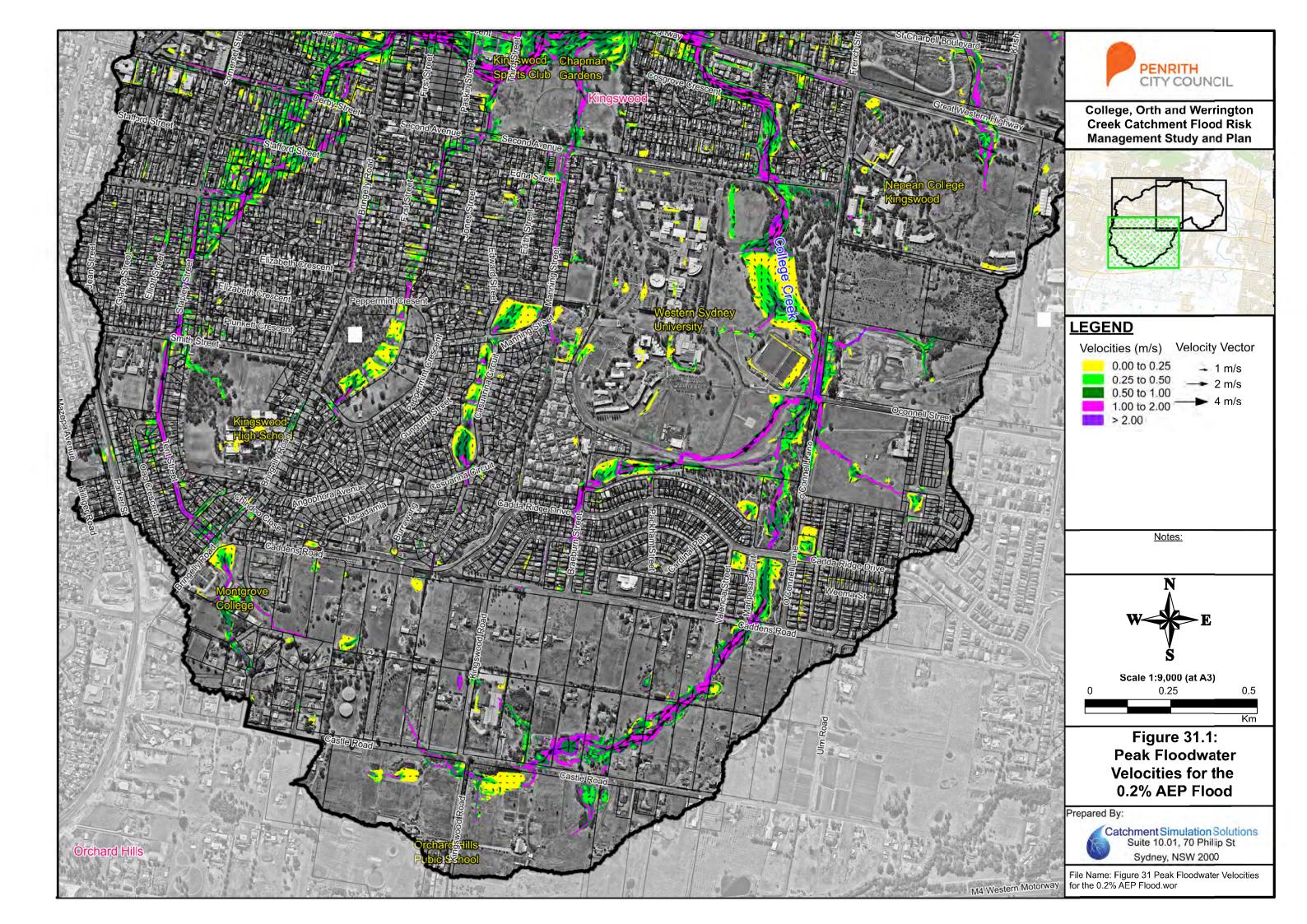


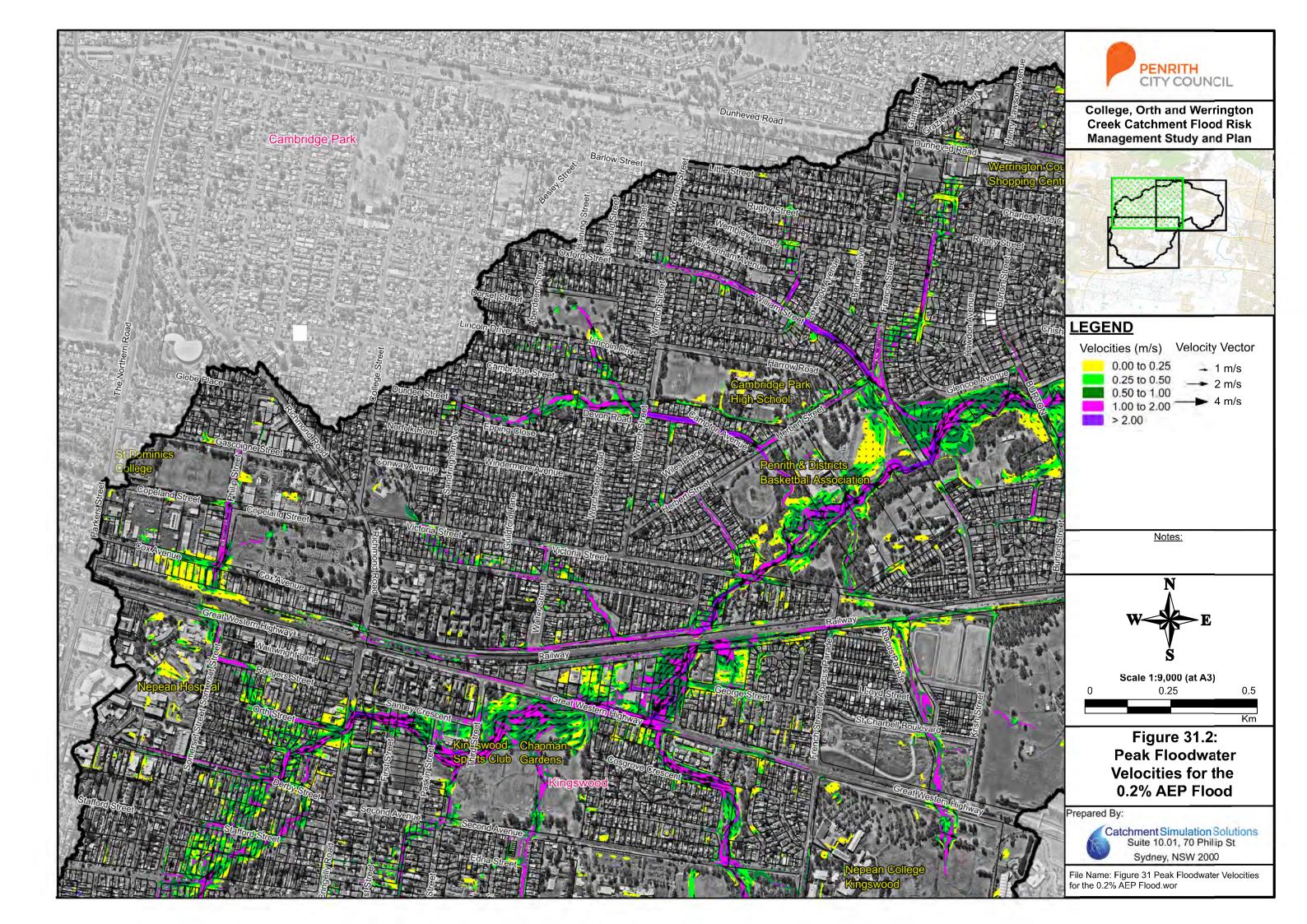


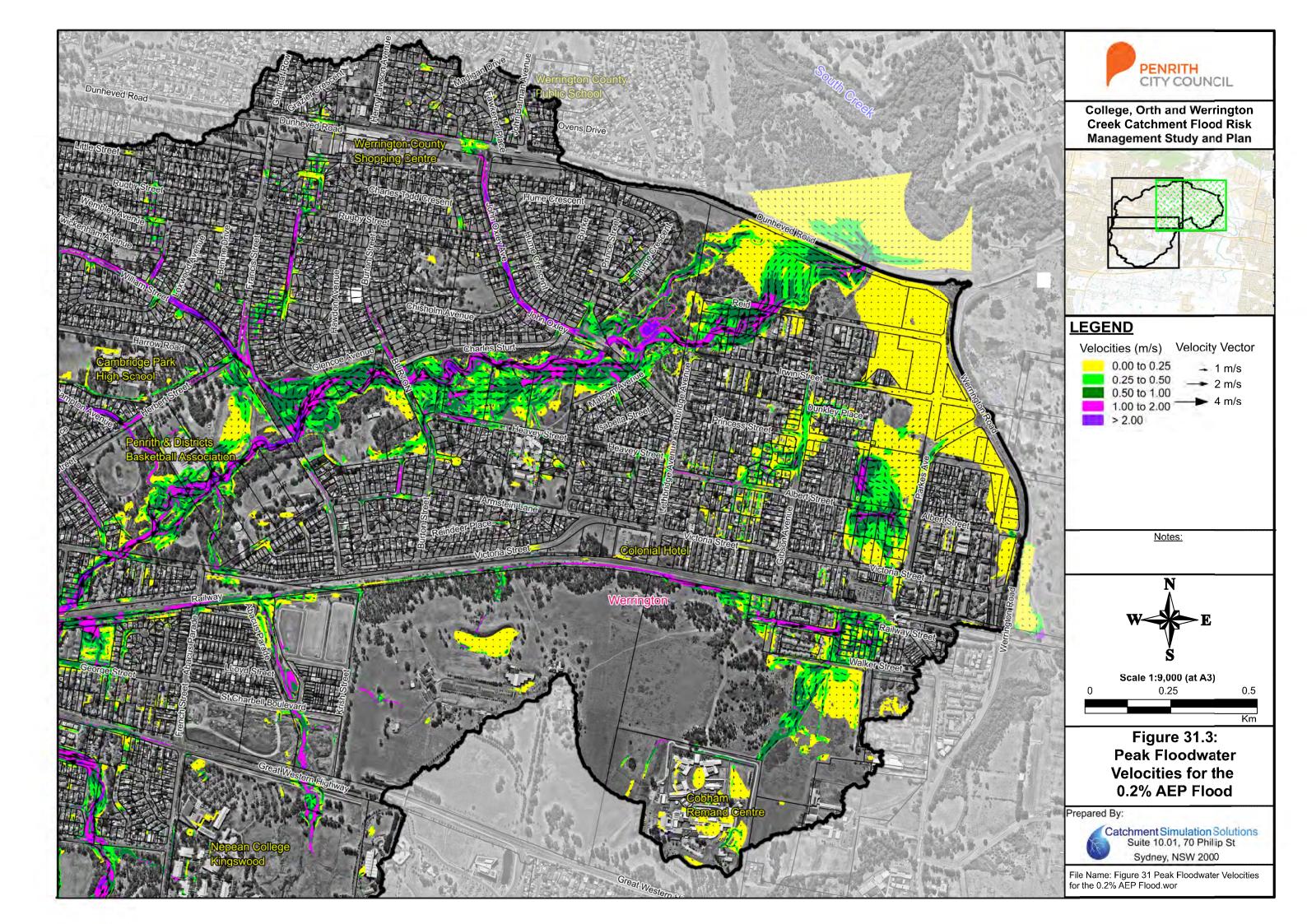


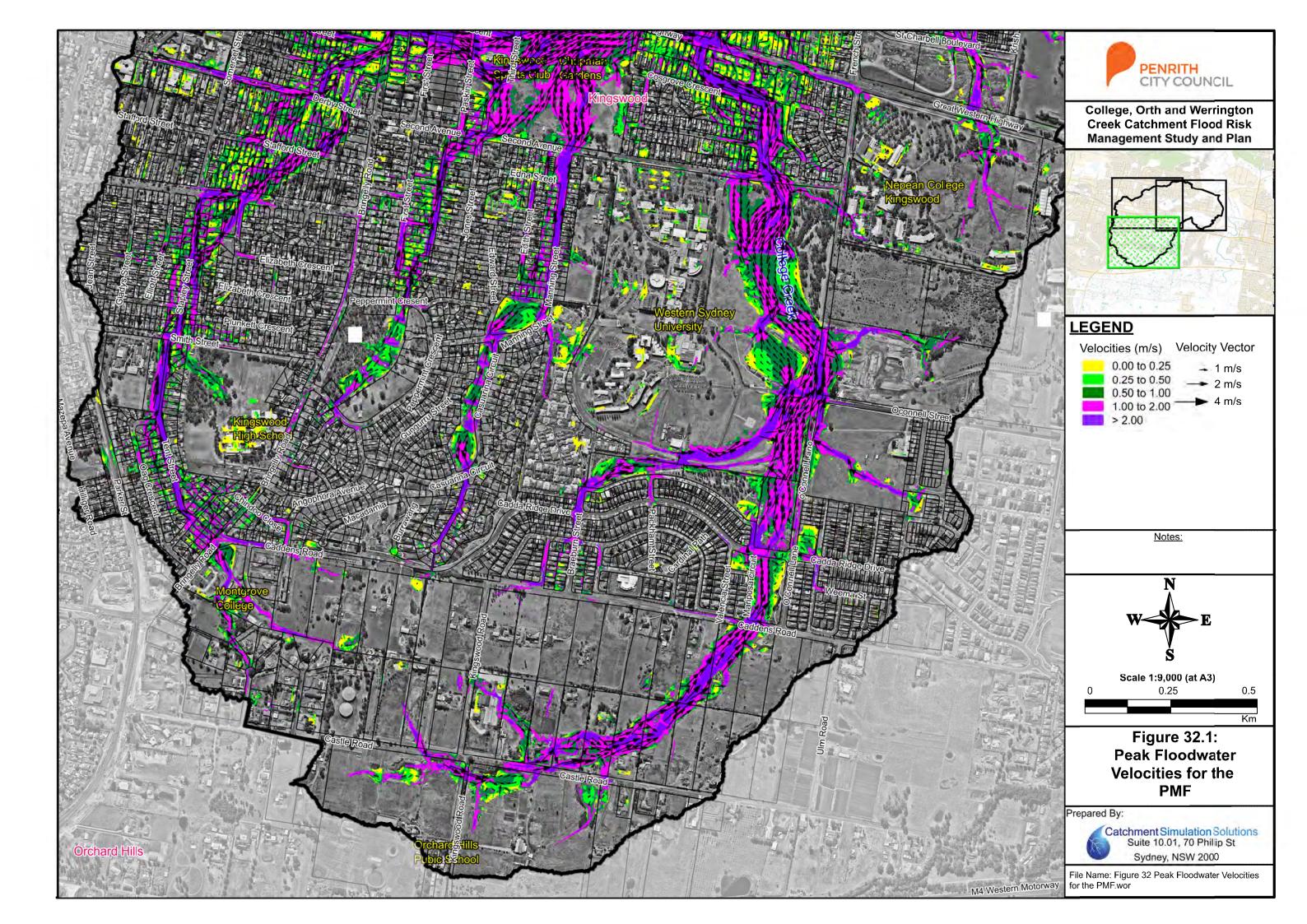


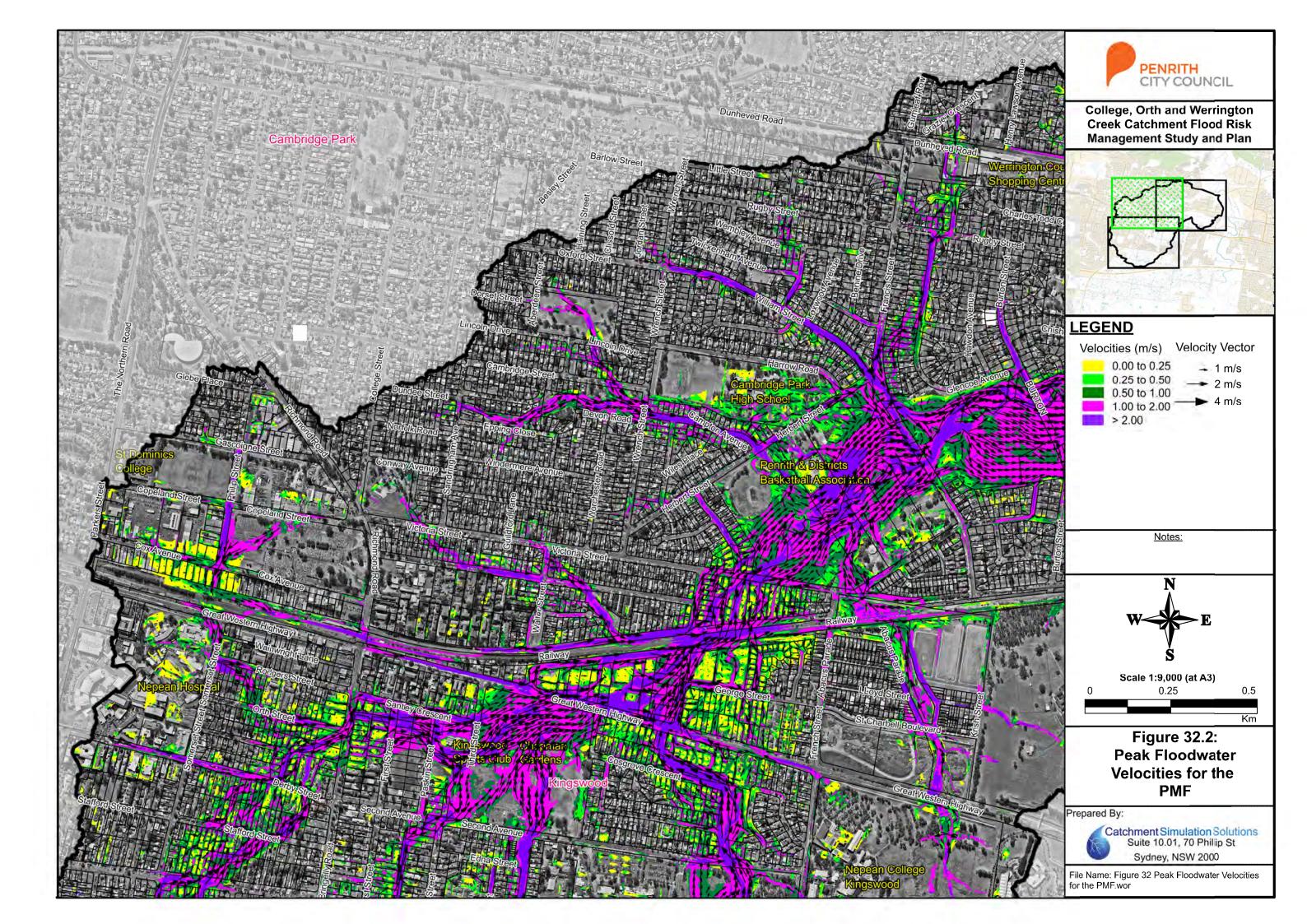


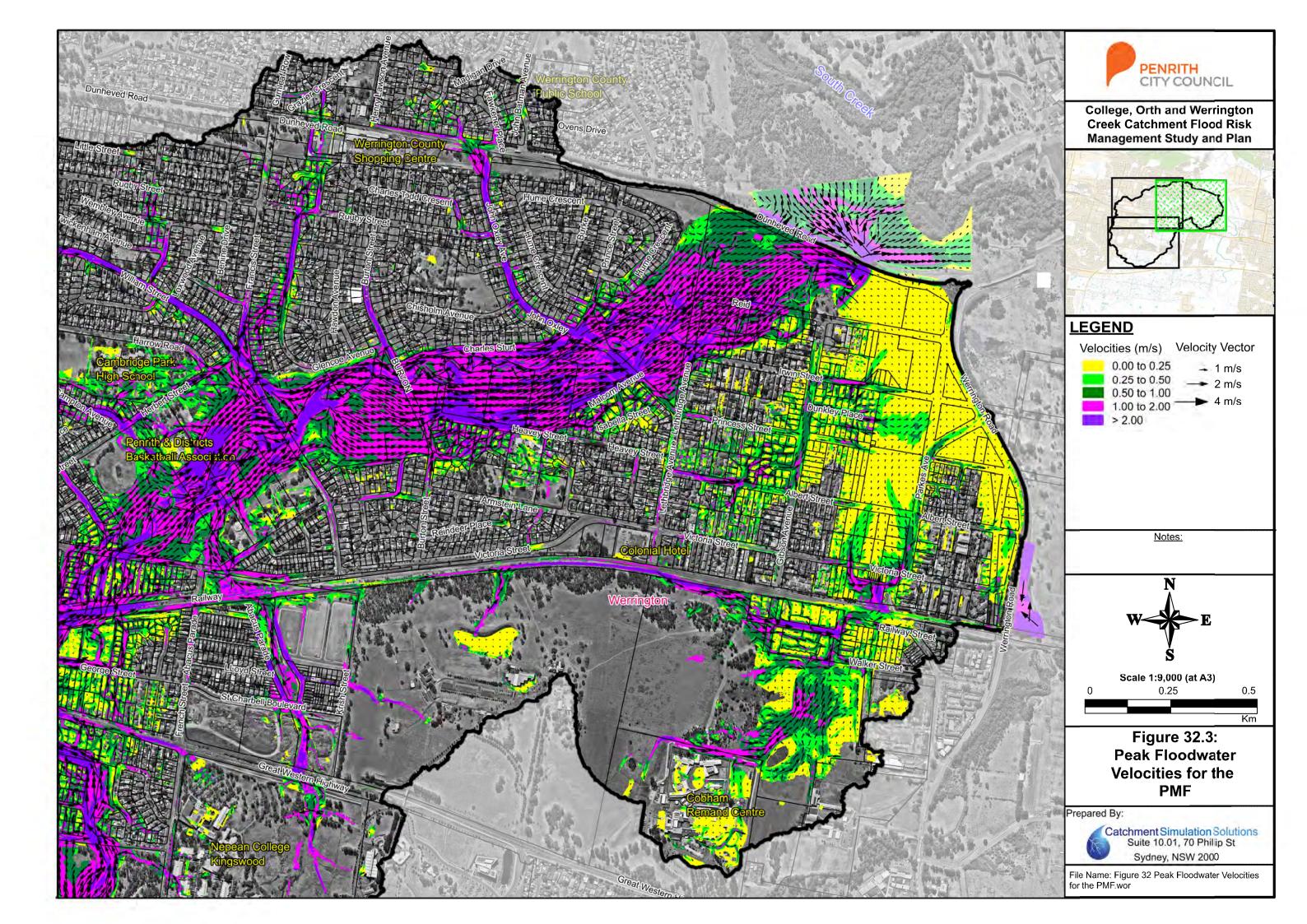




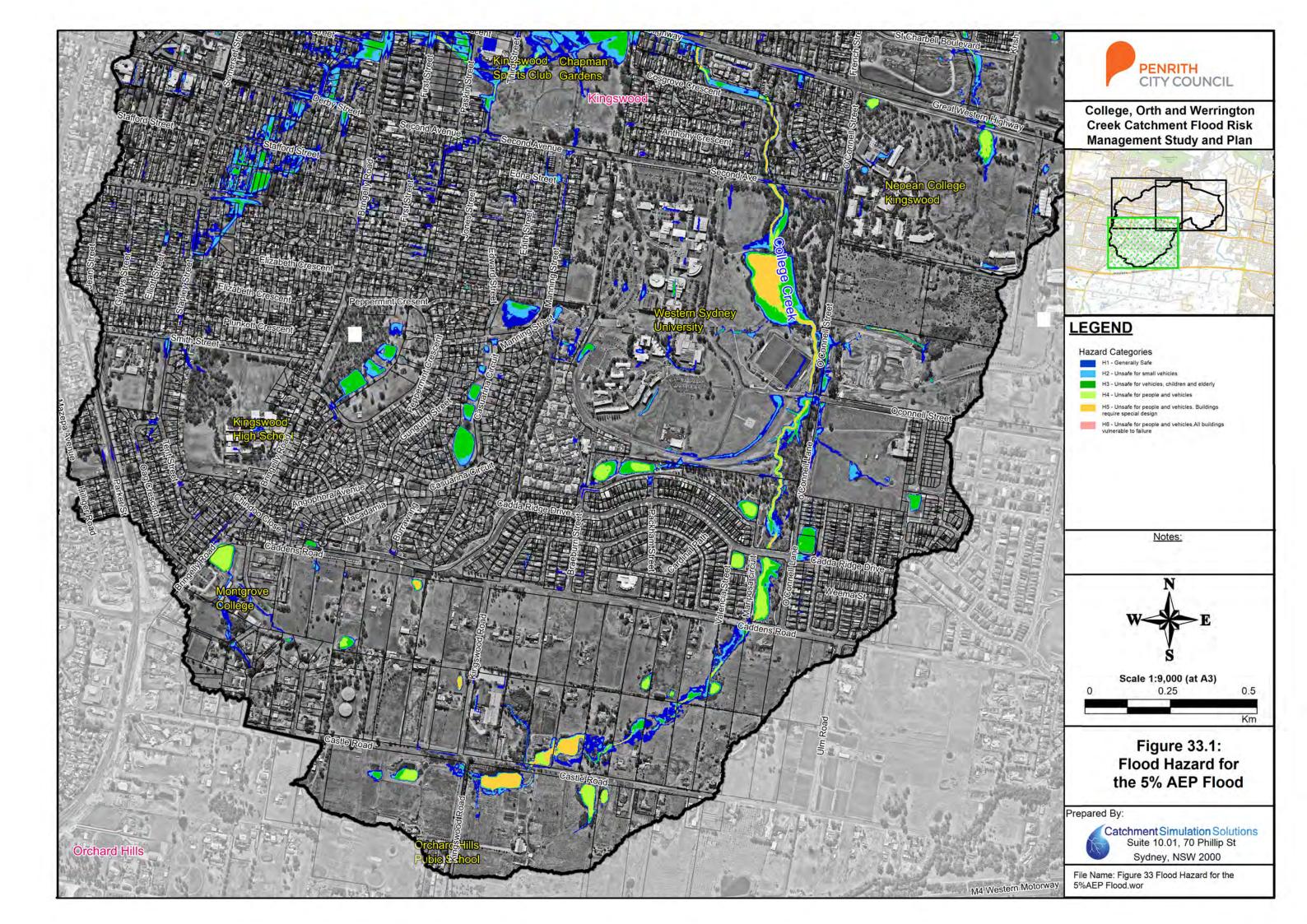


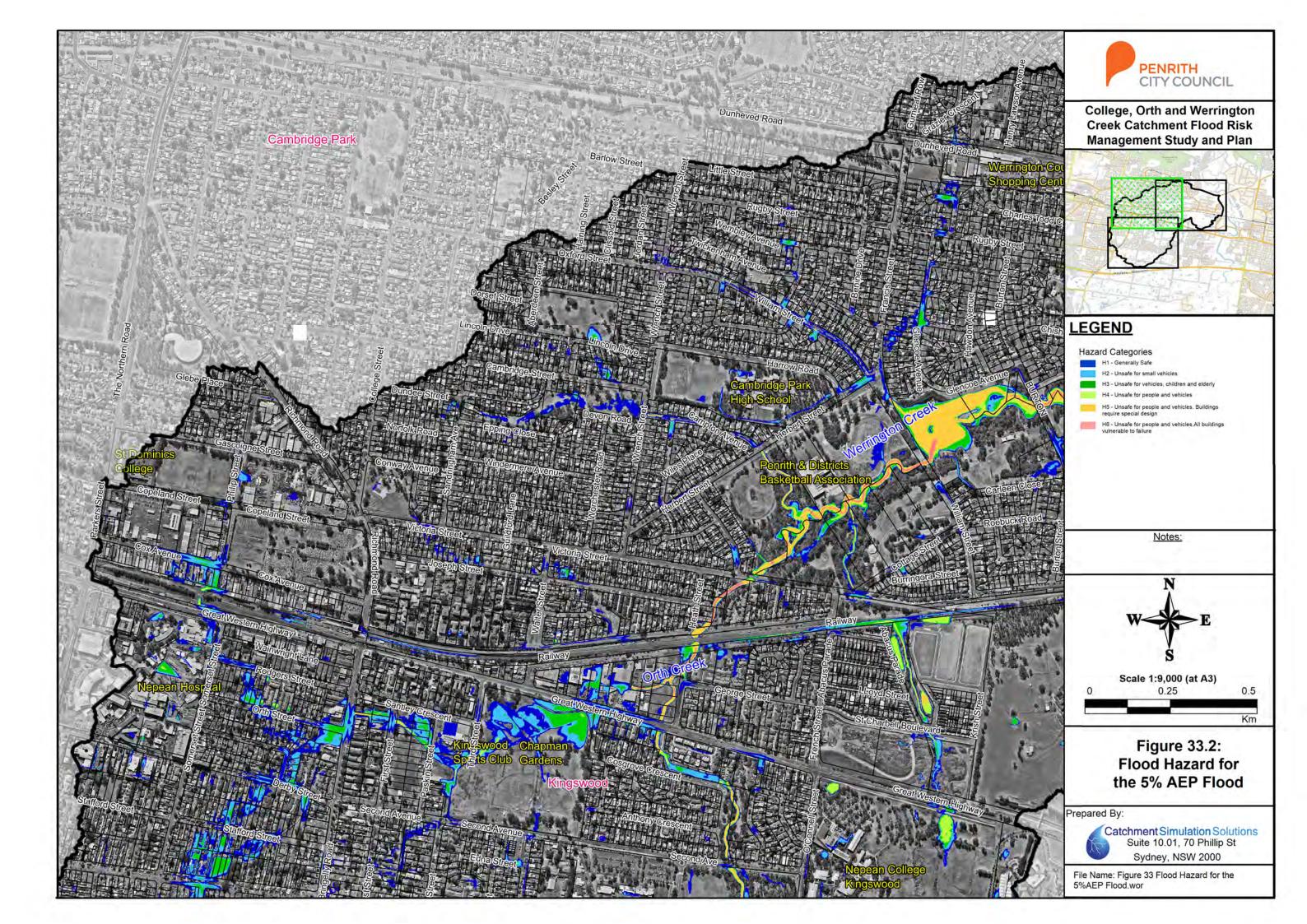


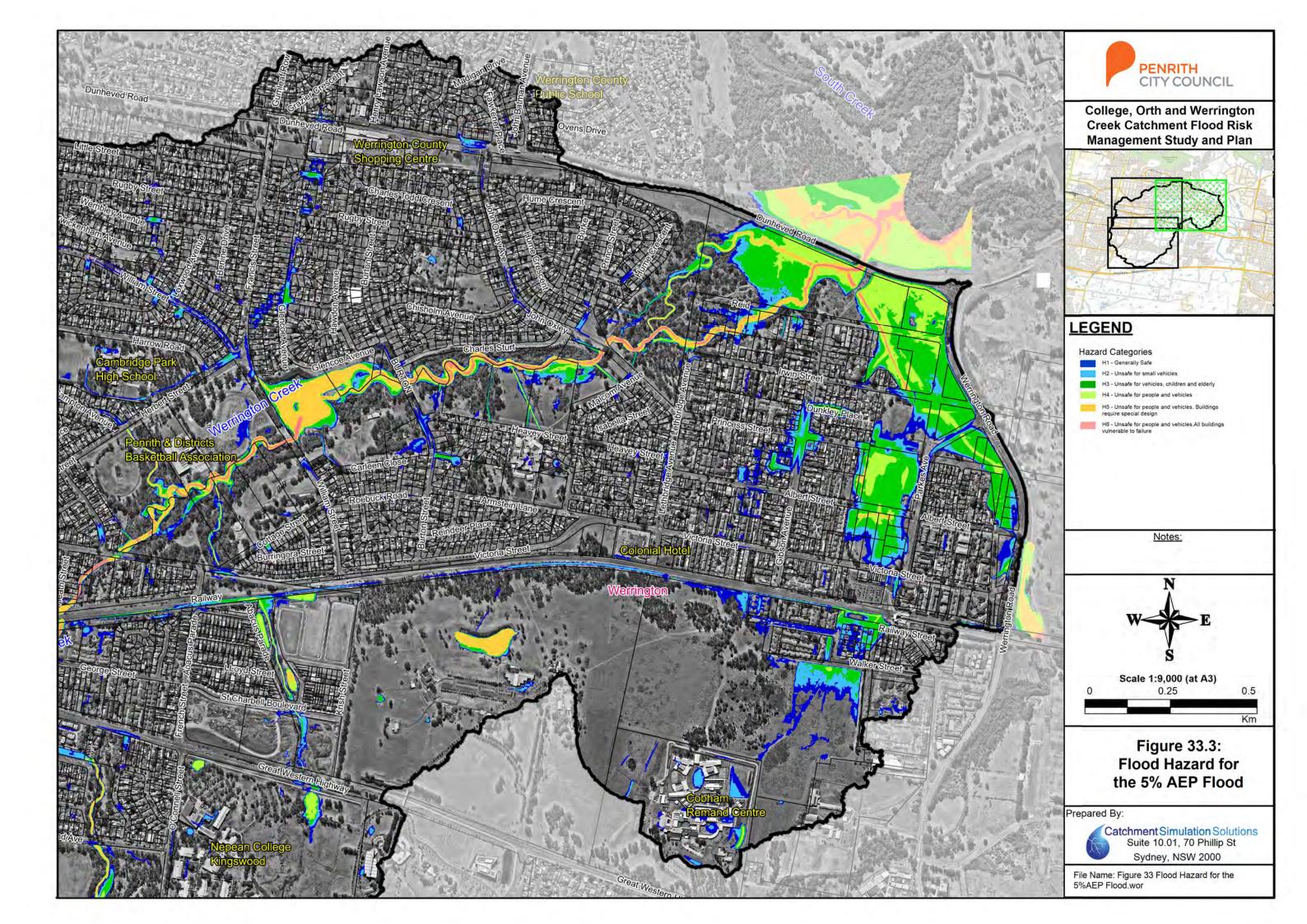


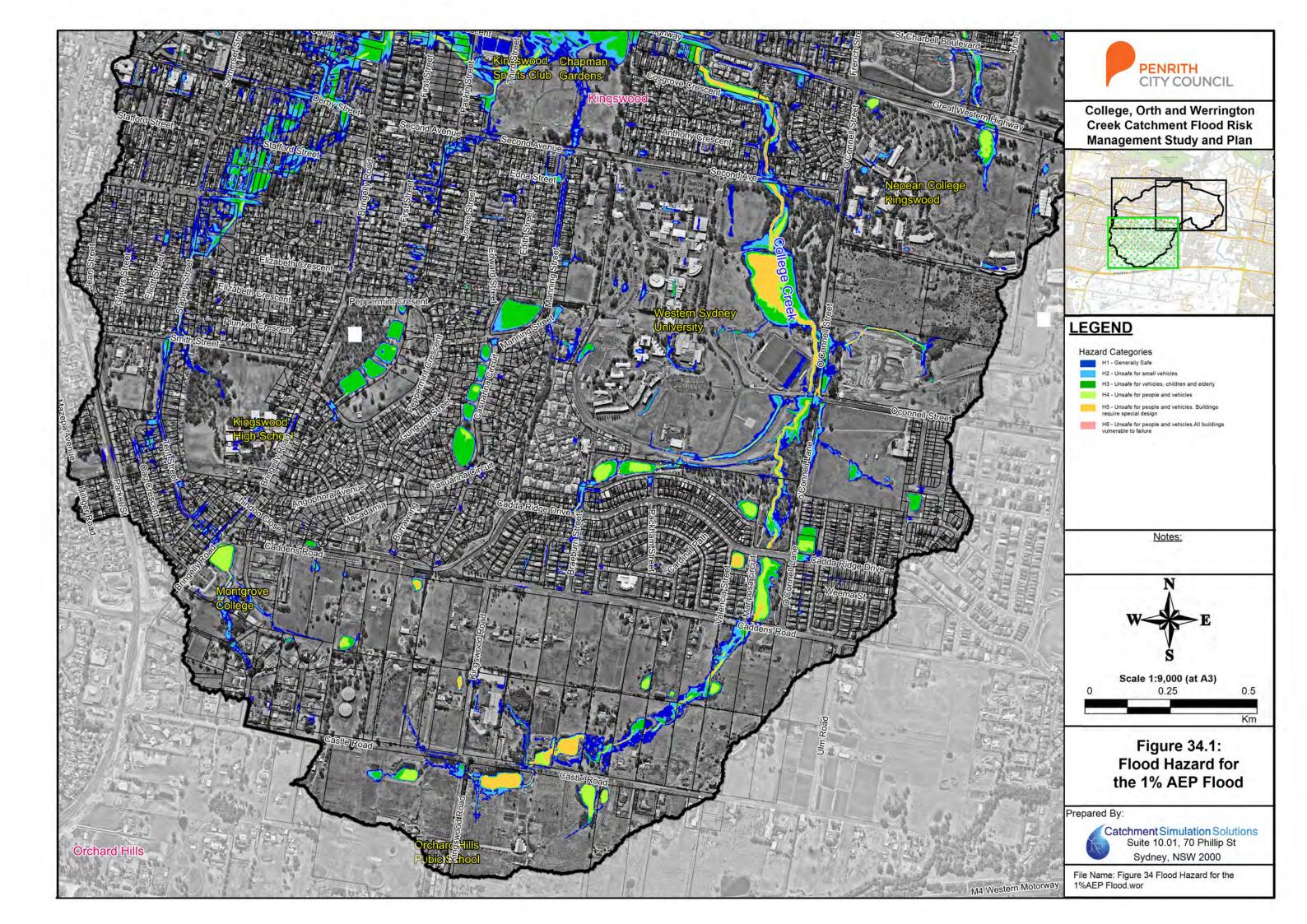


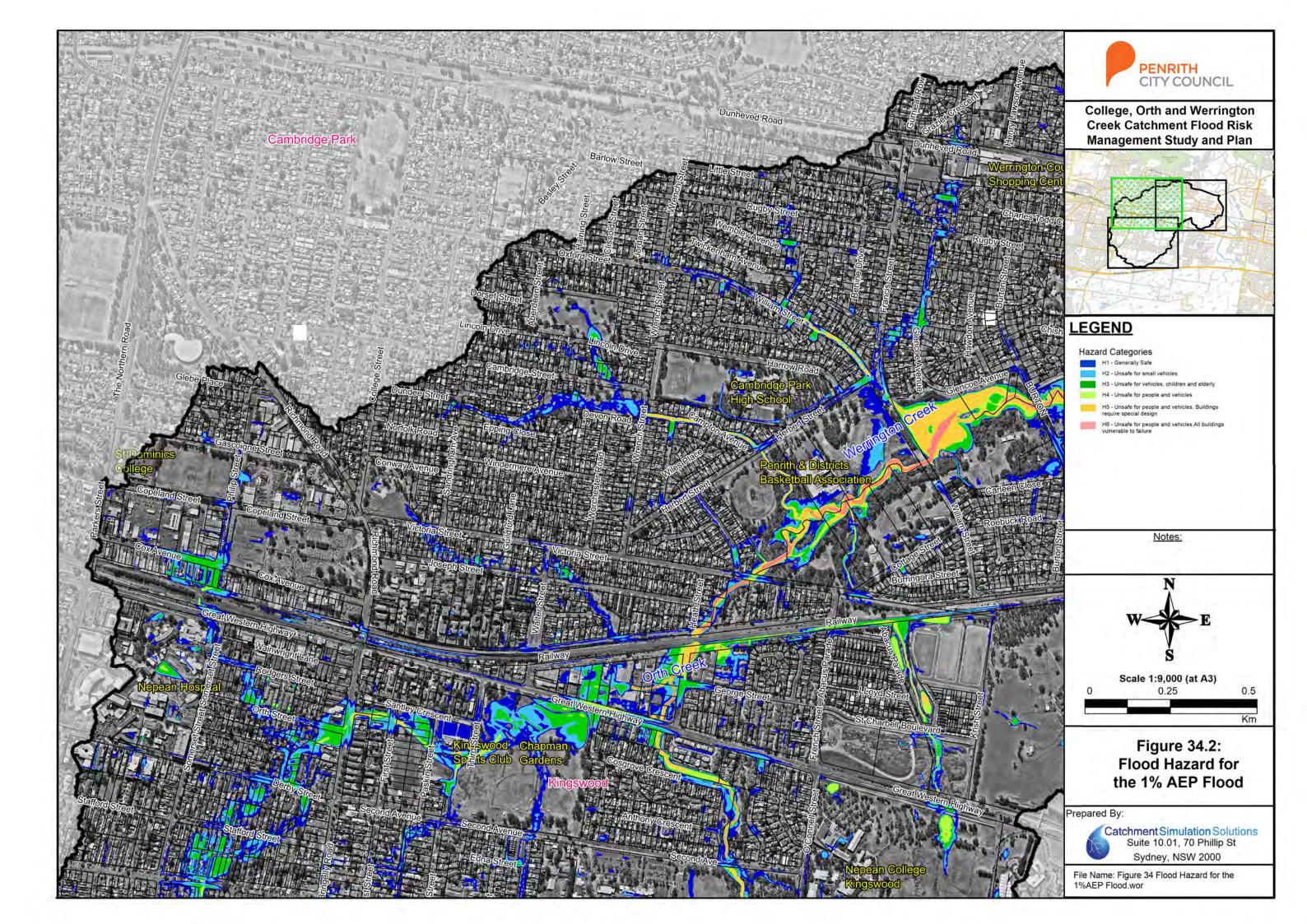


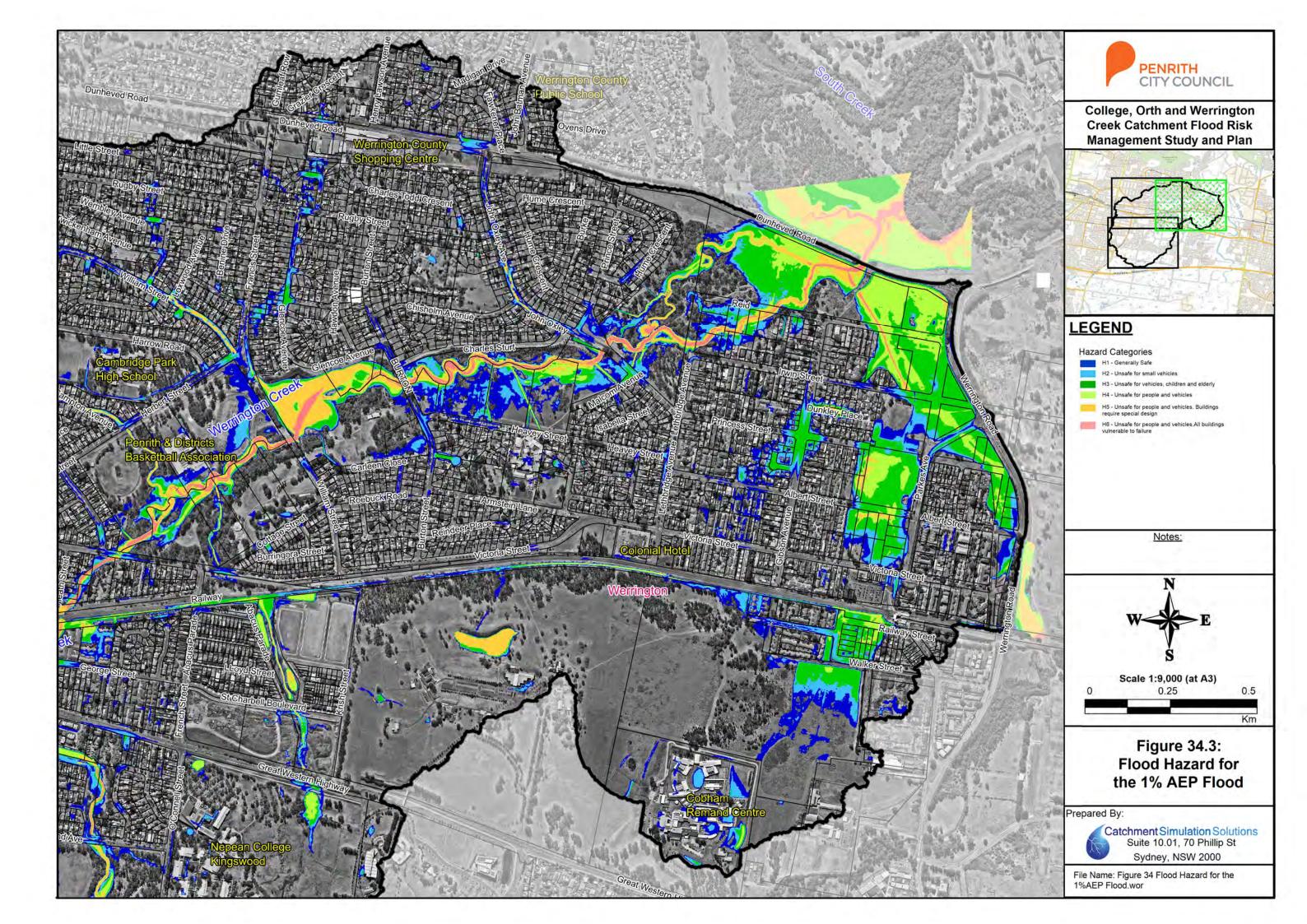


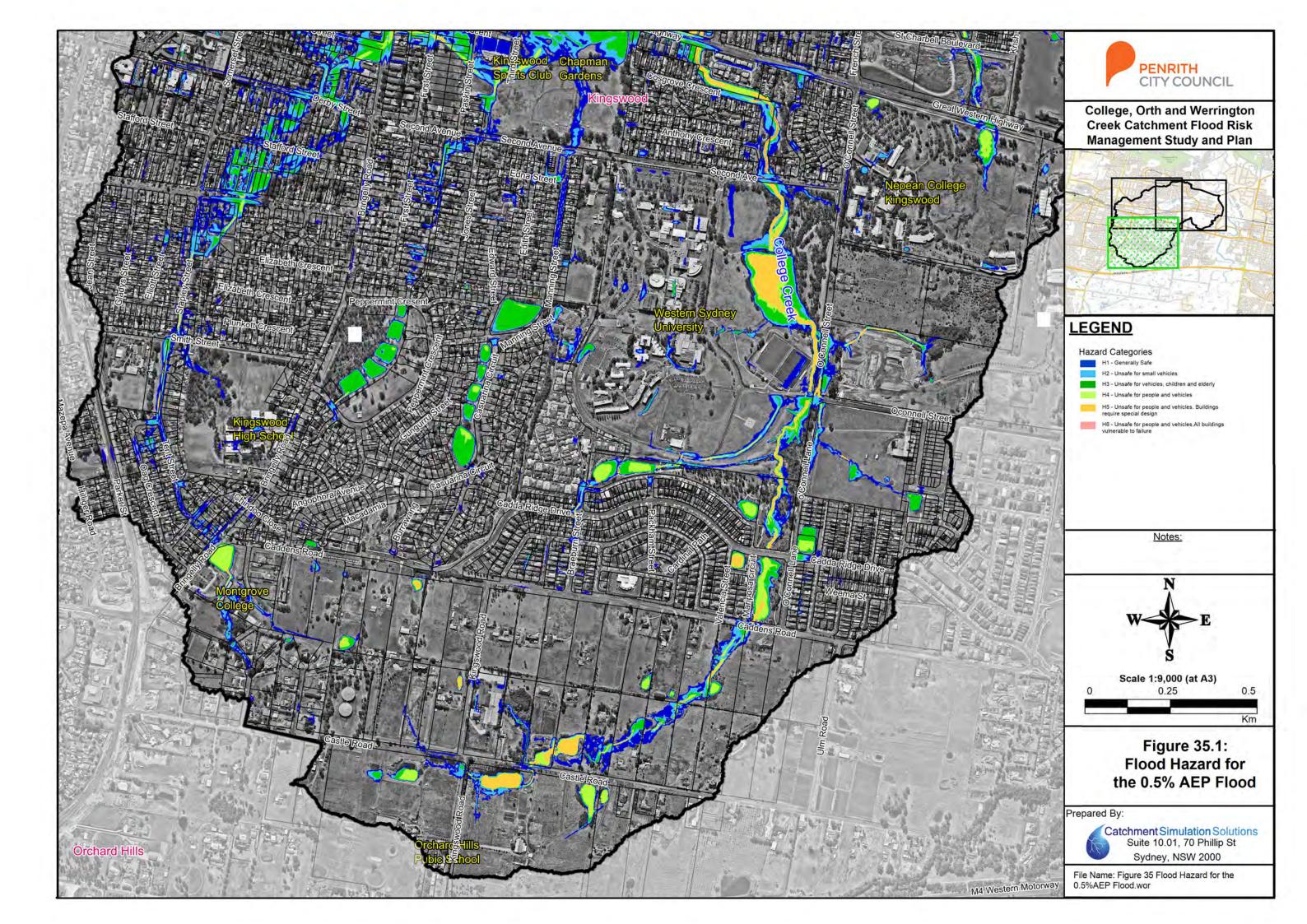


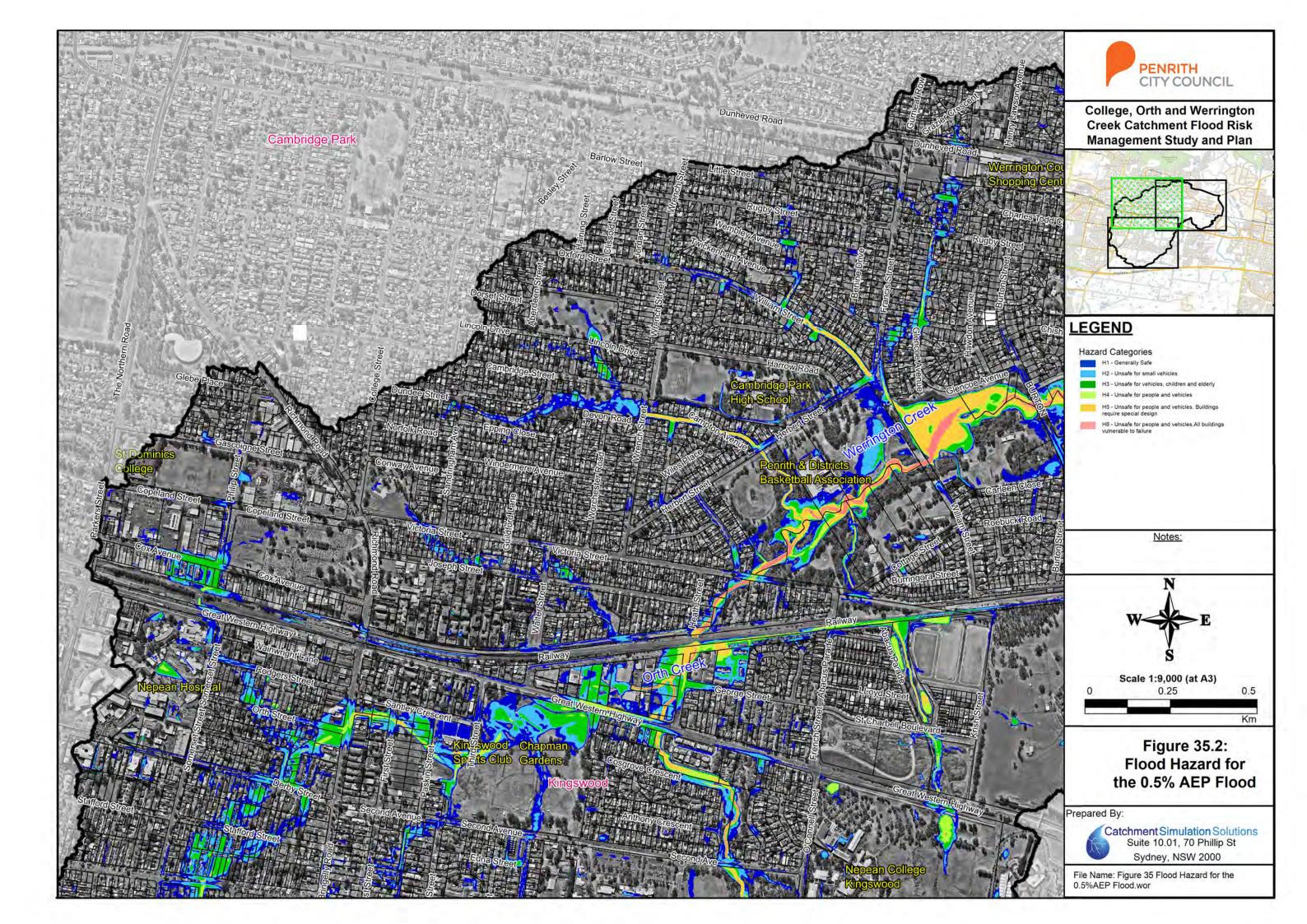


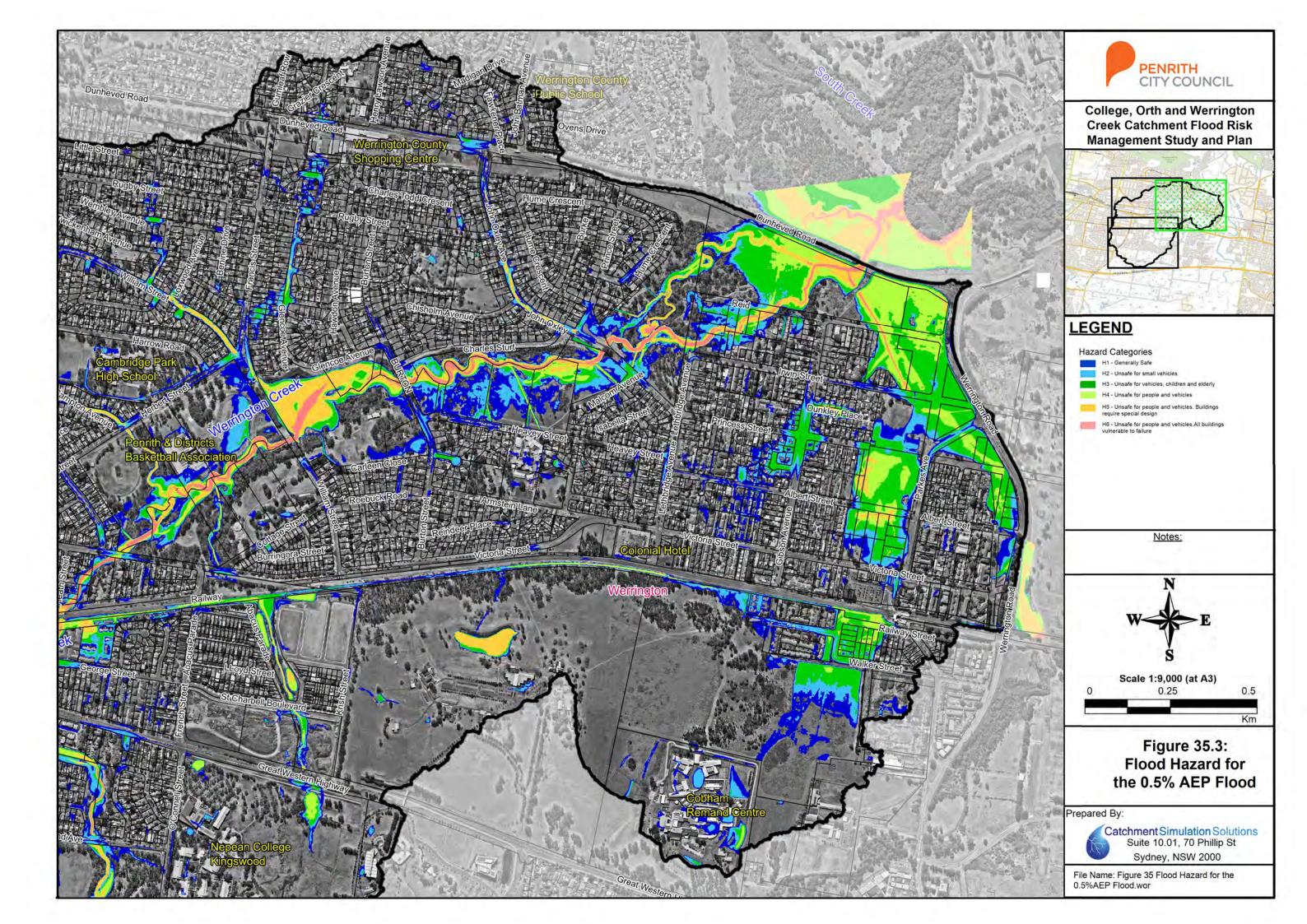


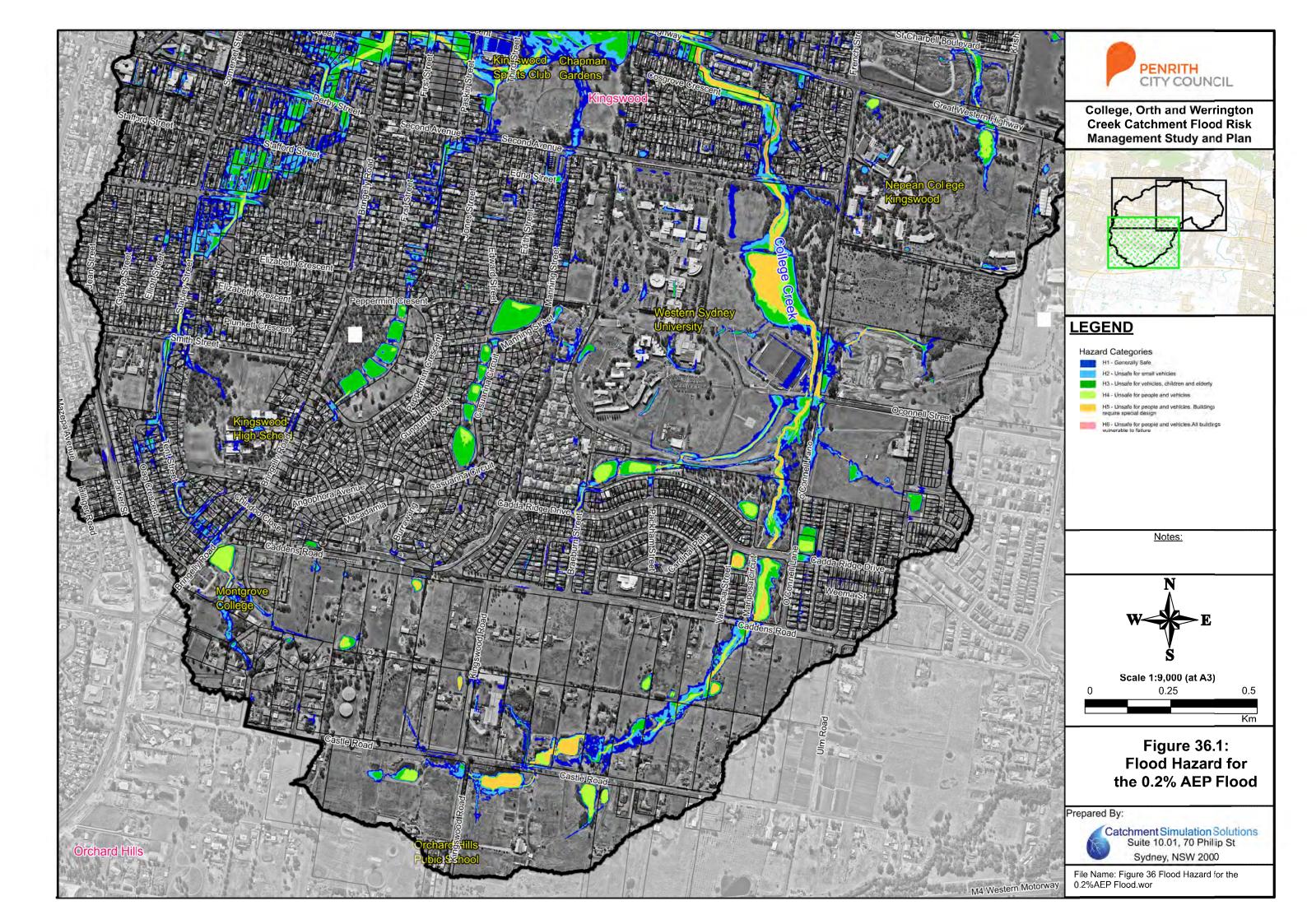


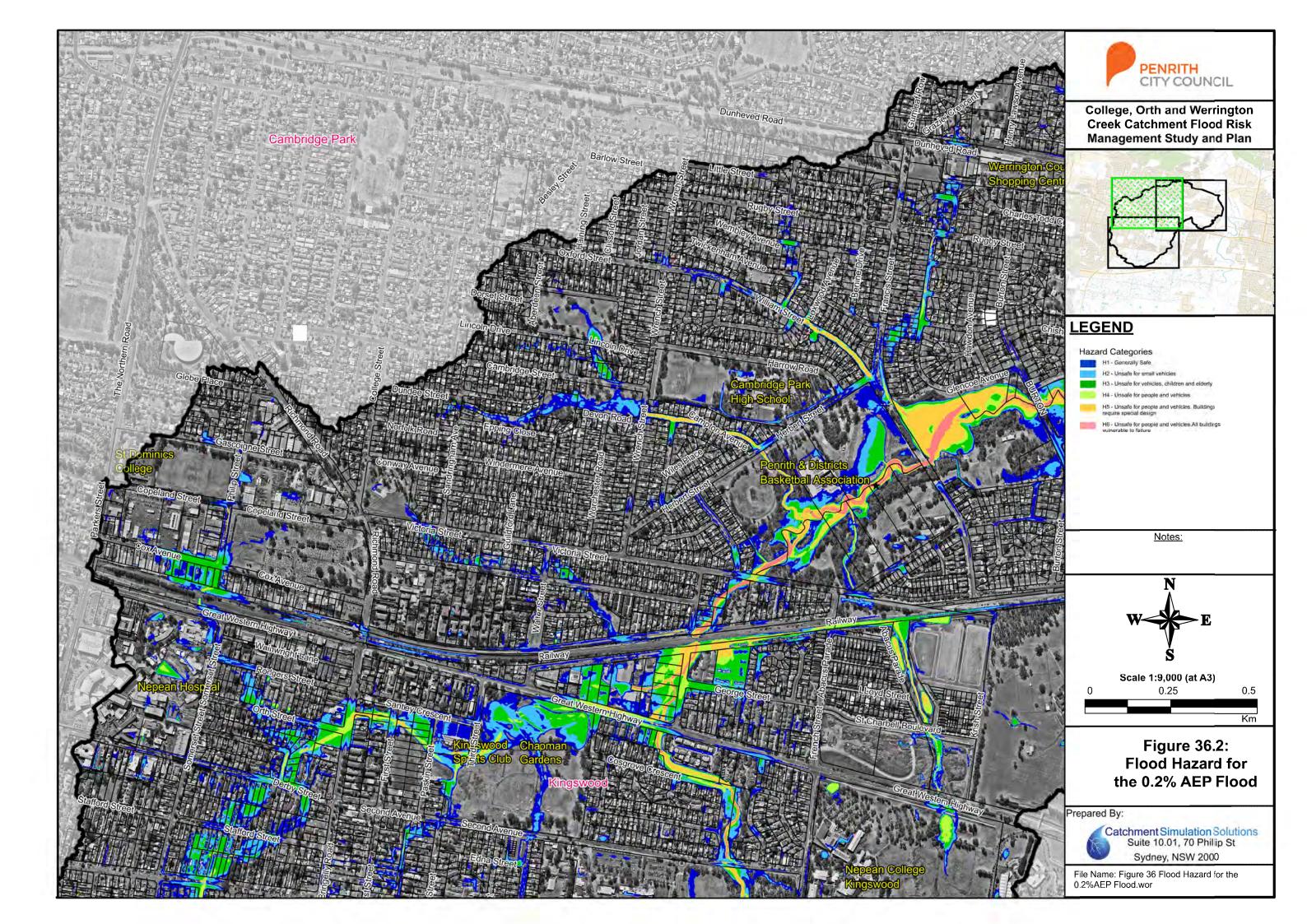


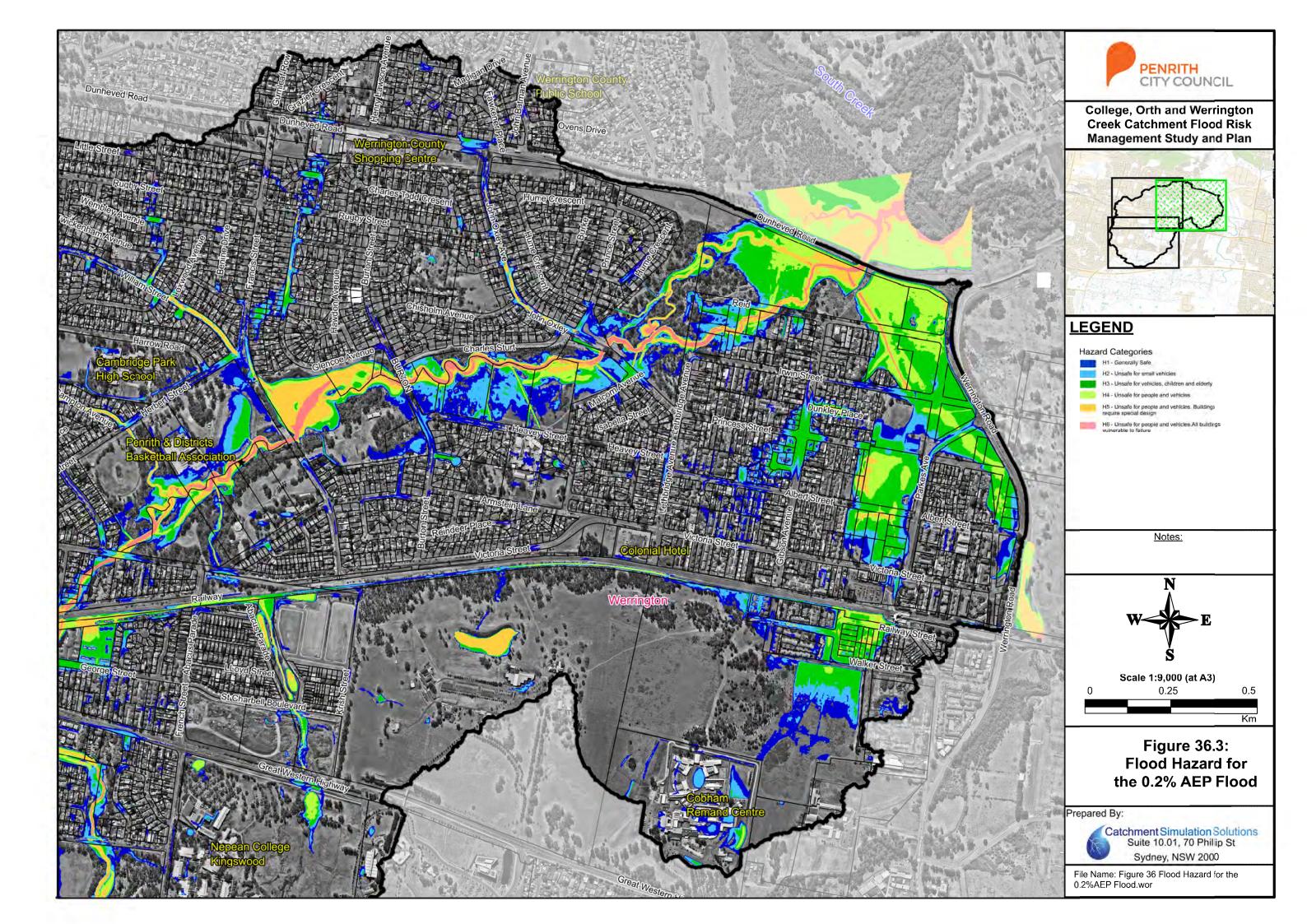


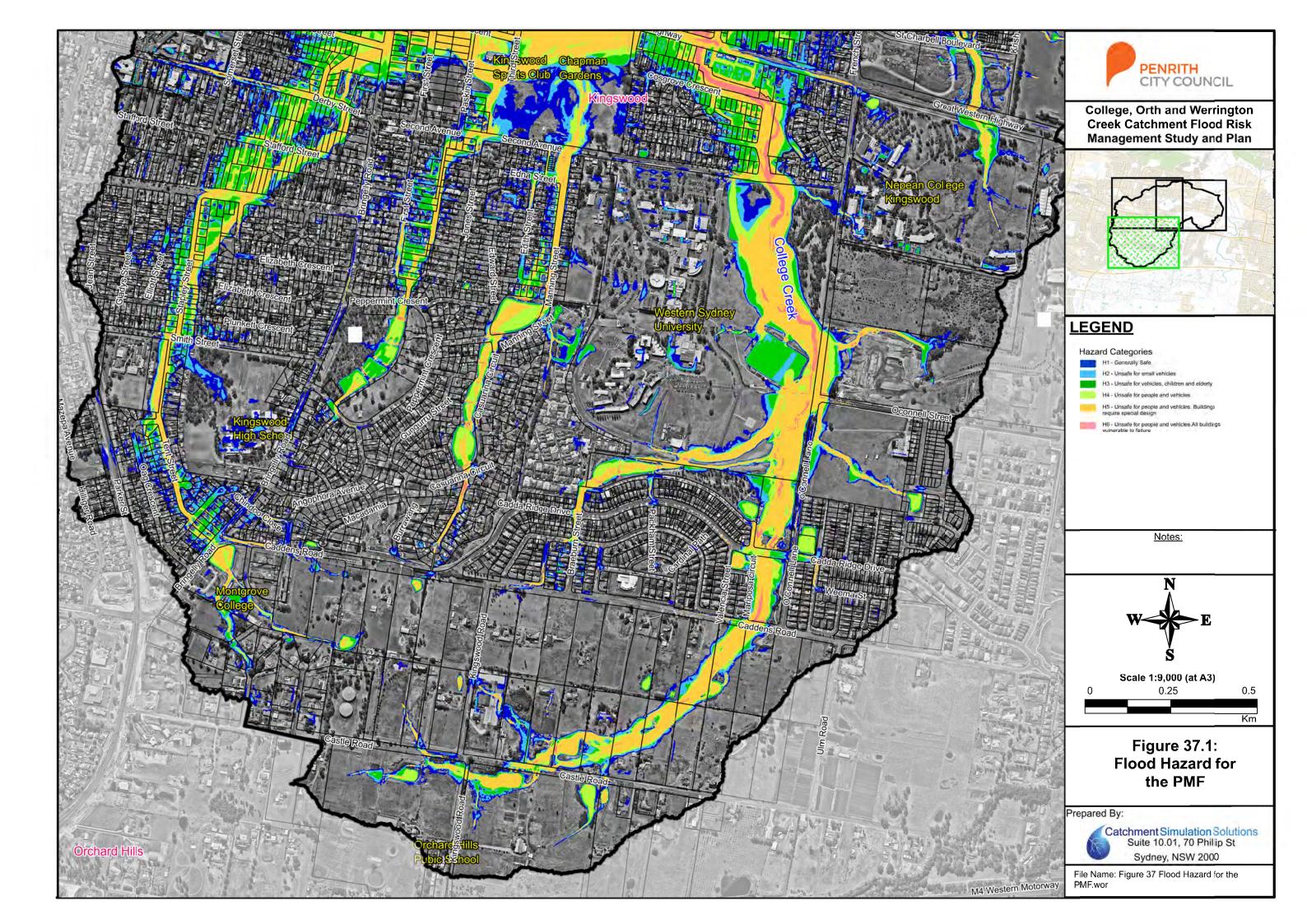


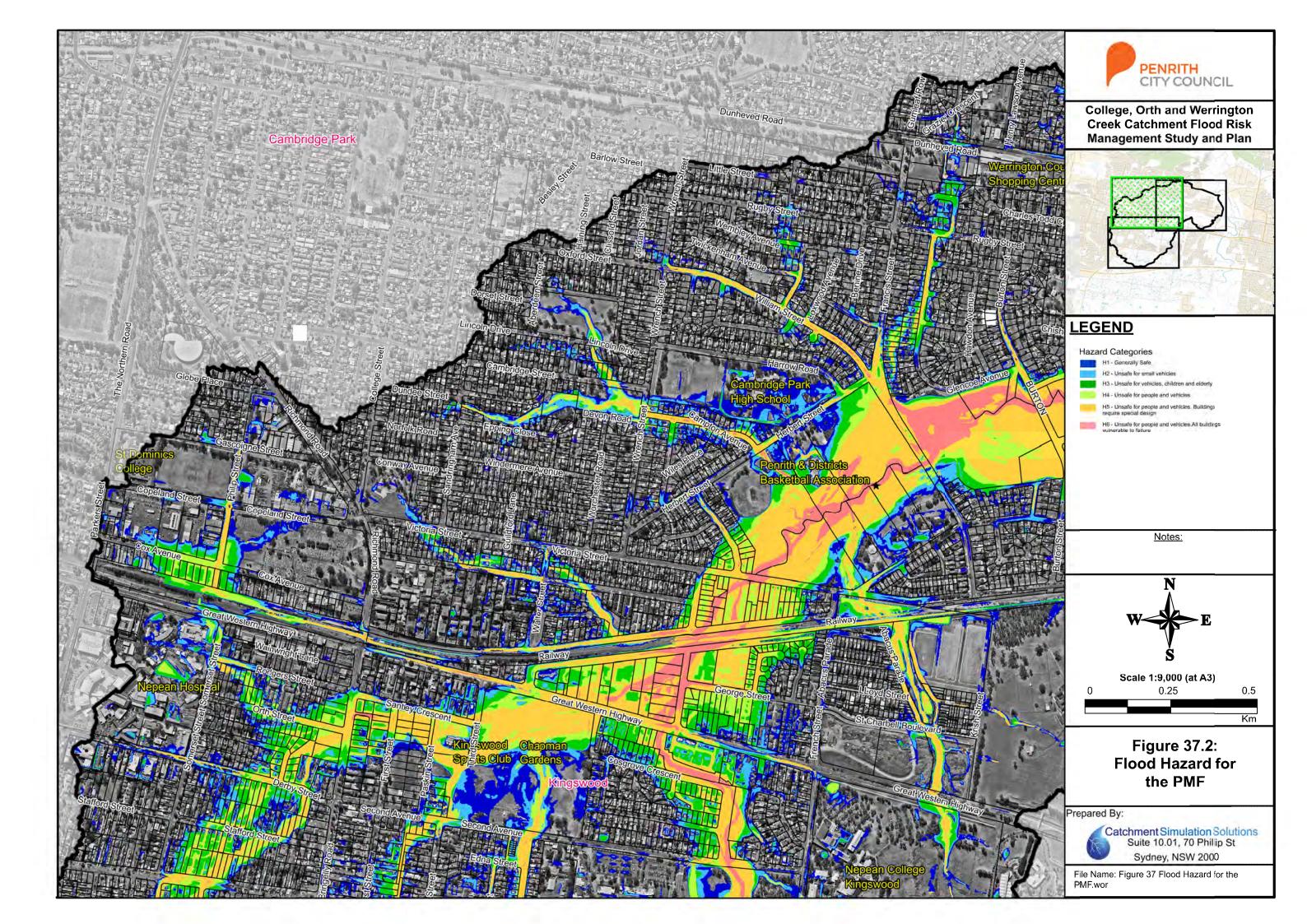


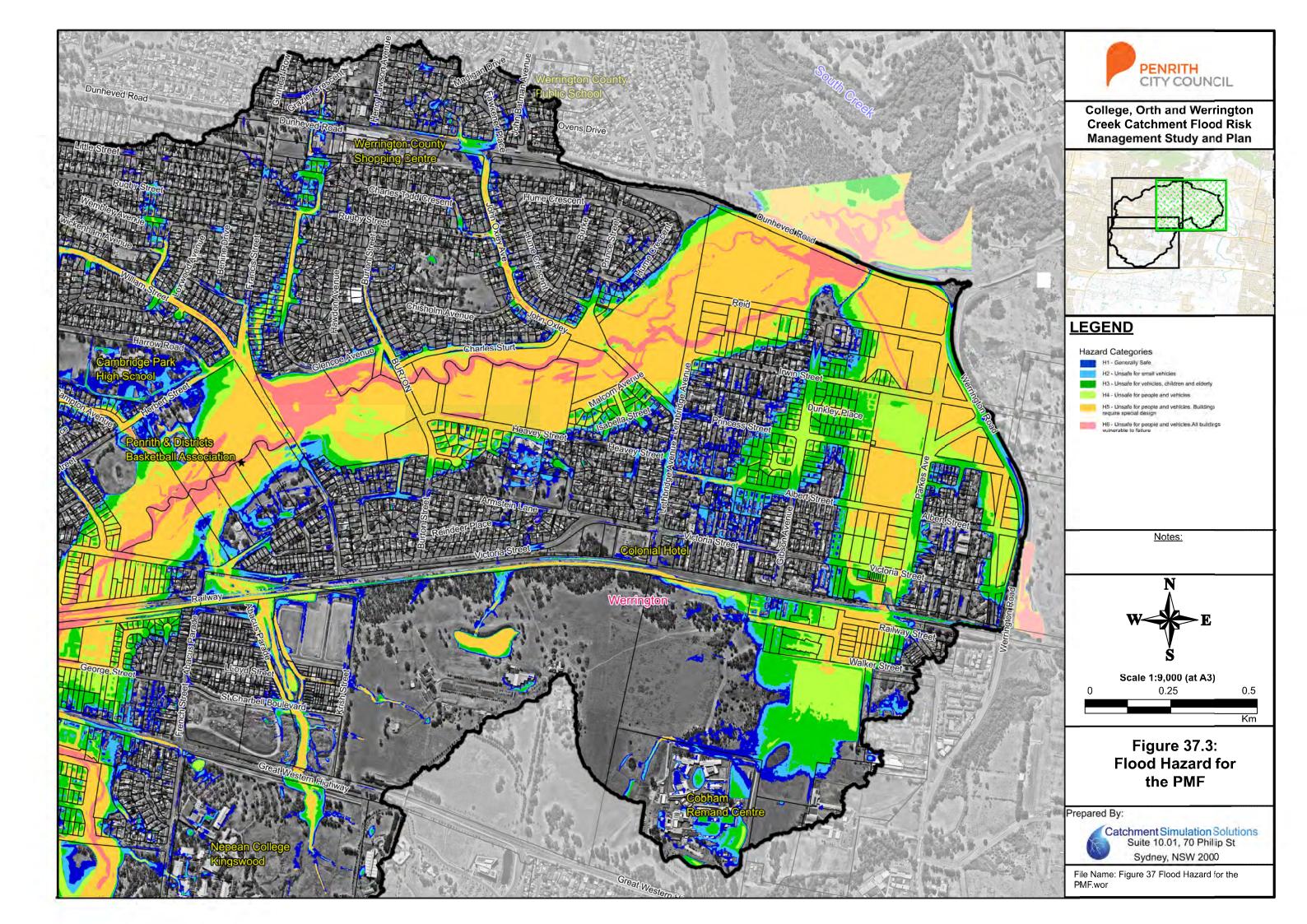


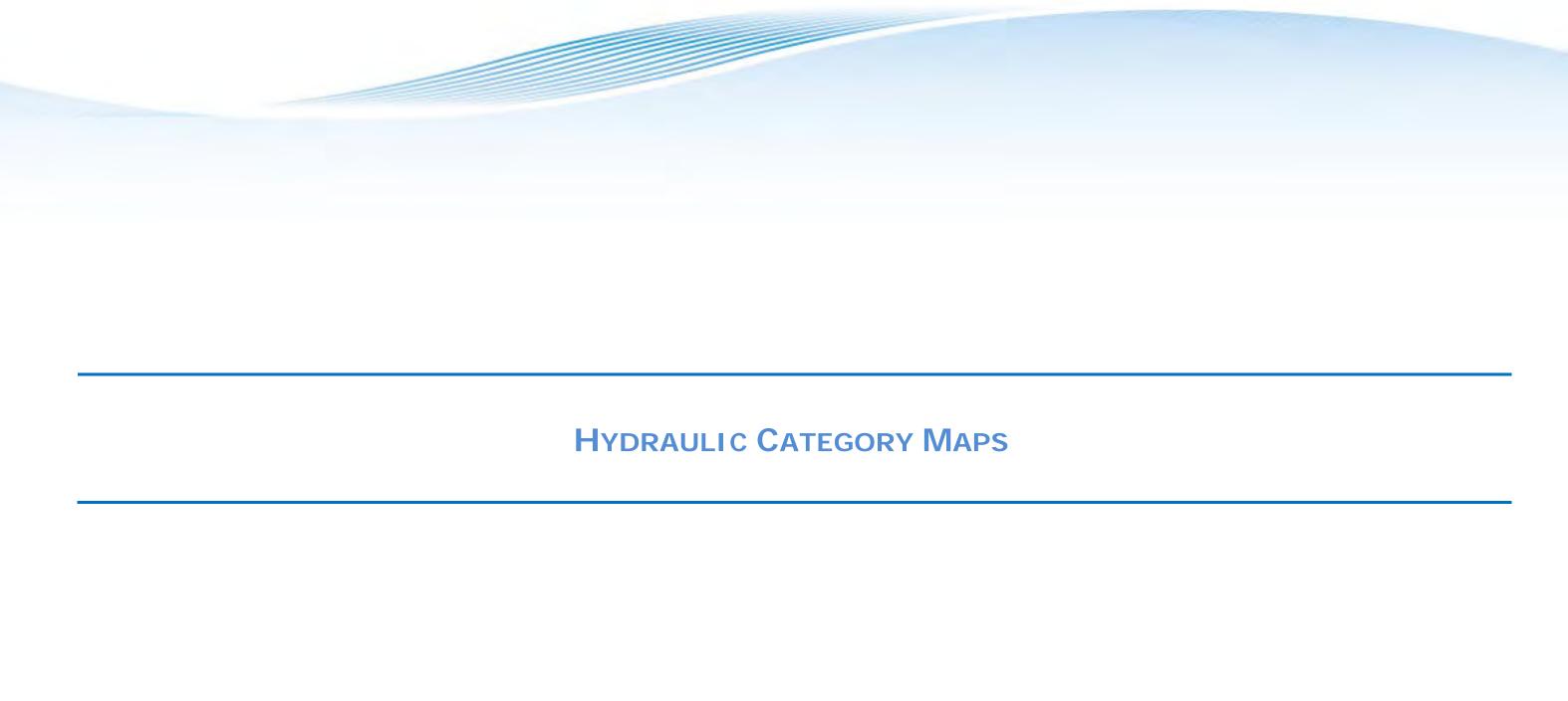




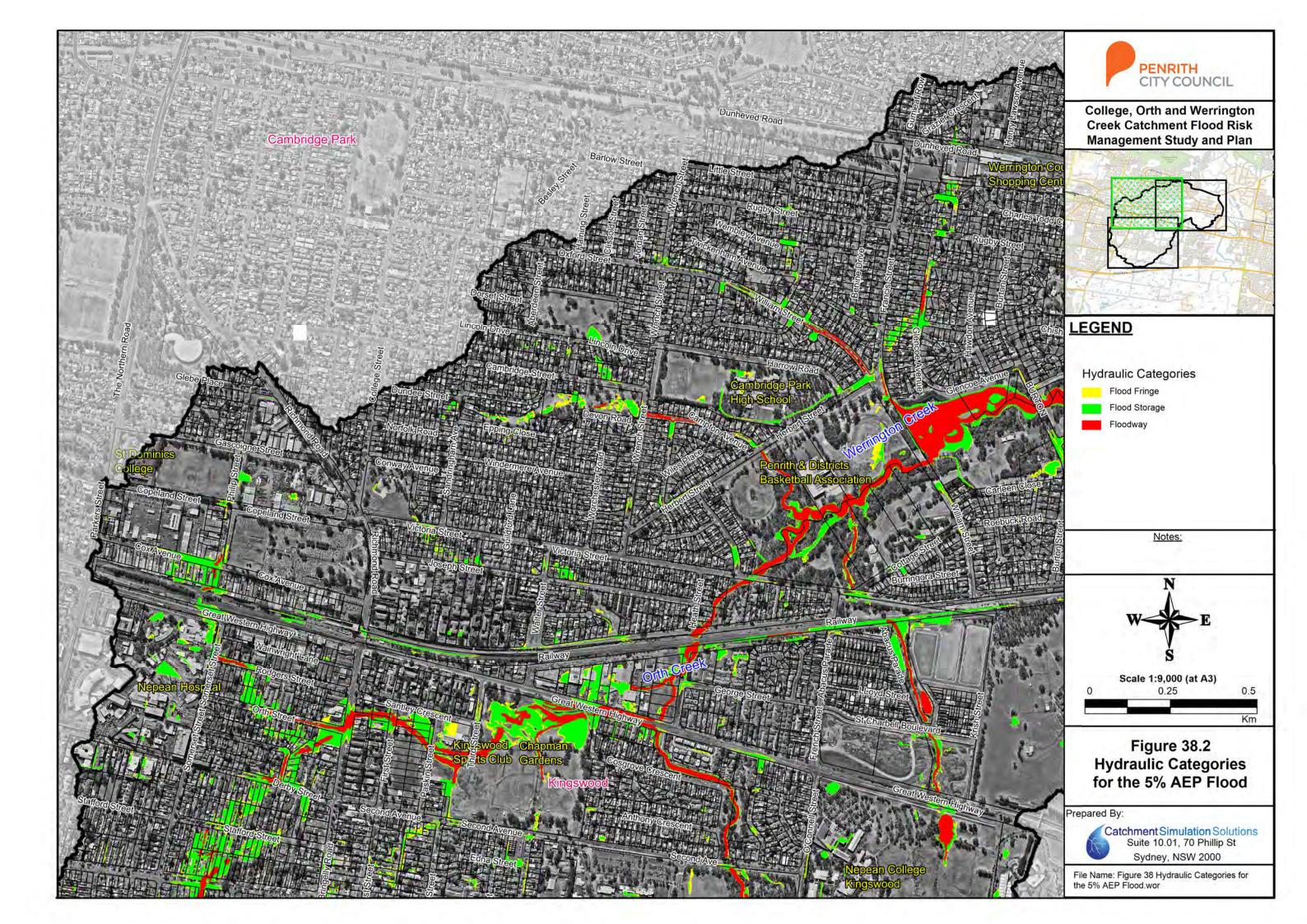


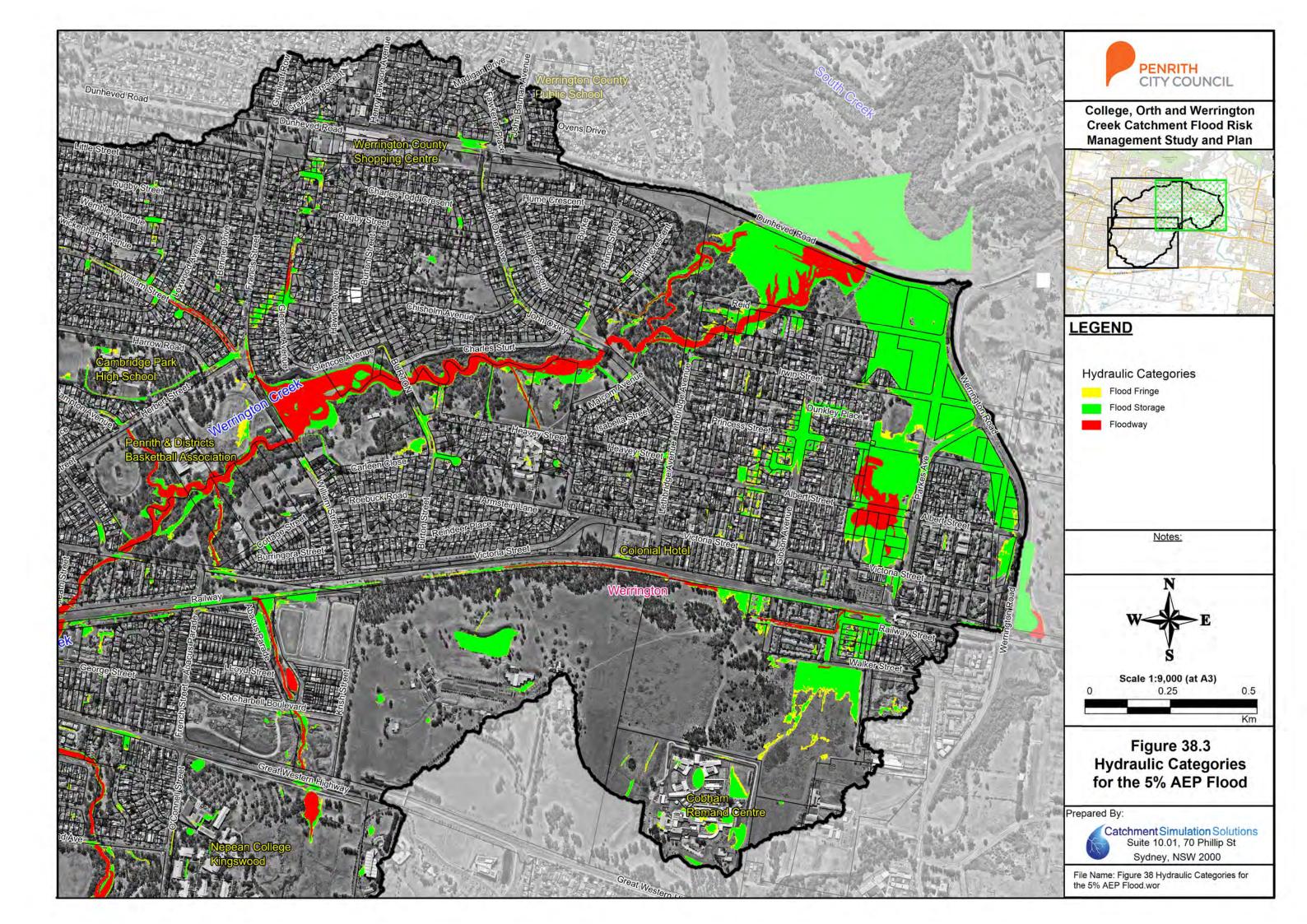


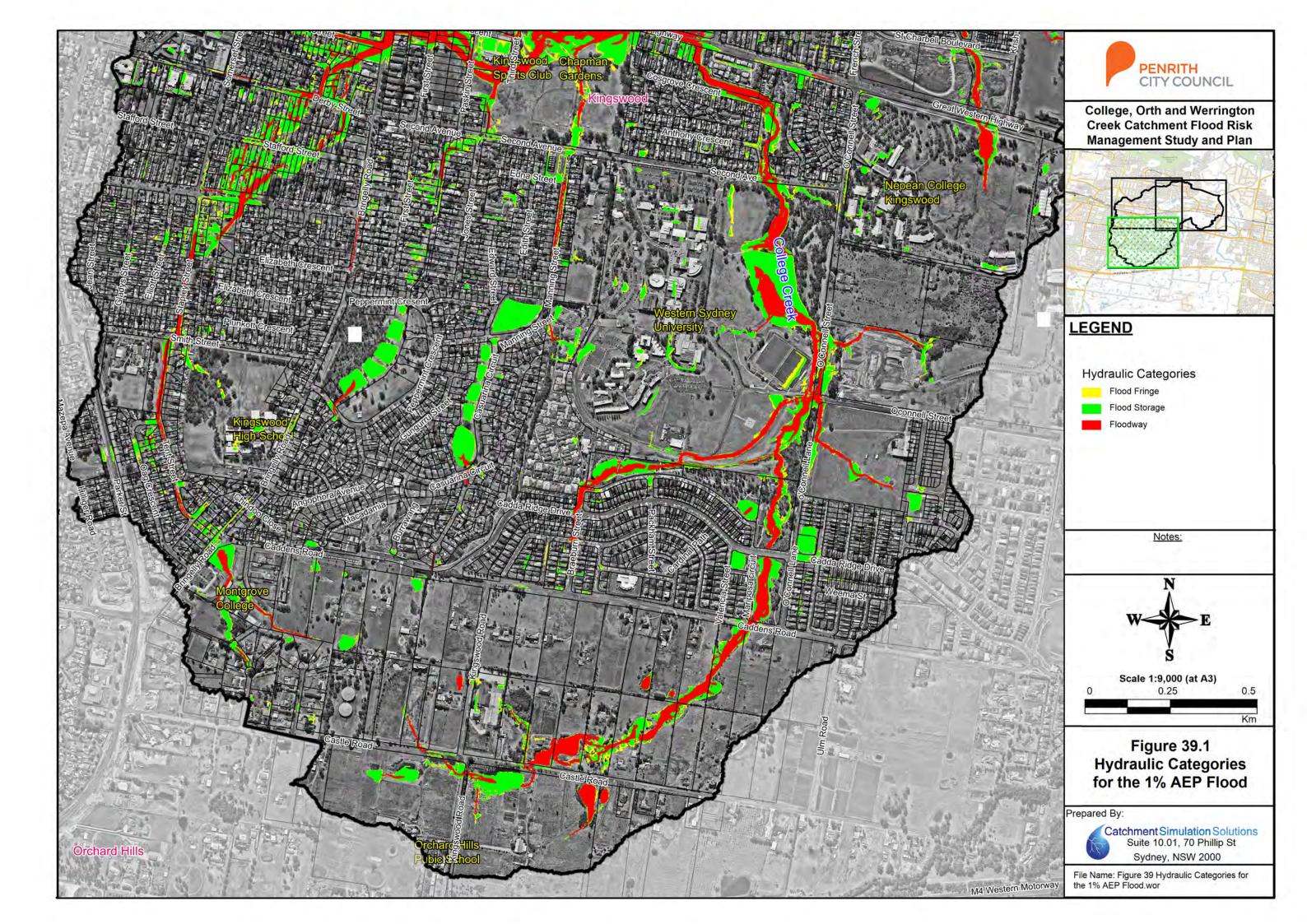


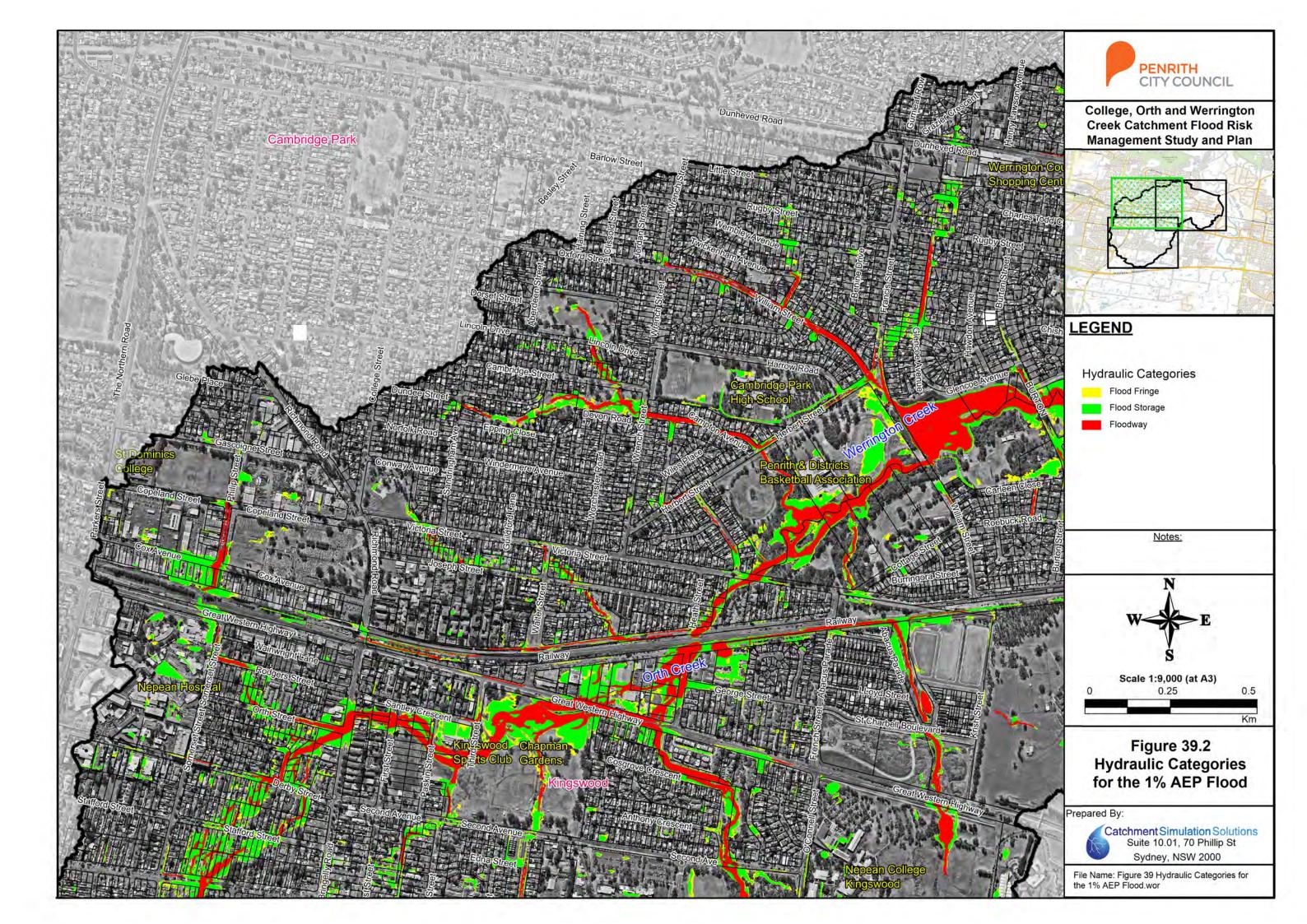


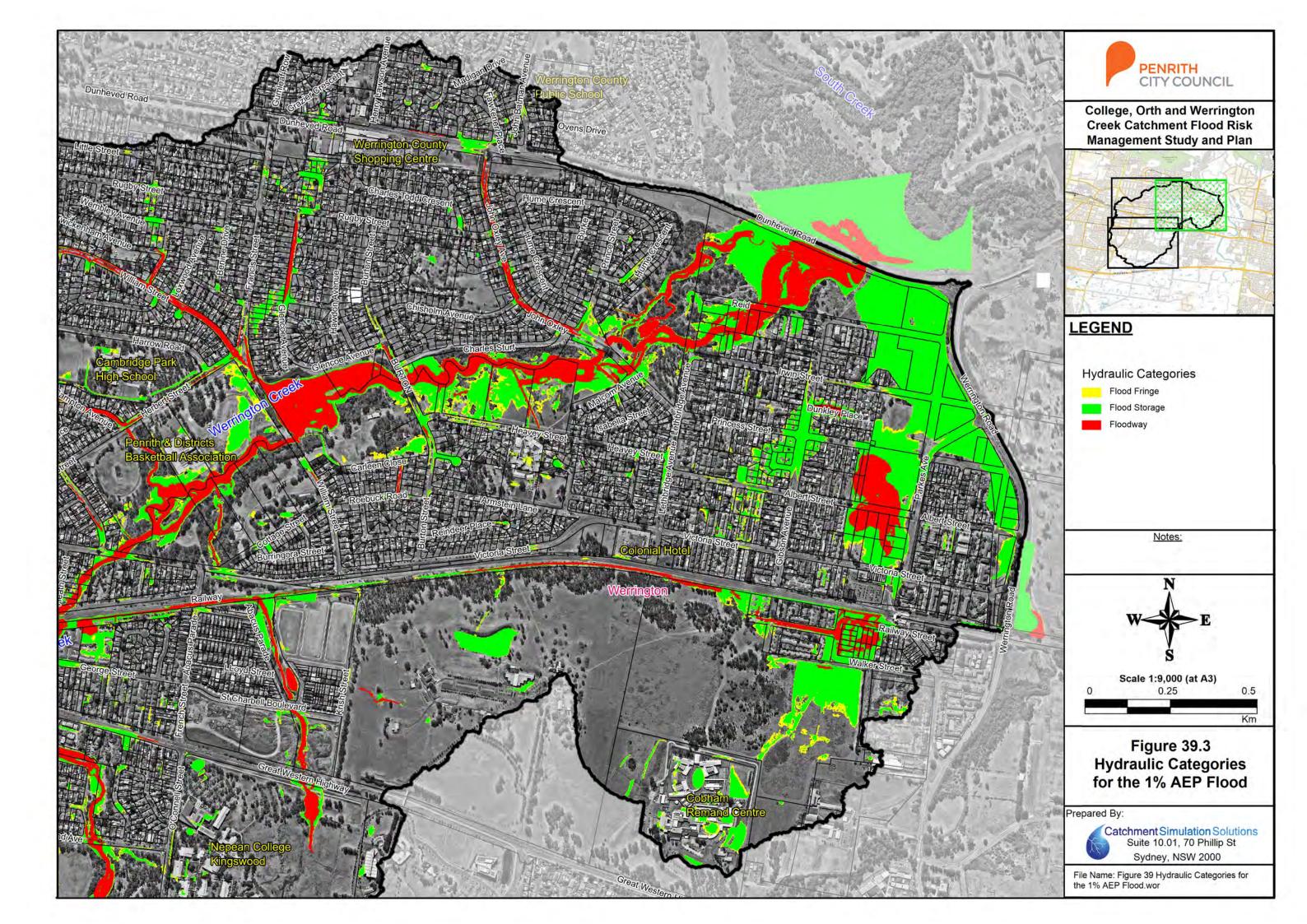


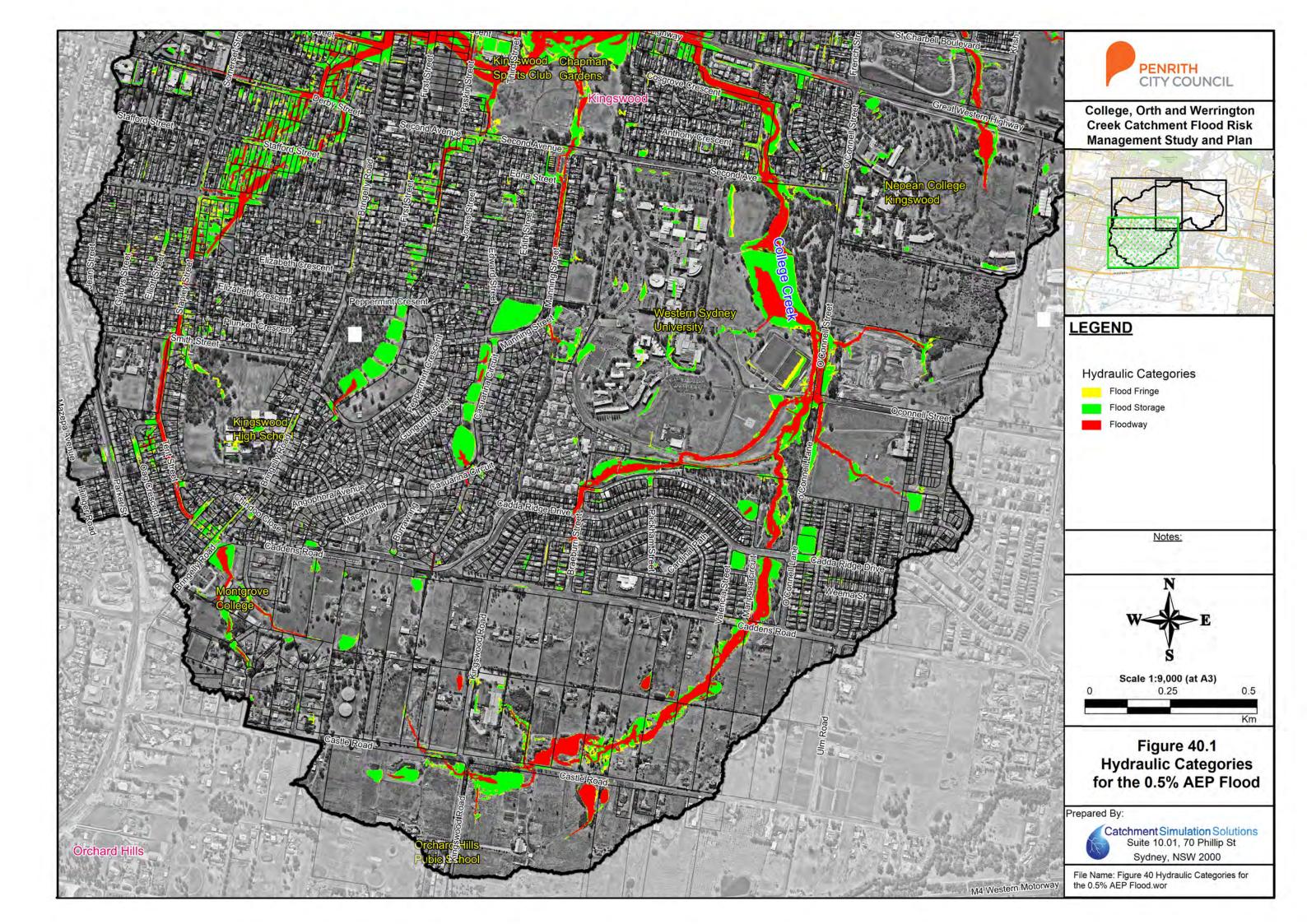


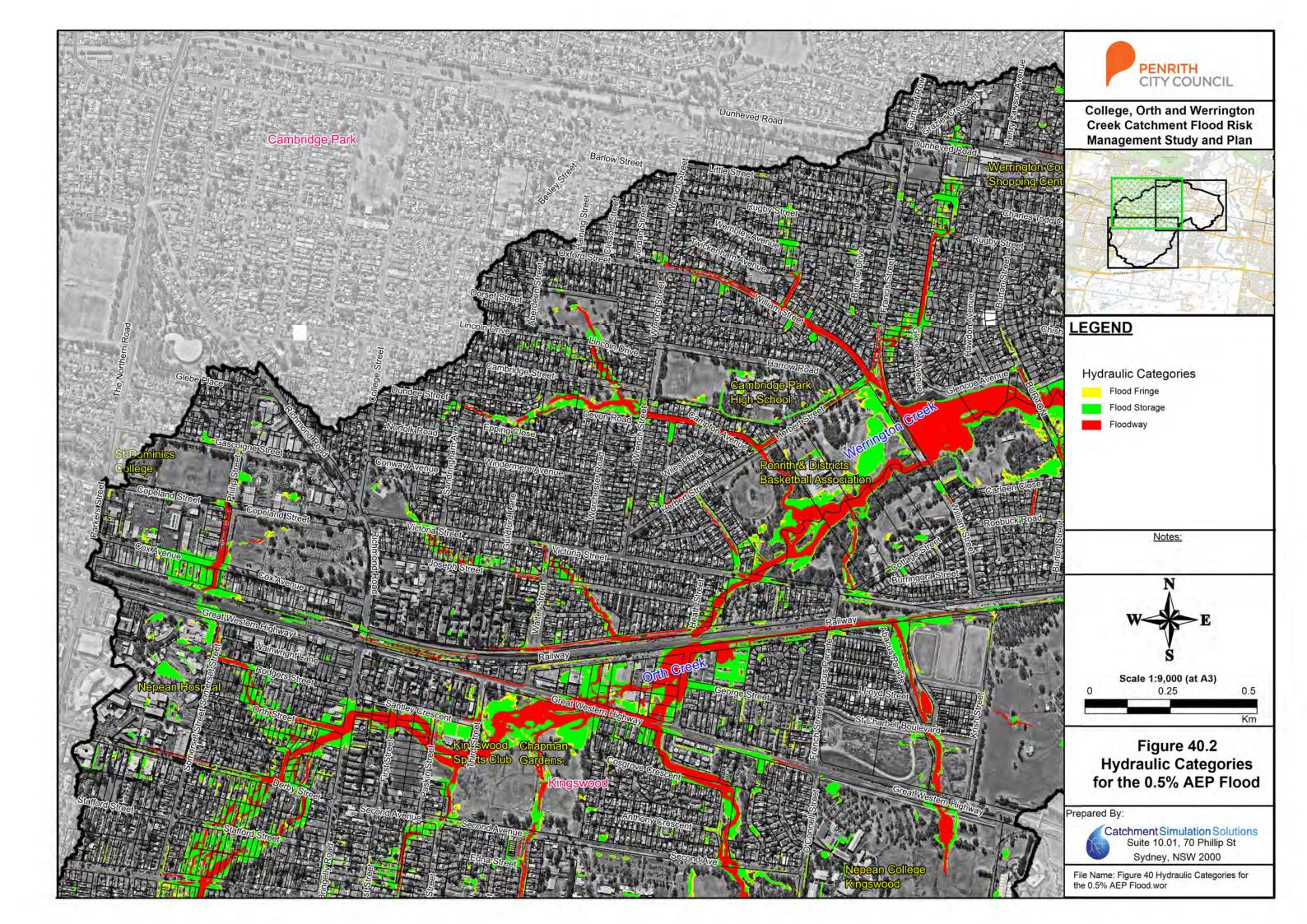


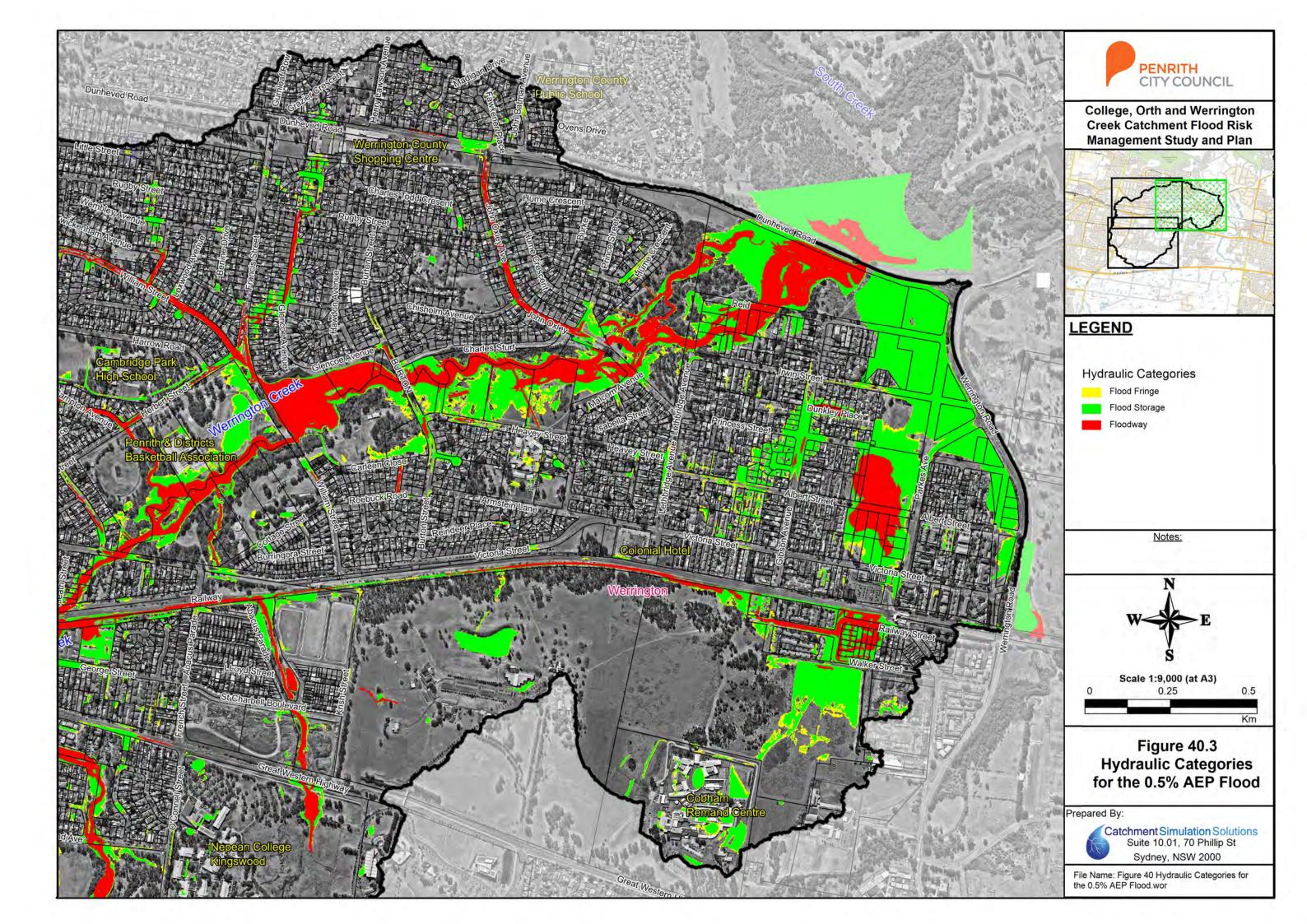


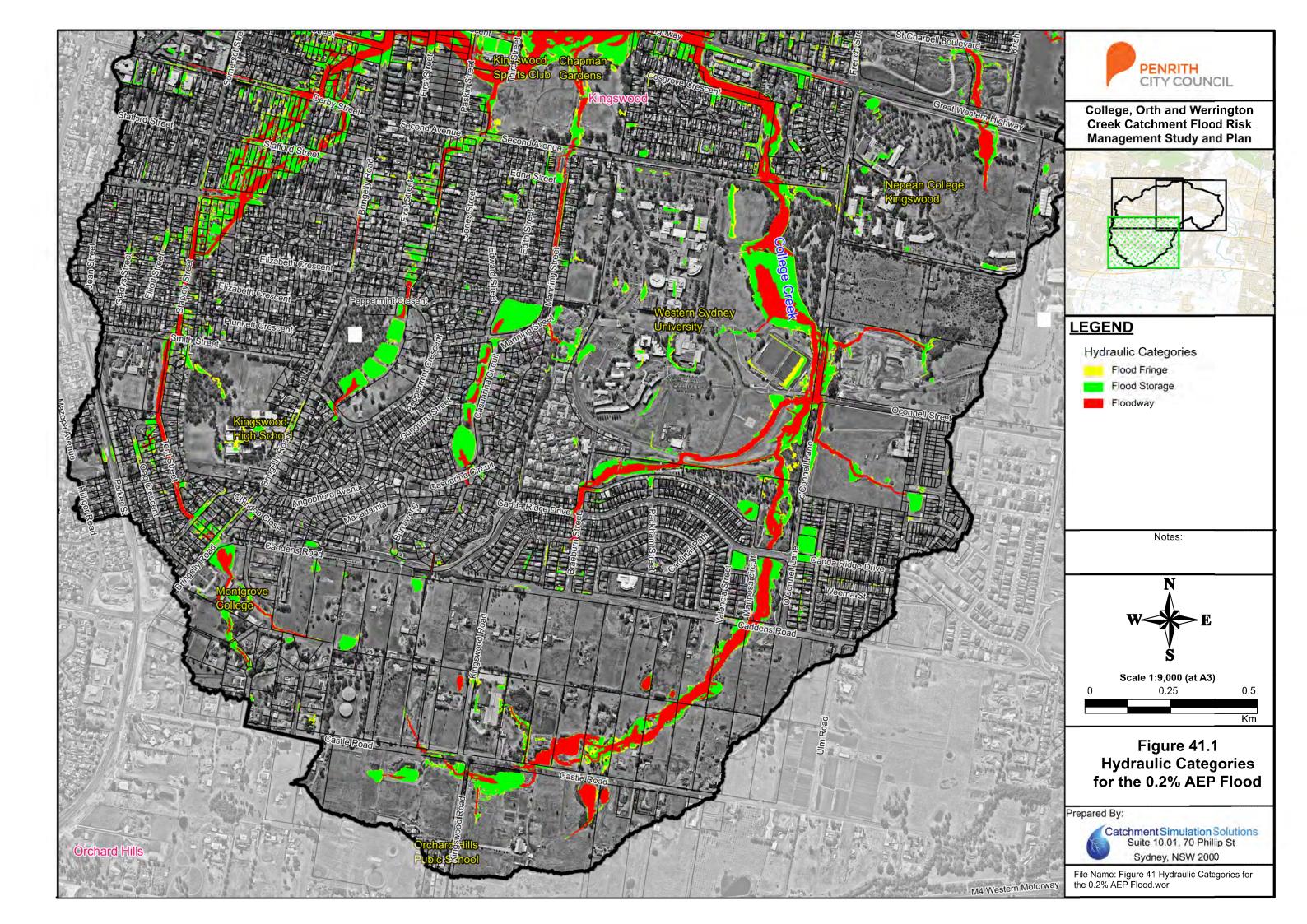


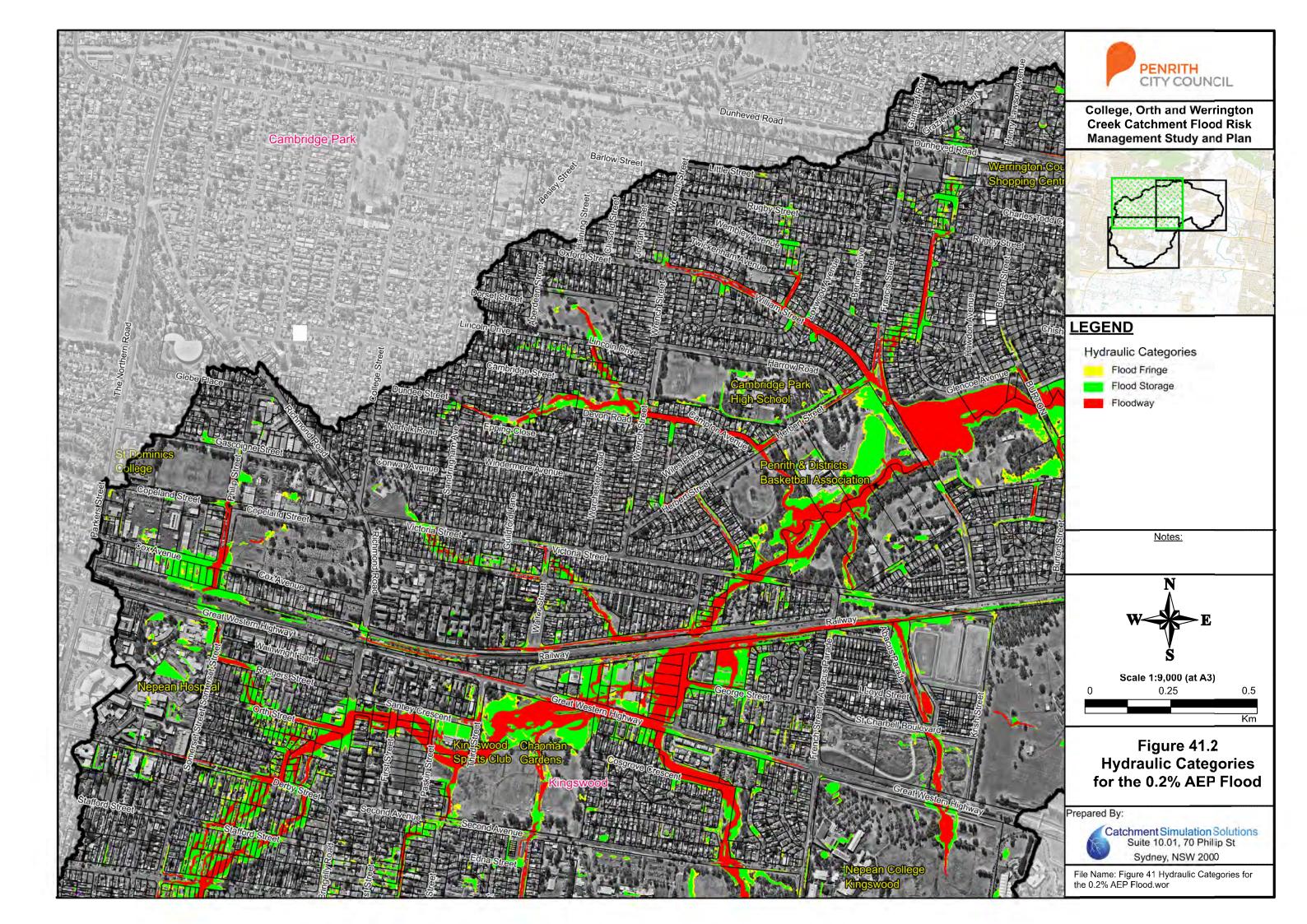


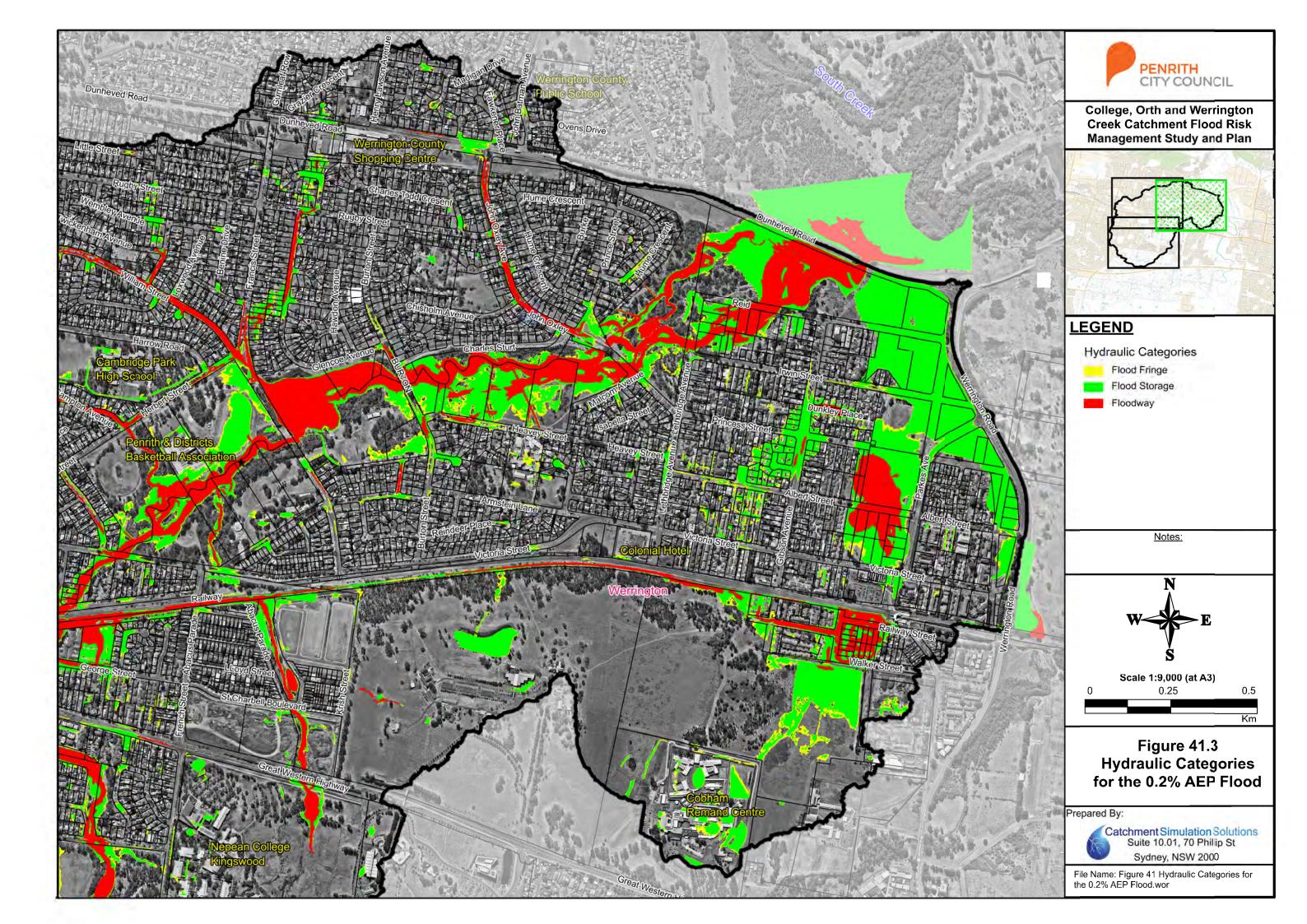


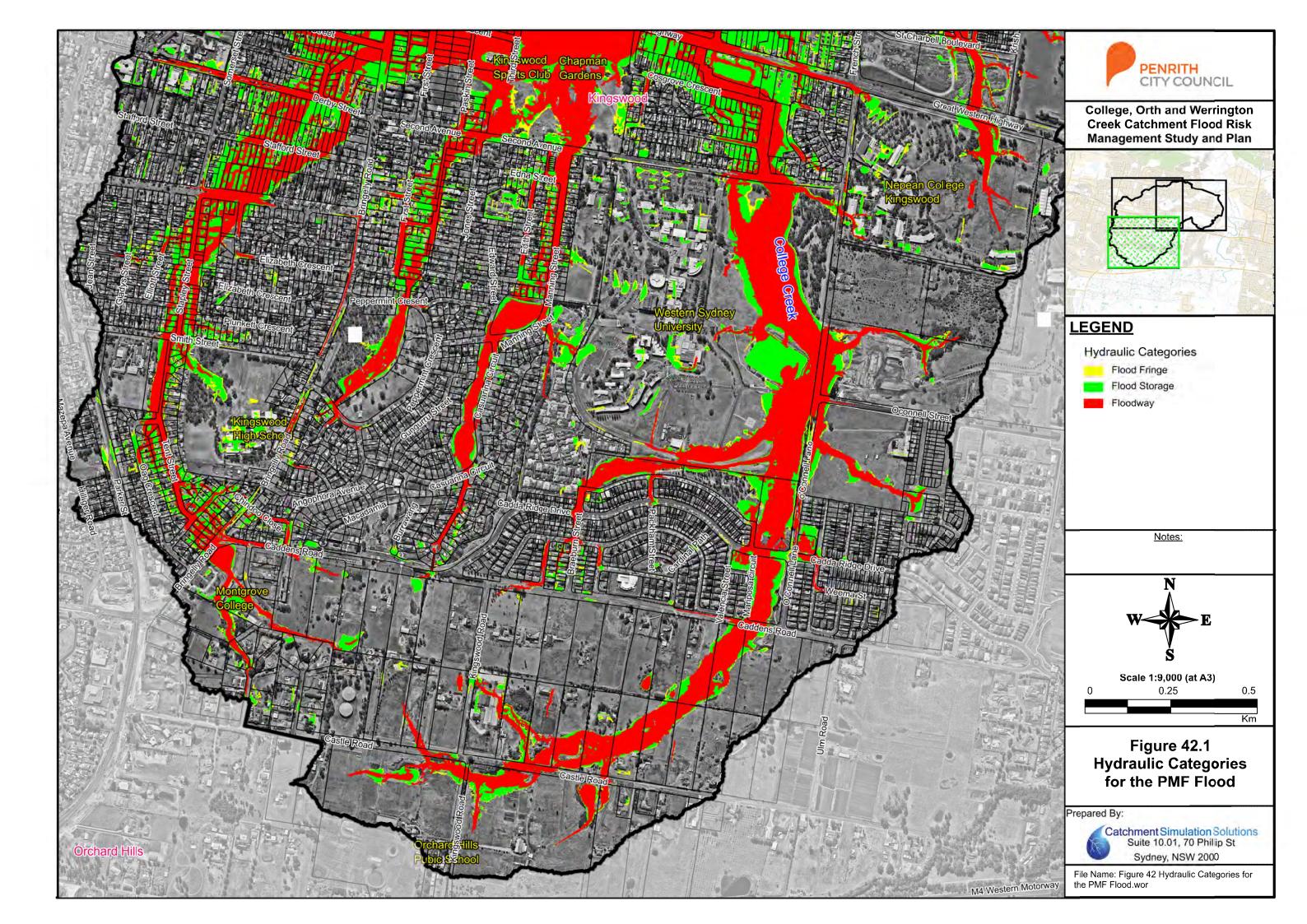


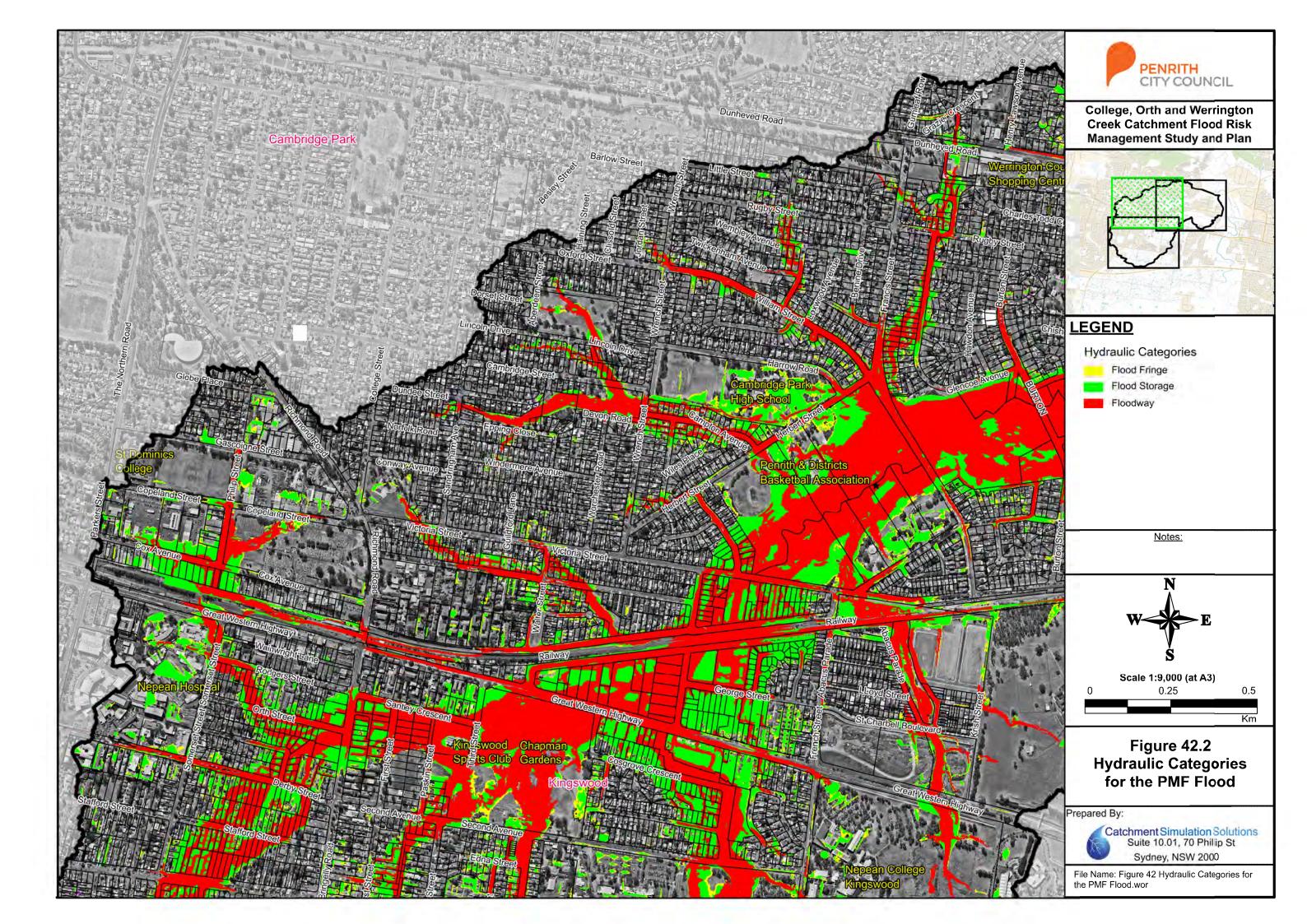


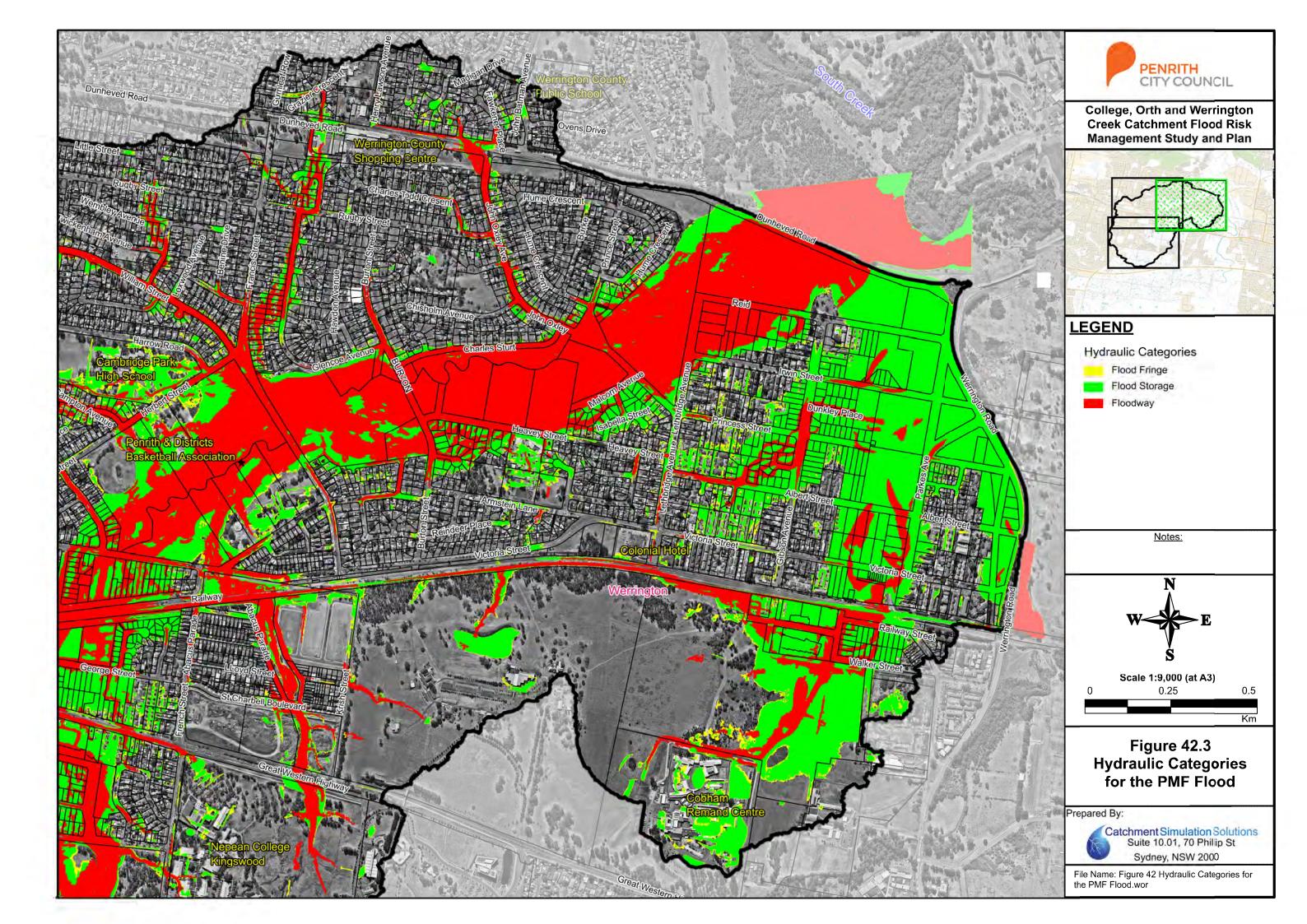




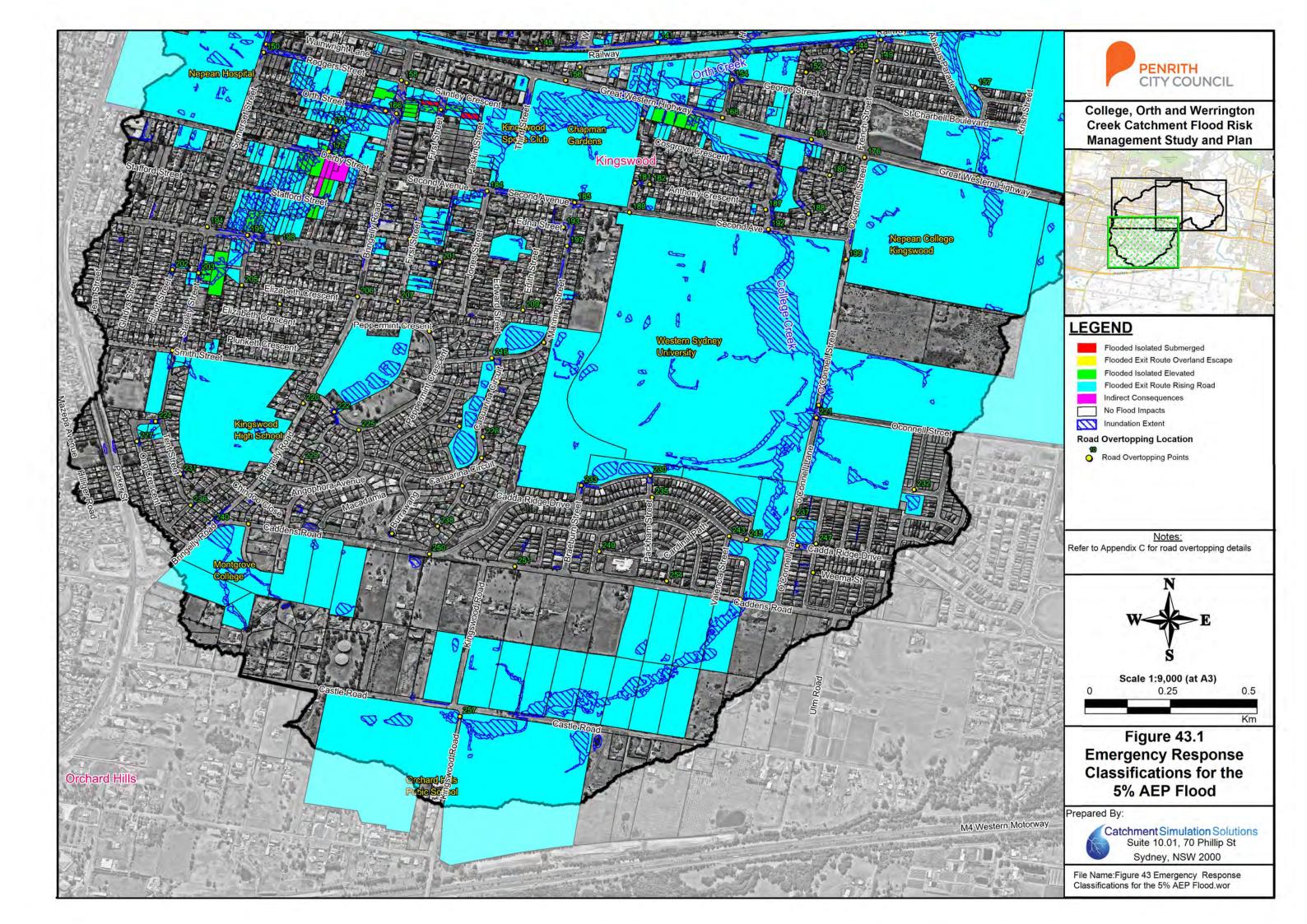


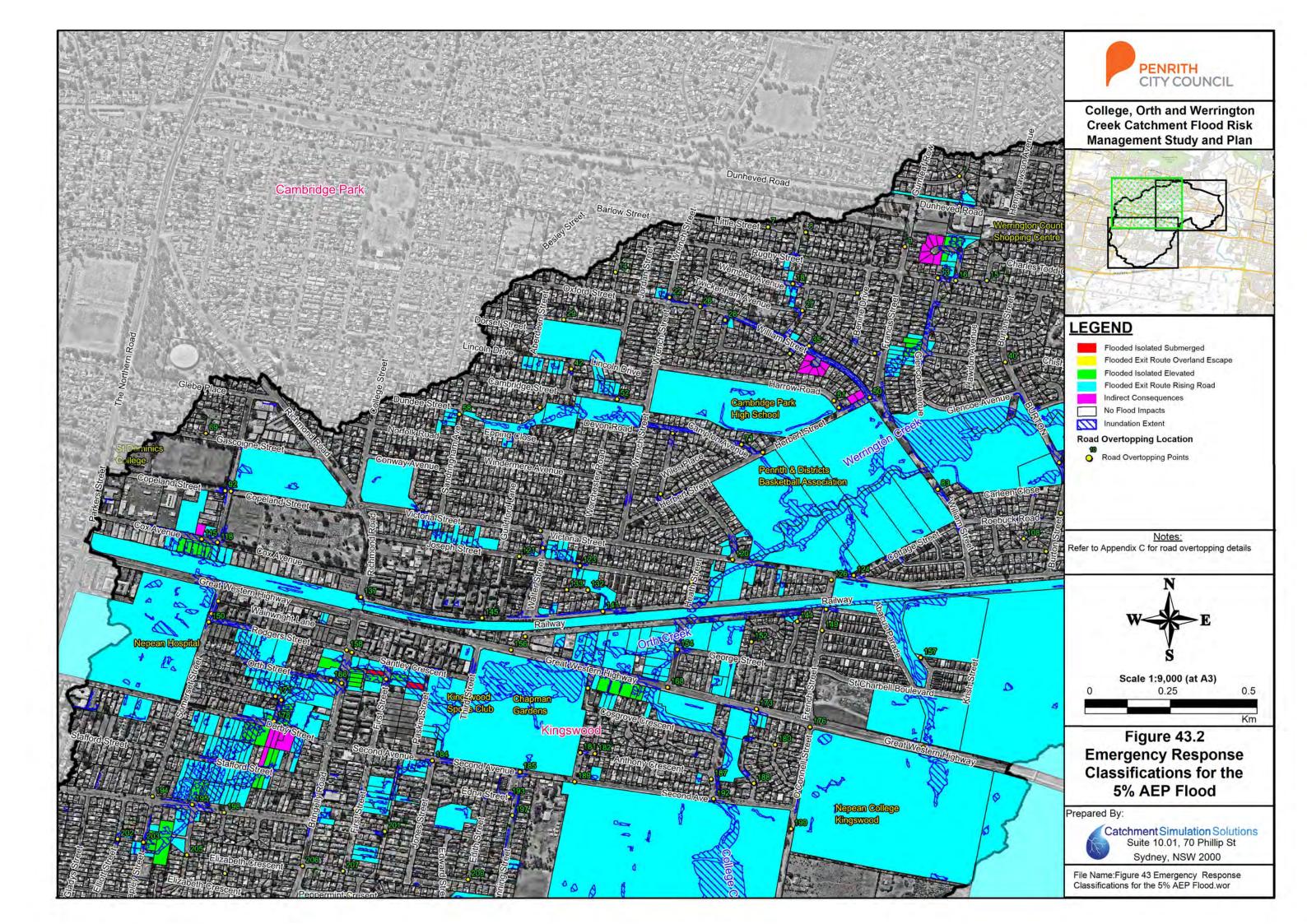


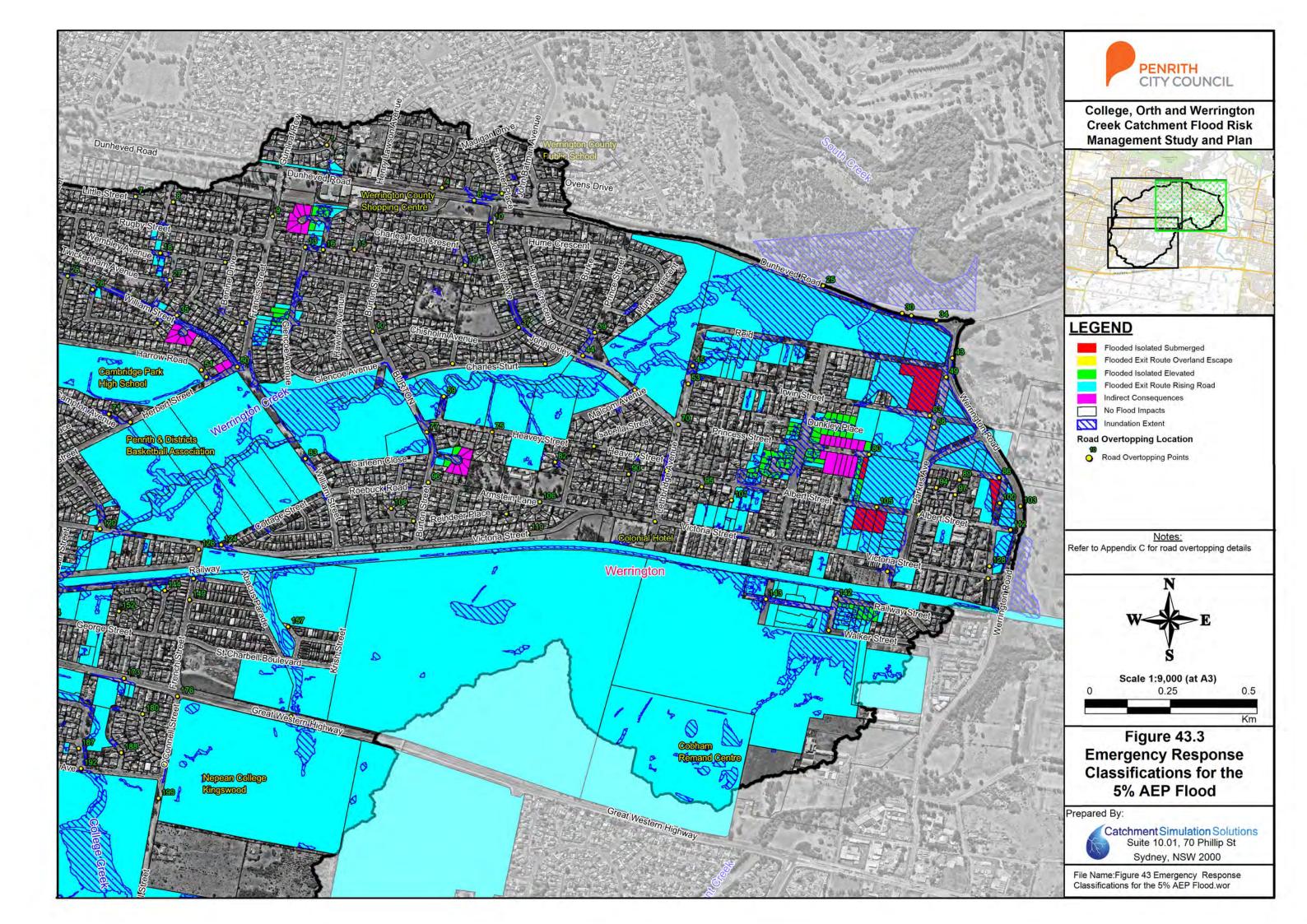


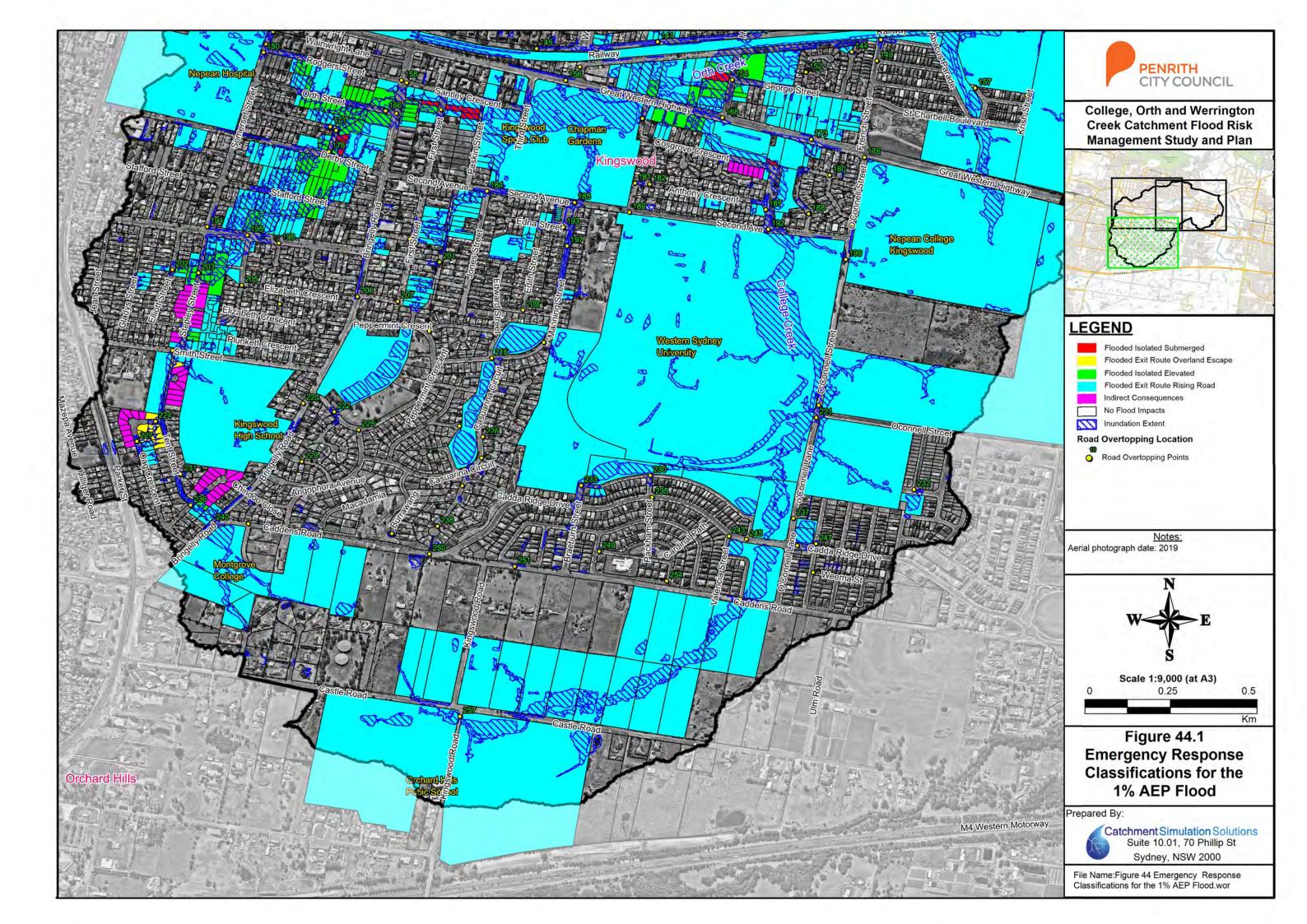


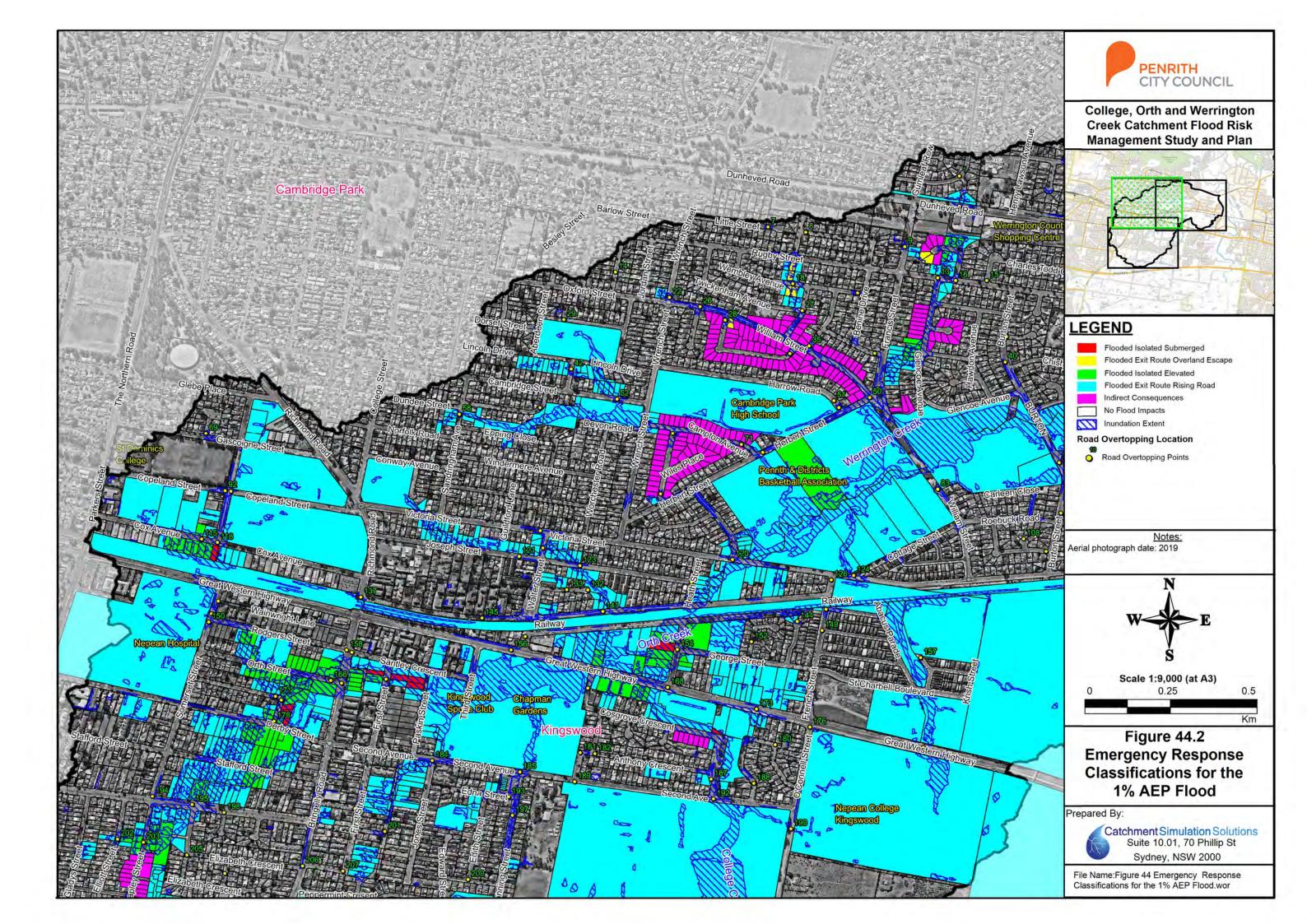
EMERGENCY RESPONSE PRECINCT CLASSIFICATIONS

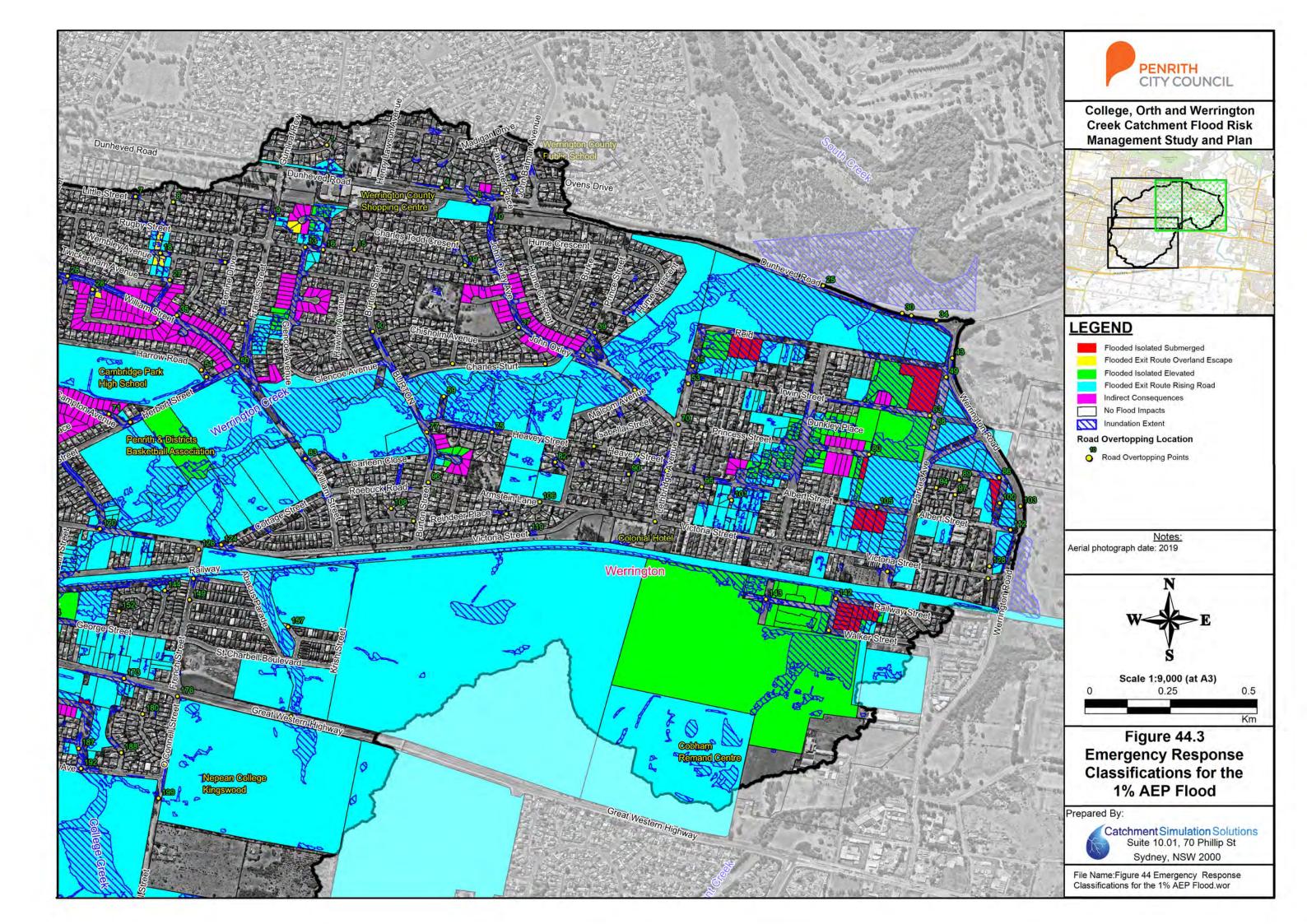


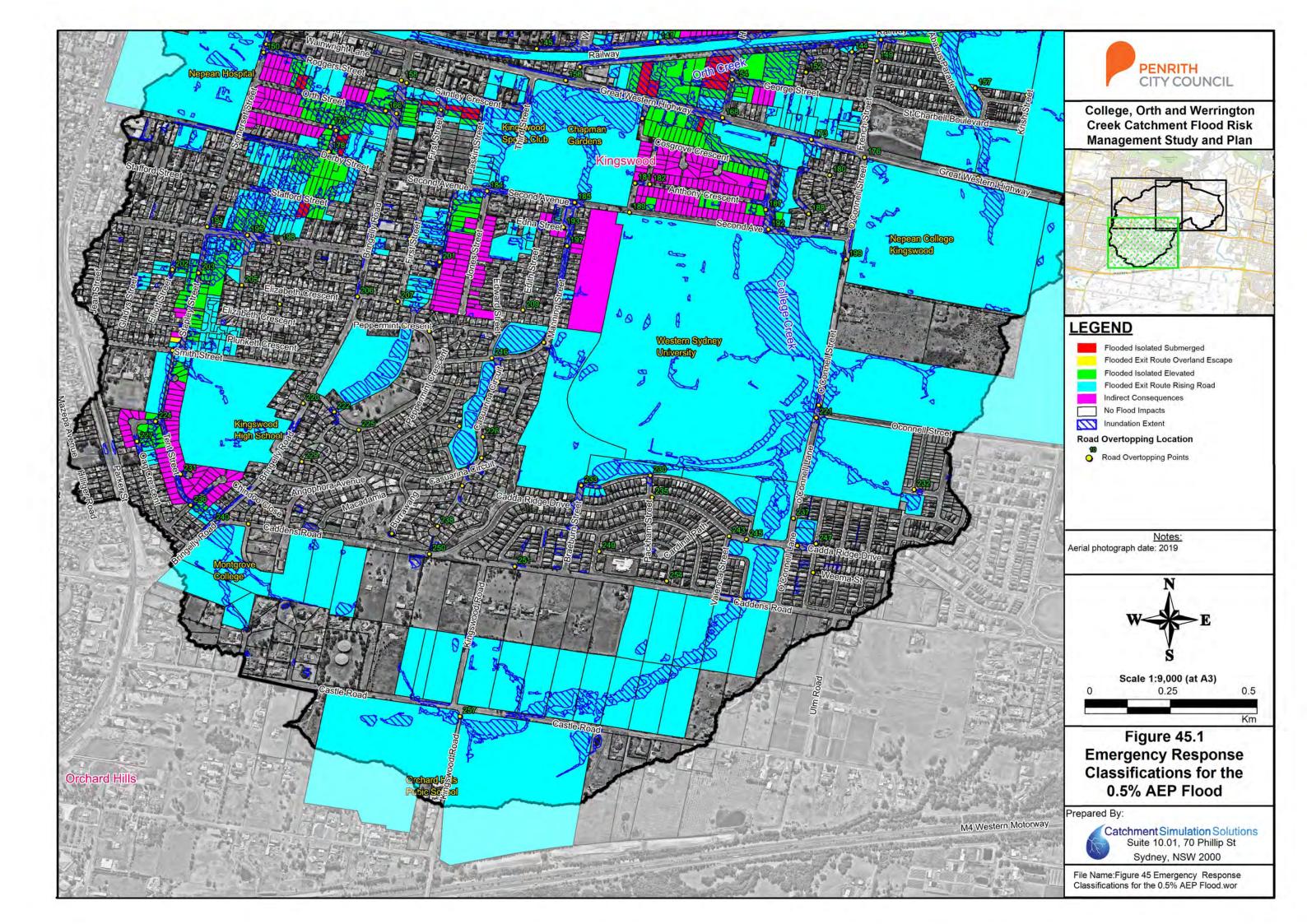


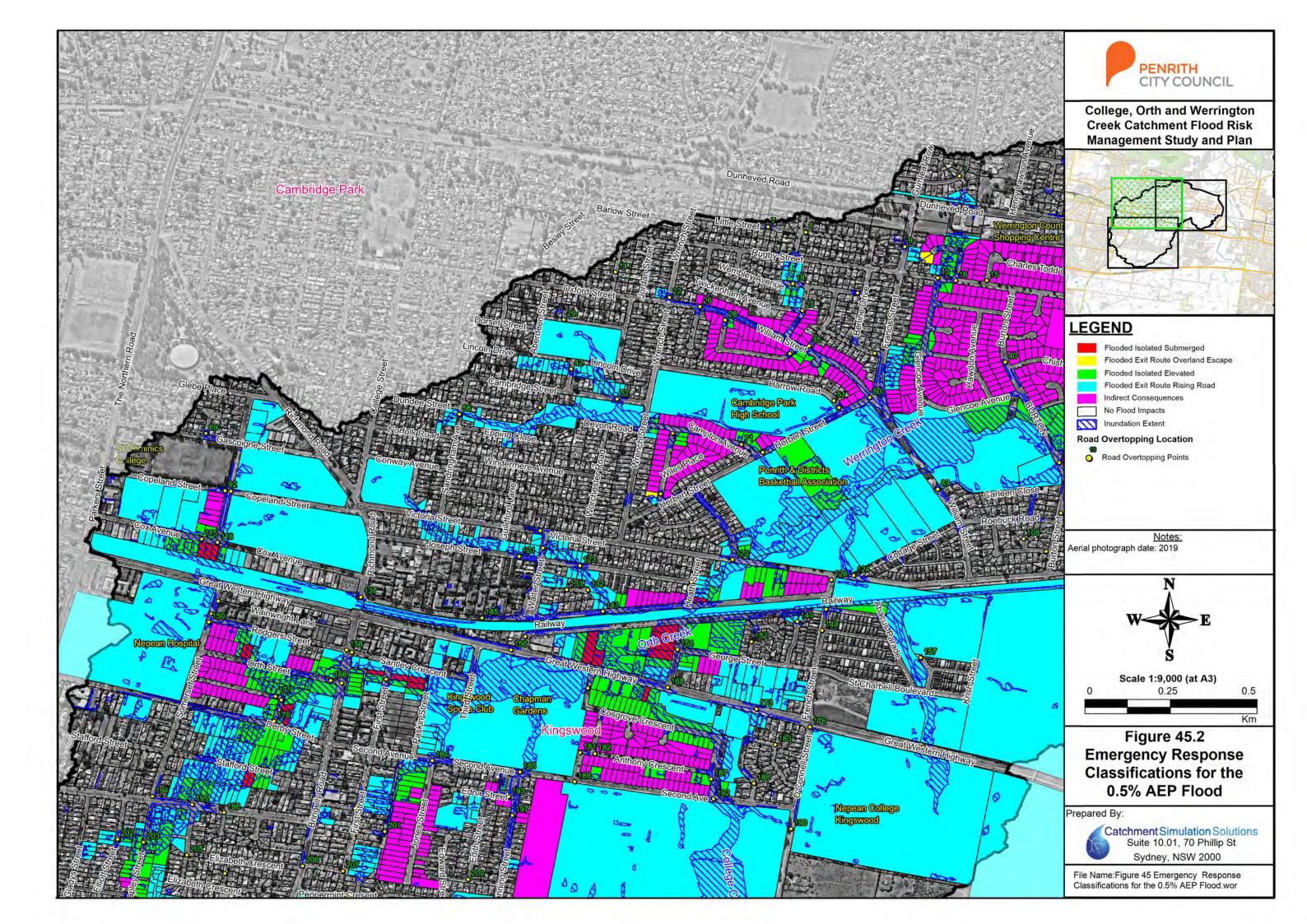


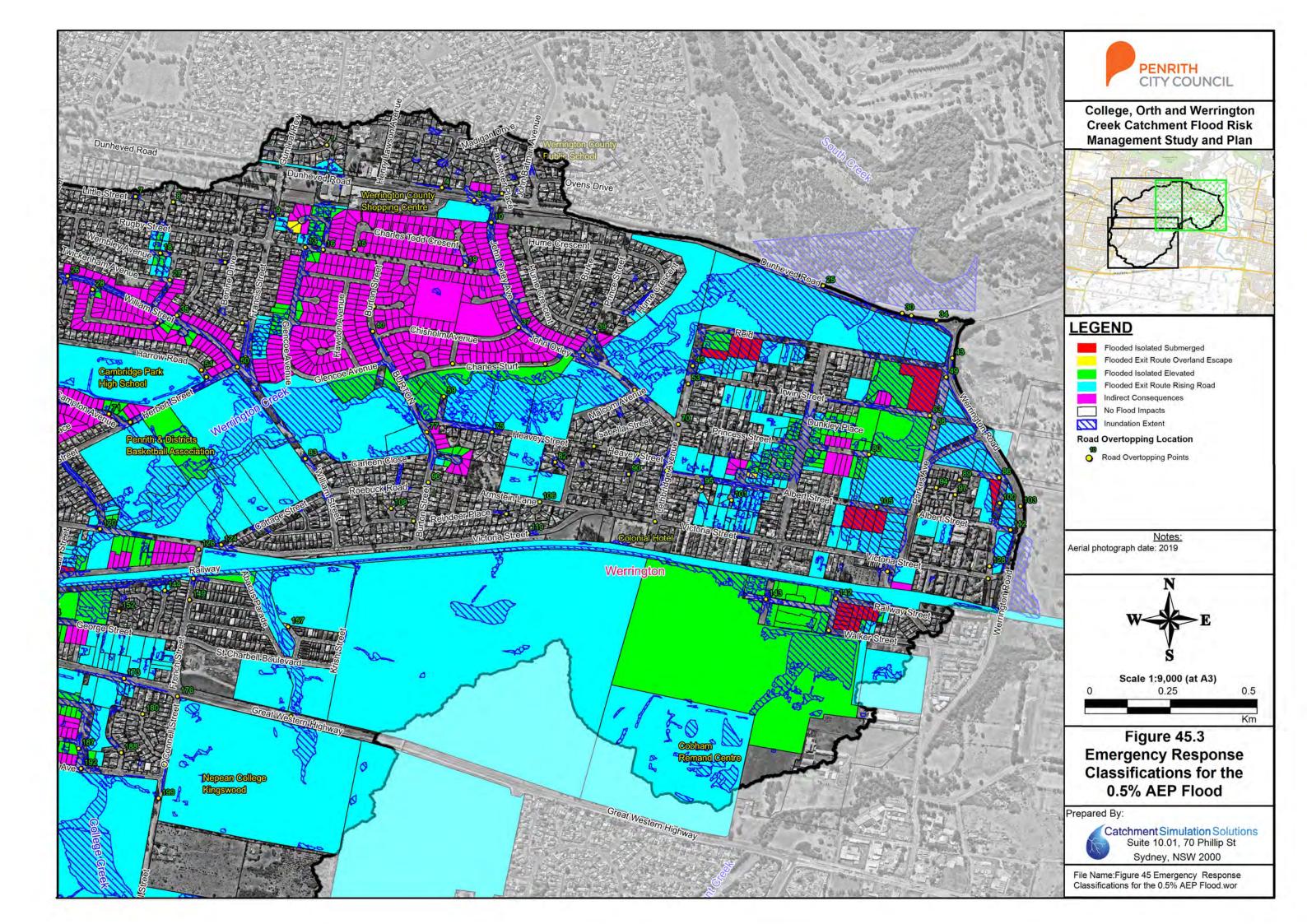


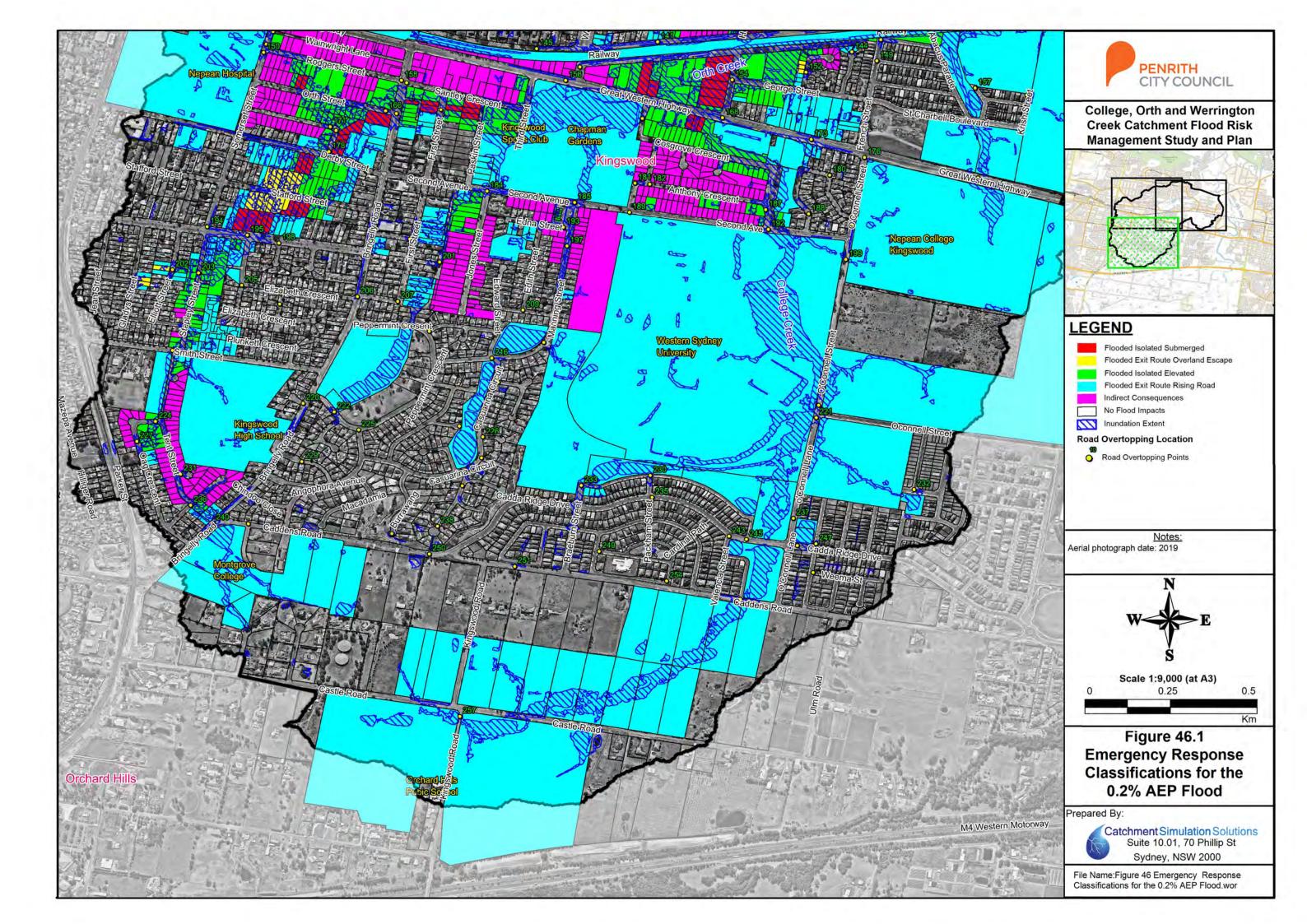


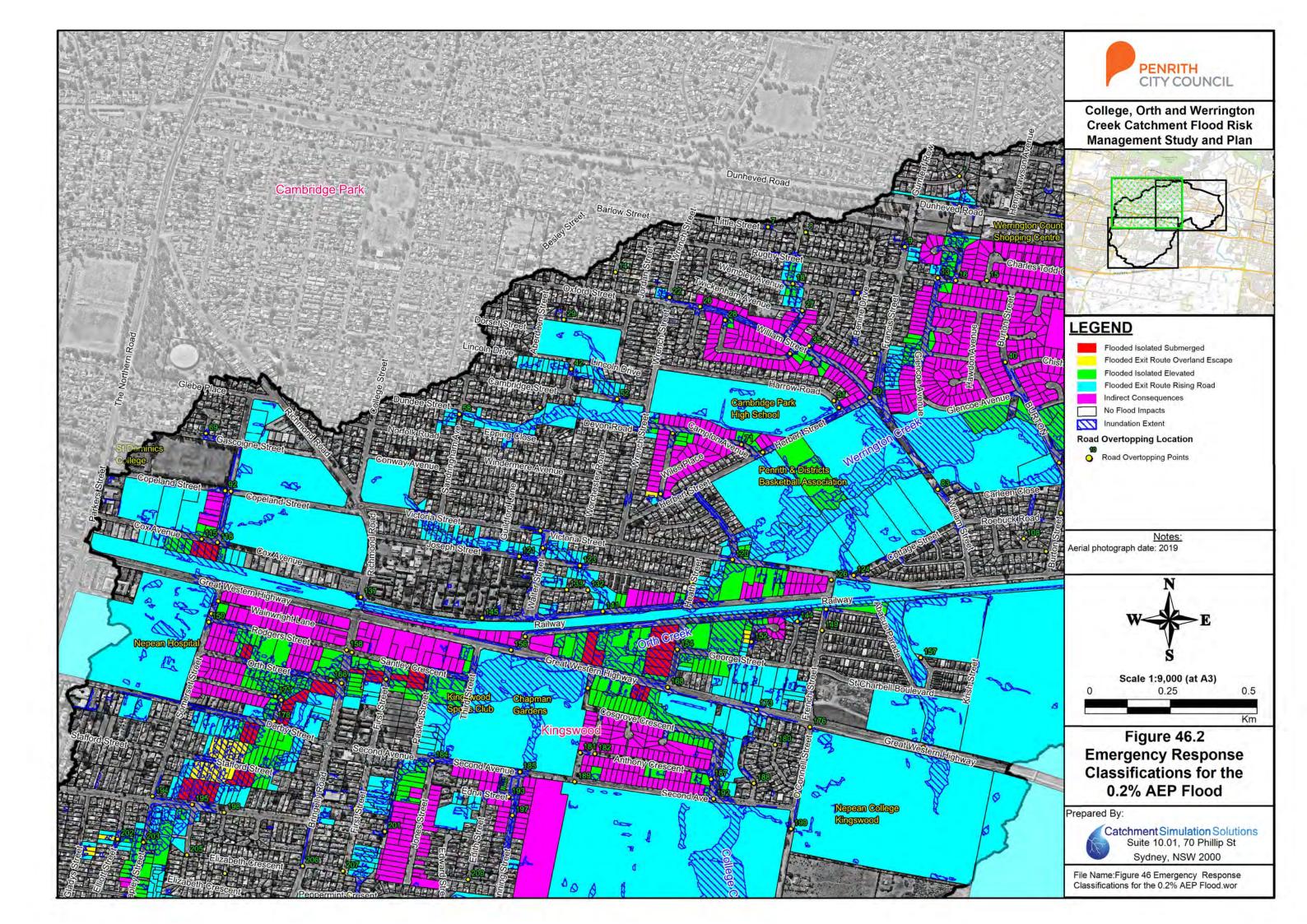


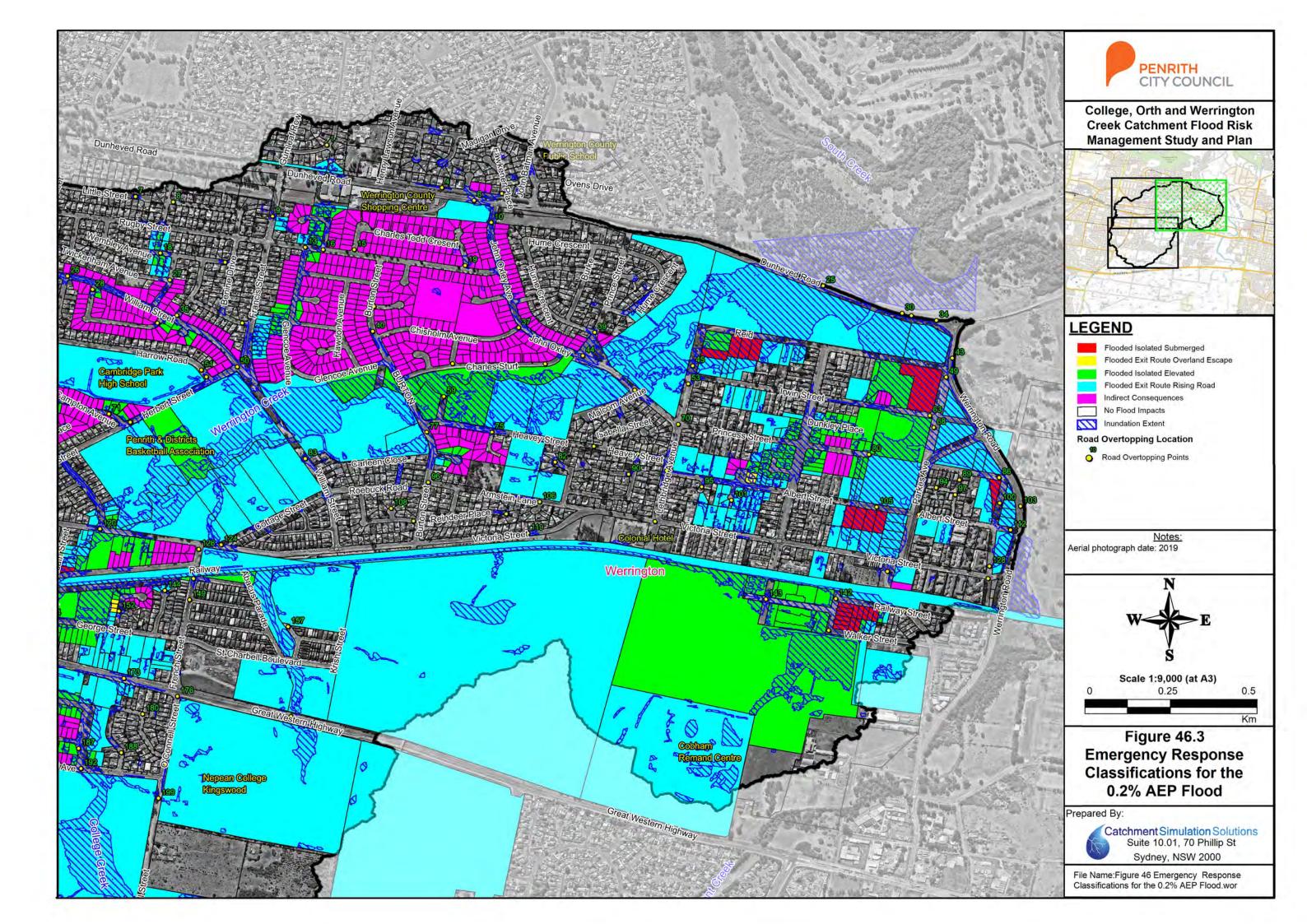


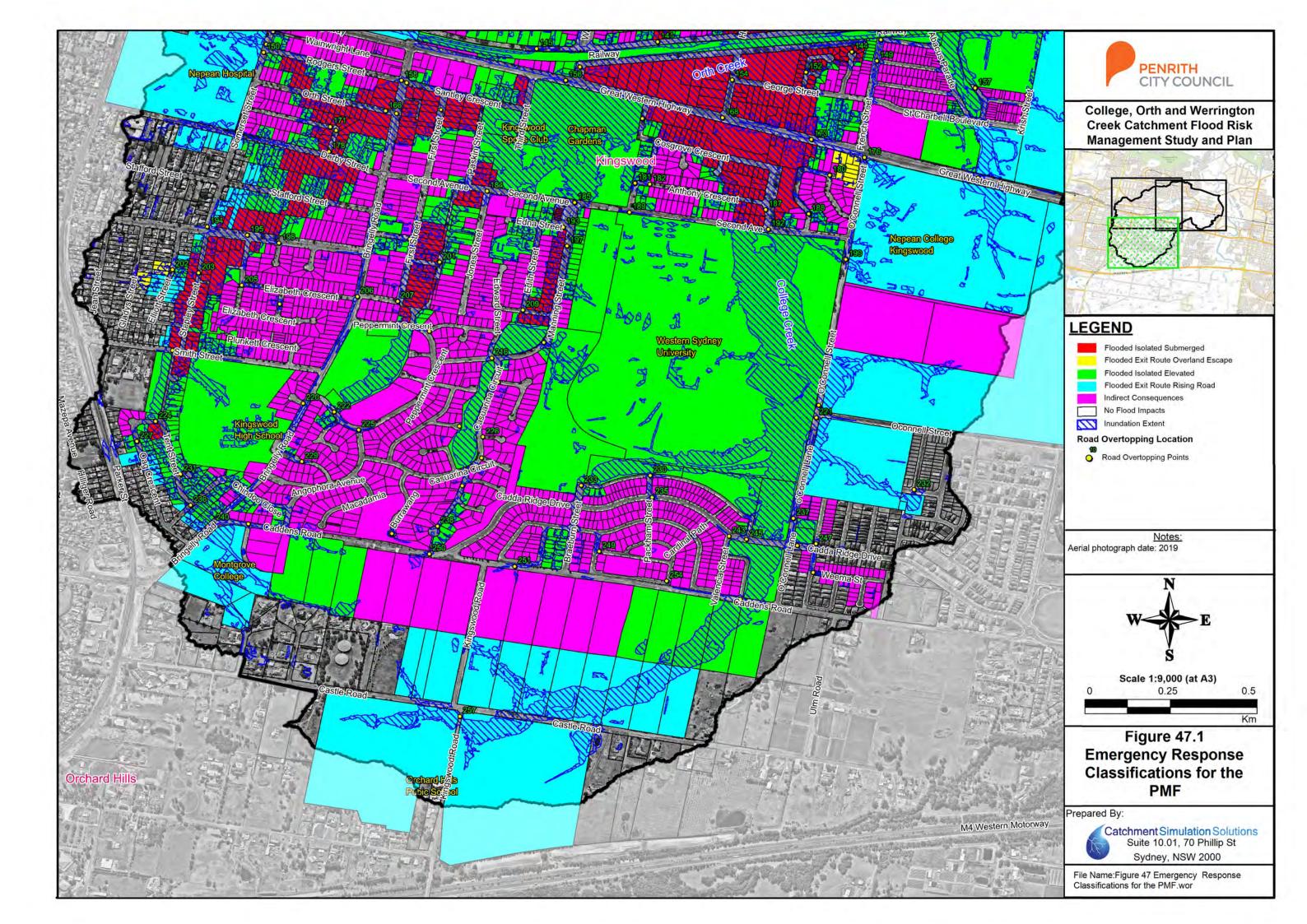


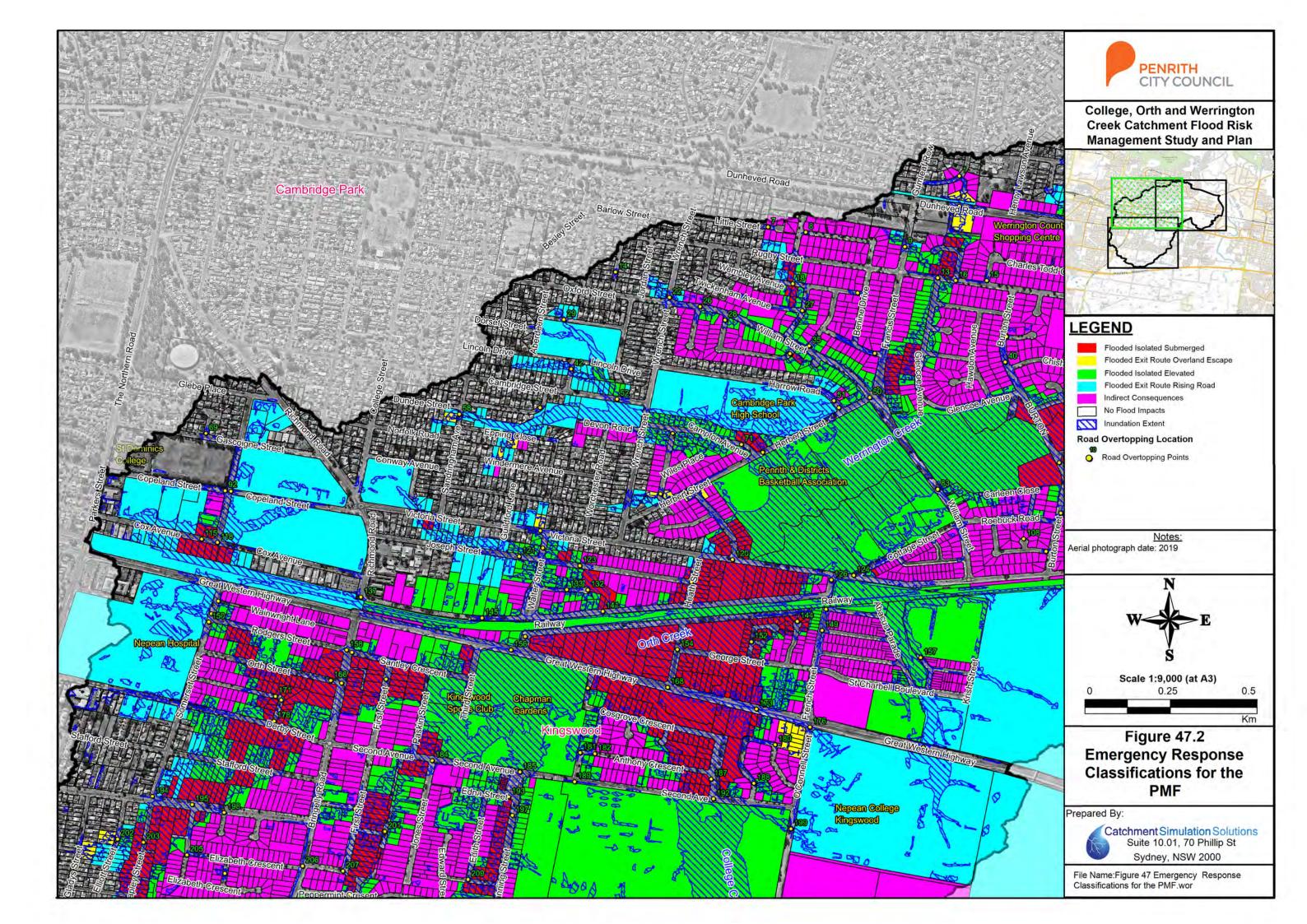


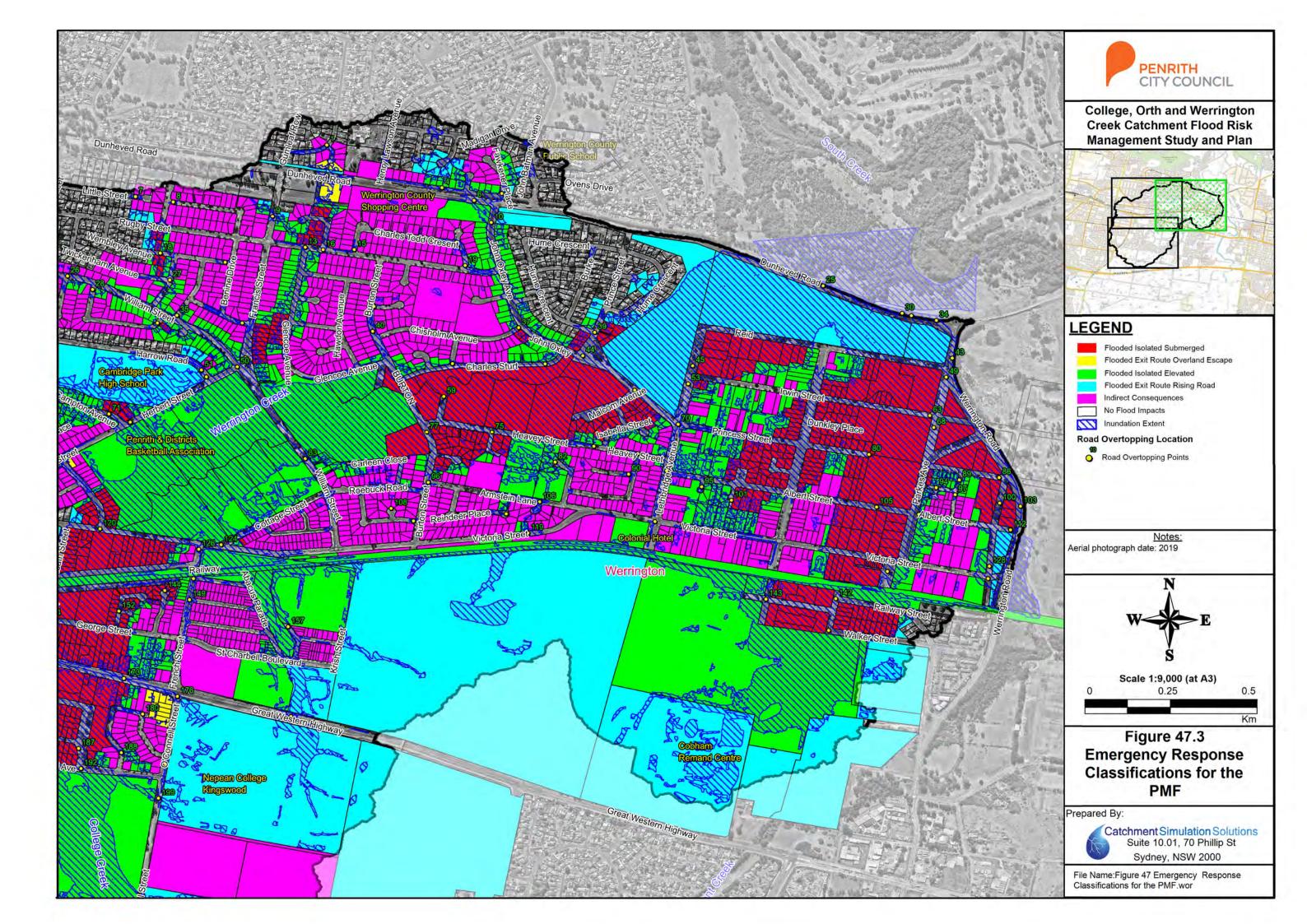


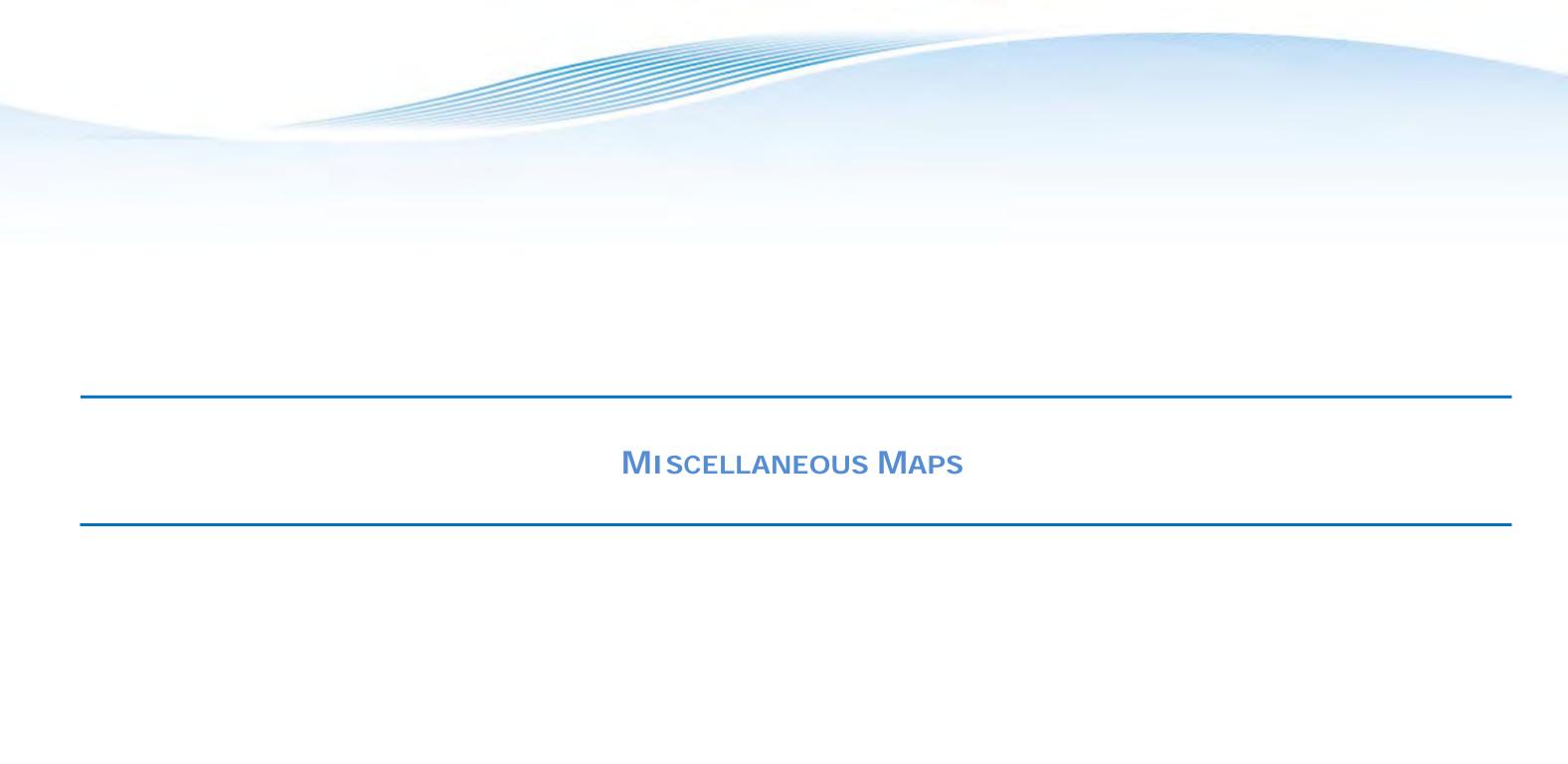


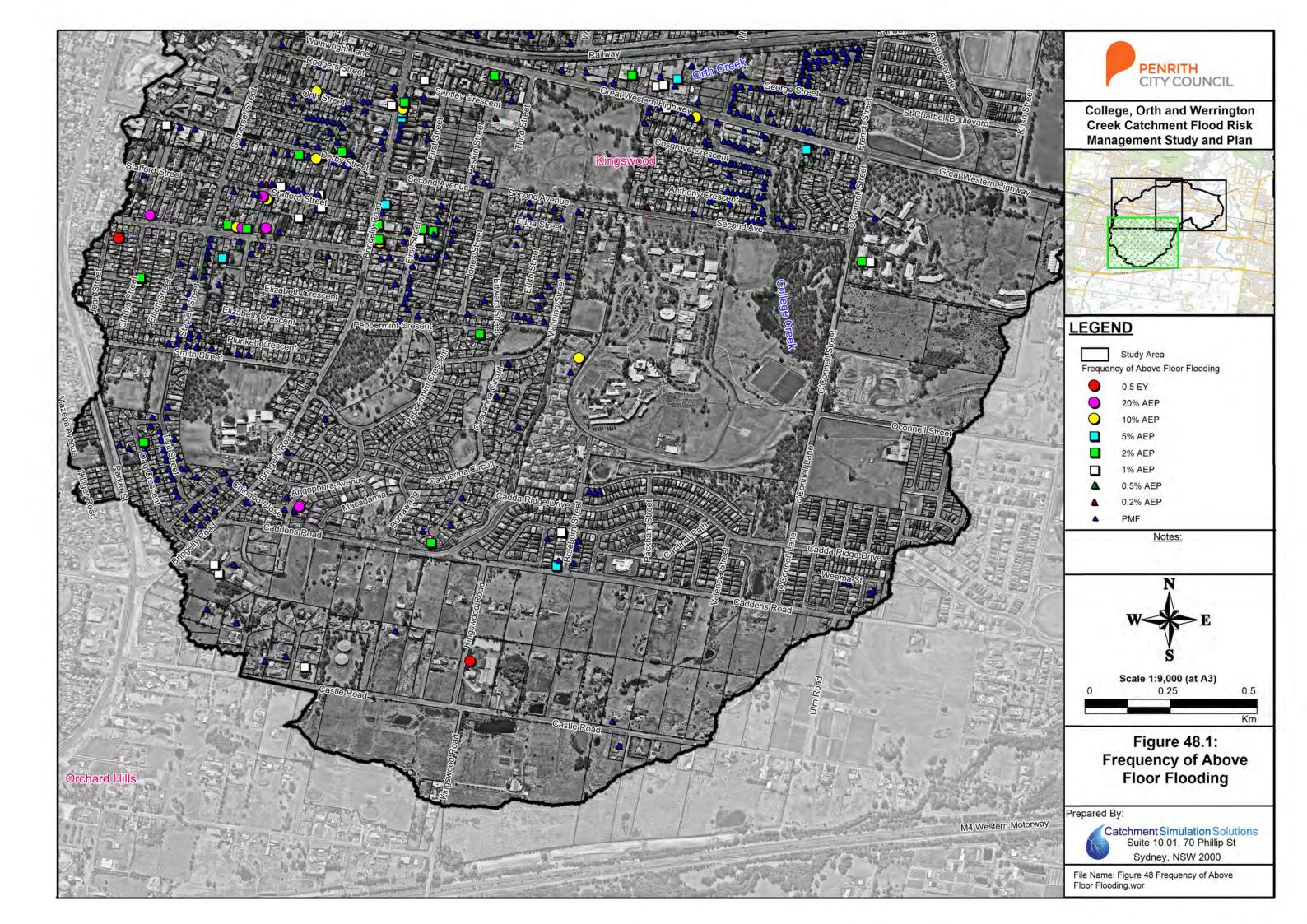


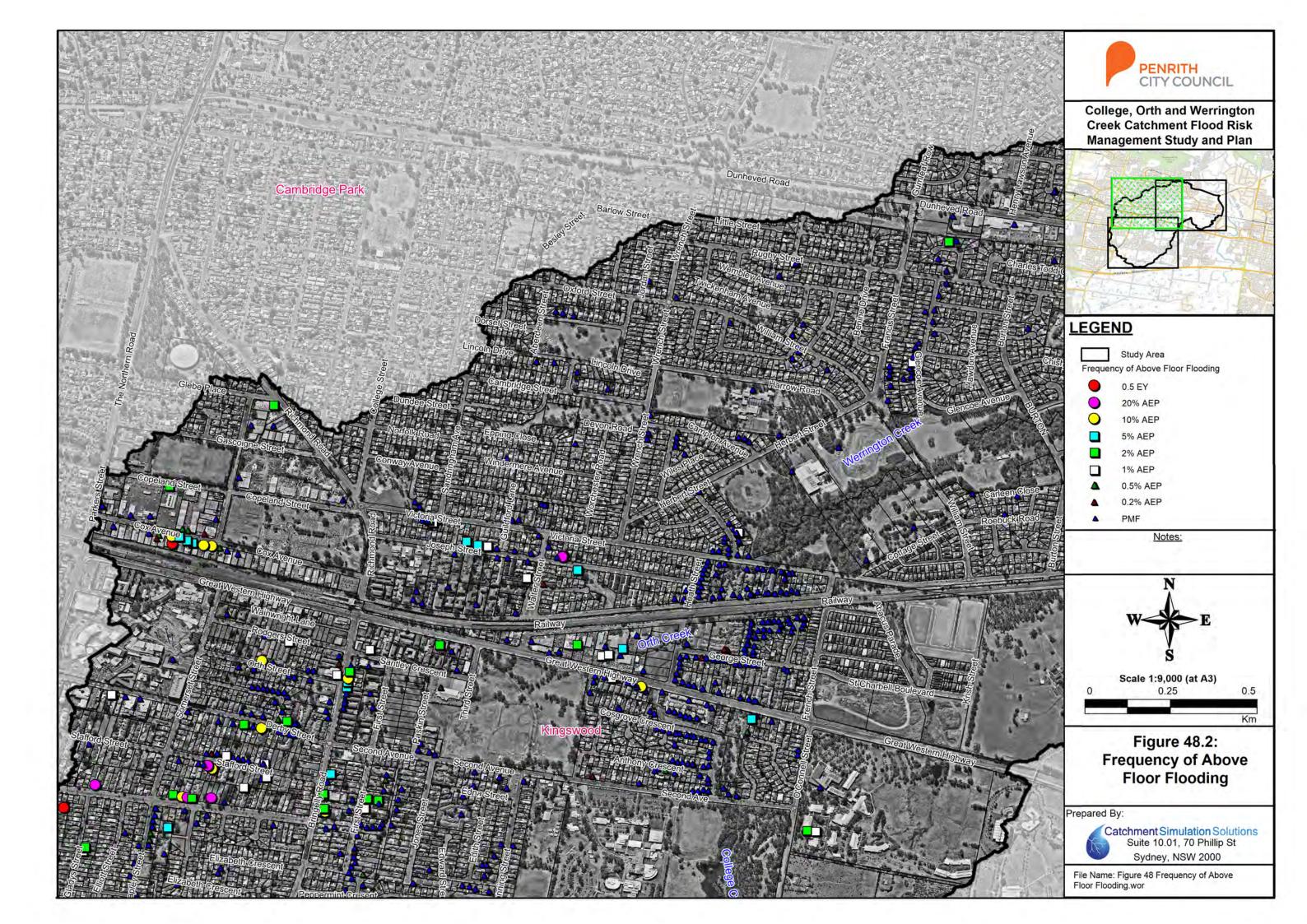


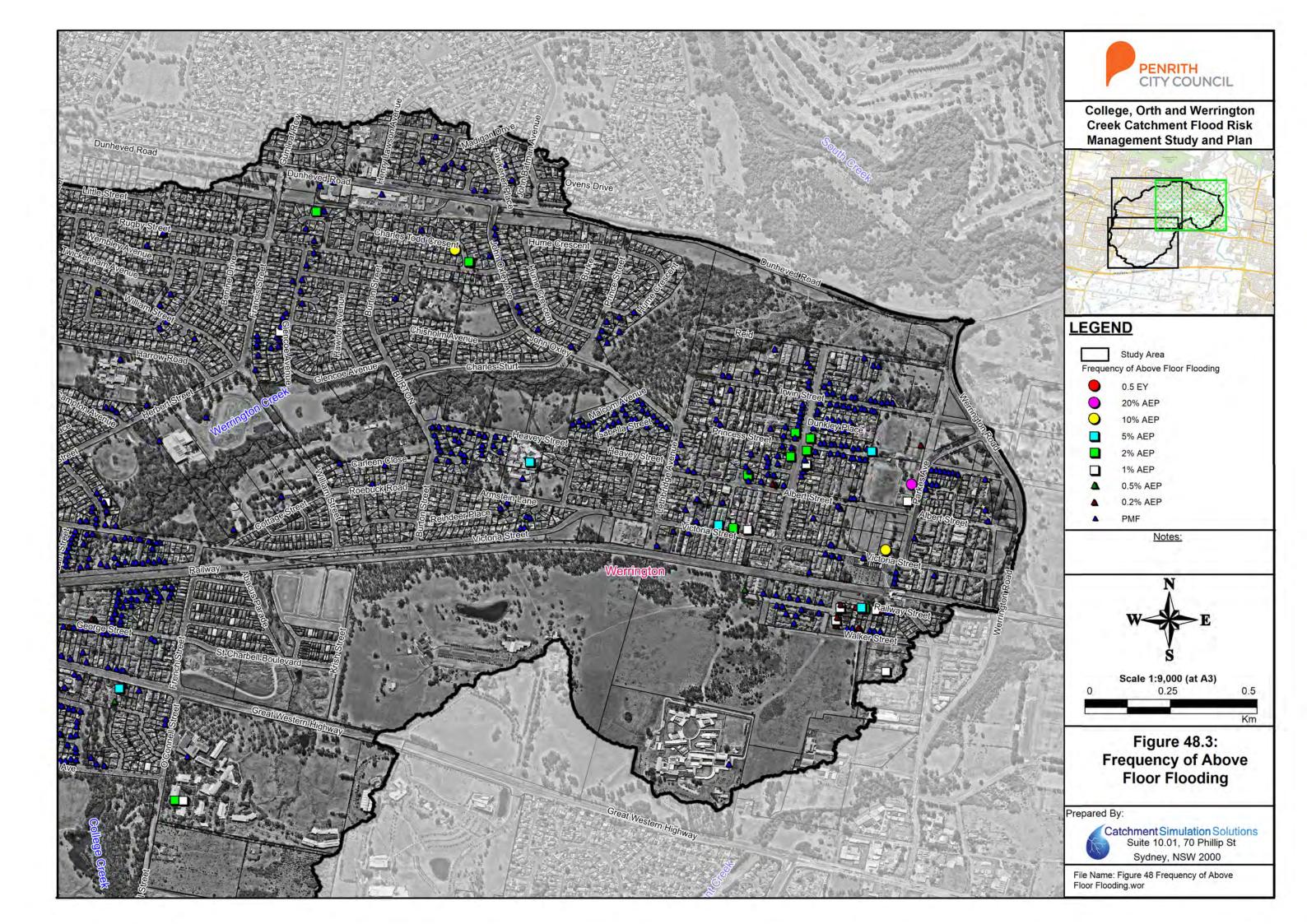


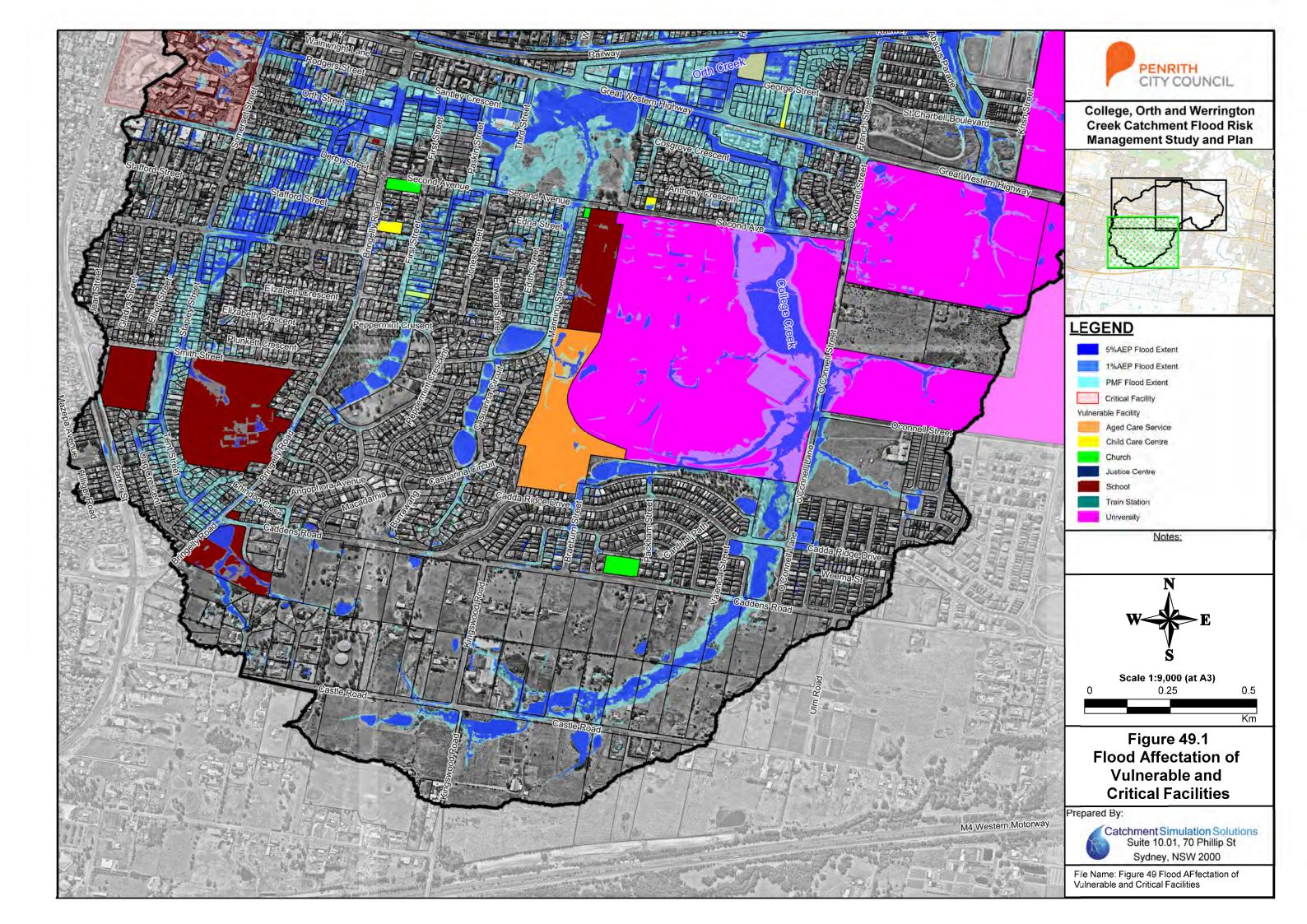


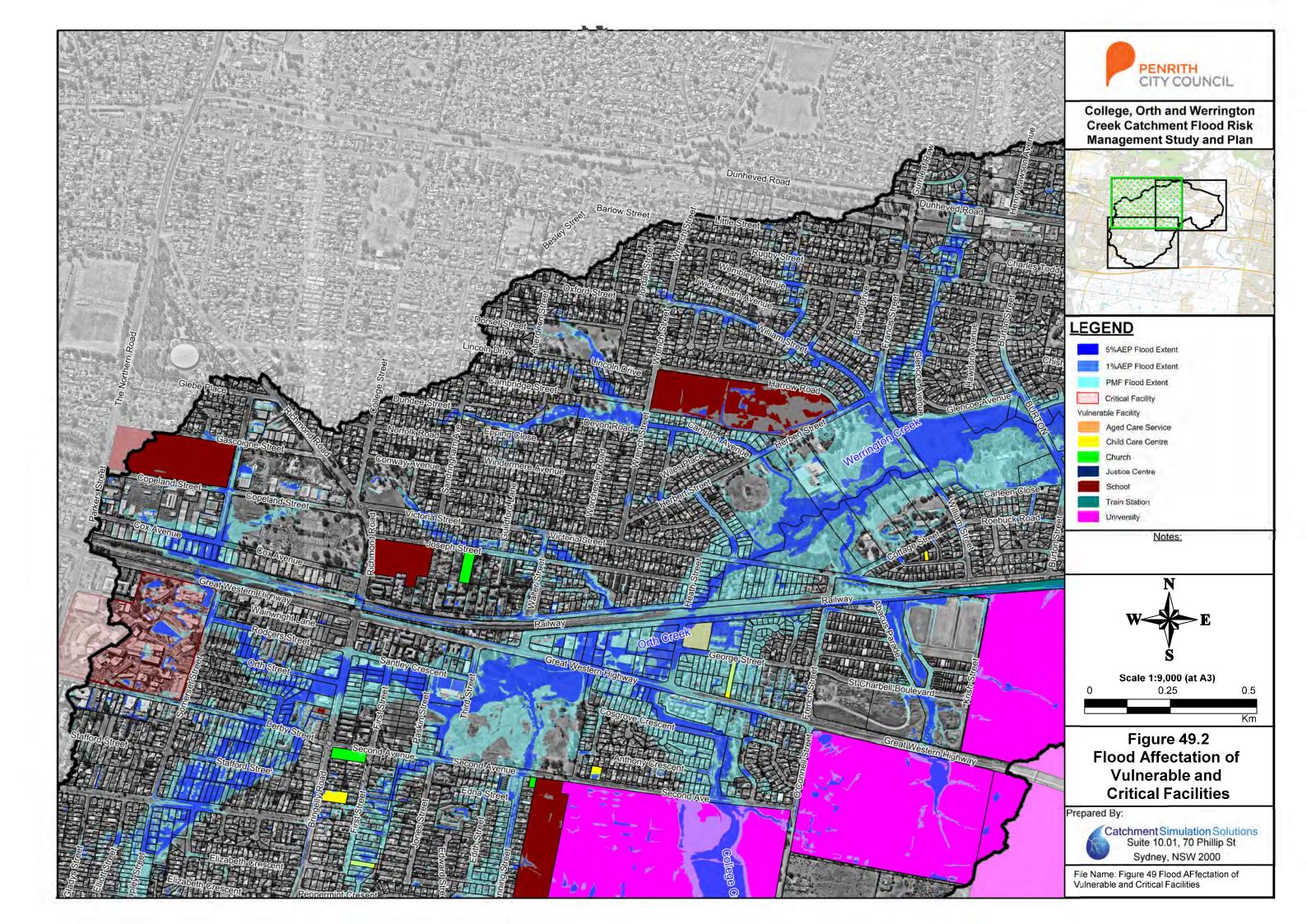


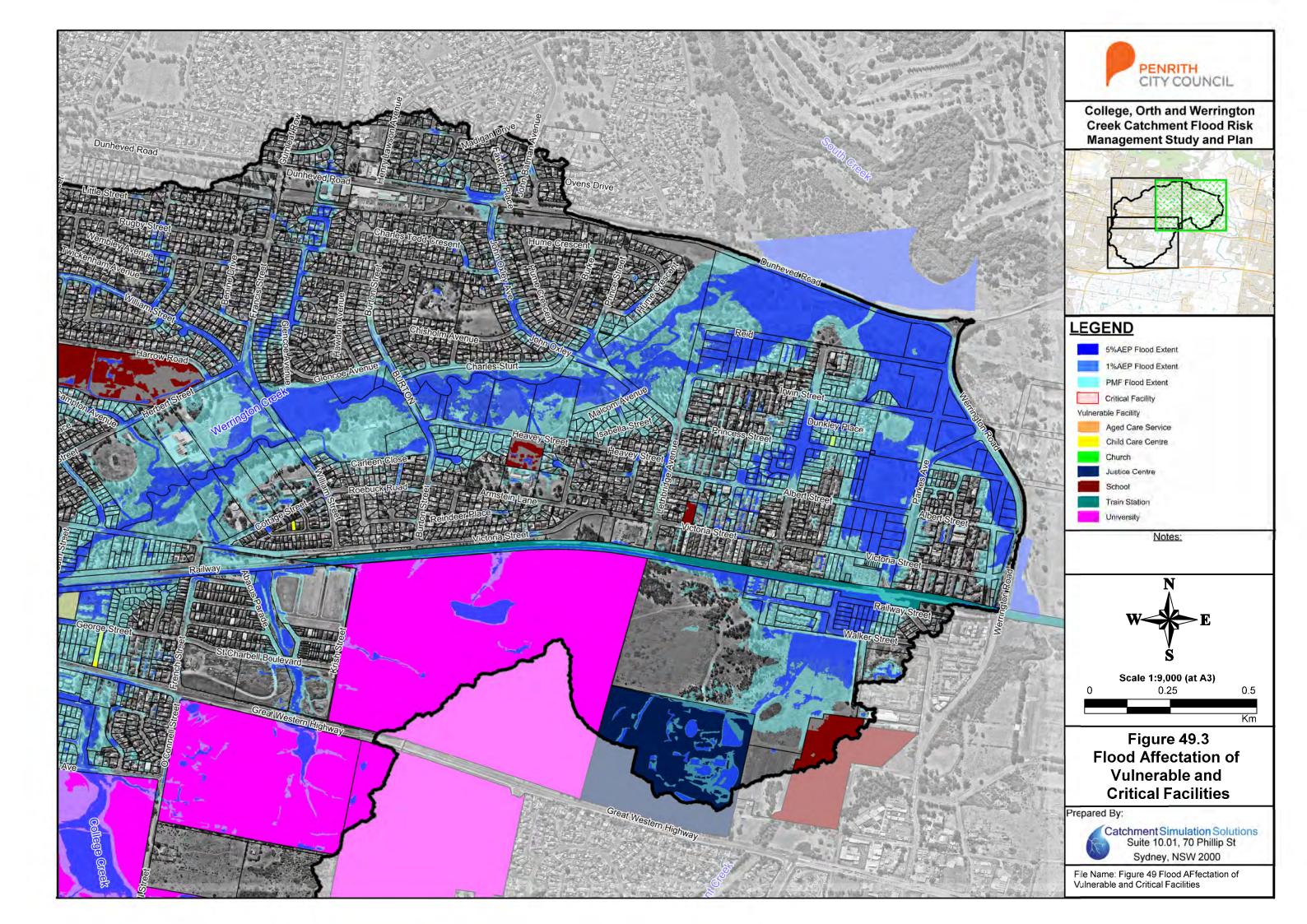


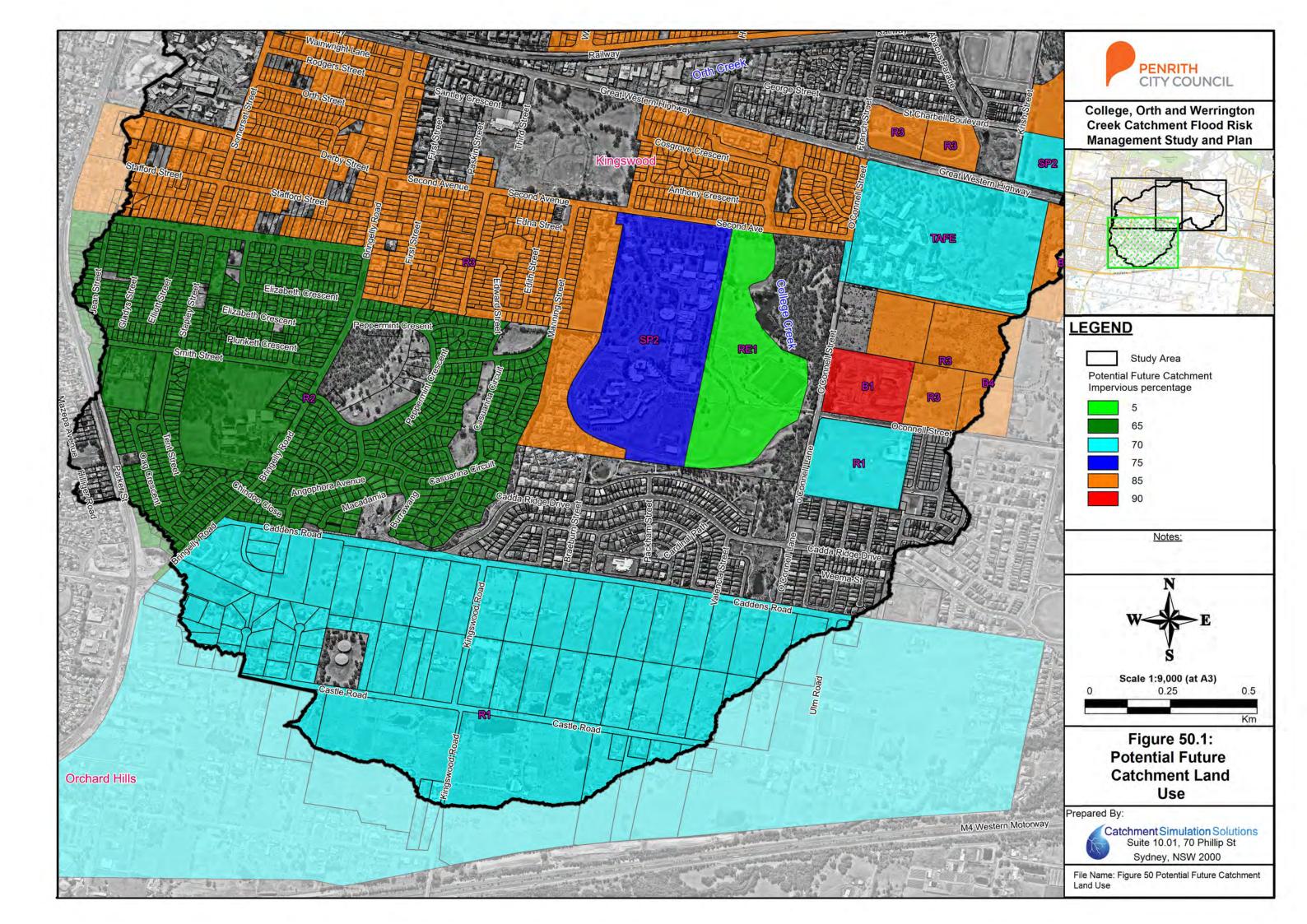


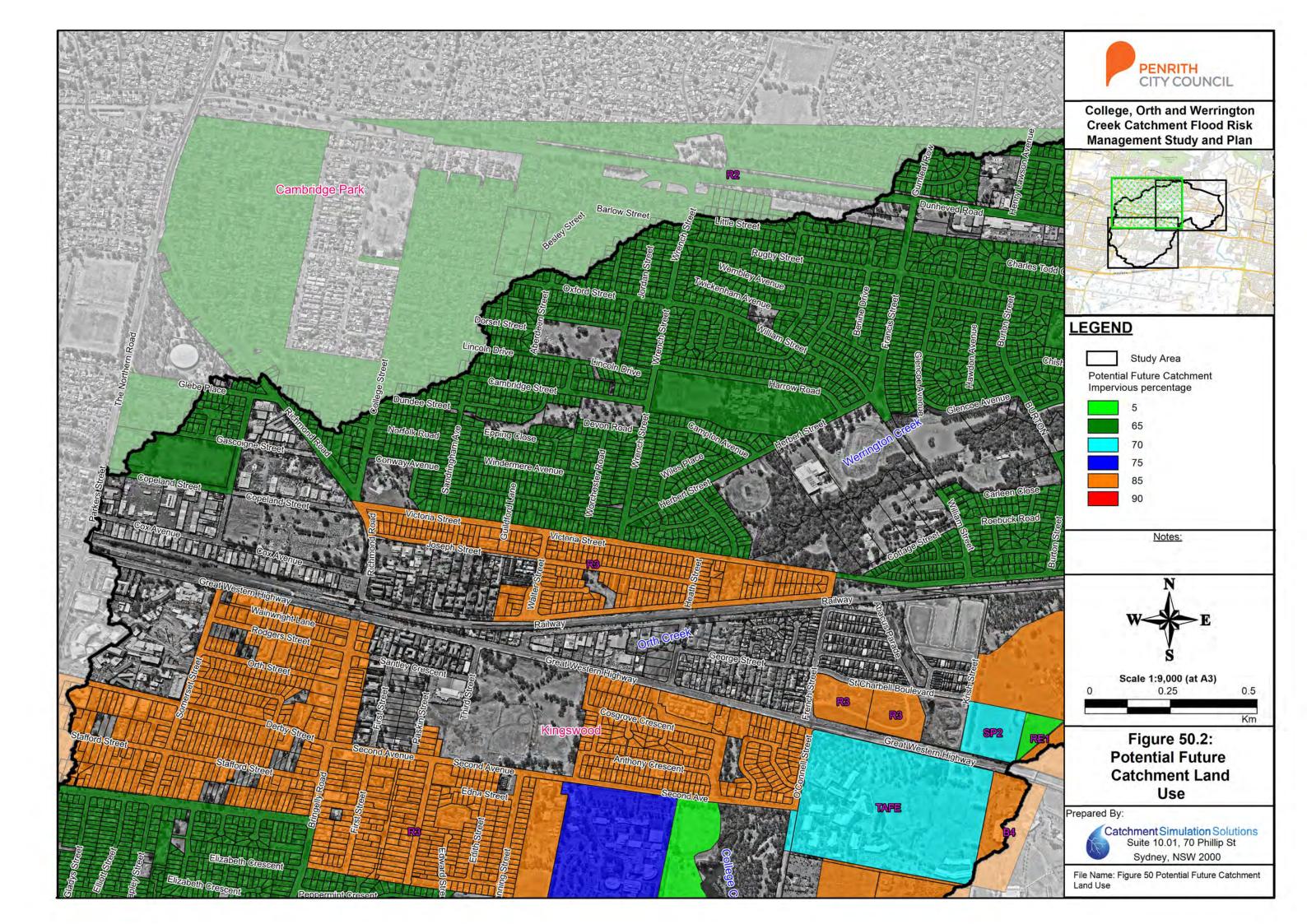


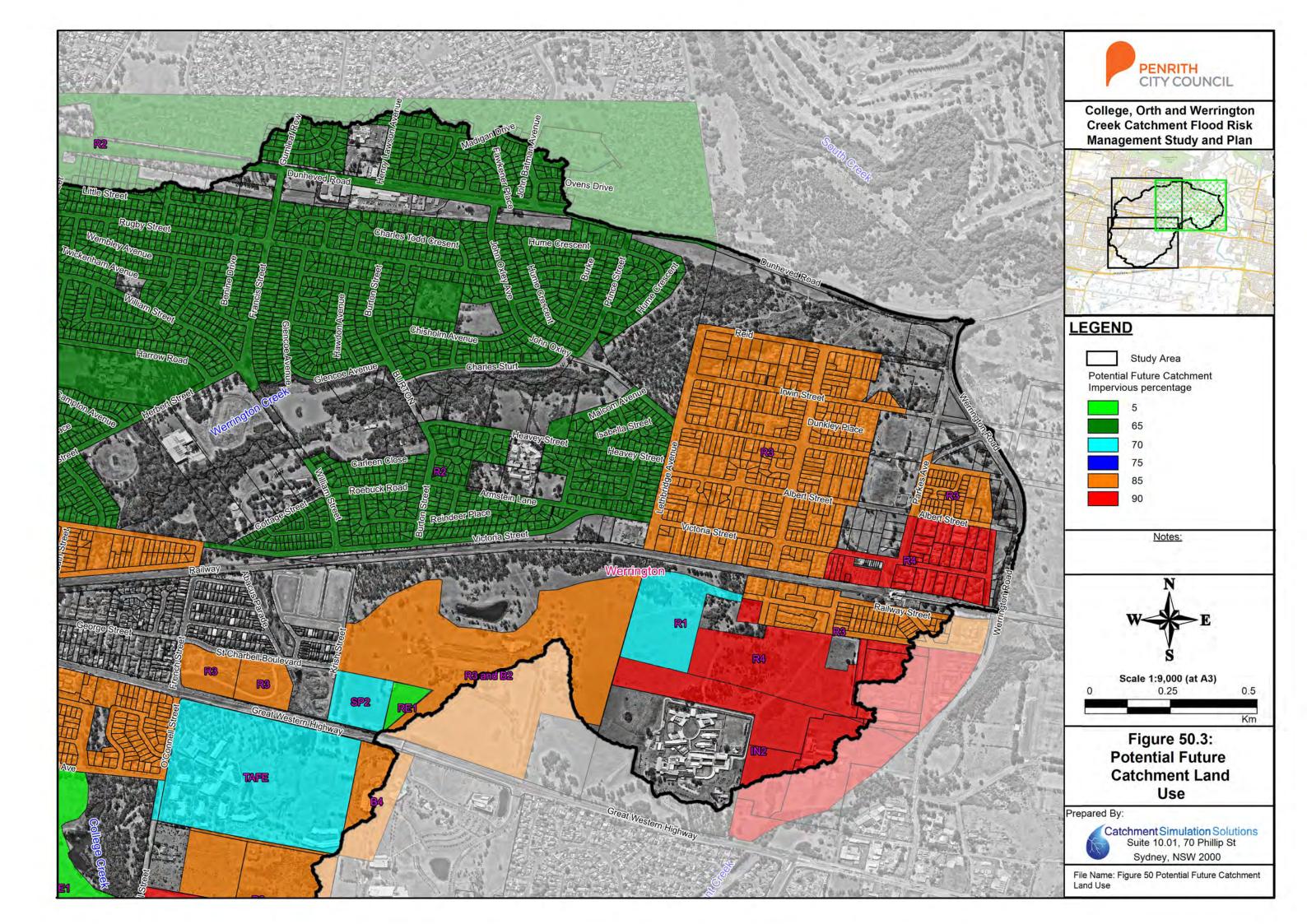


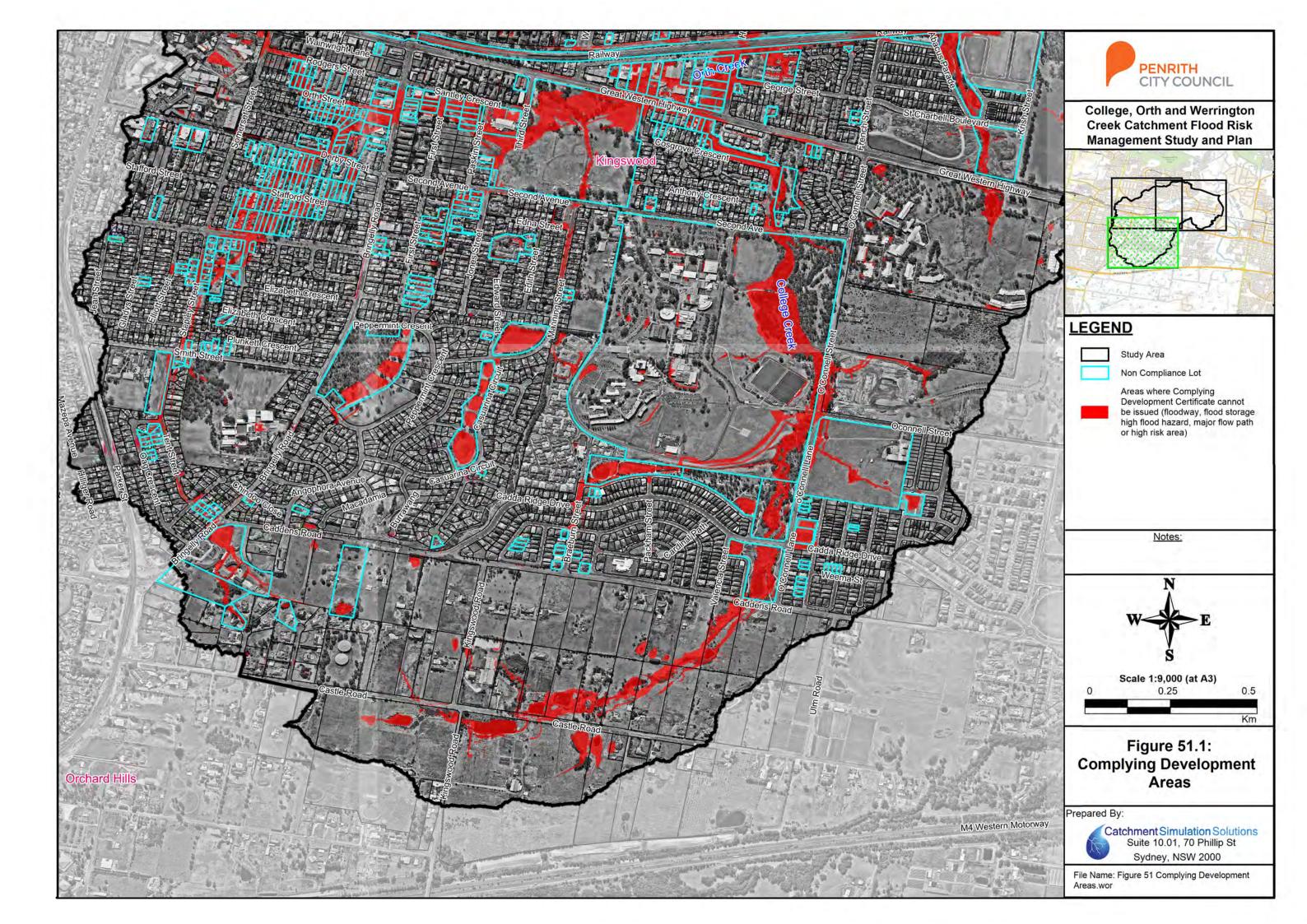


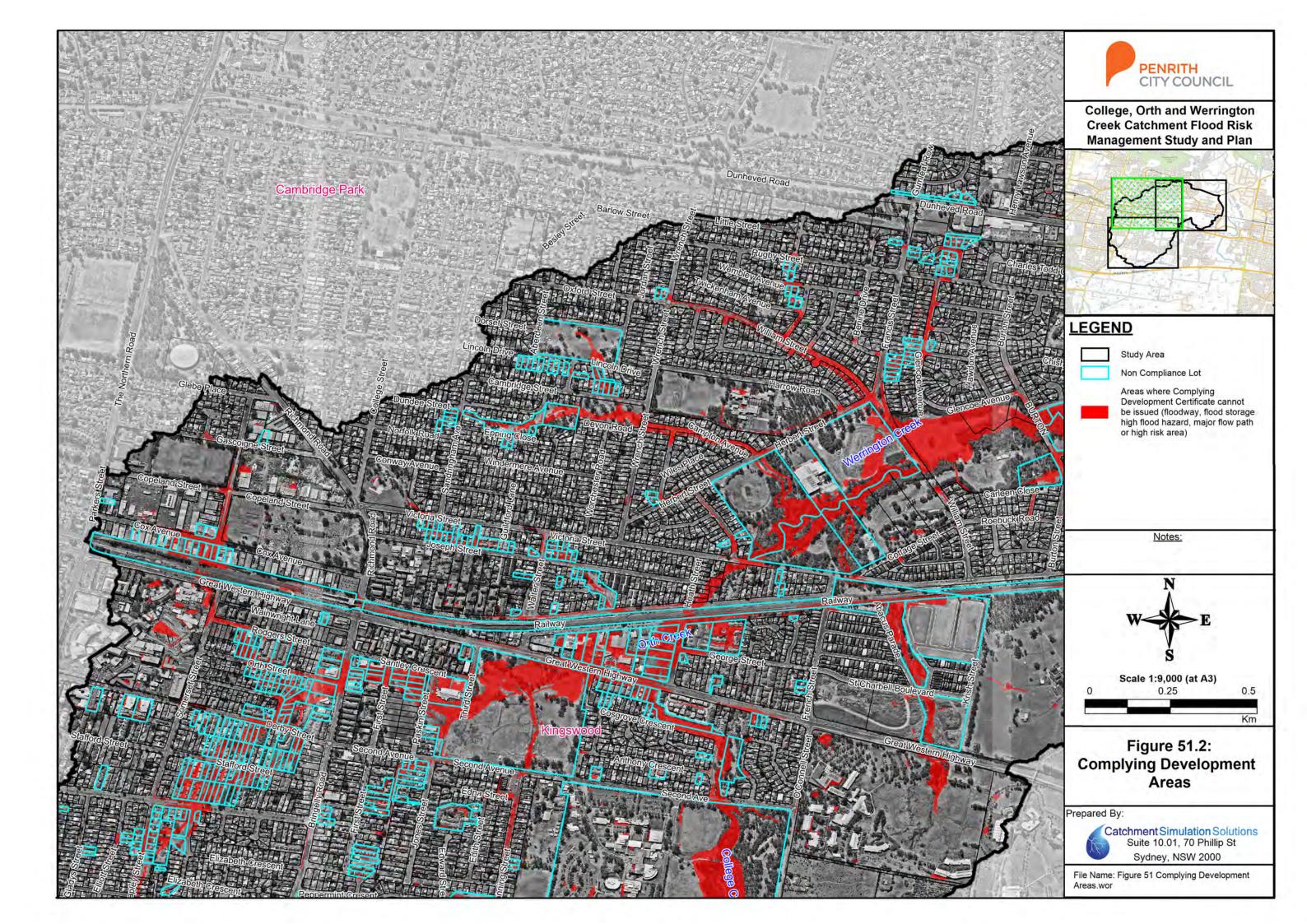


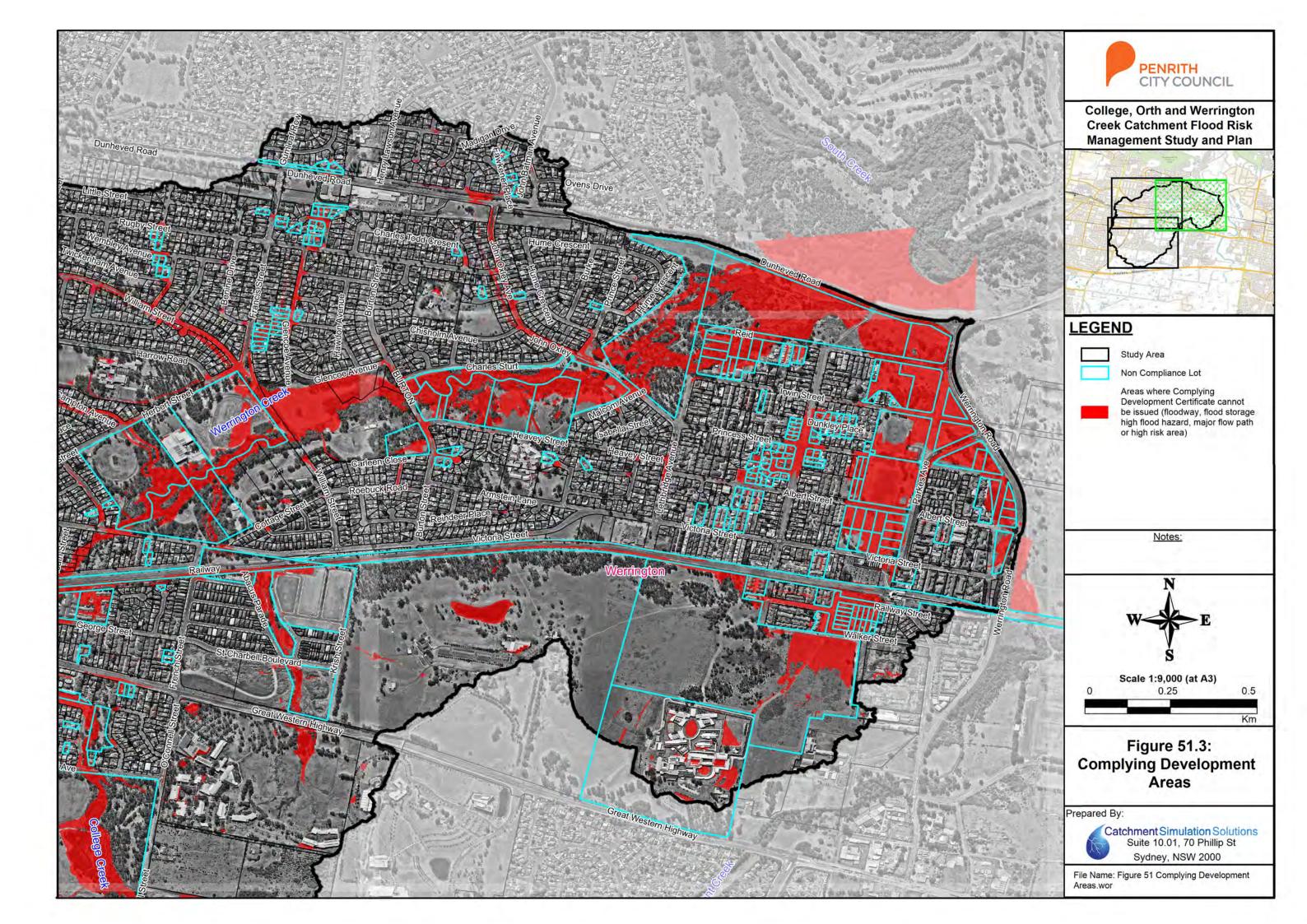


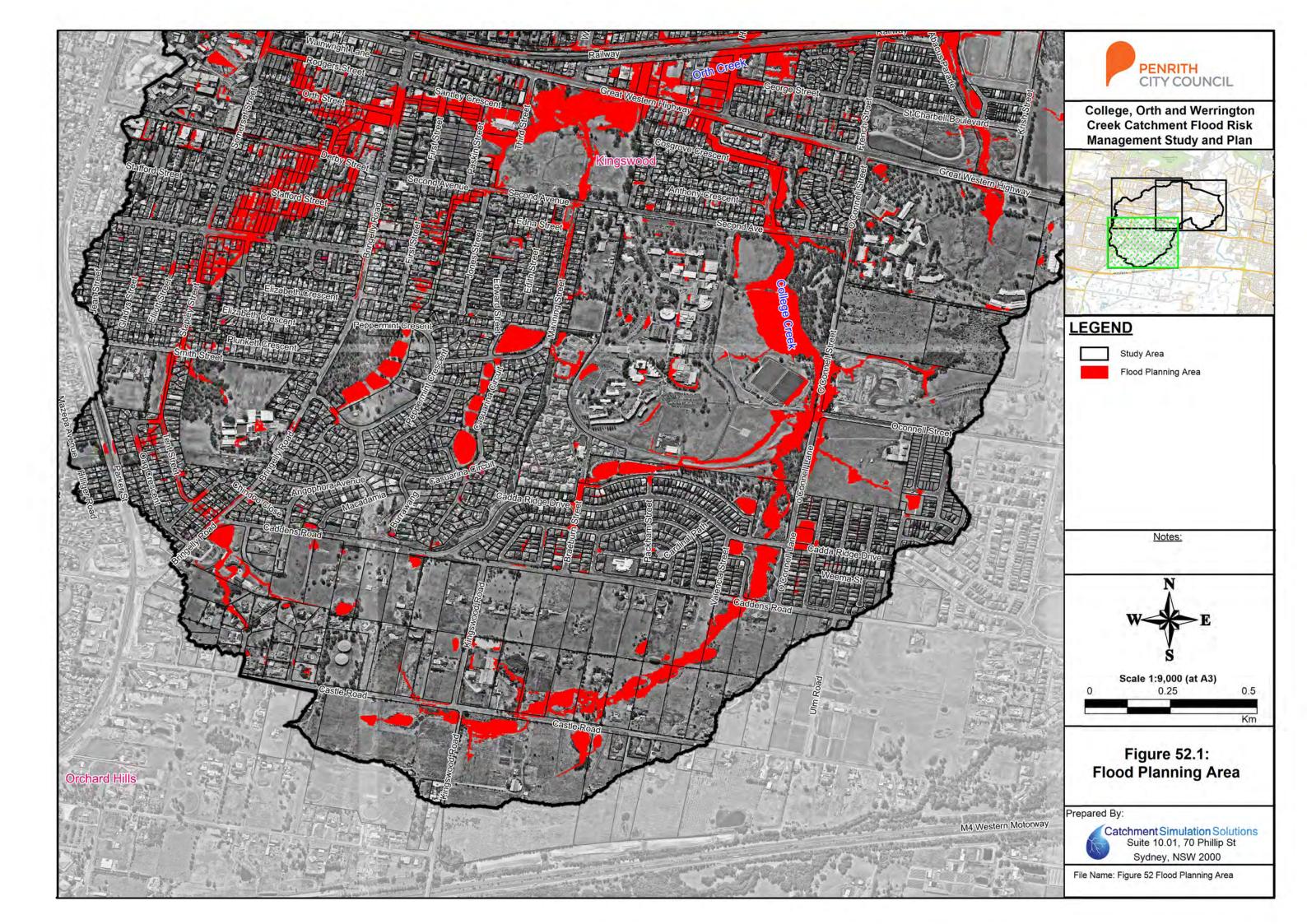


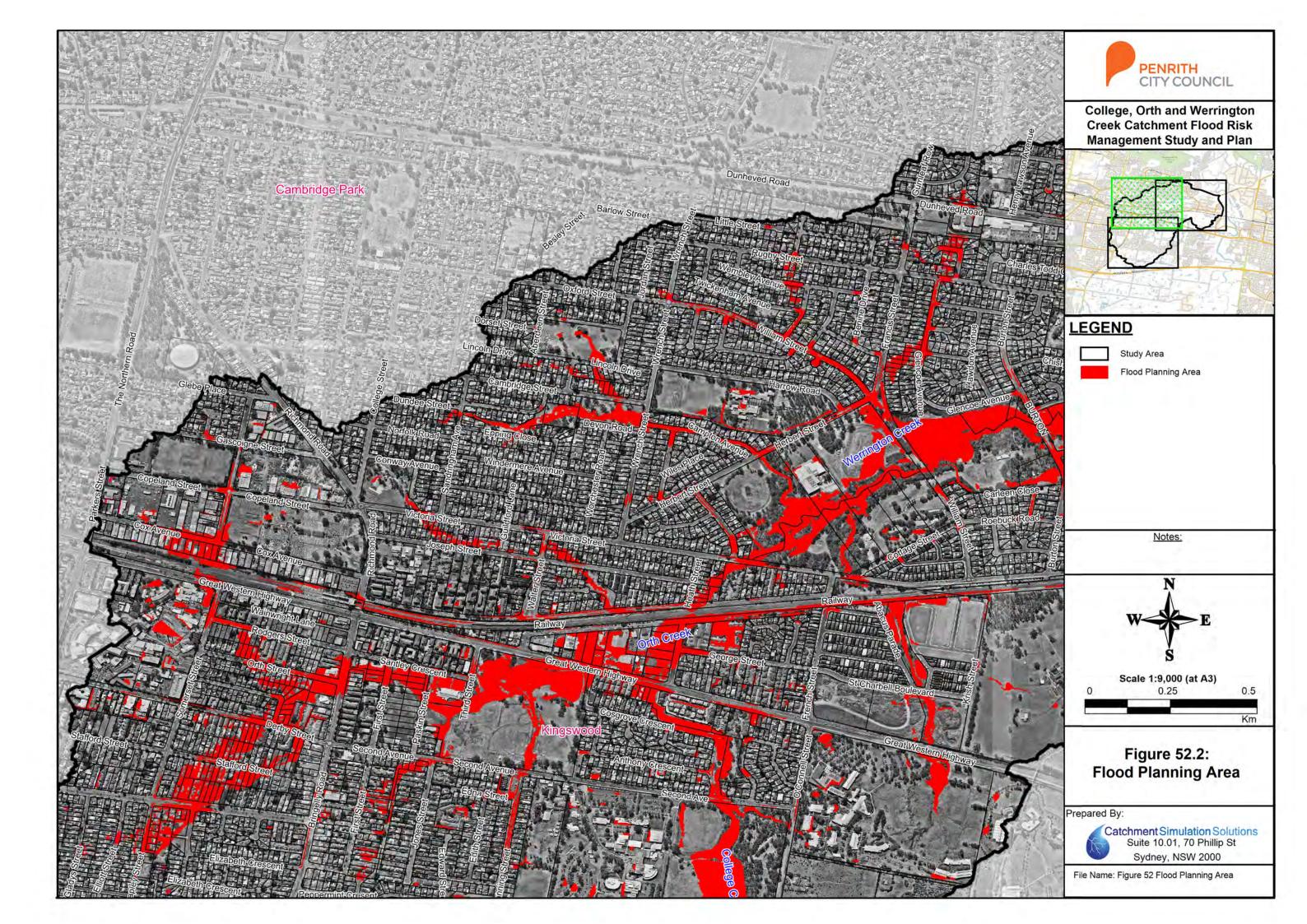


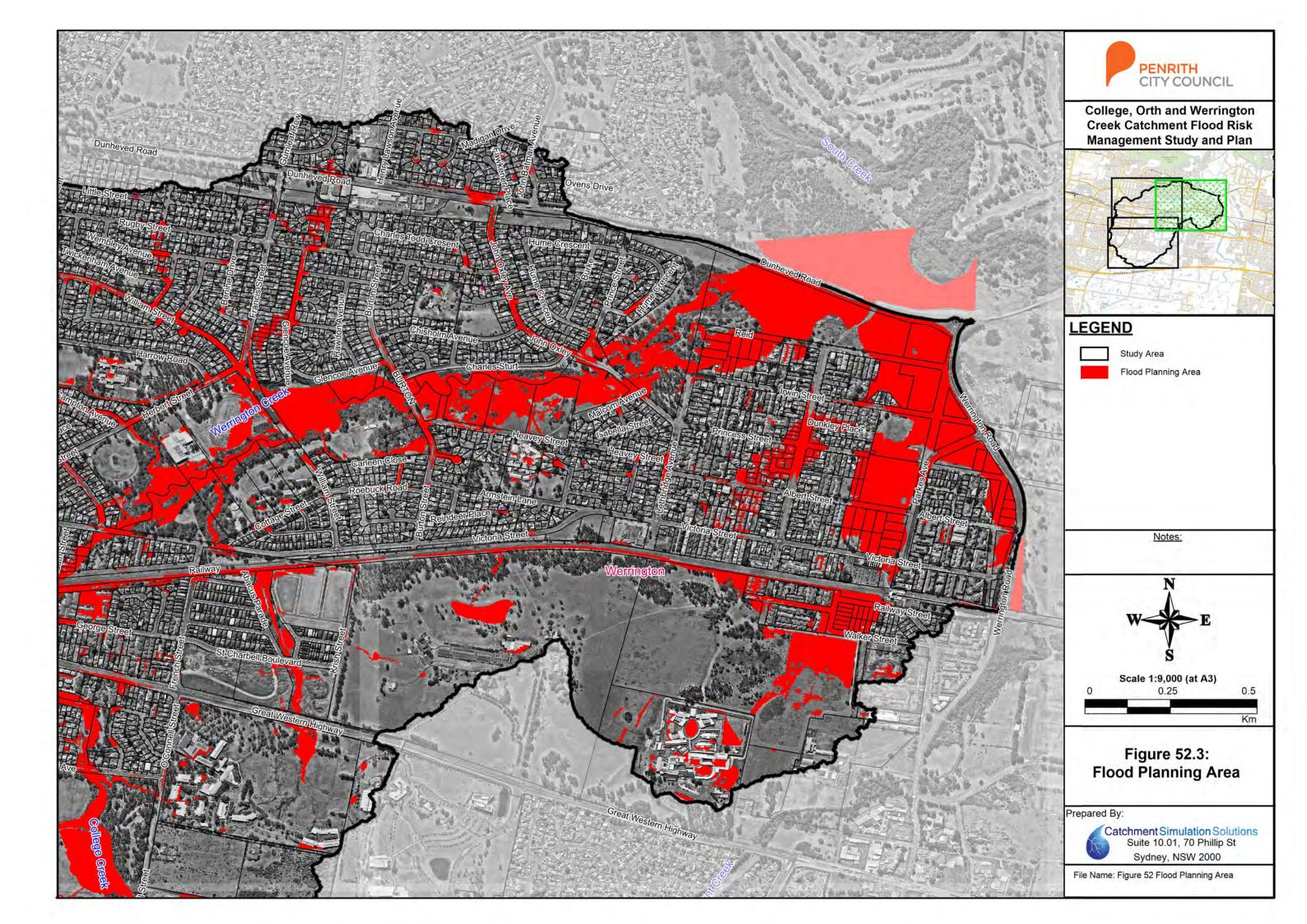


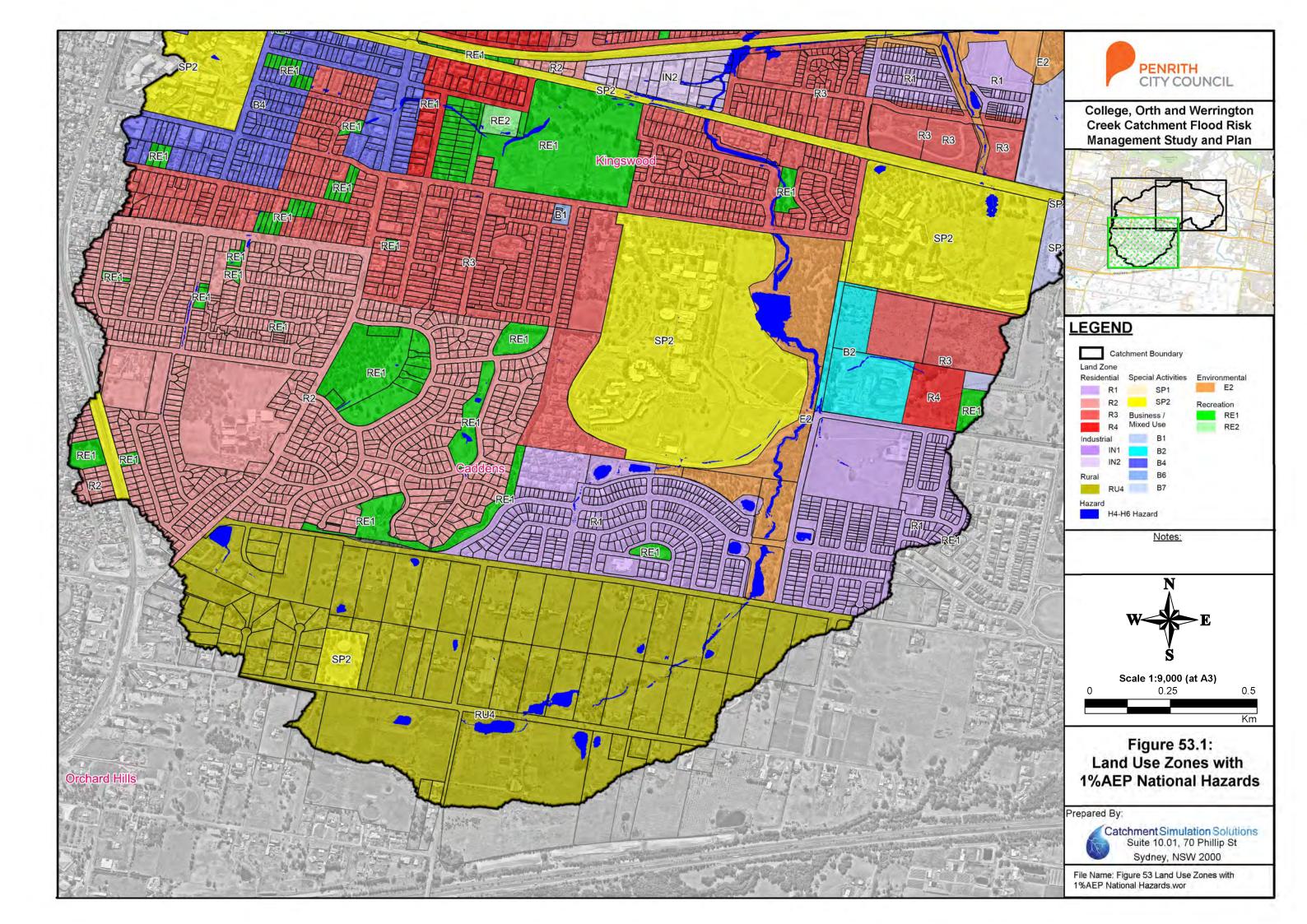


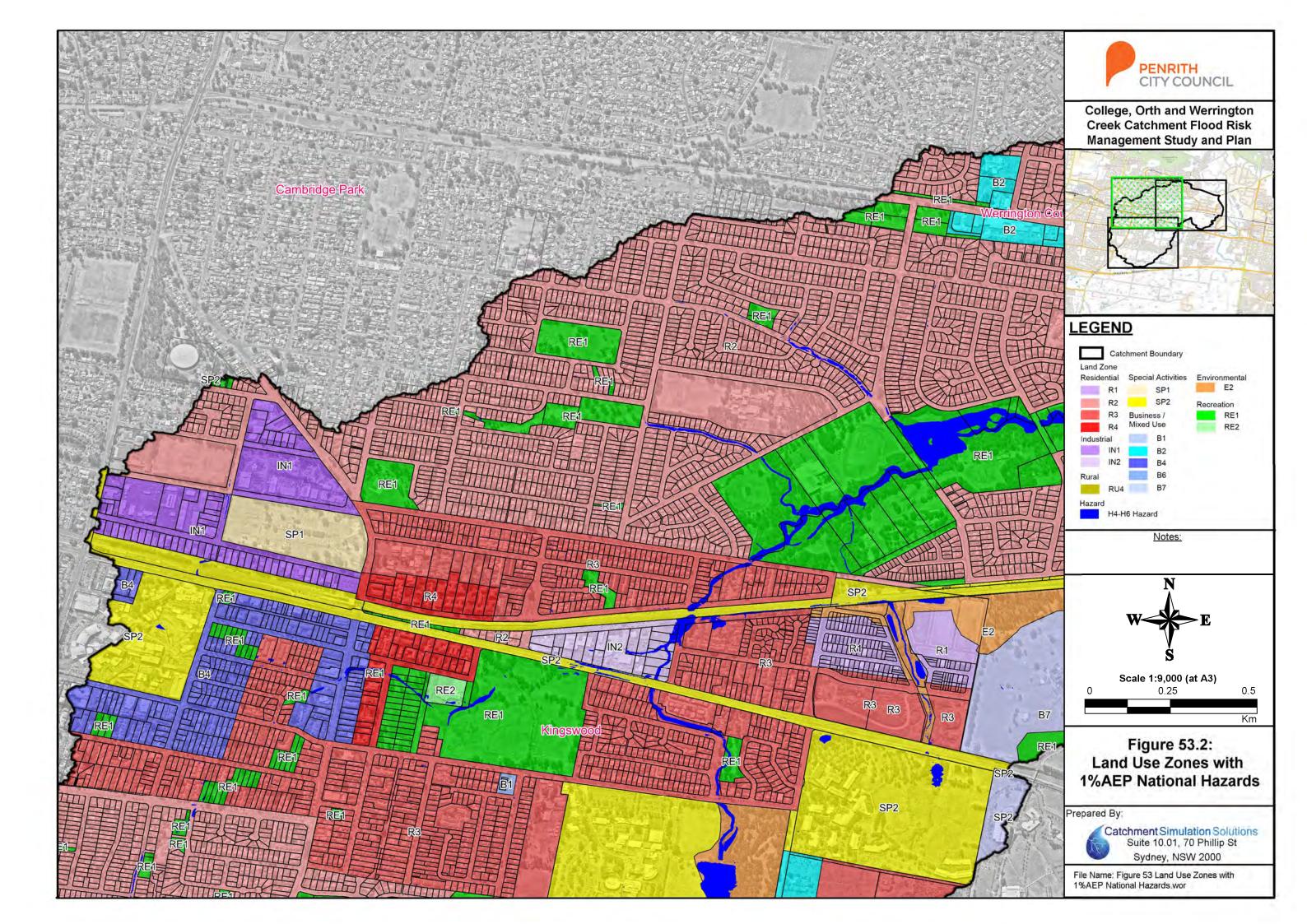


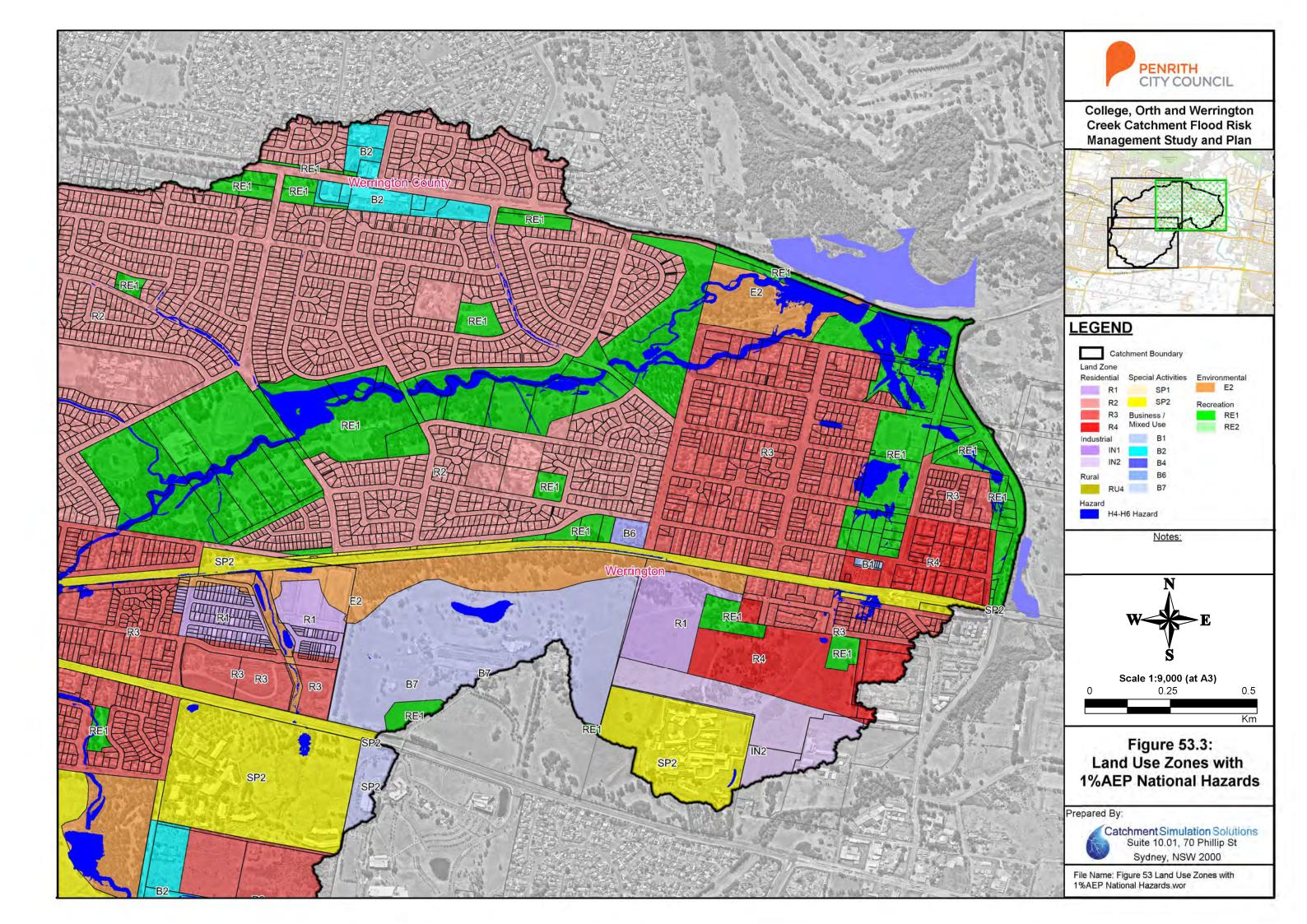


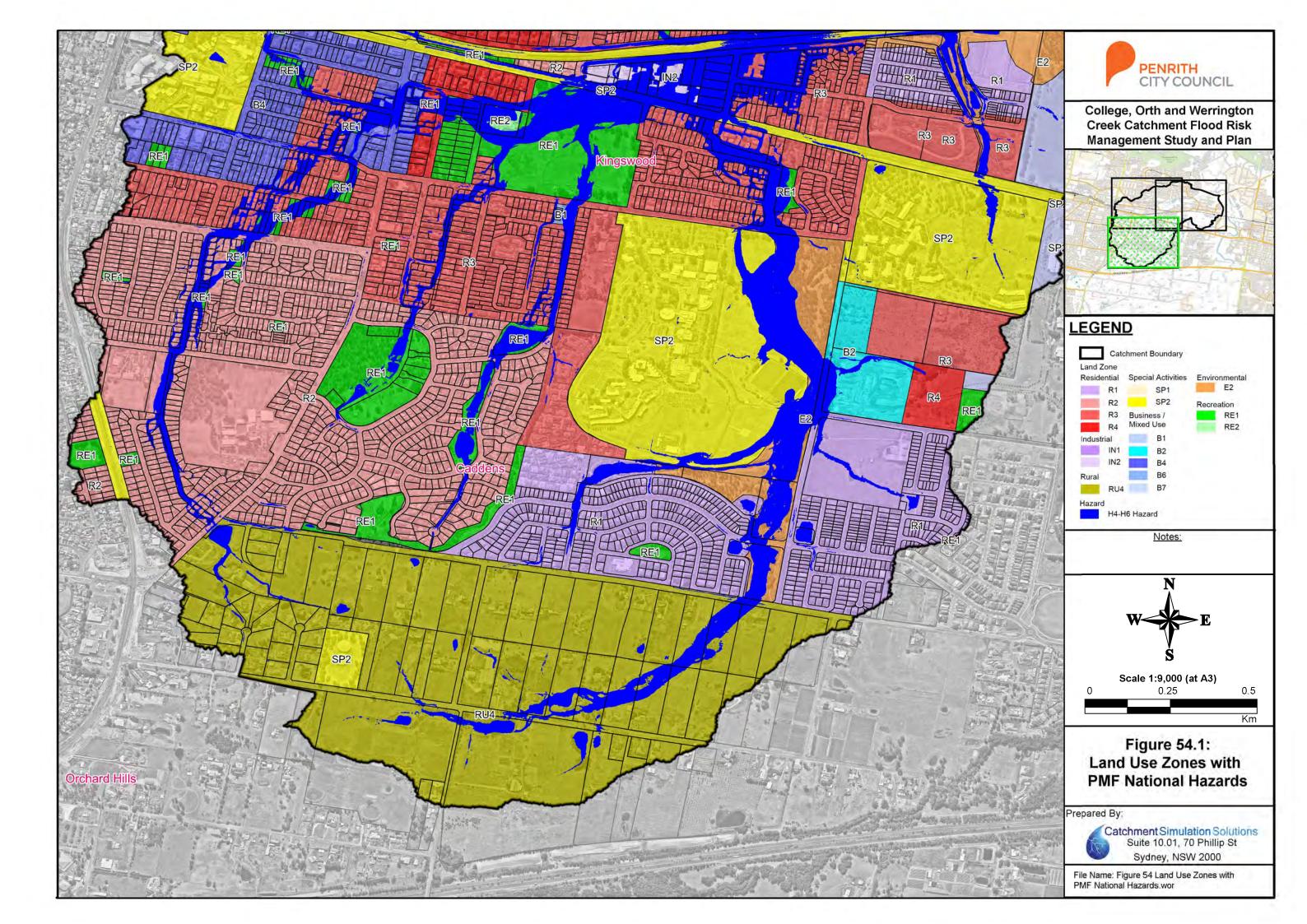


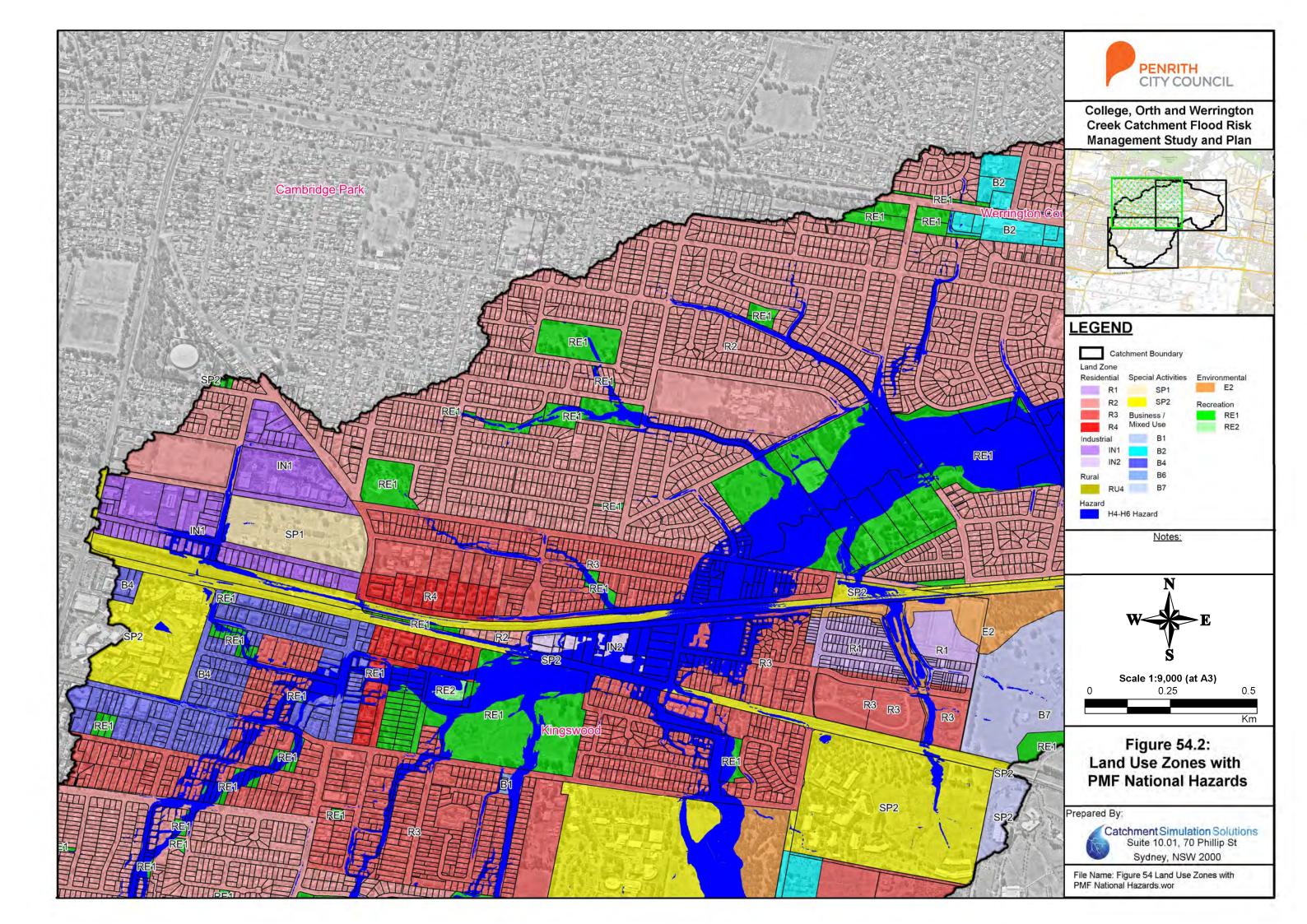


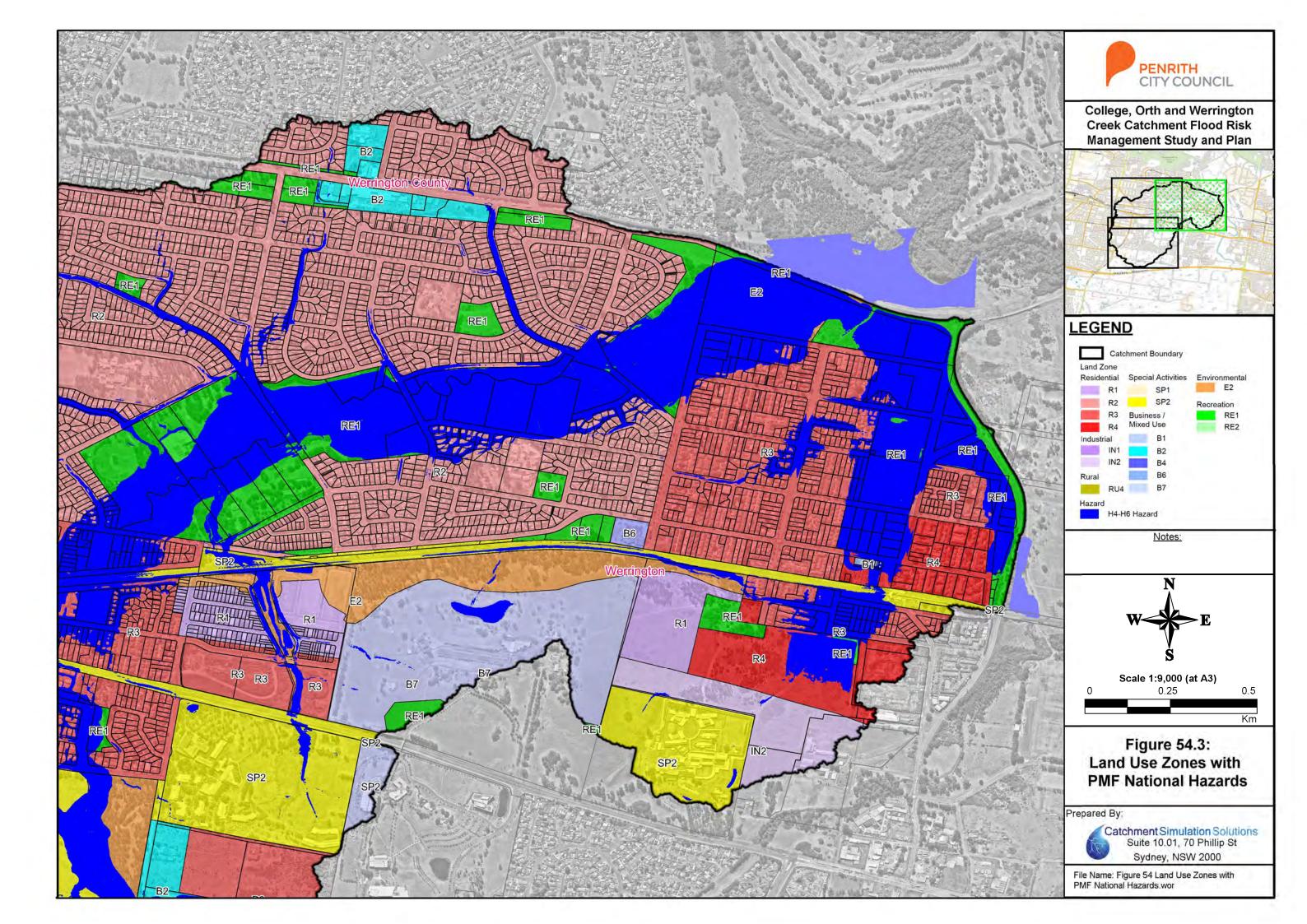


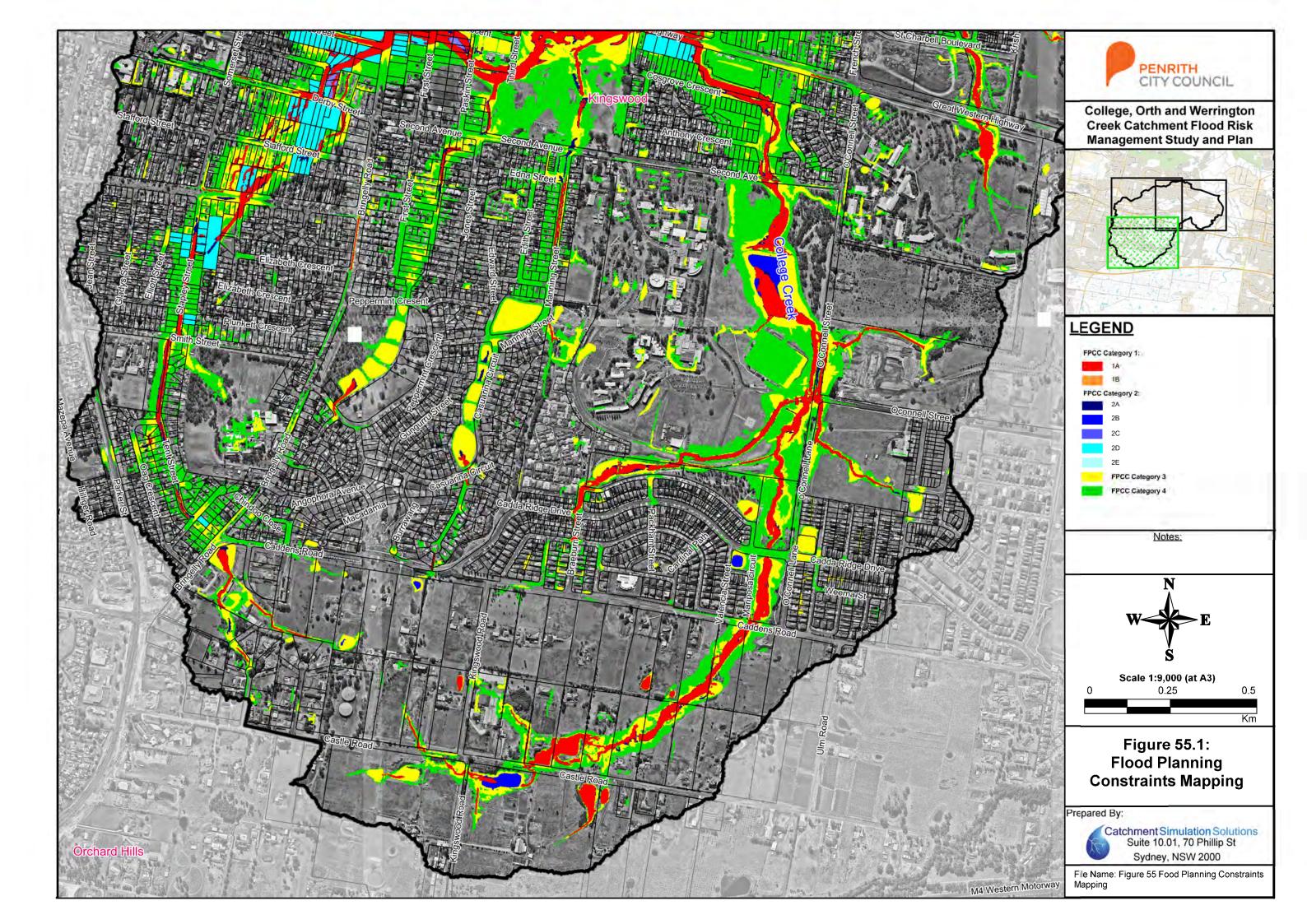


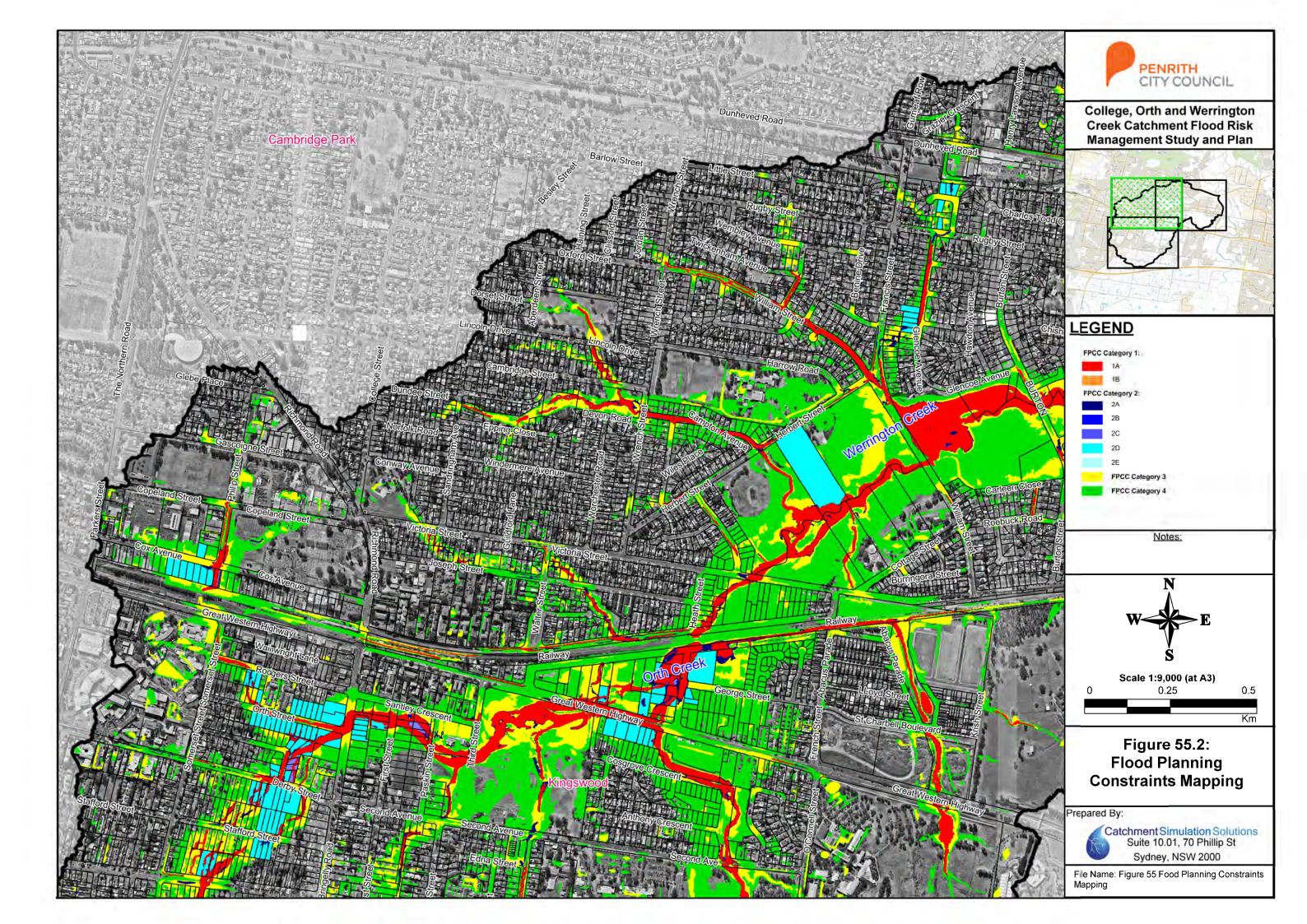


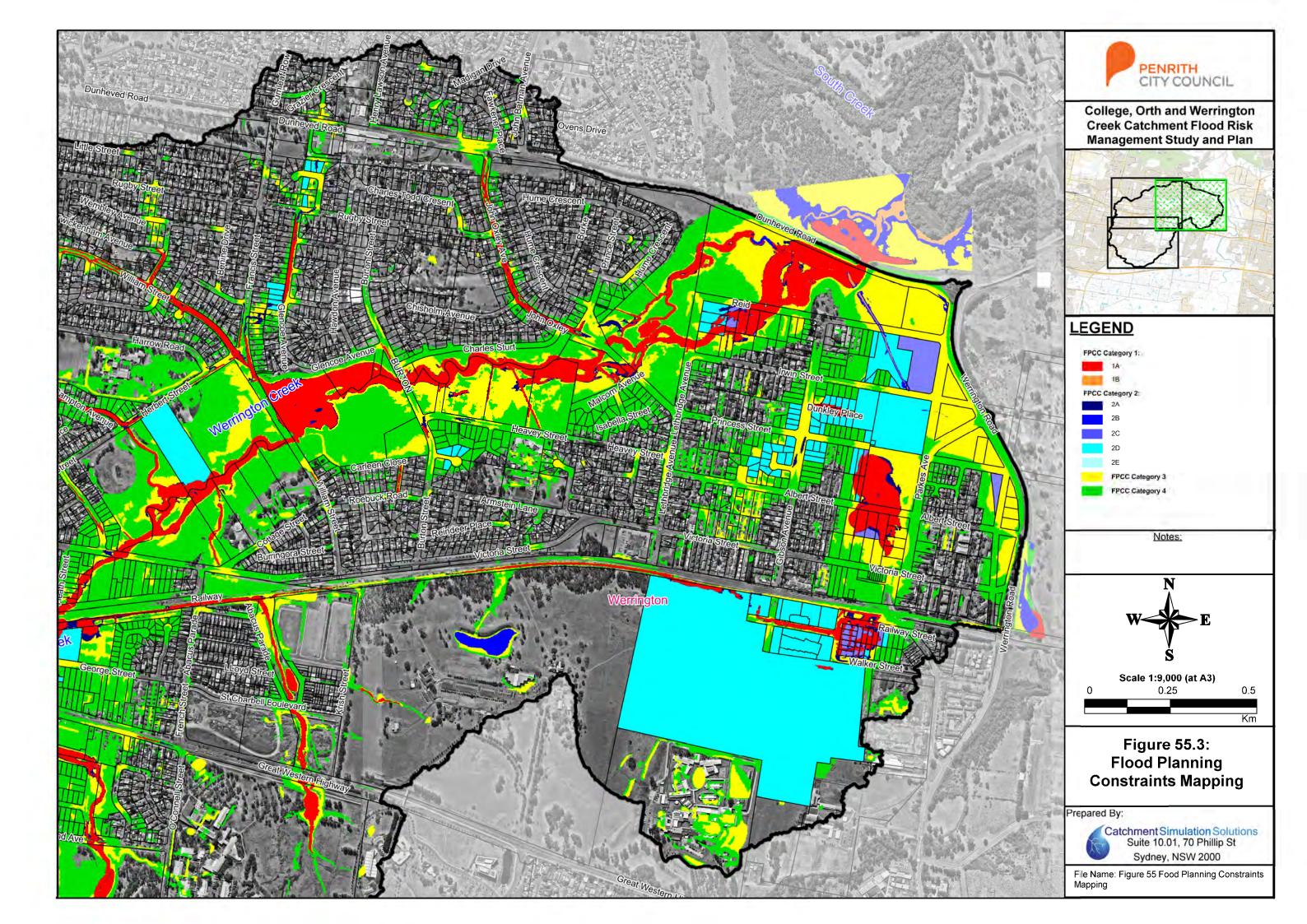


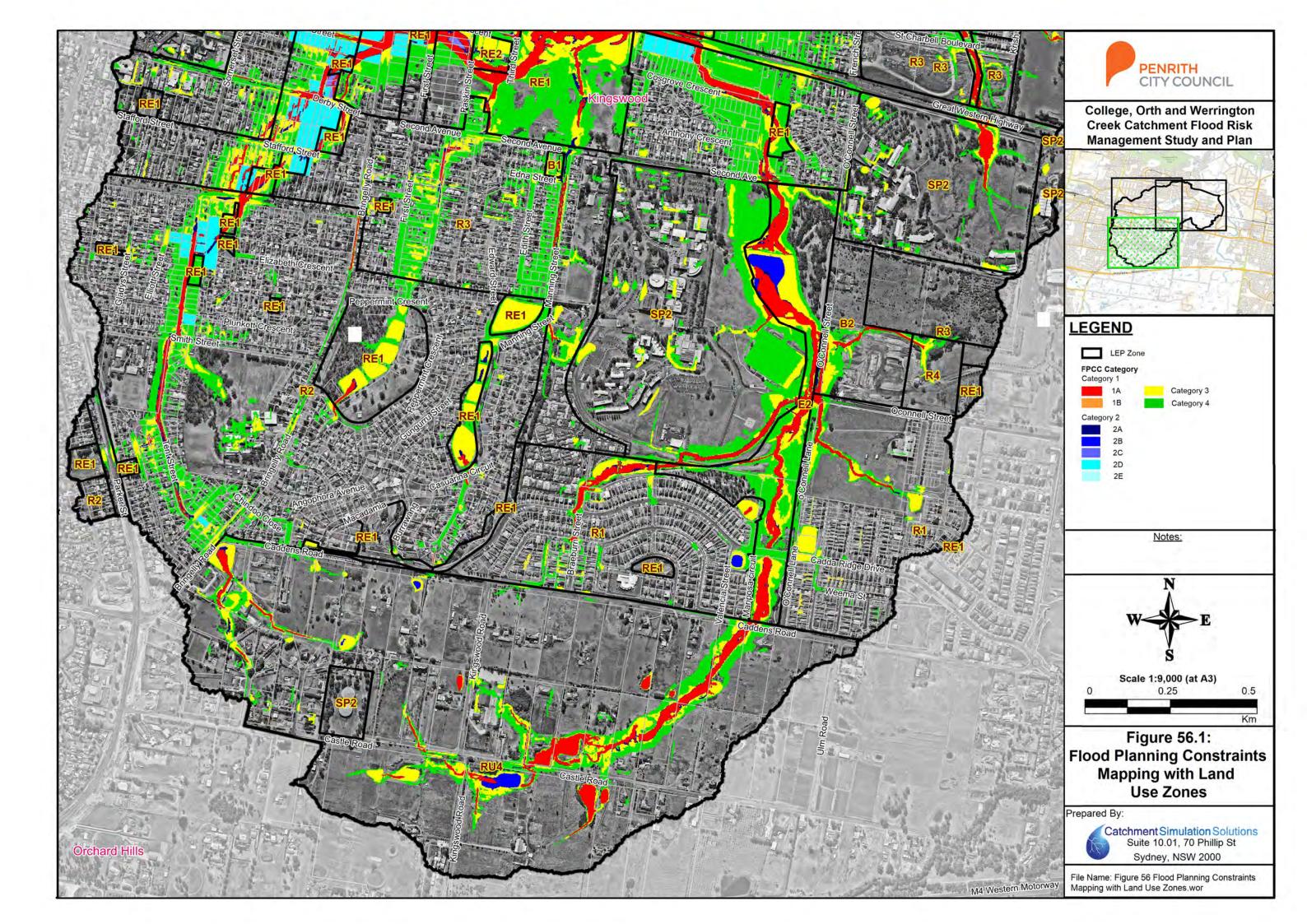


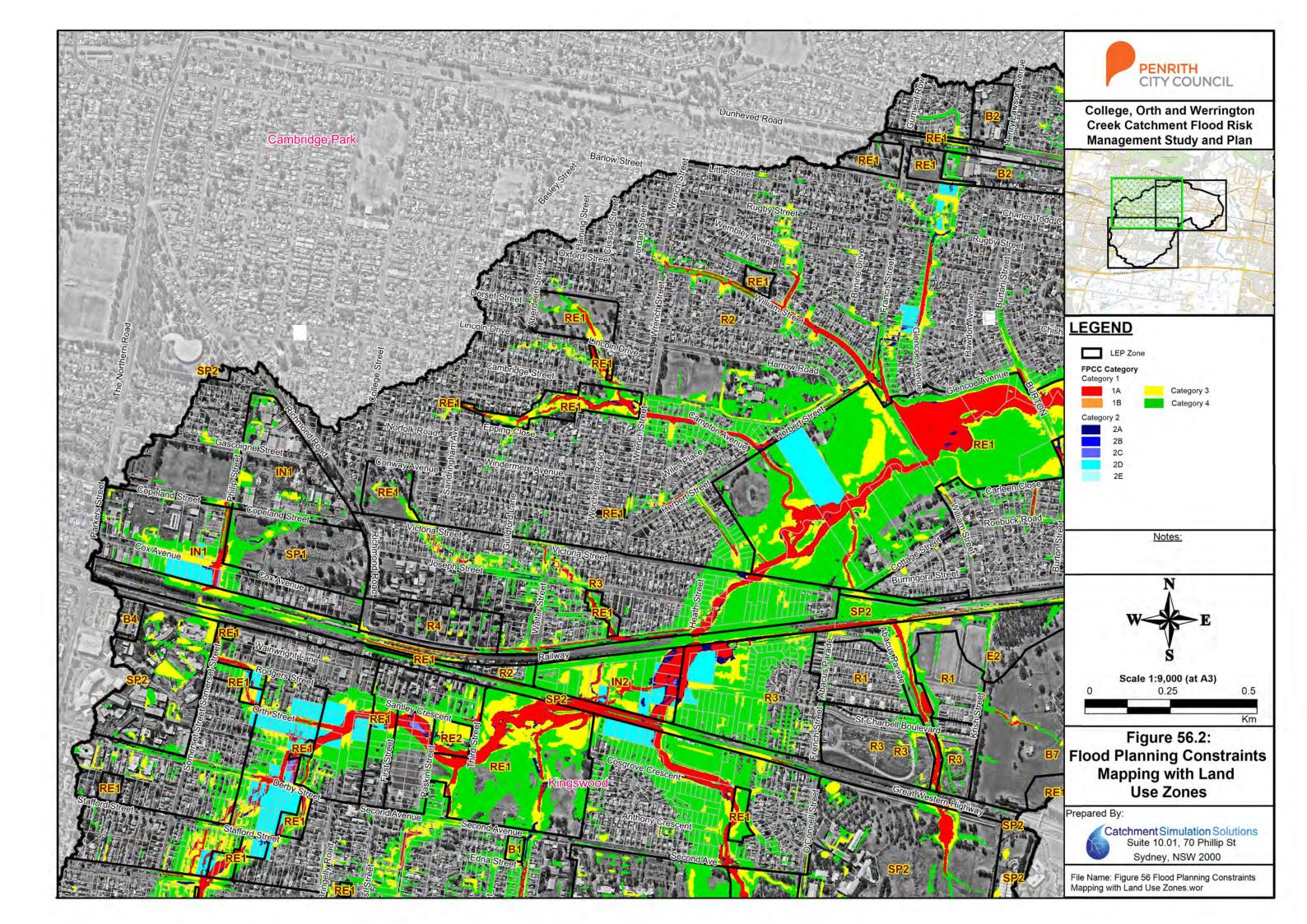


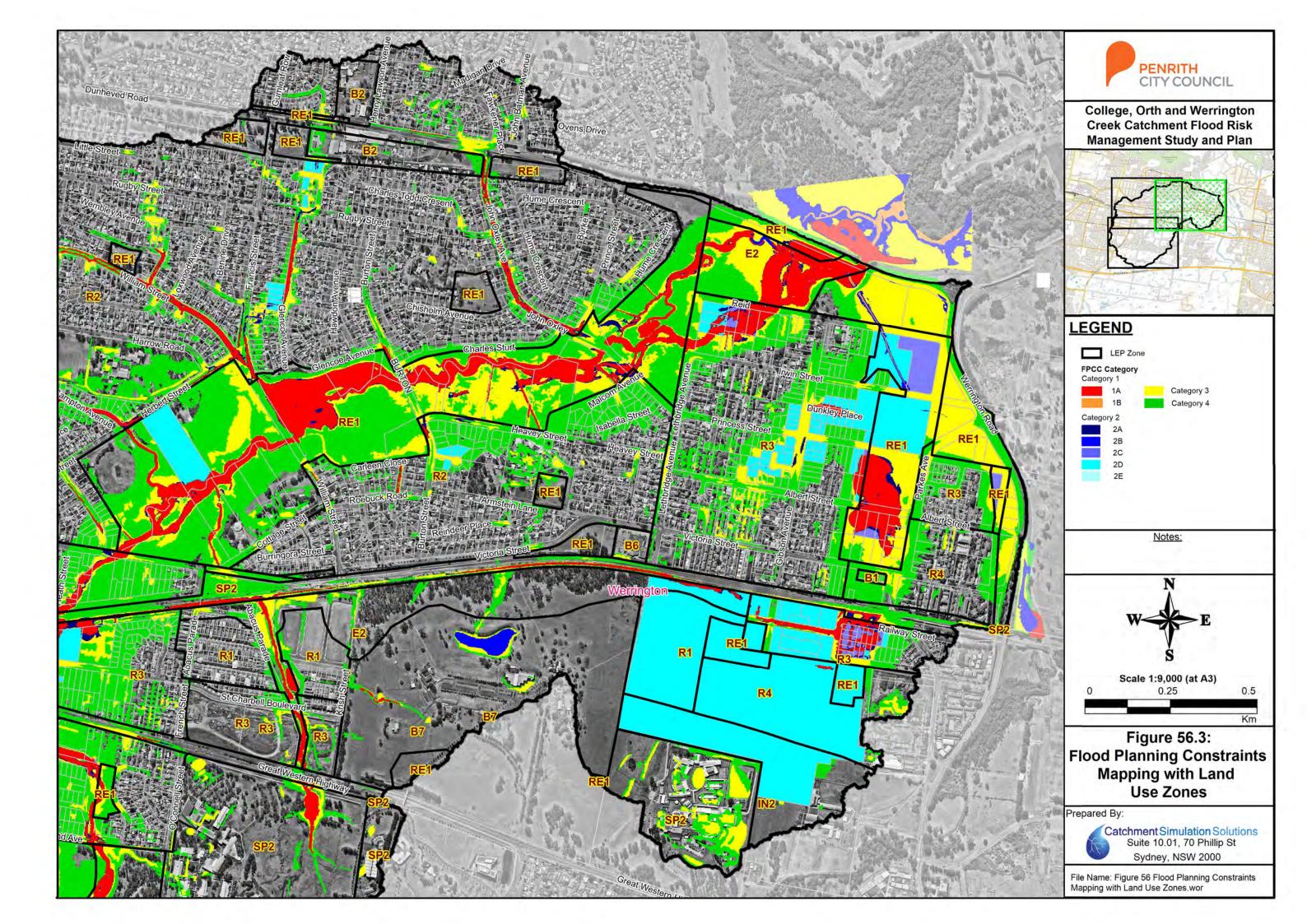












CONCEPT DESIGNS FOR FLOOD RISK MANAGEMENT OPTIONS

