

College, Orth and Werrington Creeks Catchment Floodplain Risk Management Study

Final Report Volume 2 of 2: Figures

October 2021

Note: Adopted by Penrith City Council in its Ordinary Meeting on 21 February 2022

Catchment Simulation Solutions



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College, Orth and Werrington Creeks Catchment

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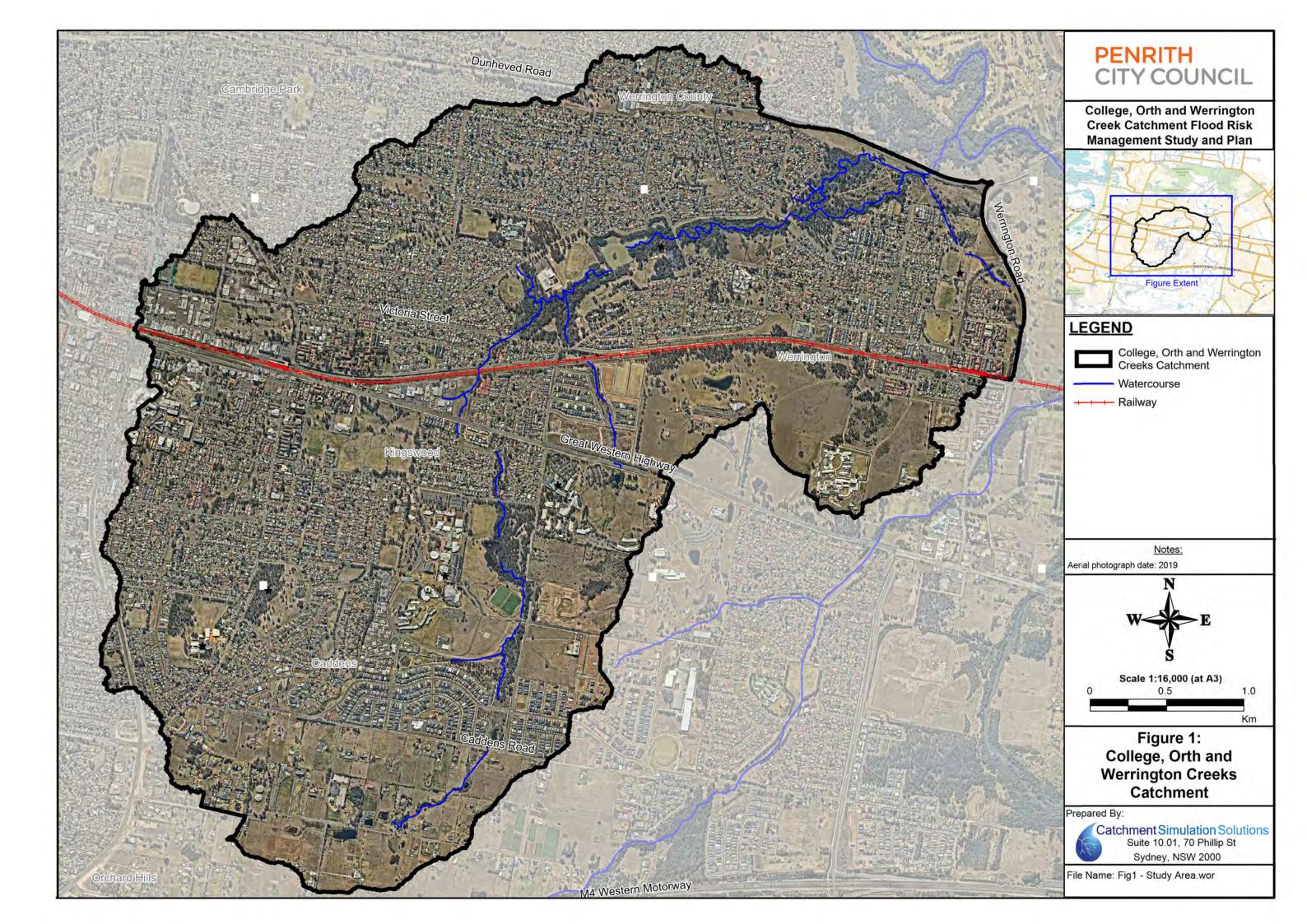
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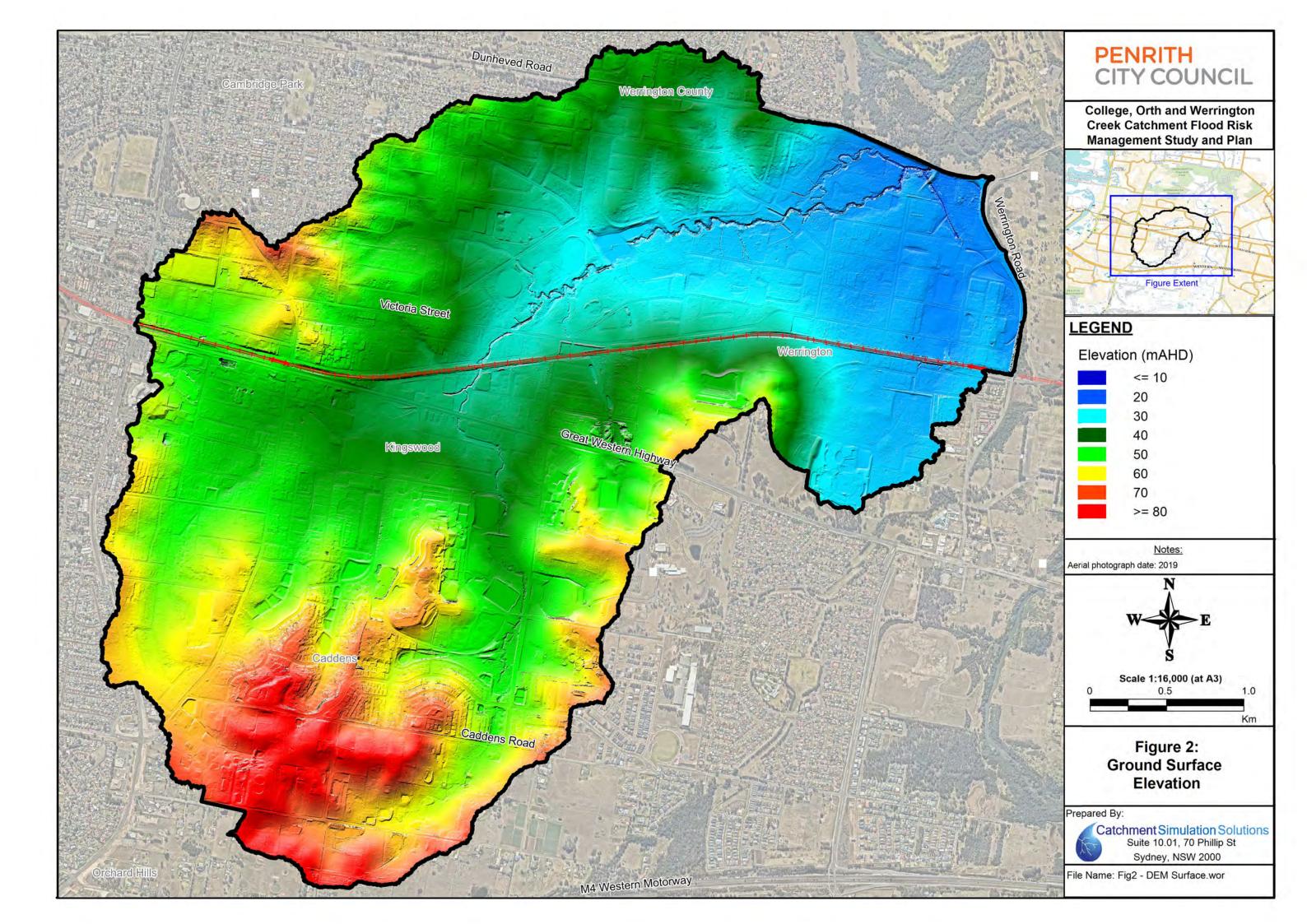
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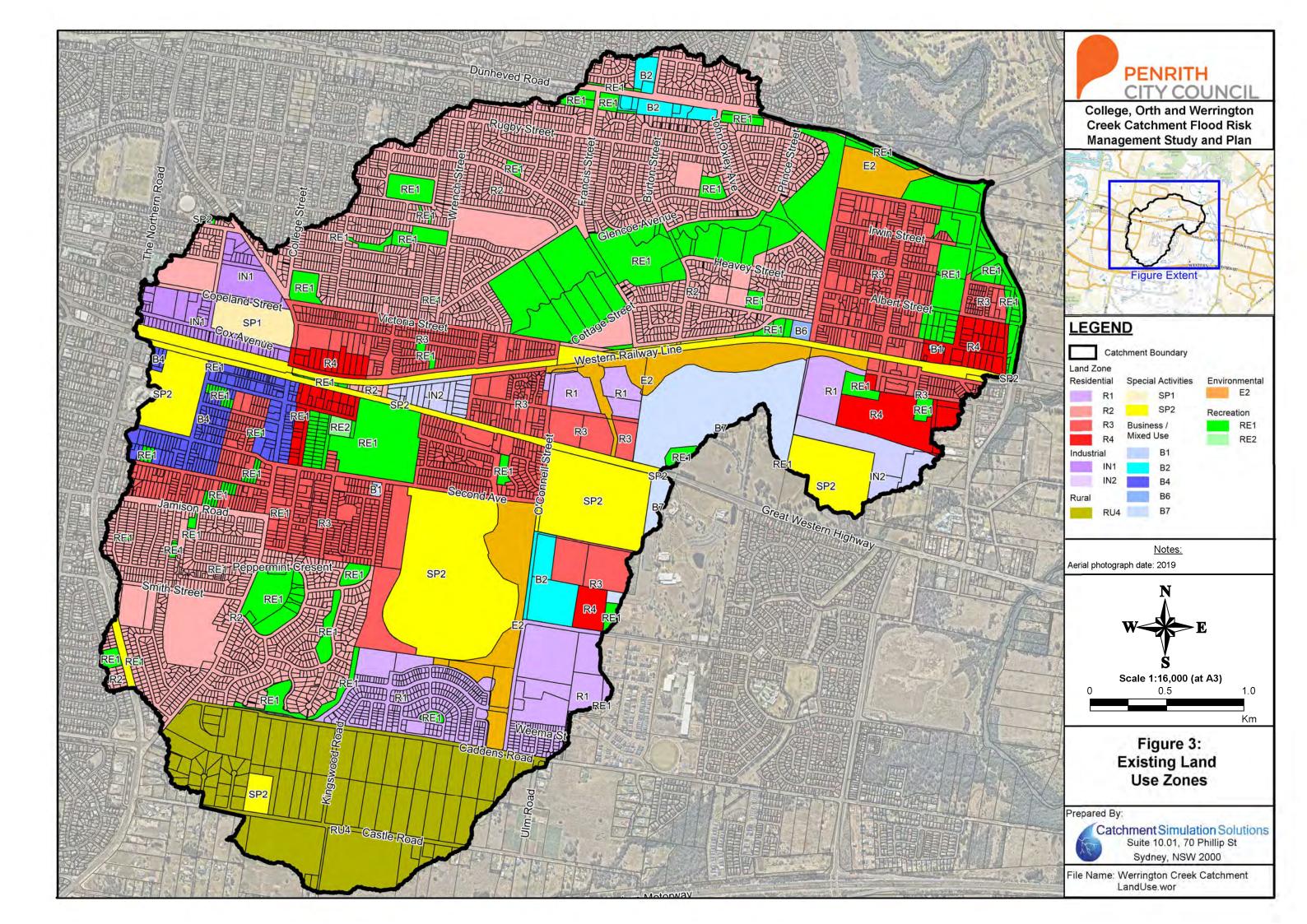
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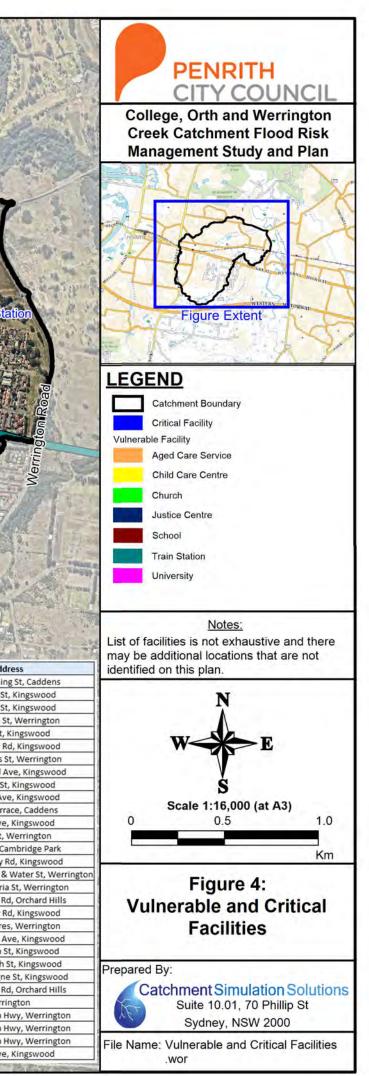
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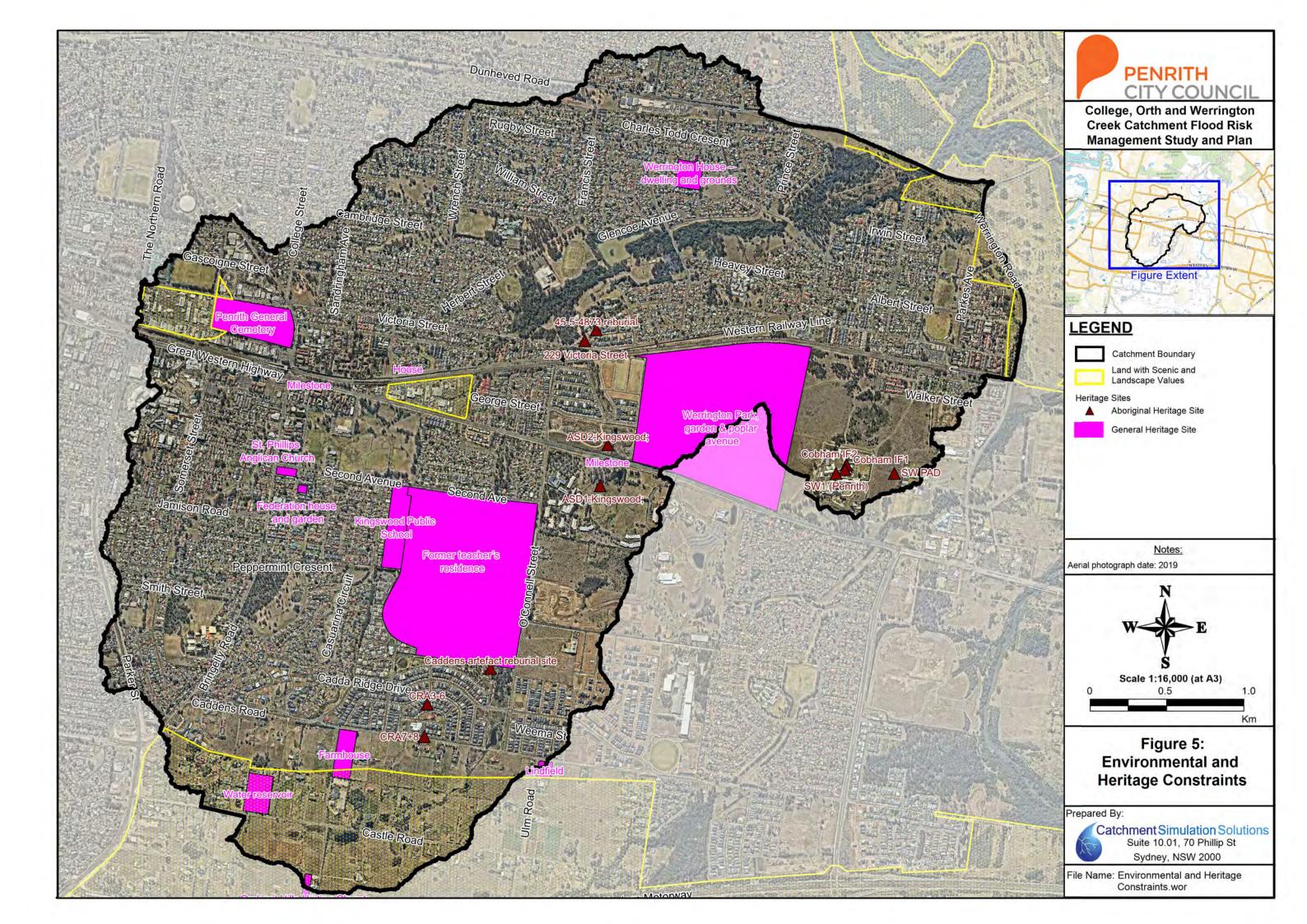


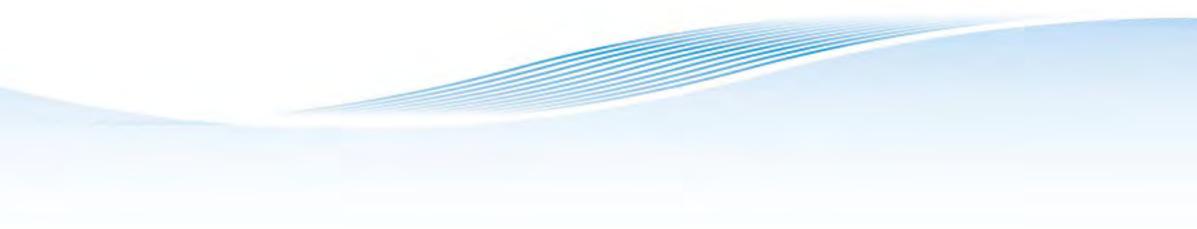




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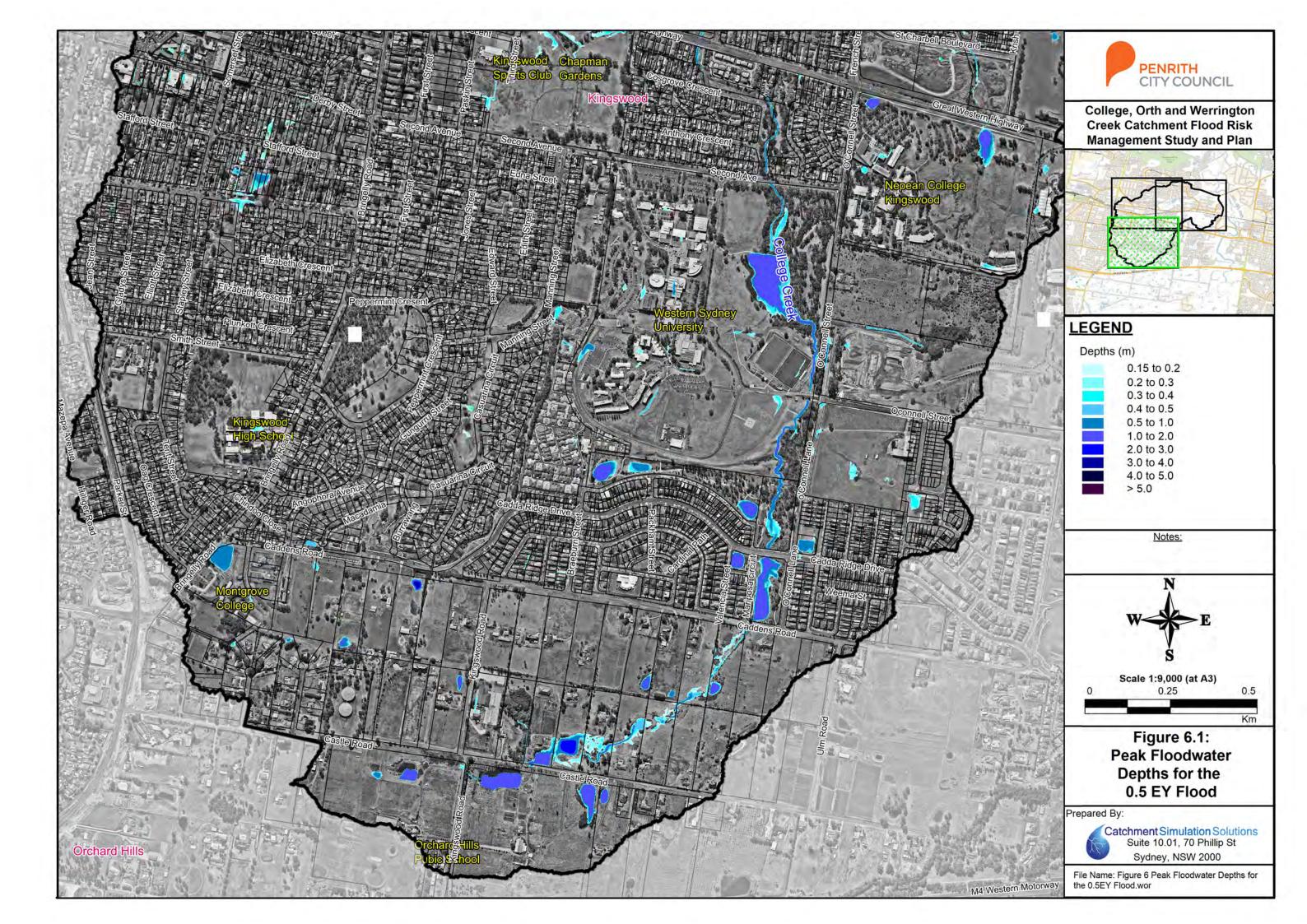


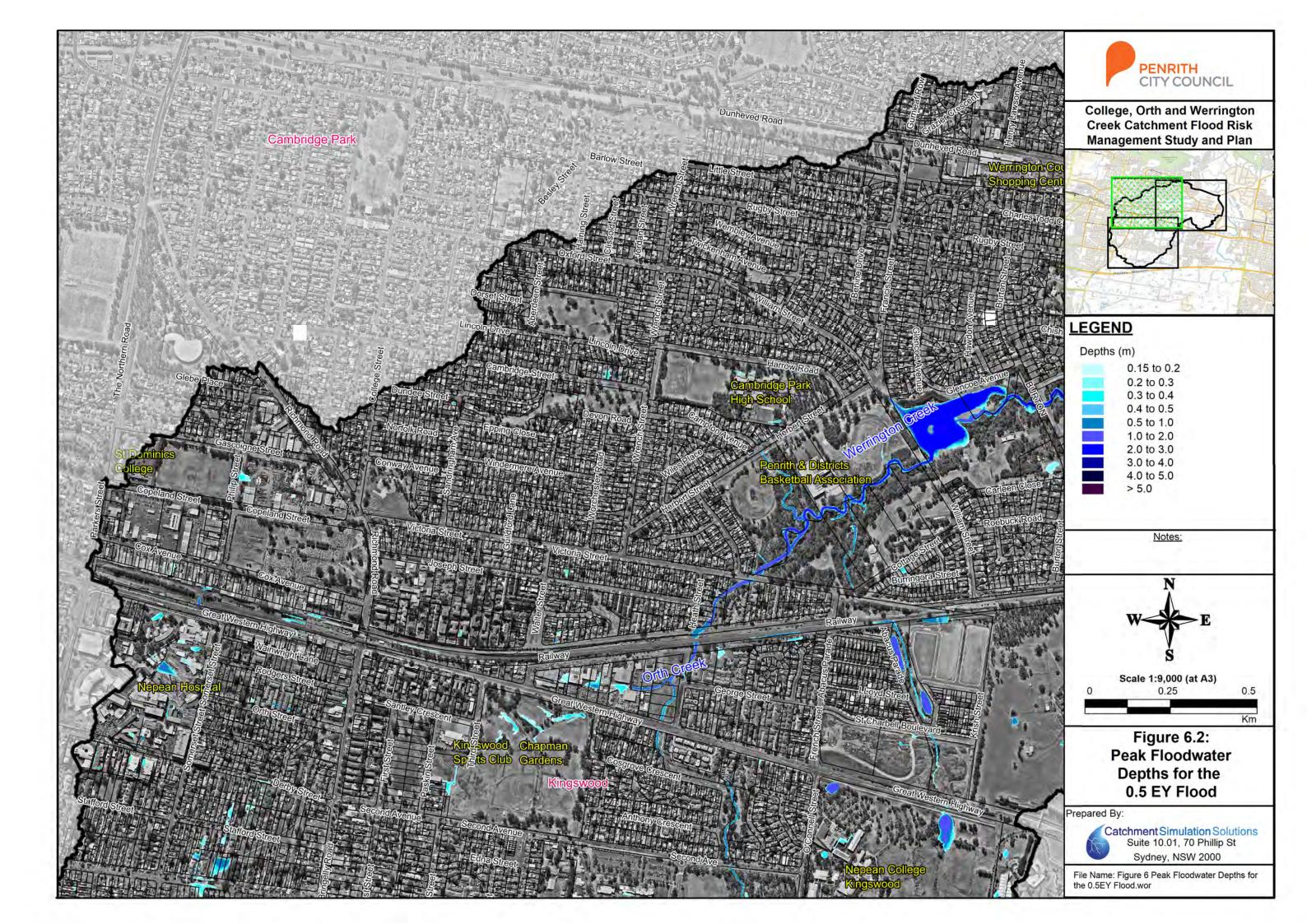


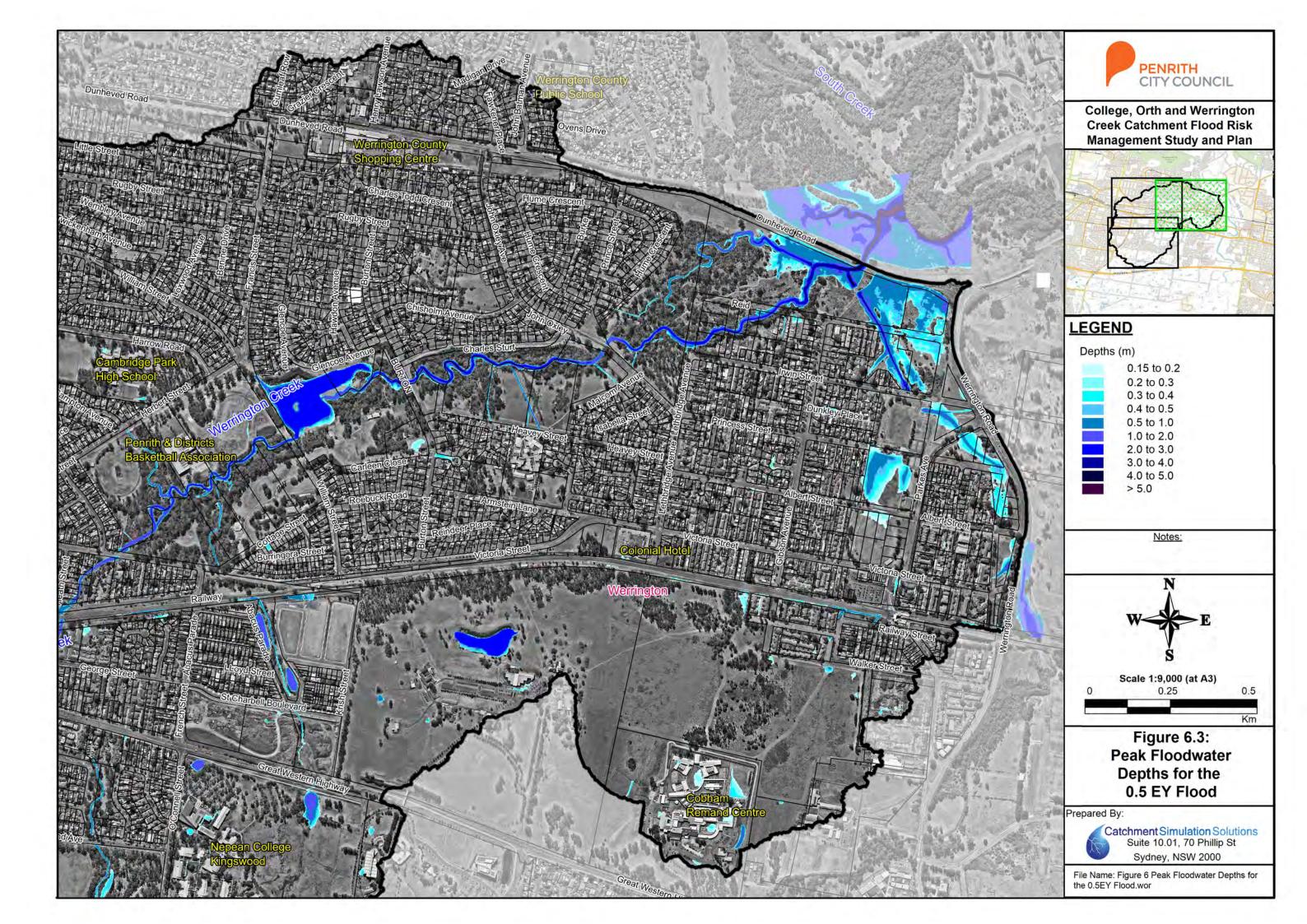


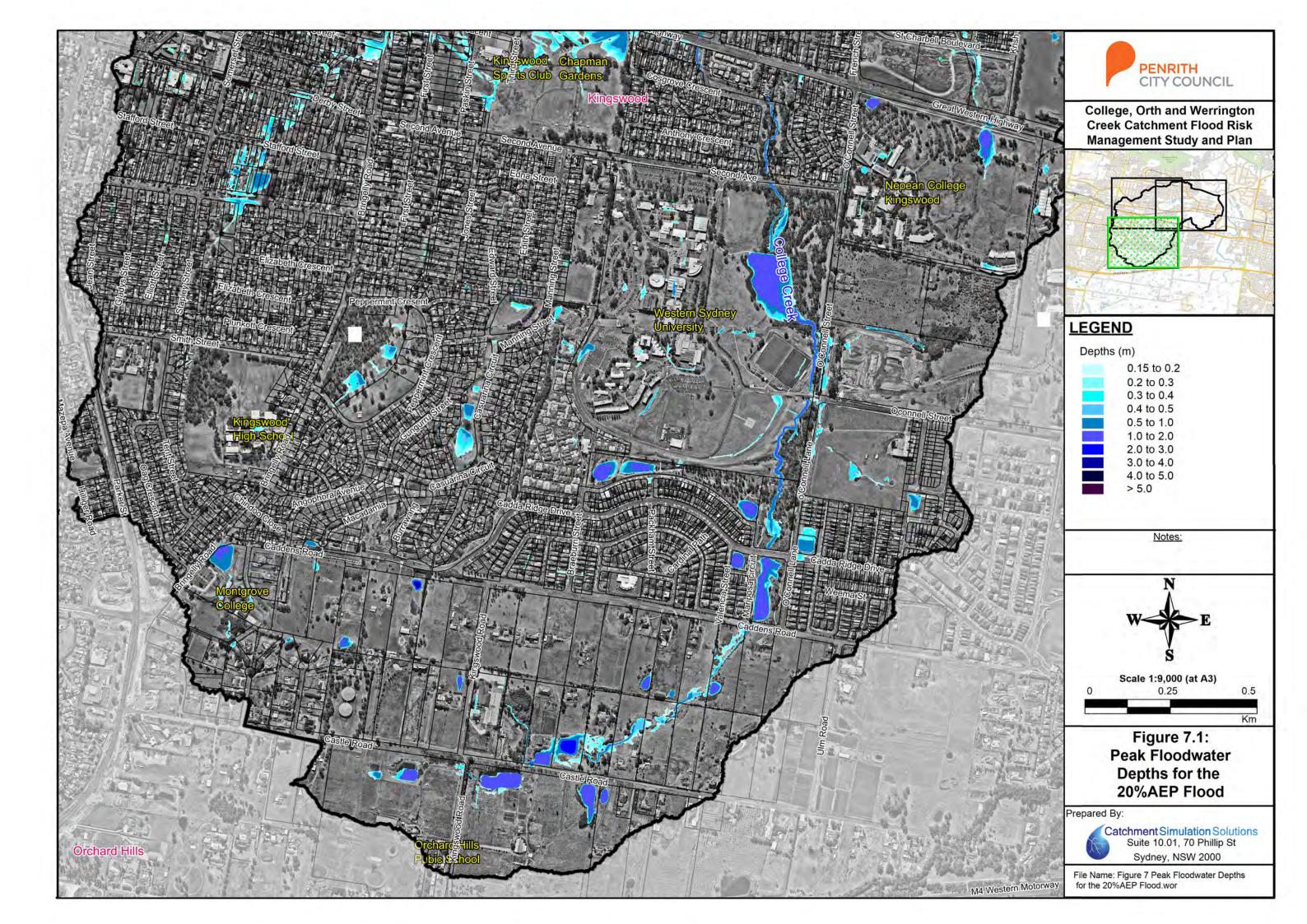
FLOODWATER DEPTH MAPS

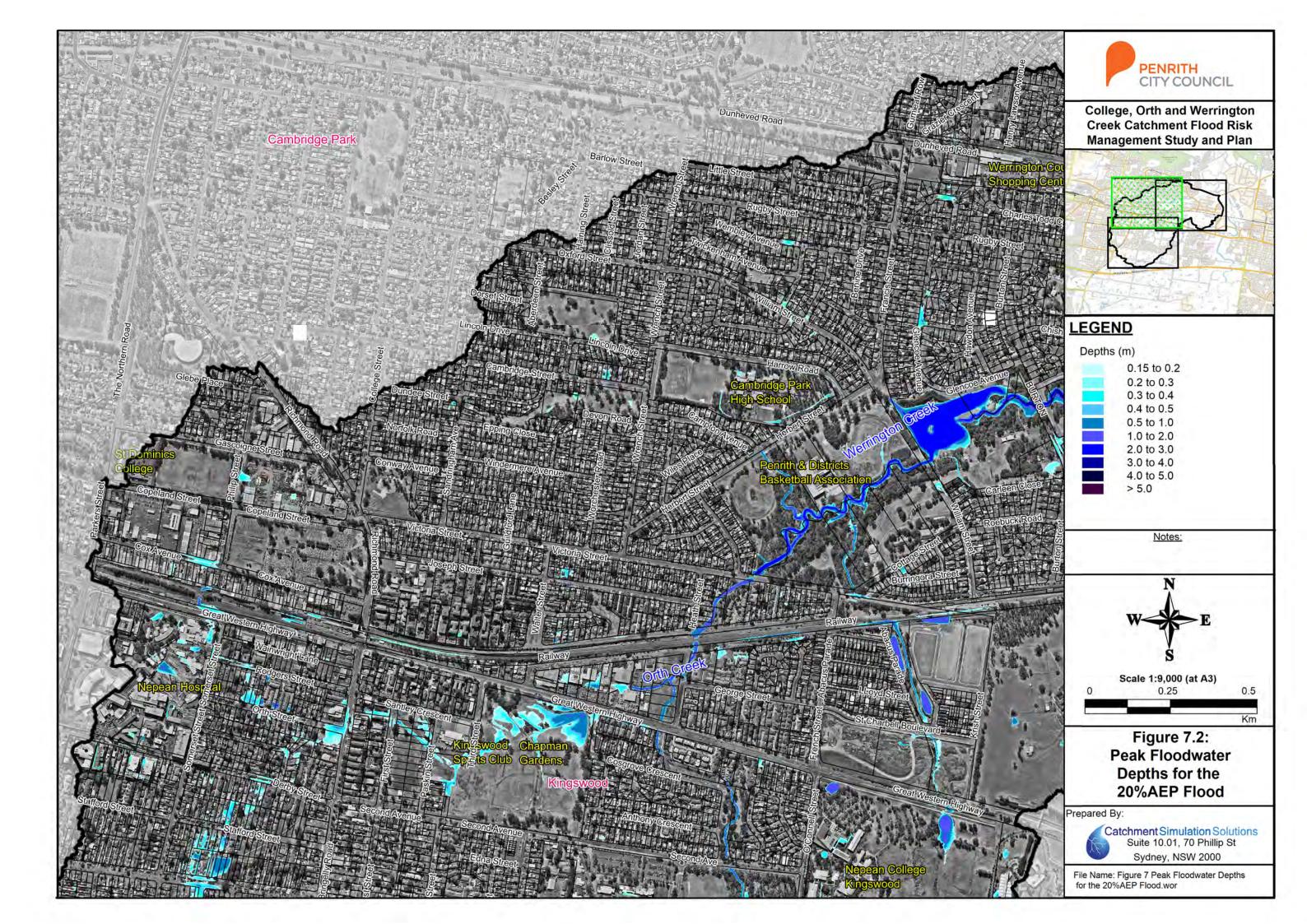


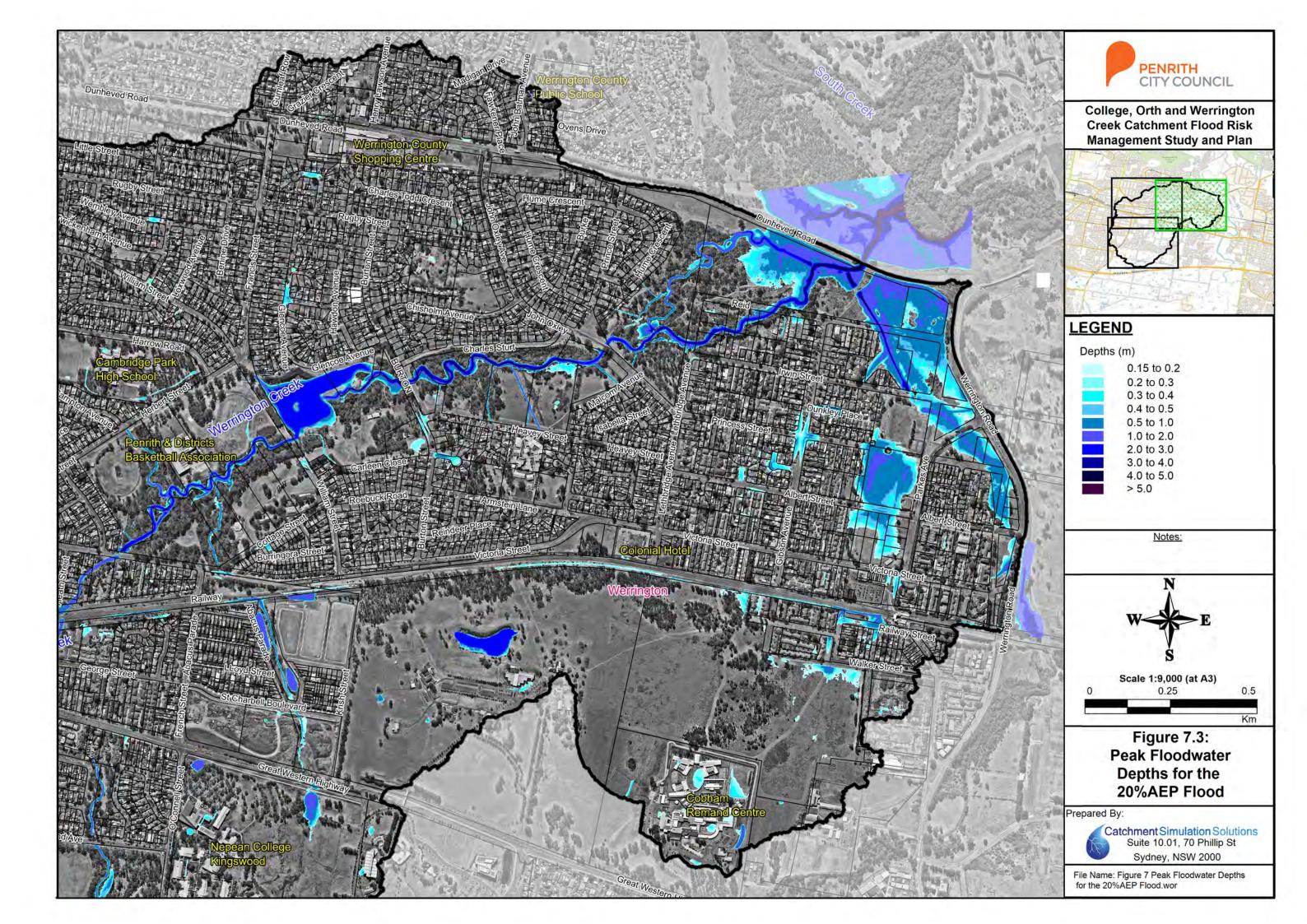


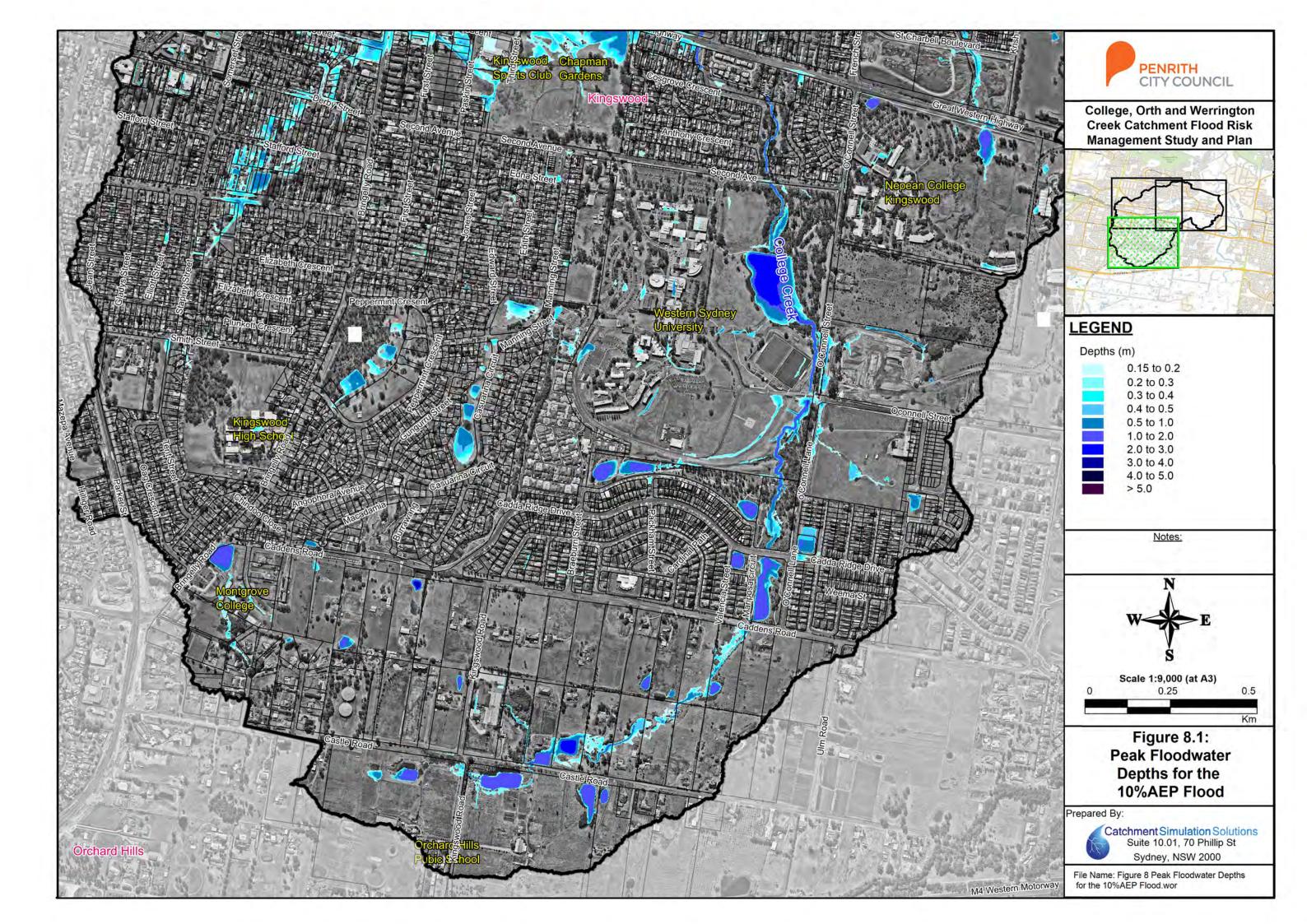


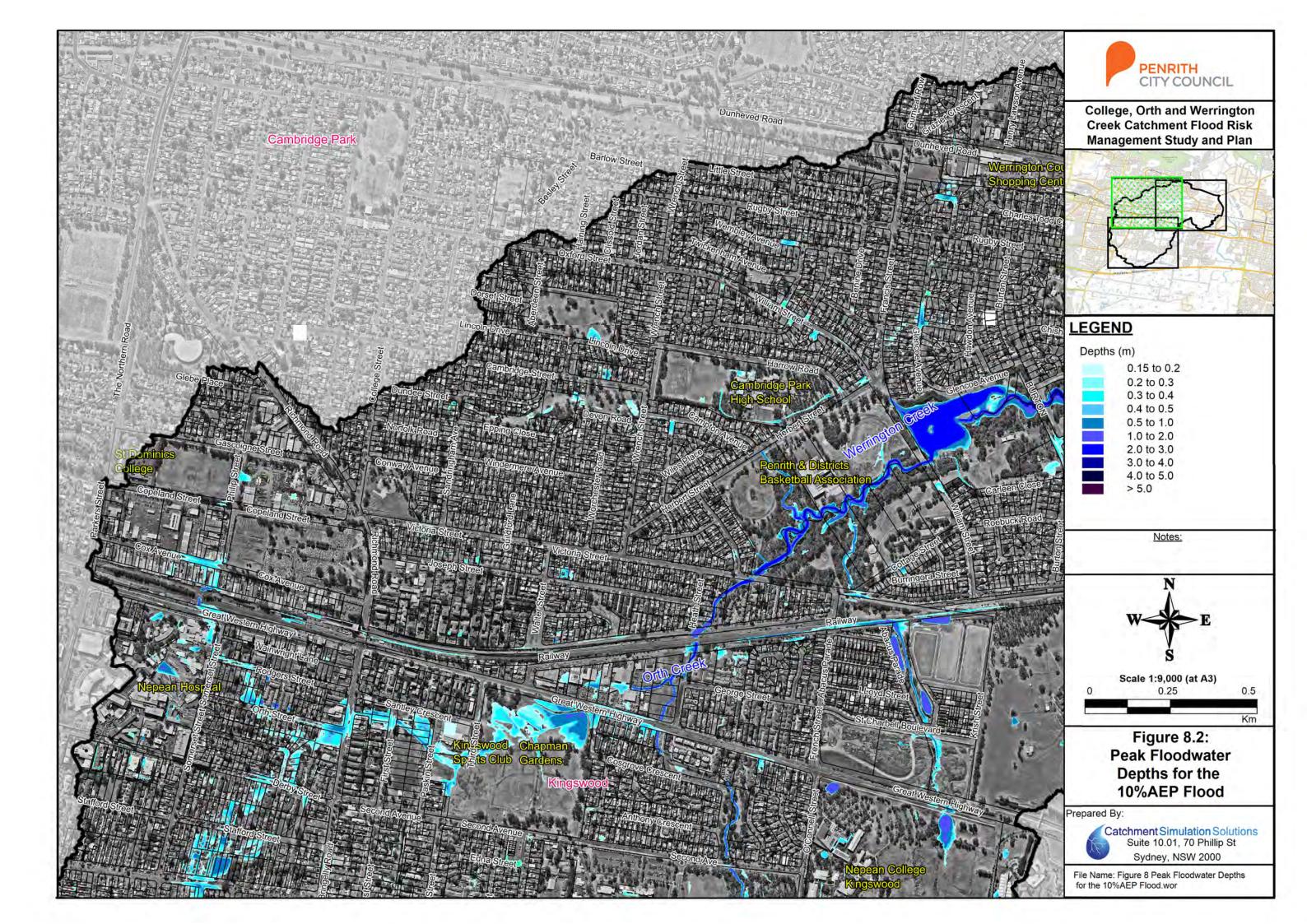


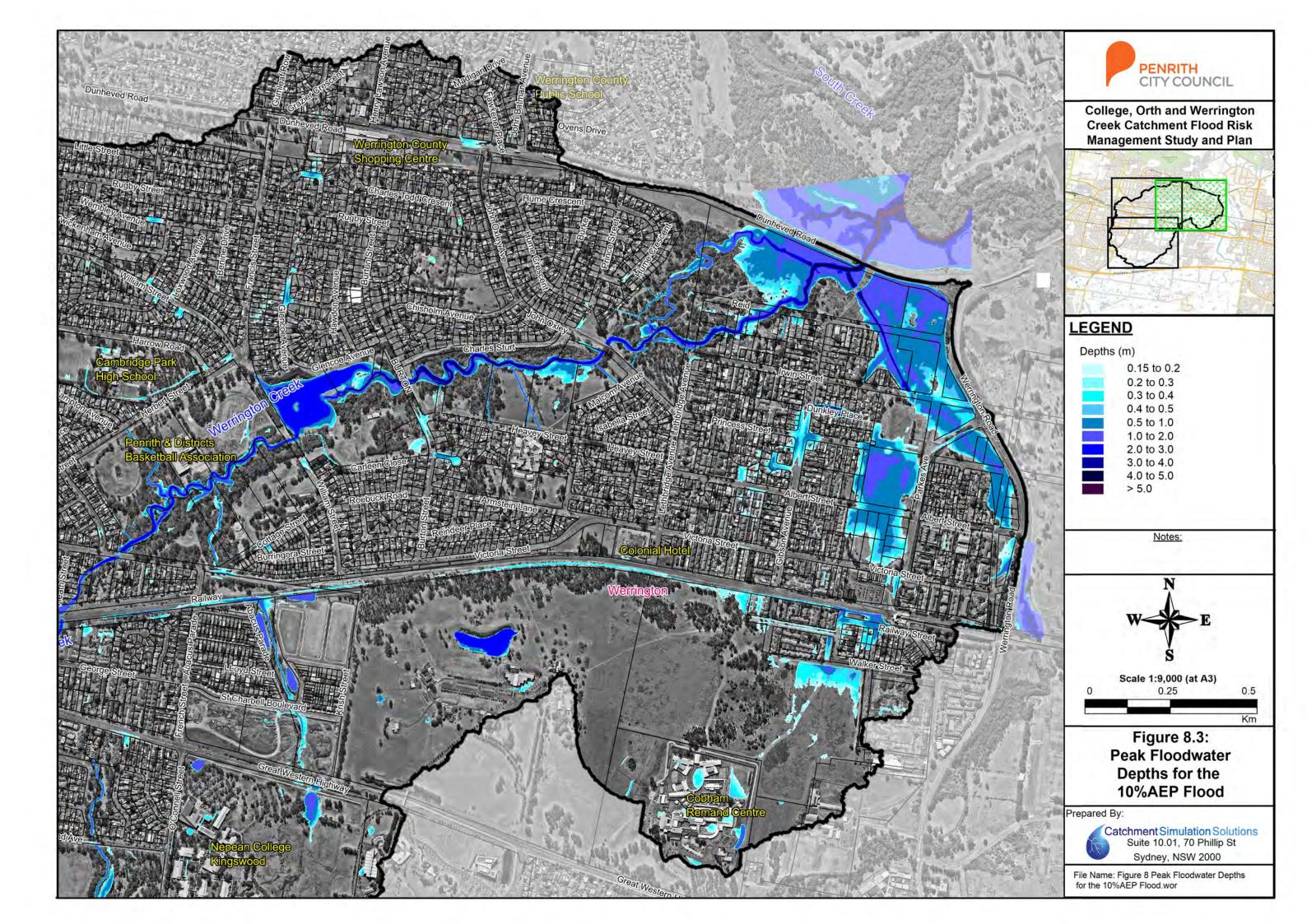


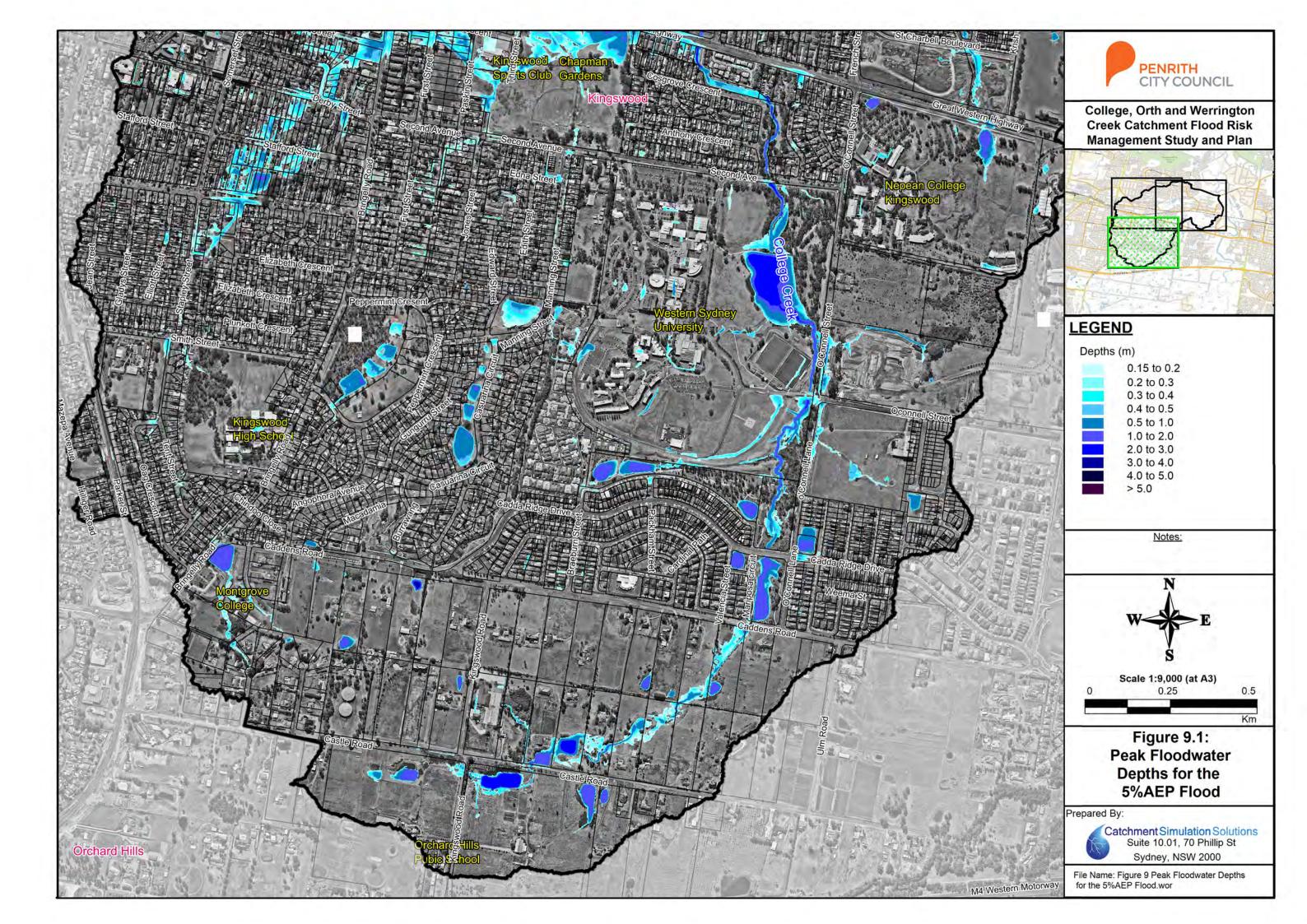


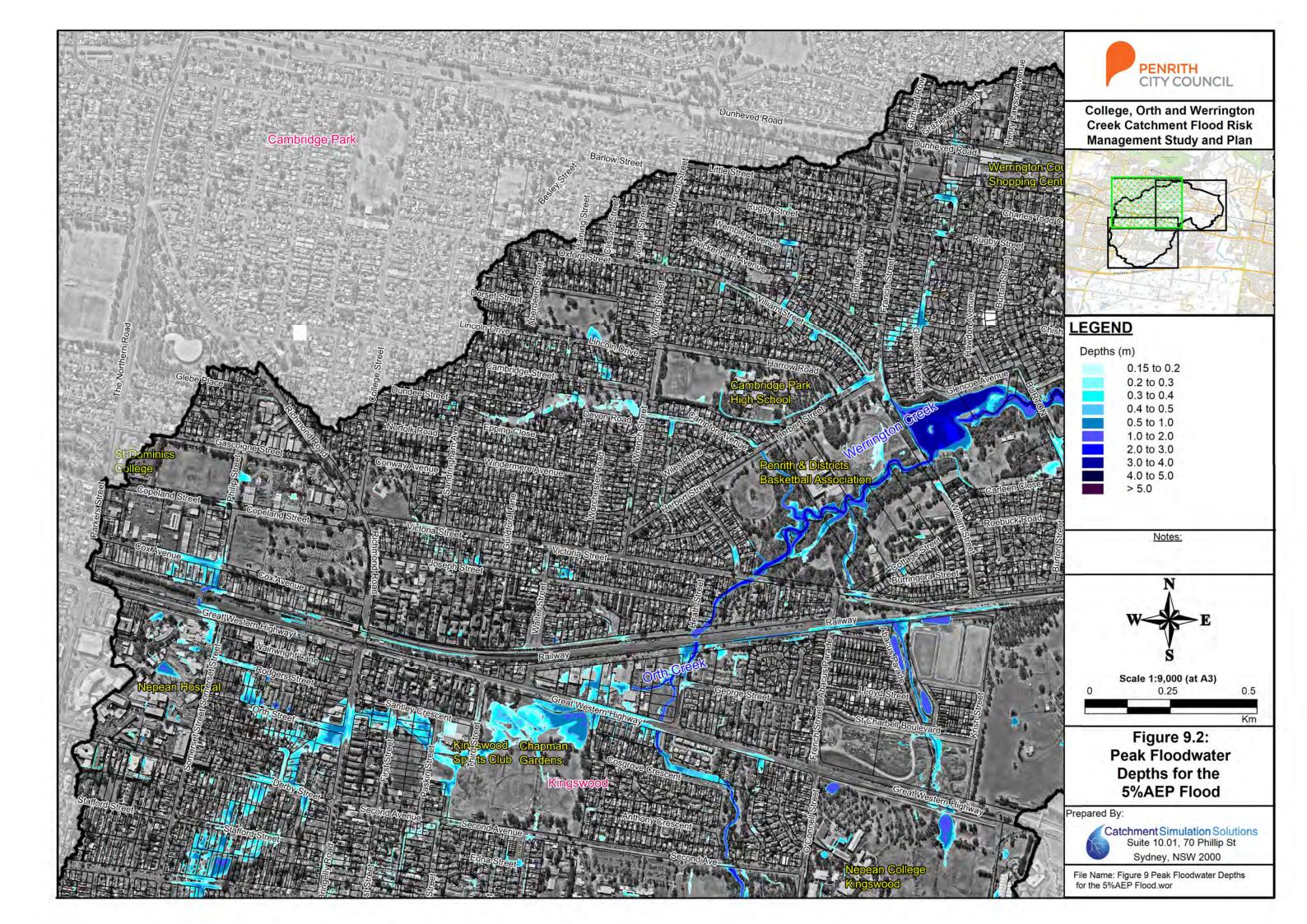


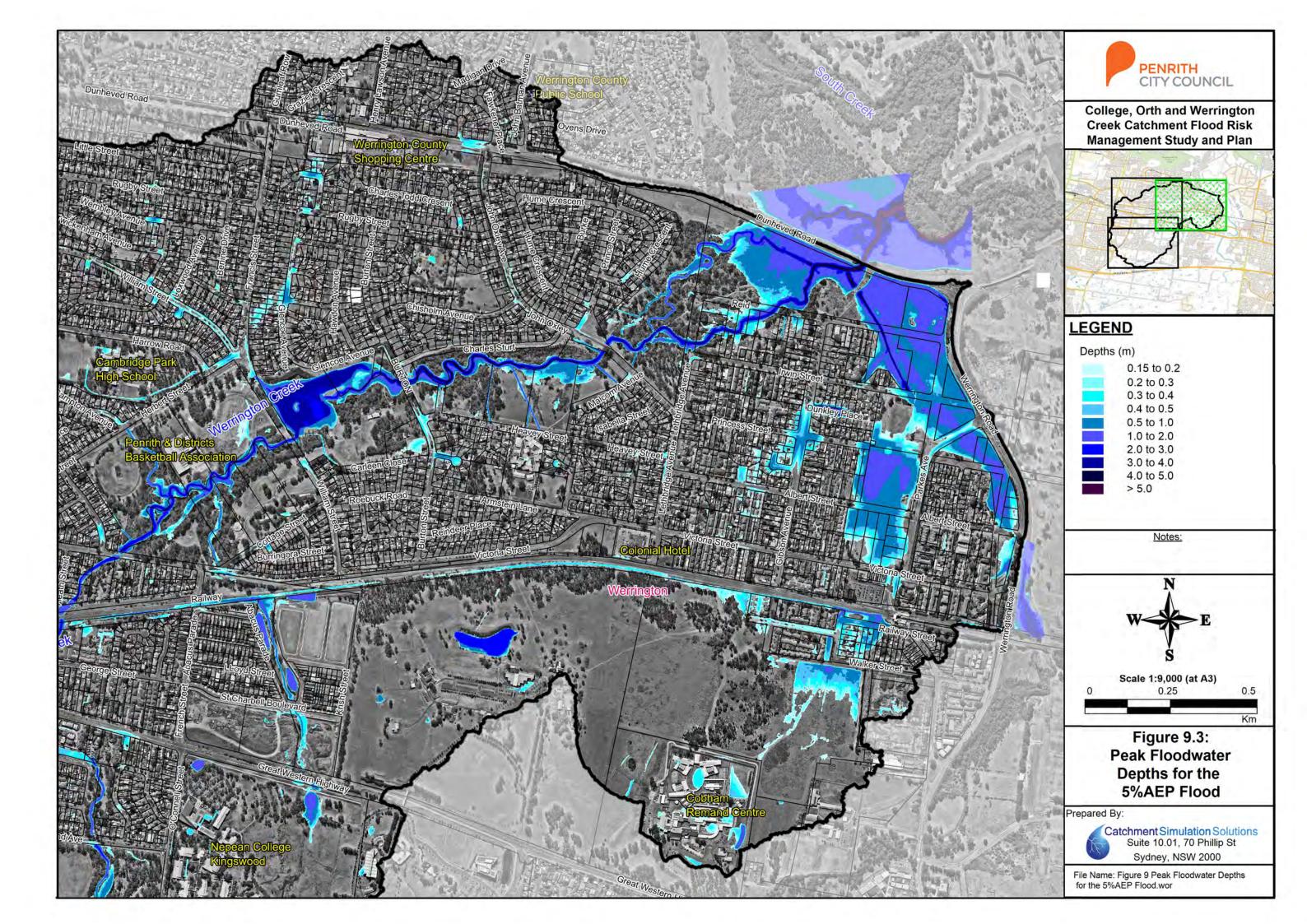


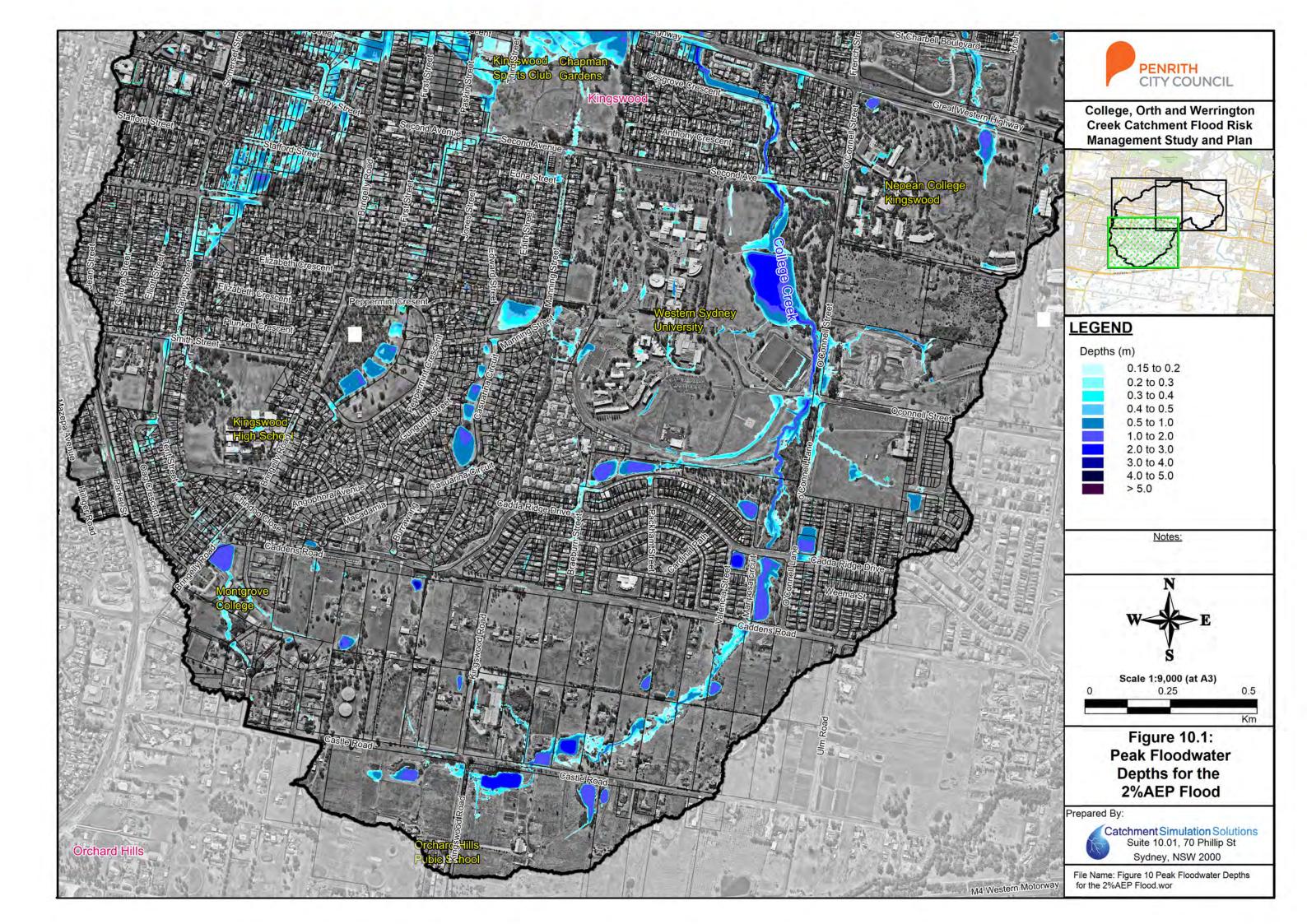


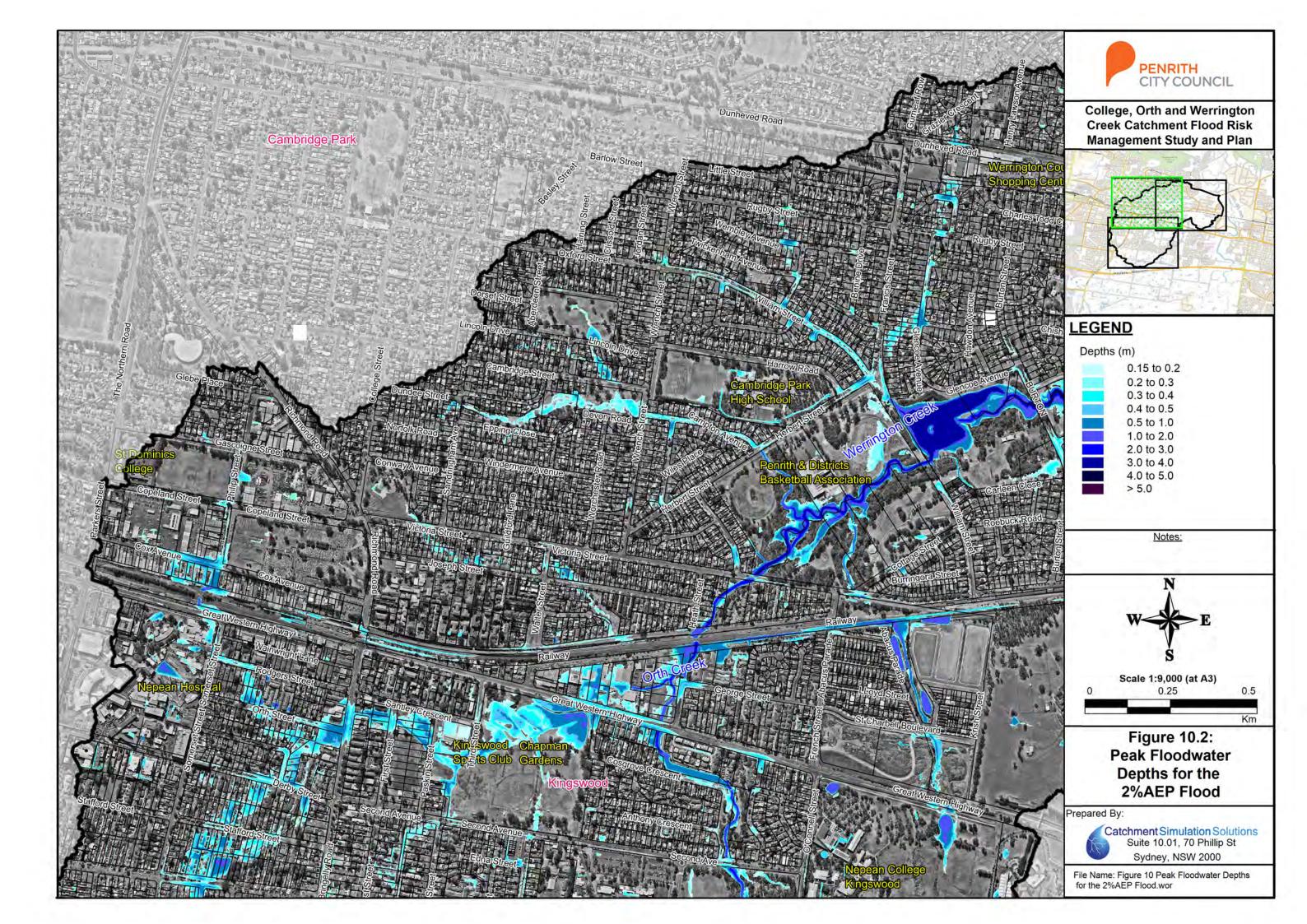


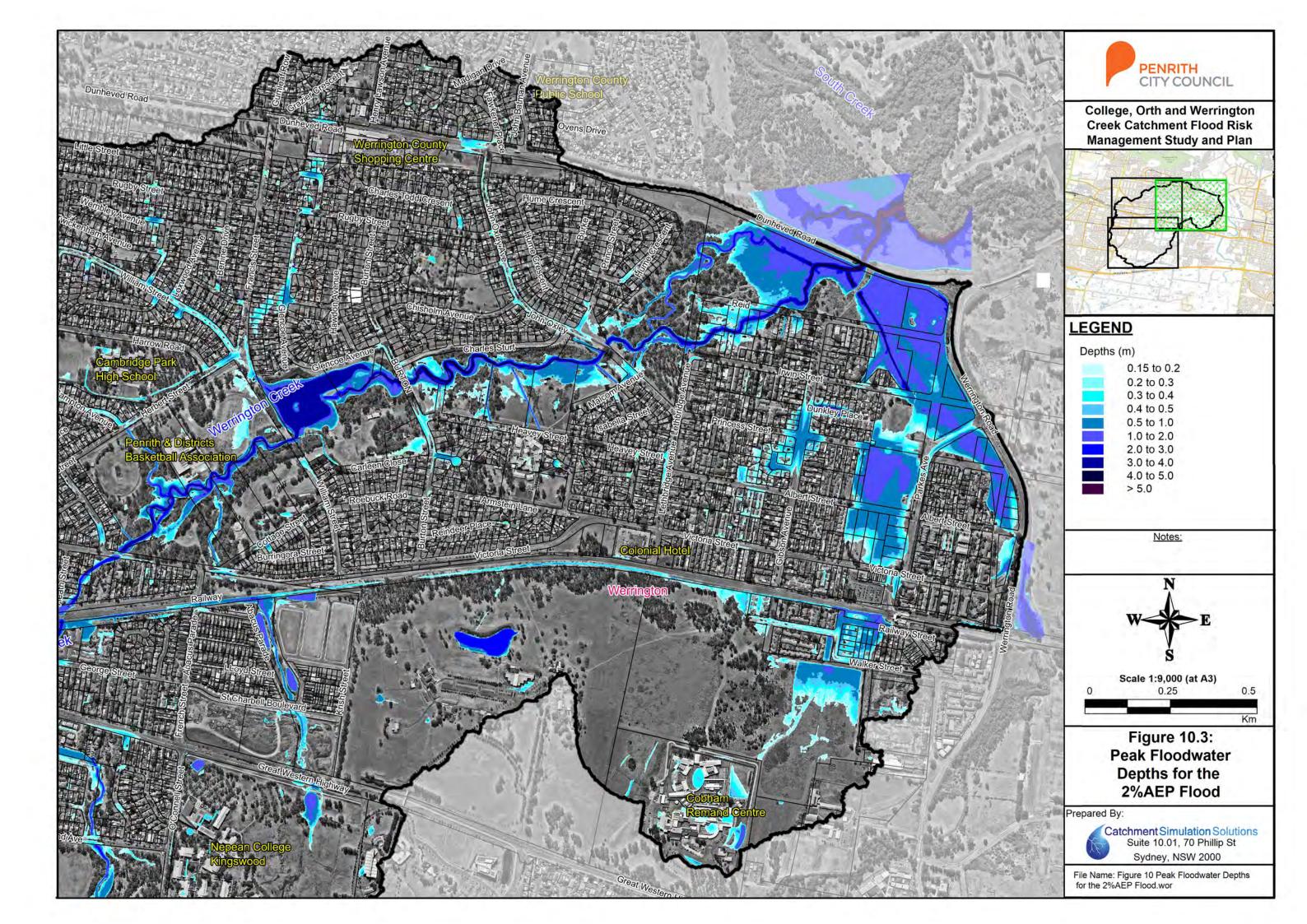


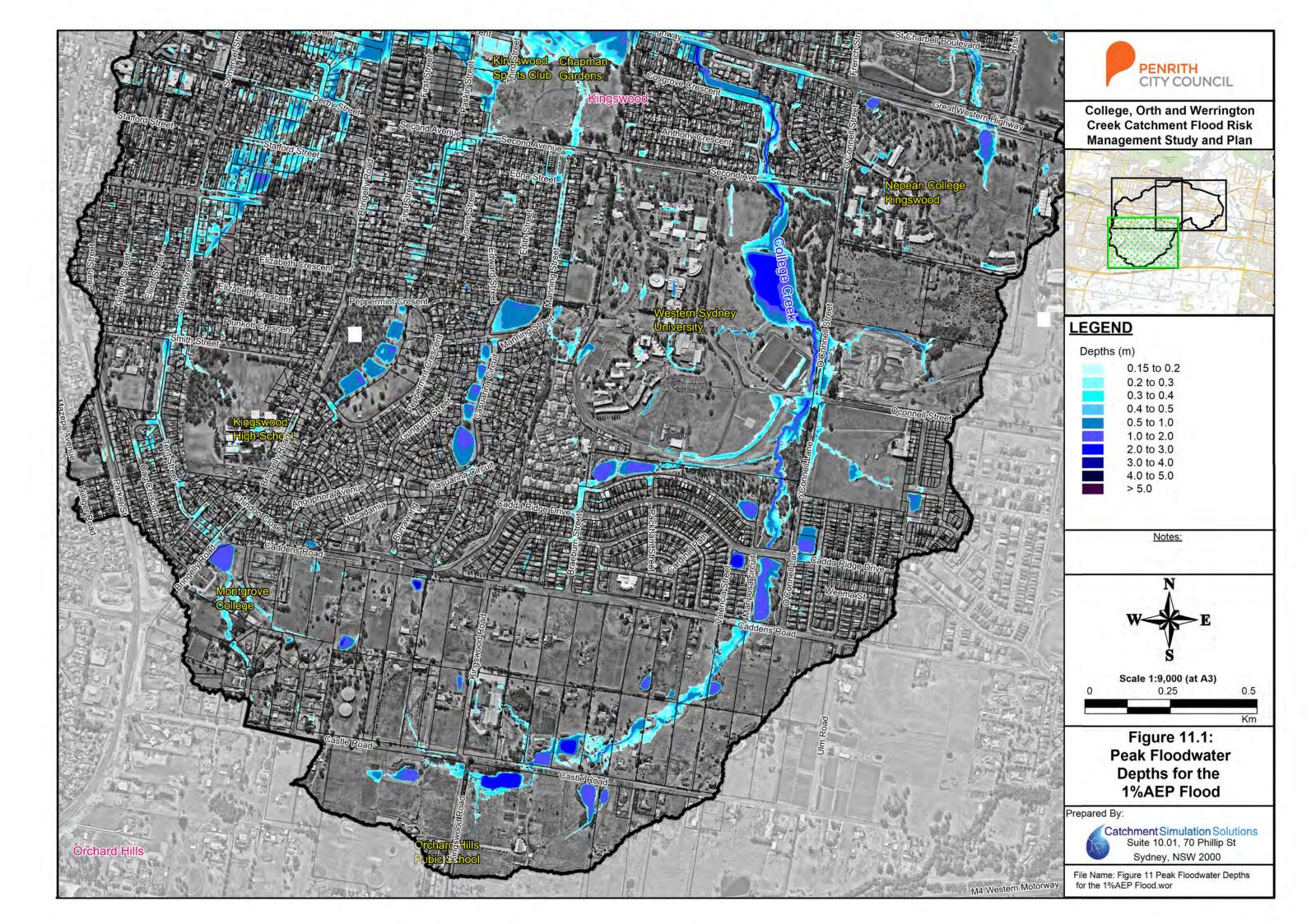


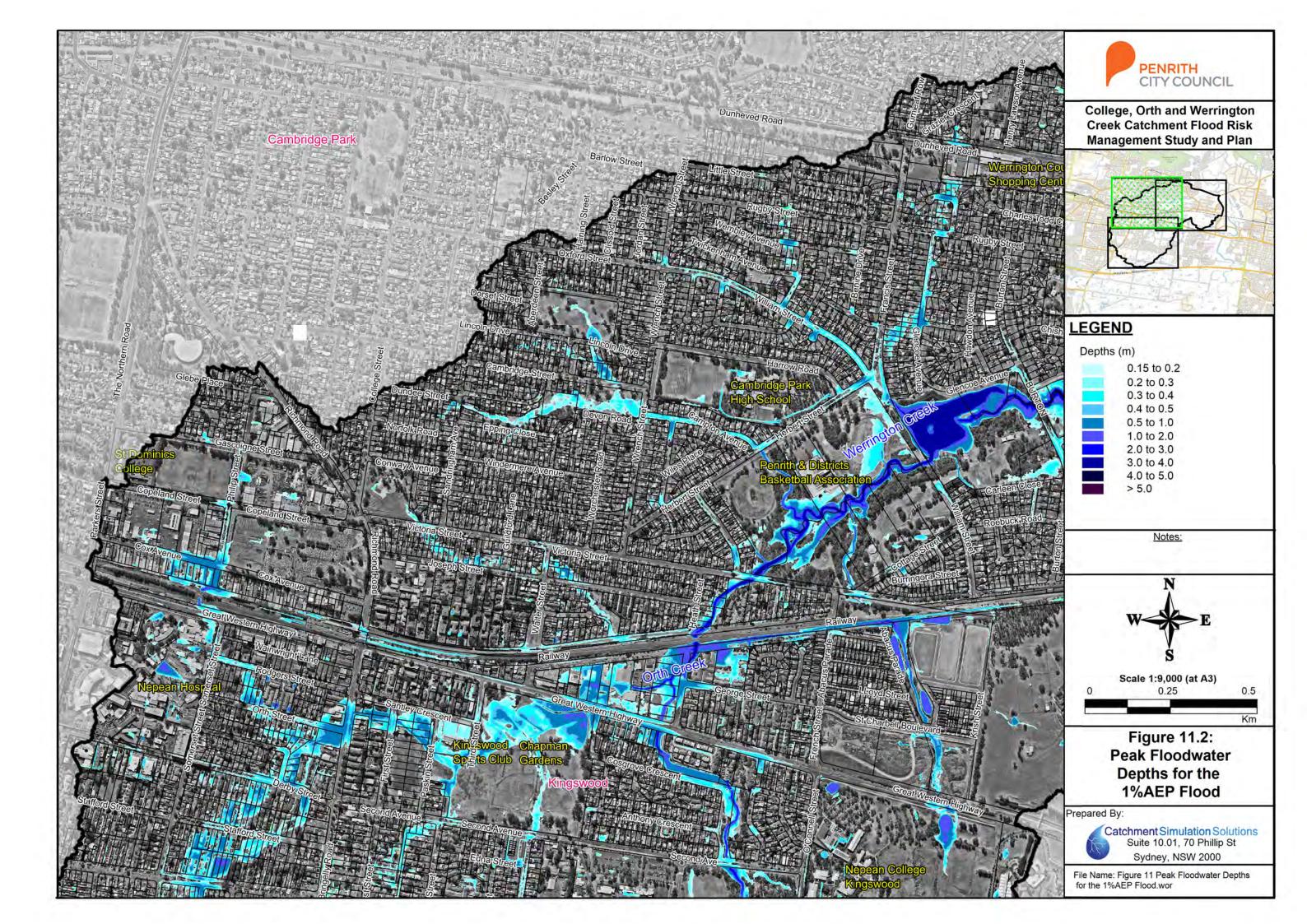


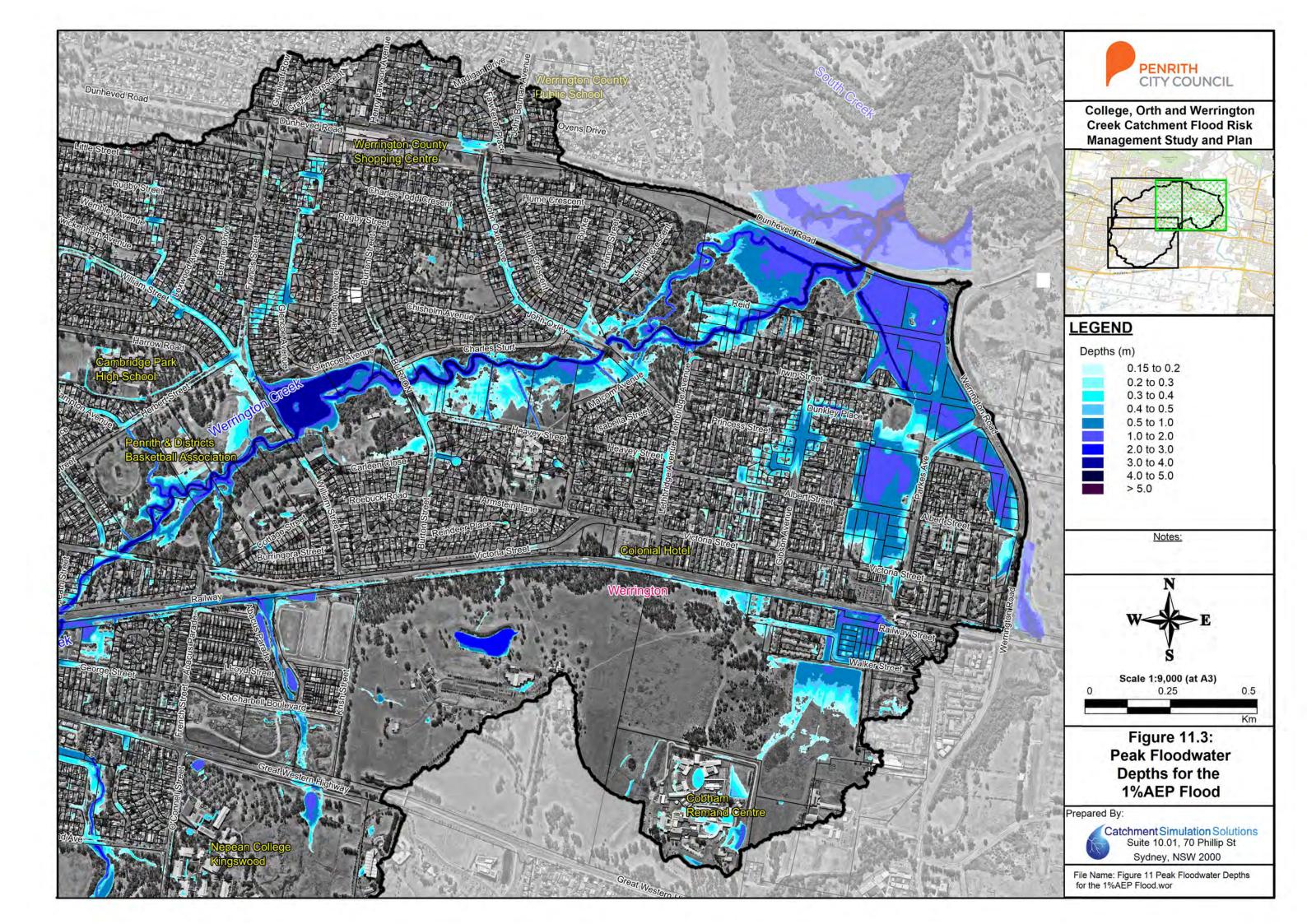


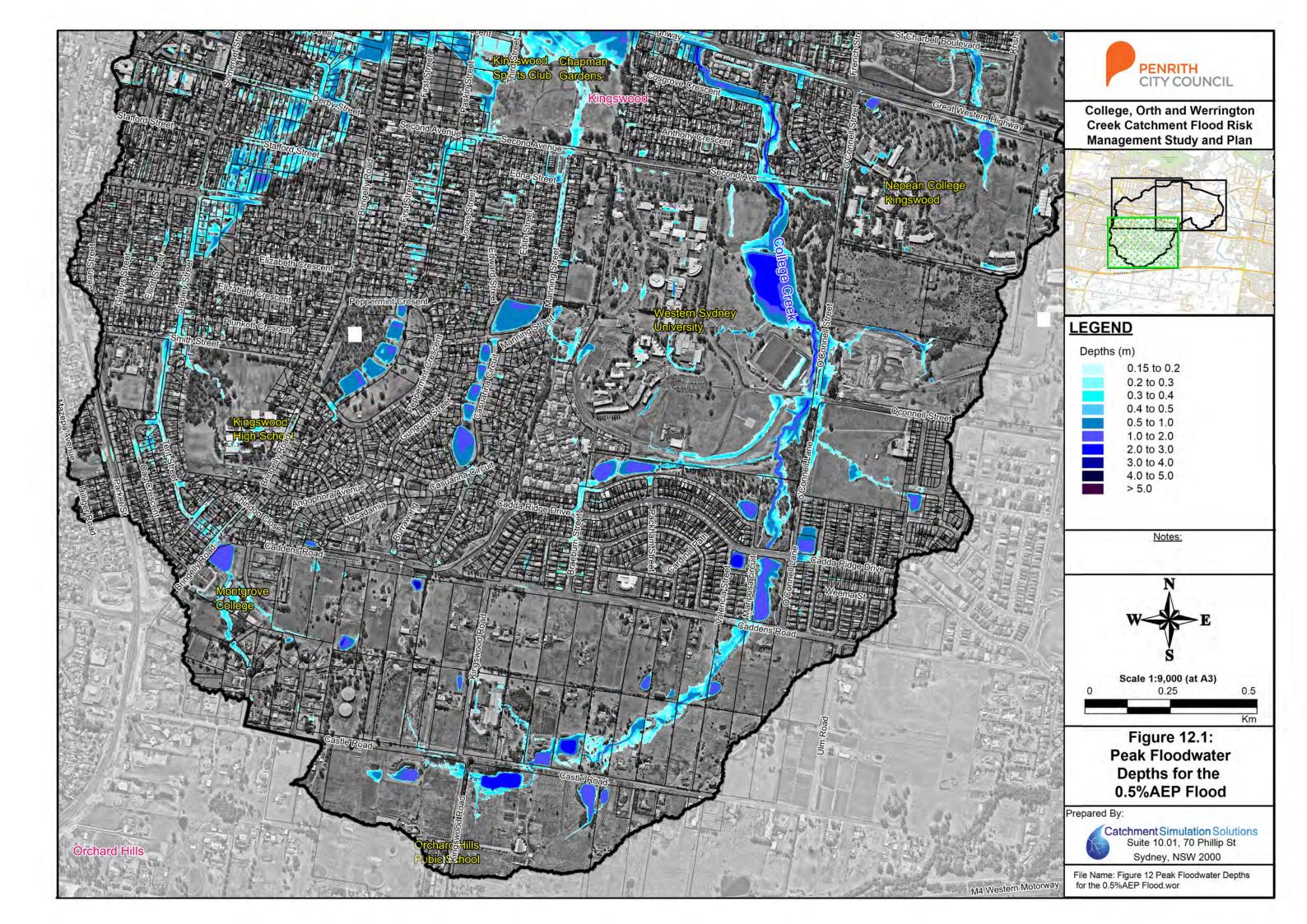


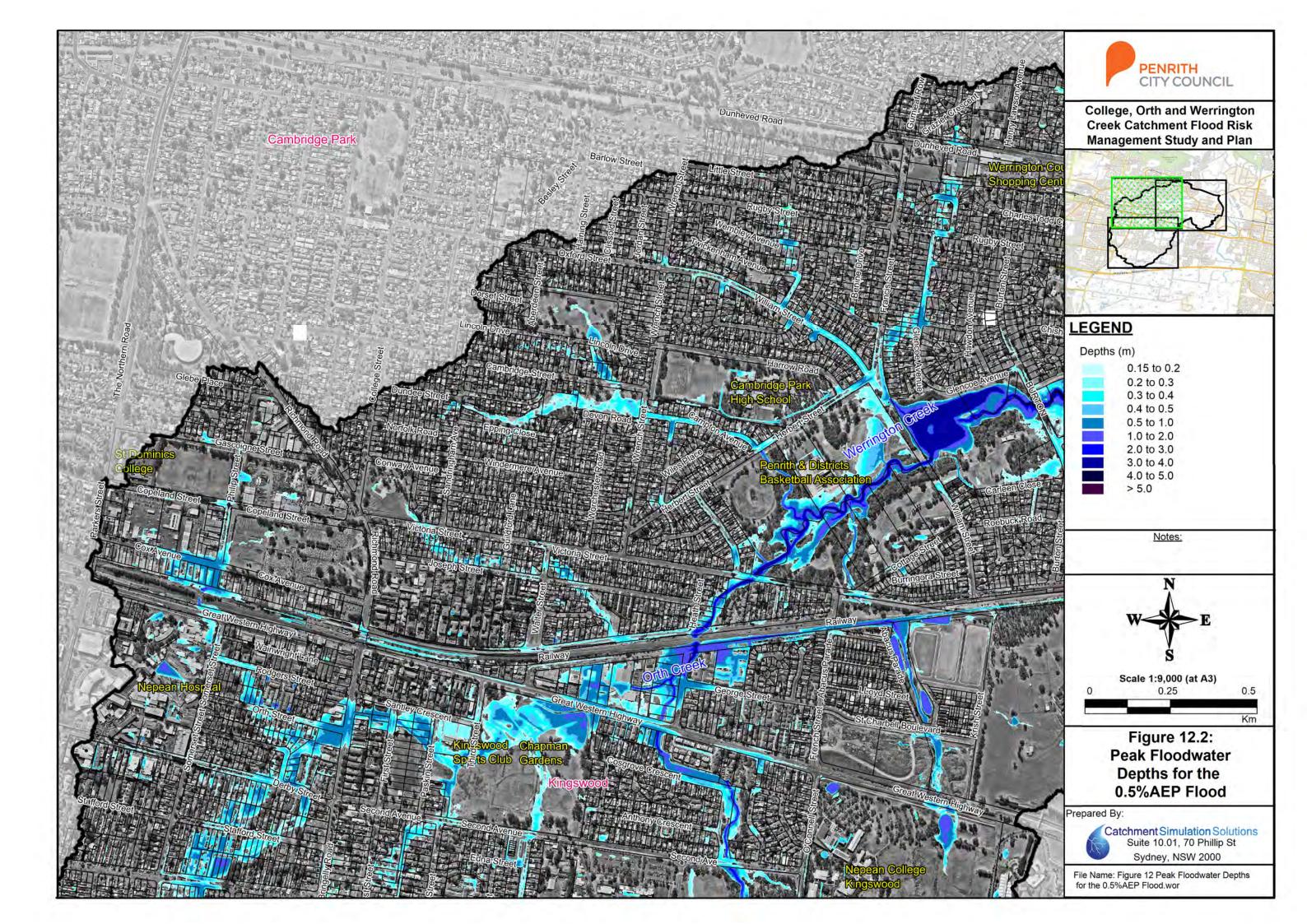


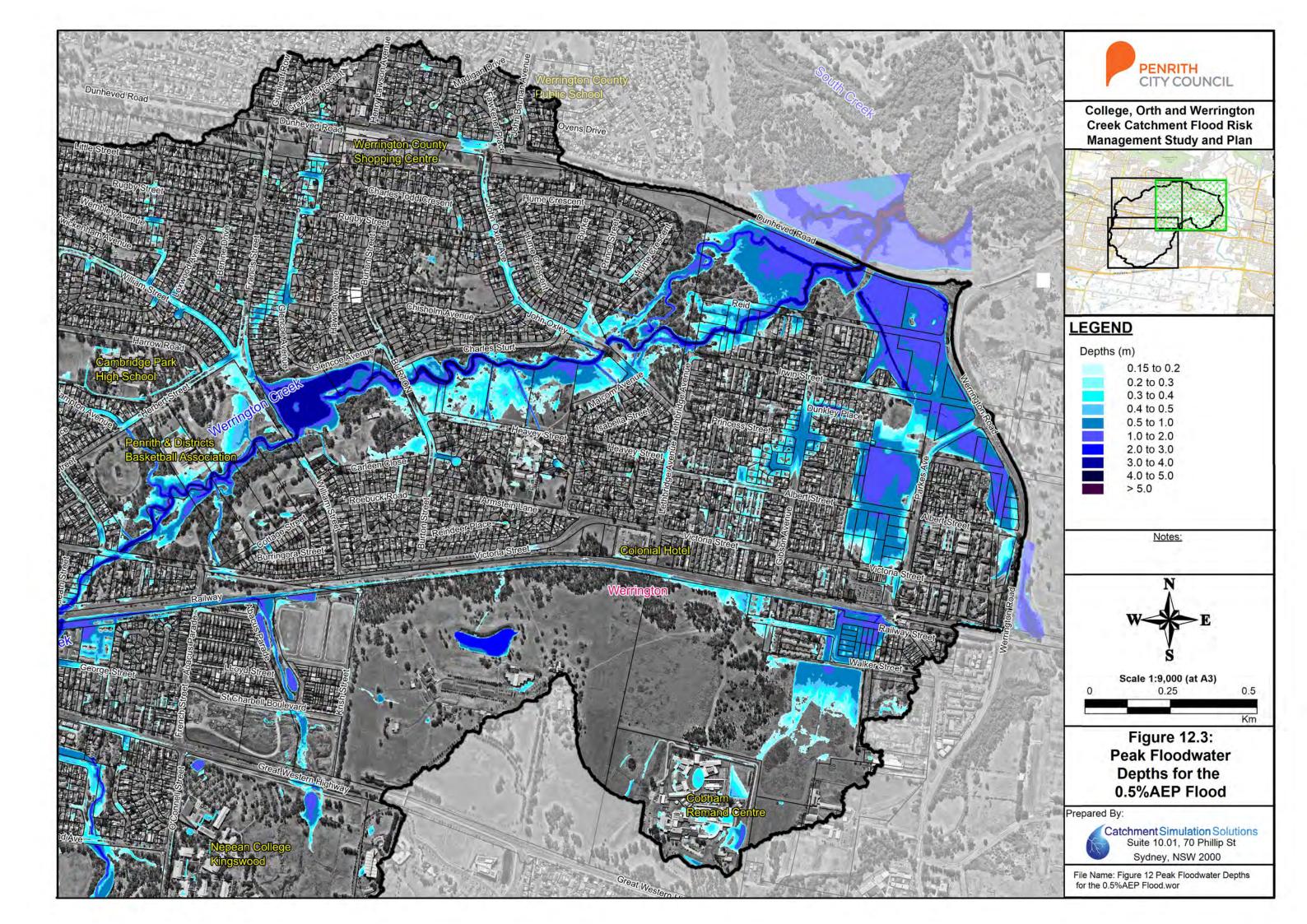


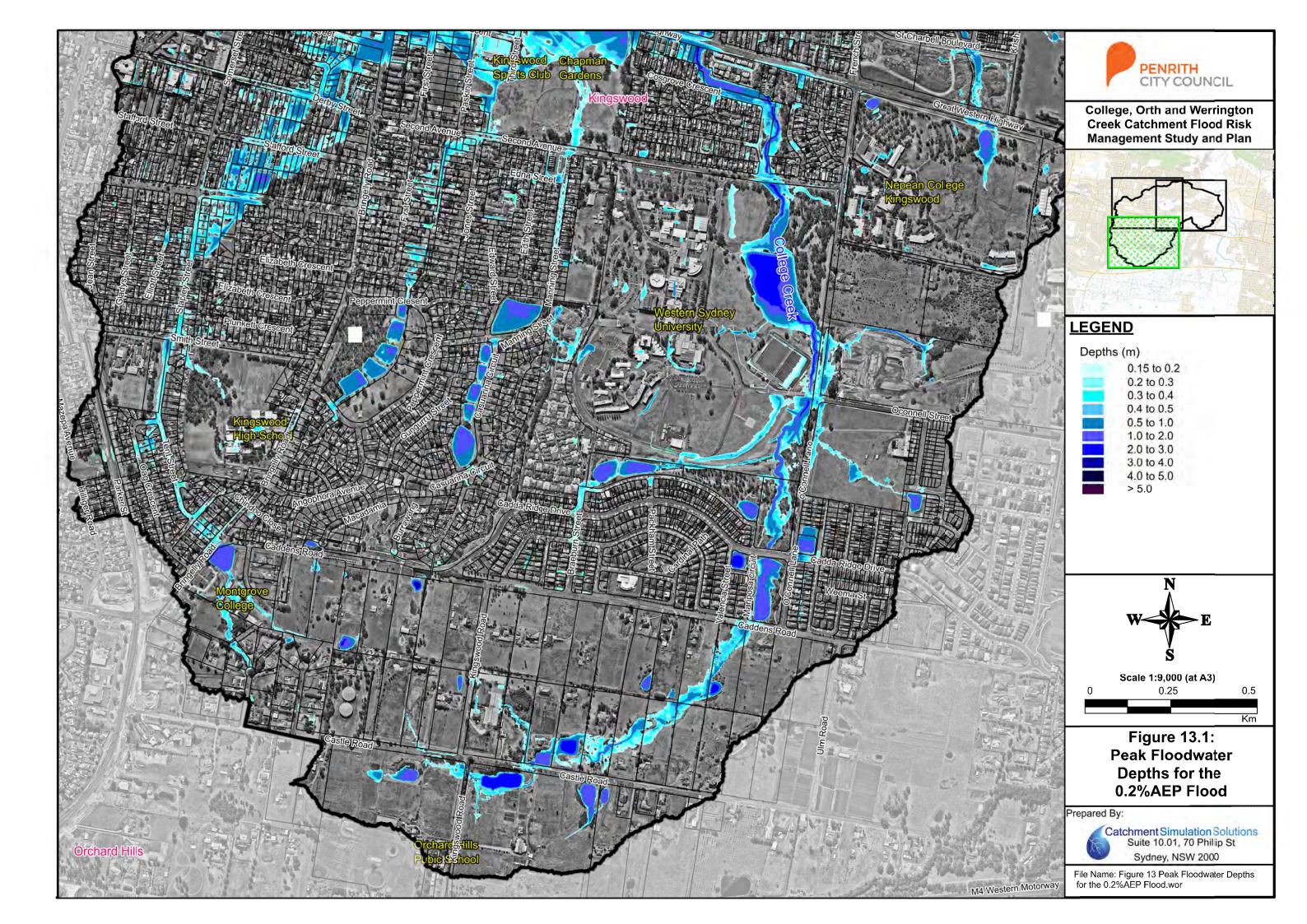


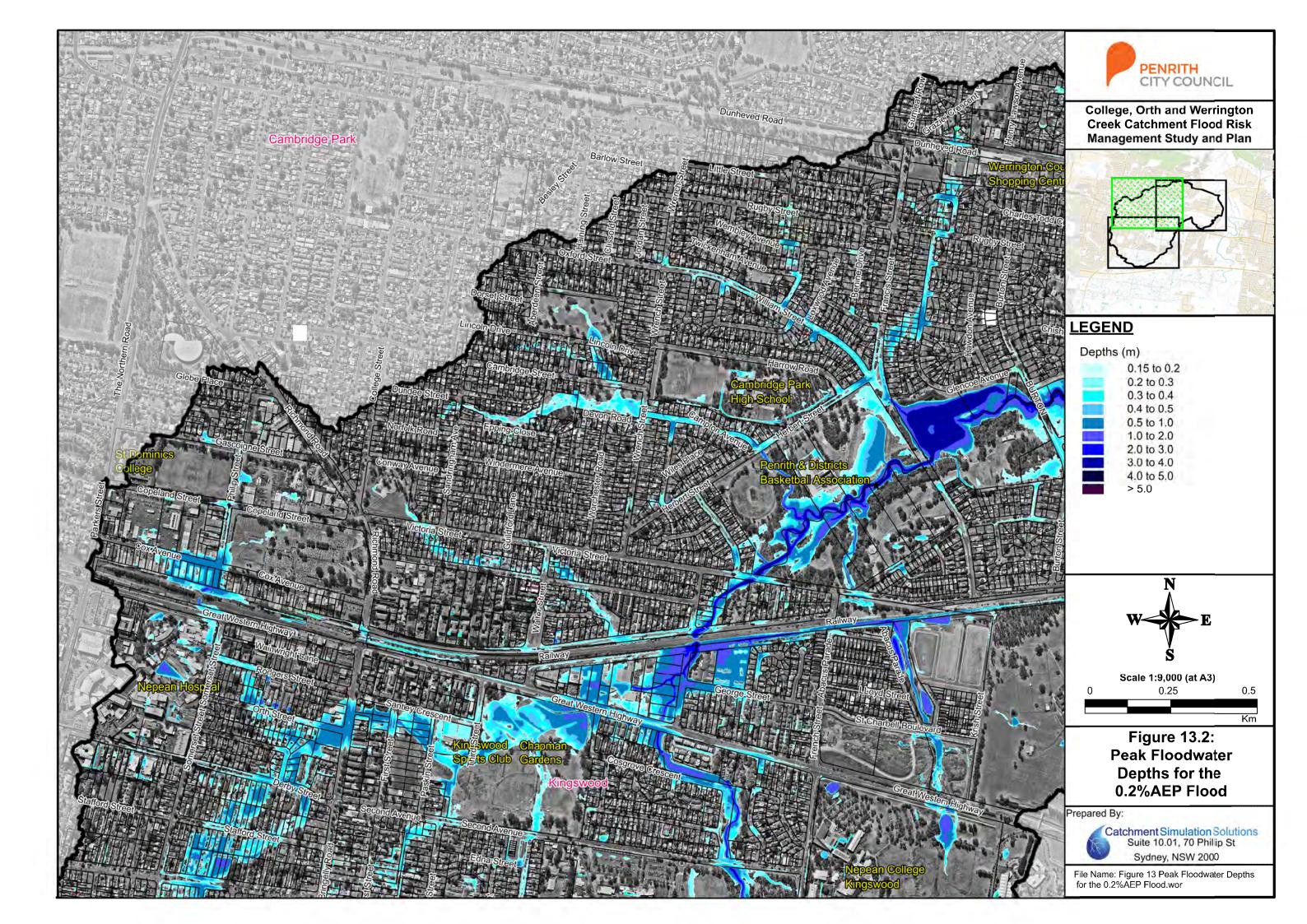


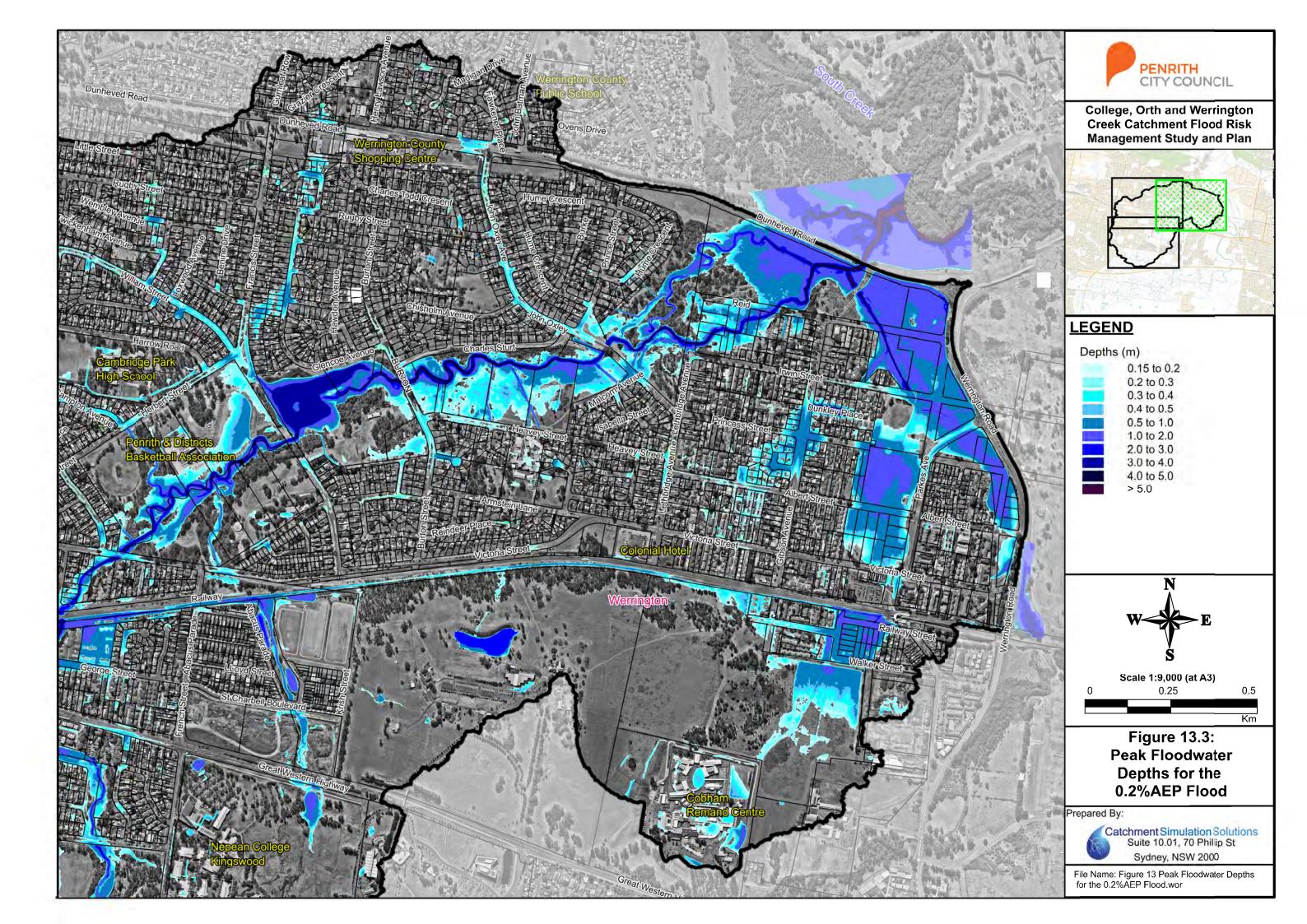


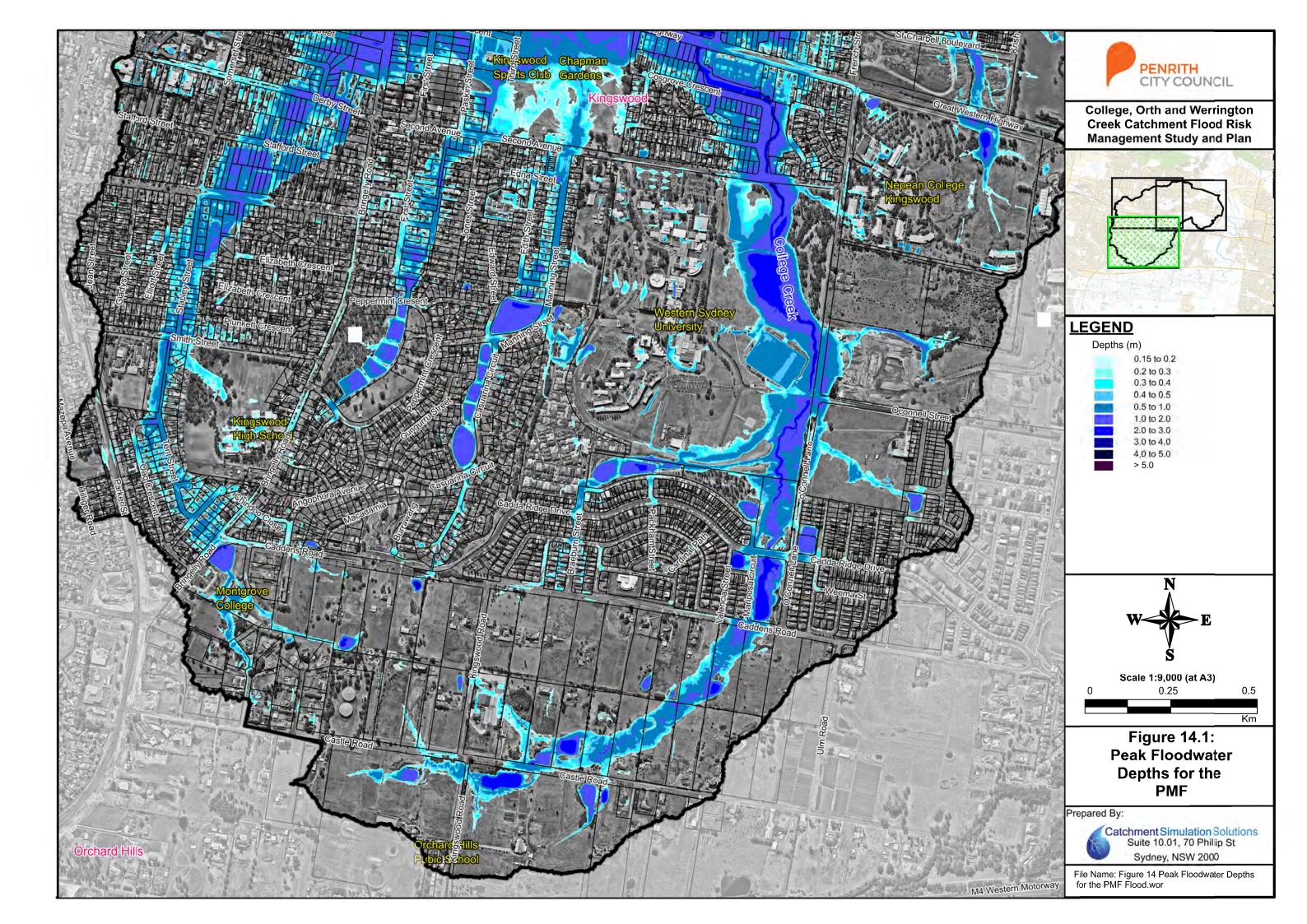


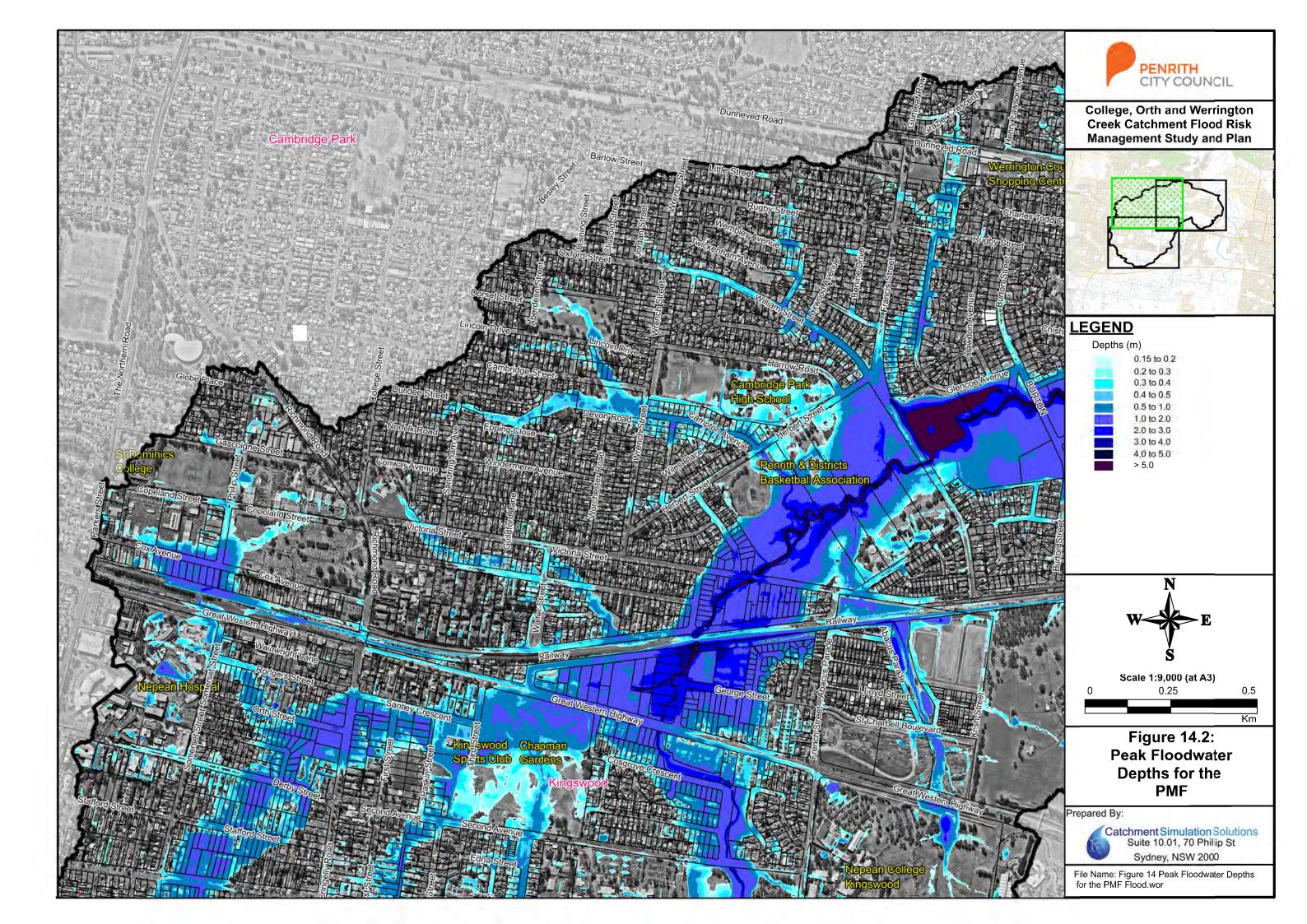


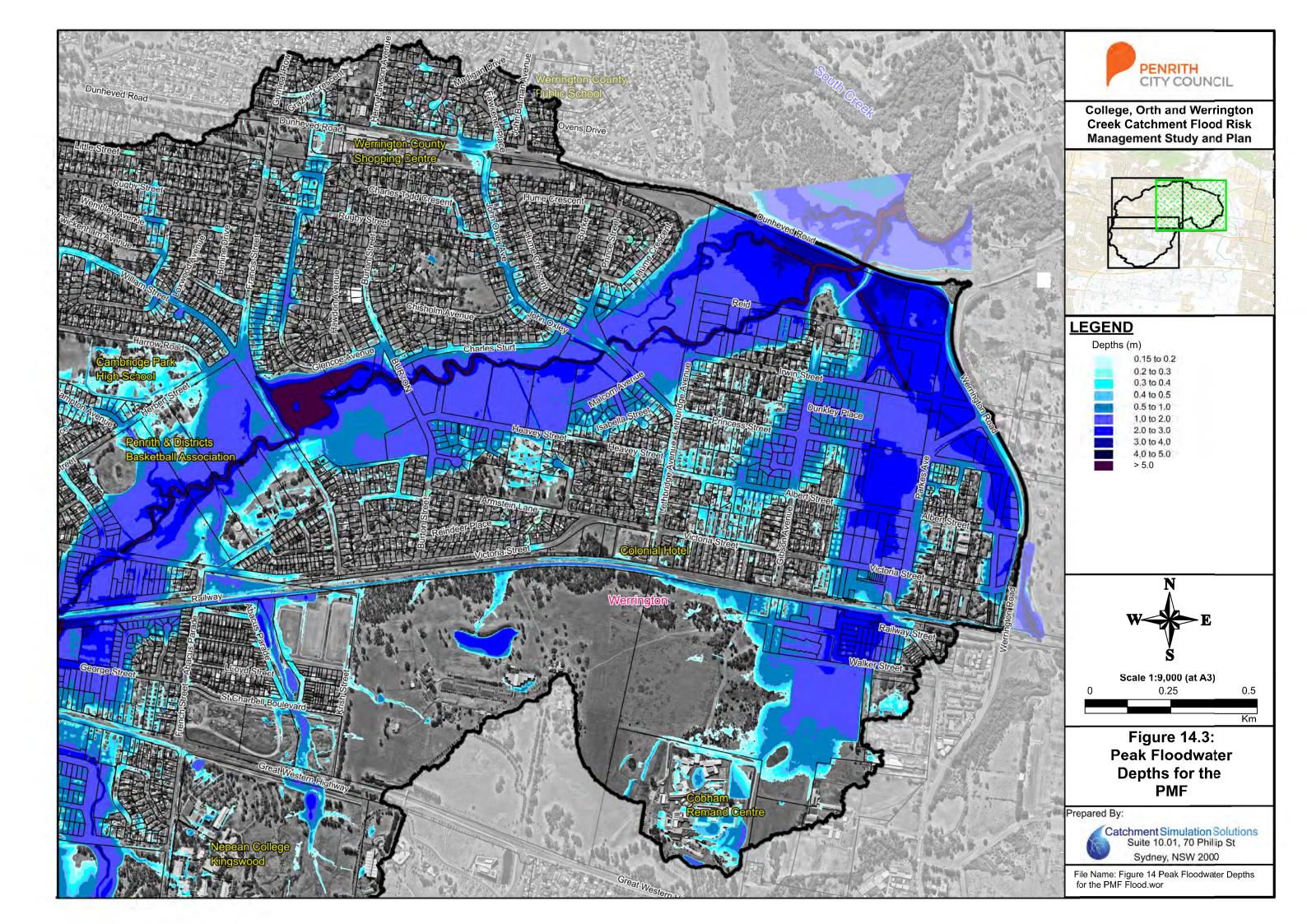


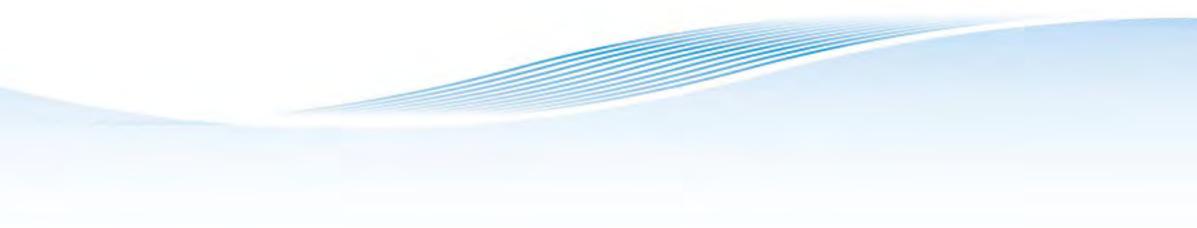






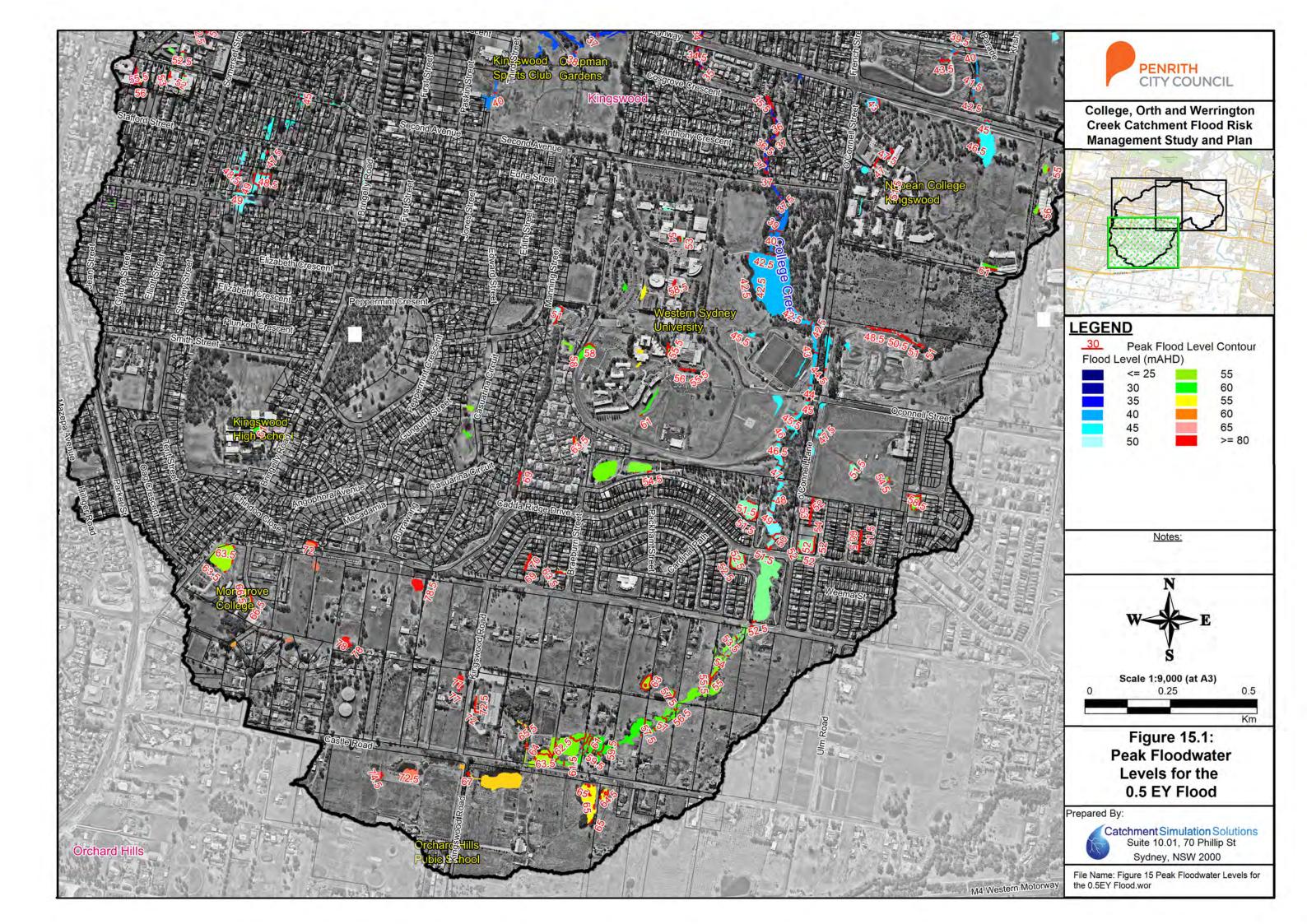


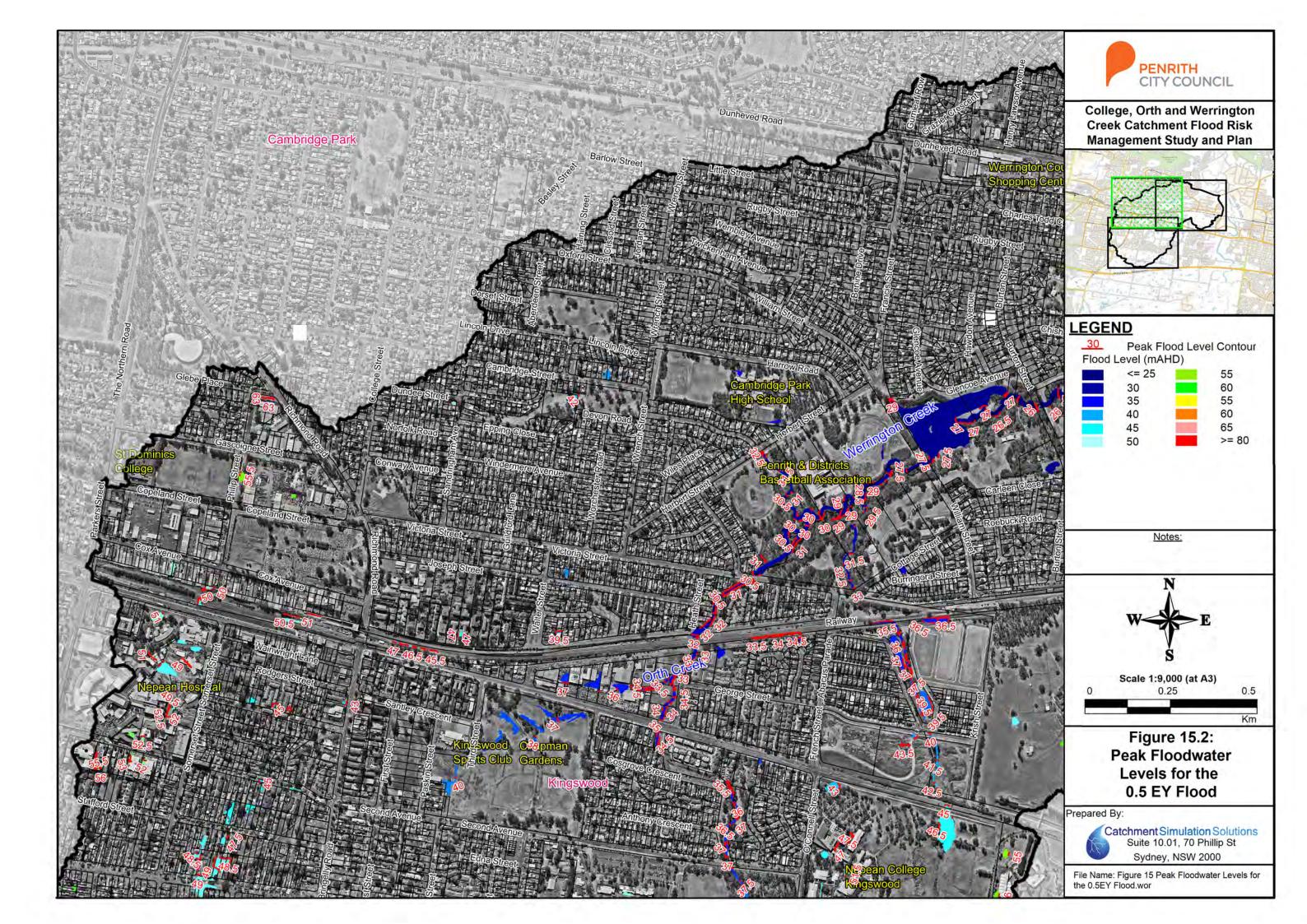


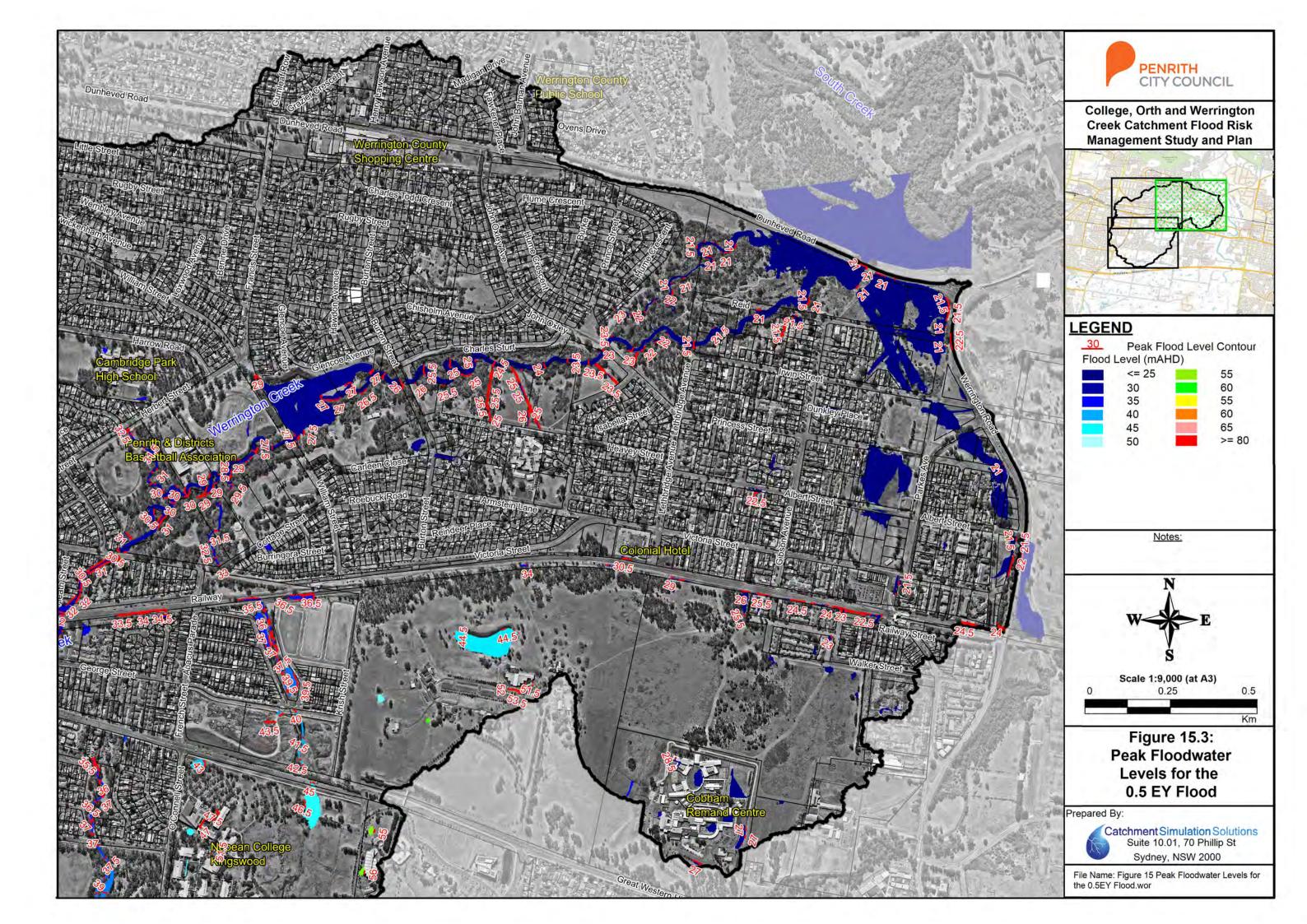


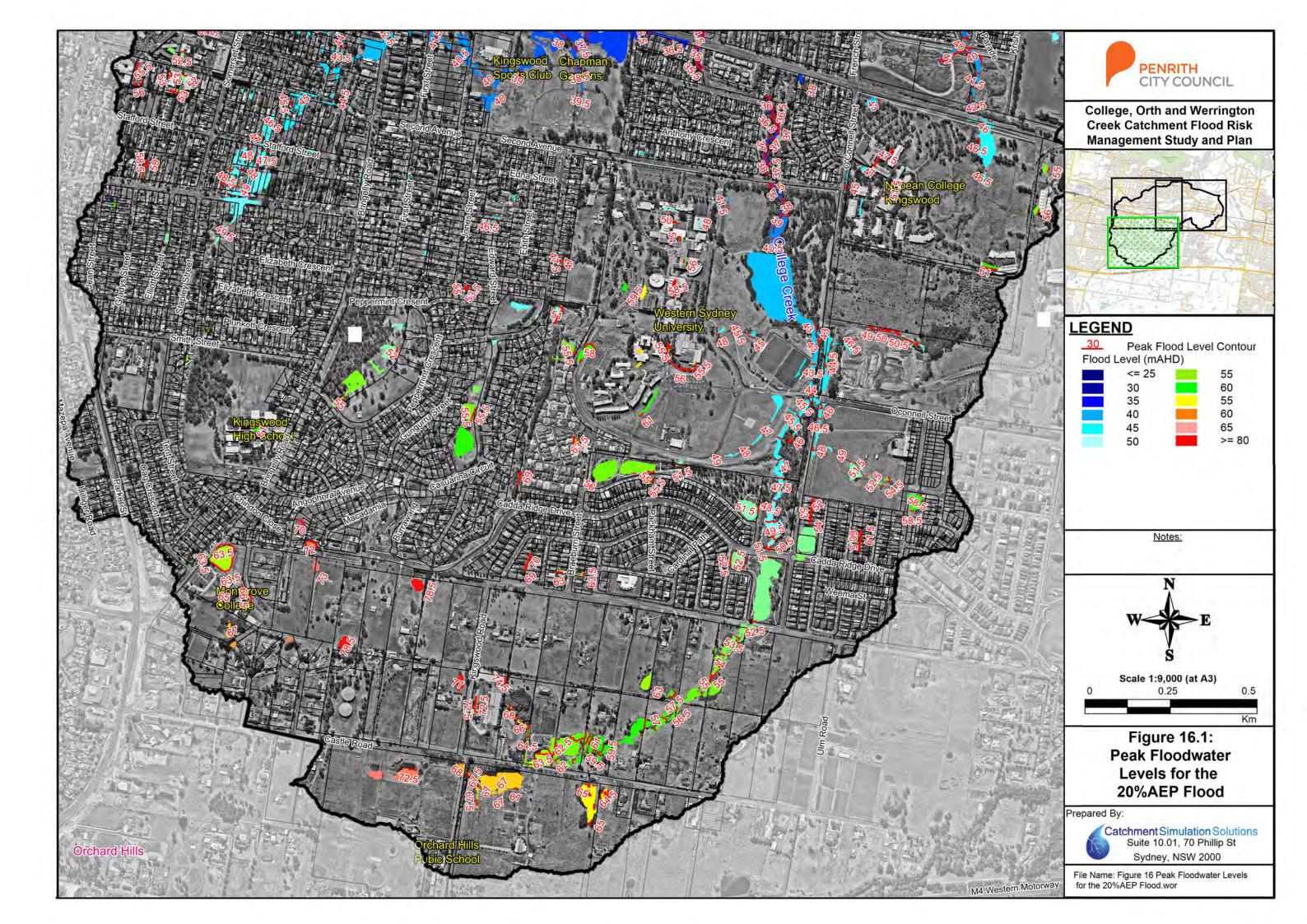
FLOODWATER LEVEL MAPS

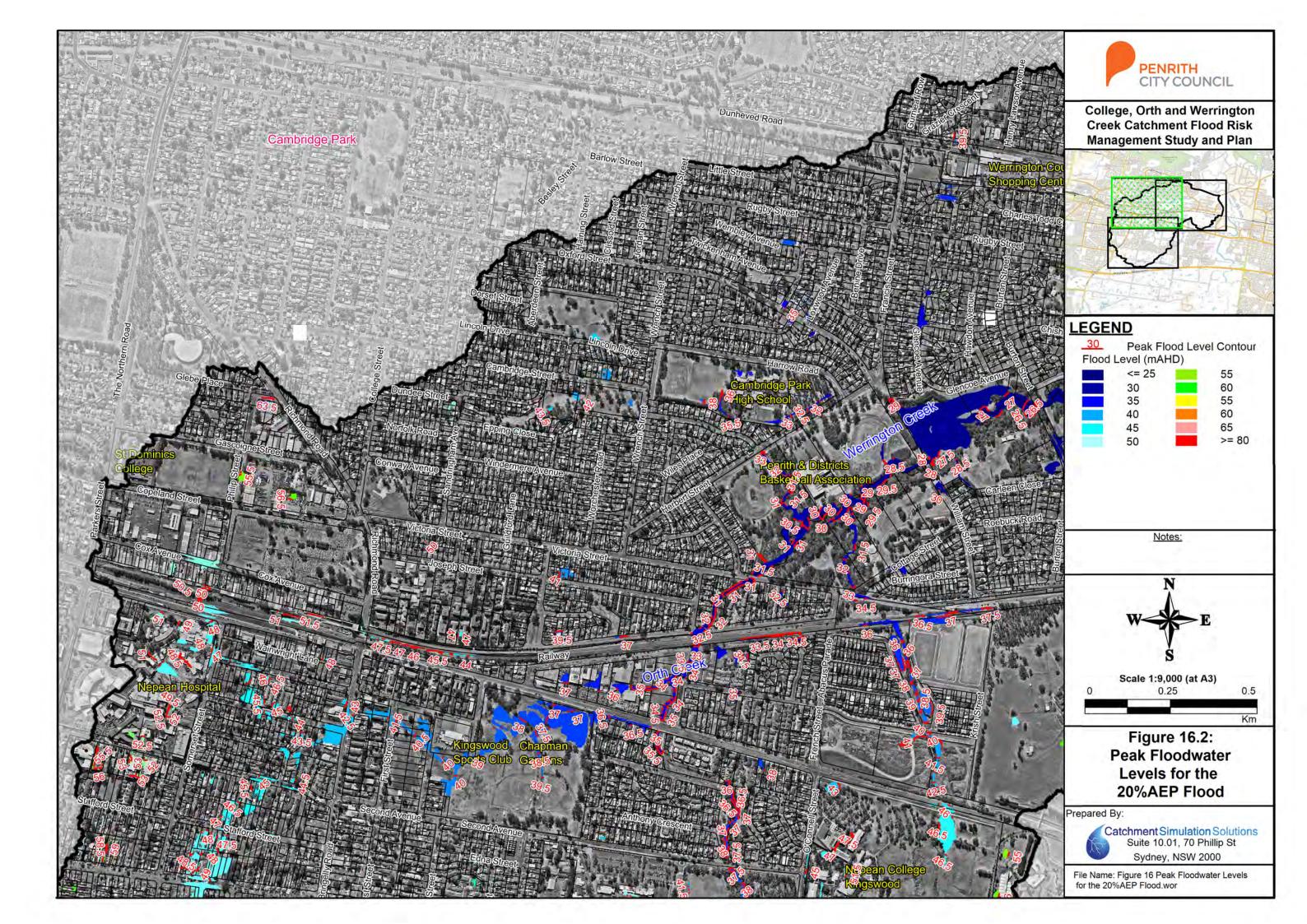


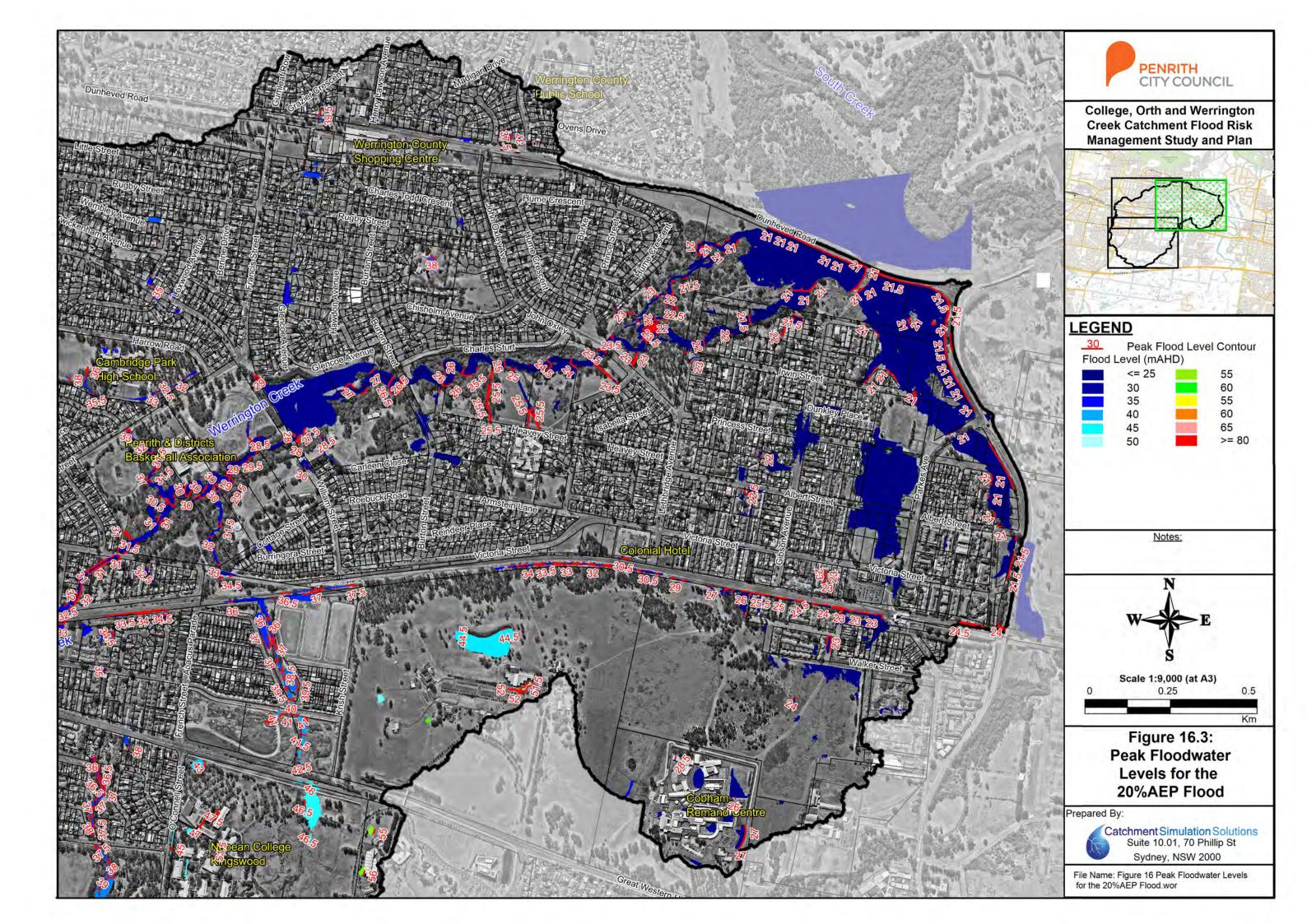


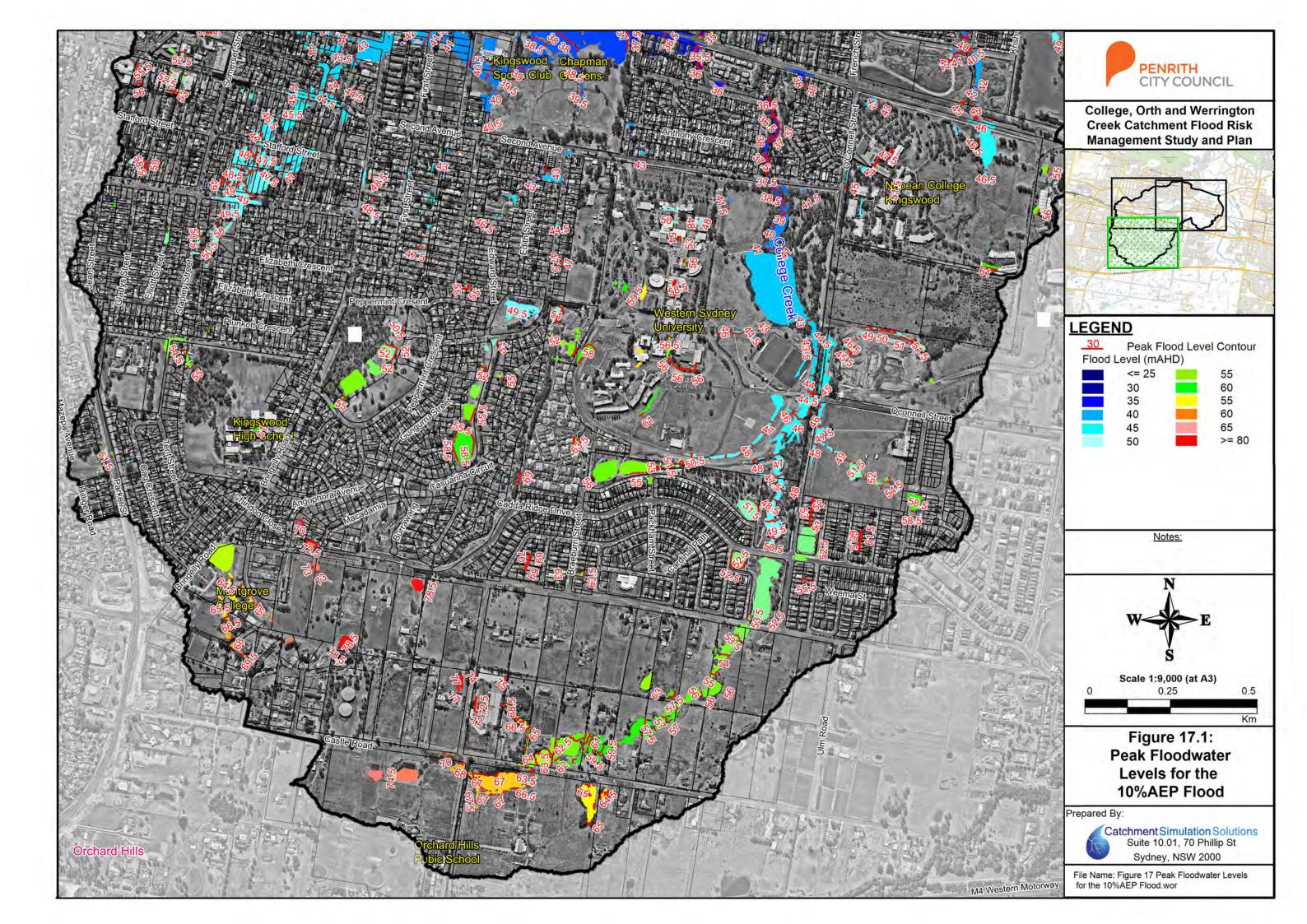


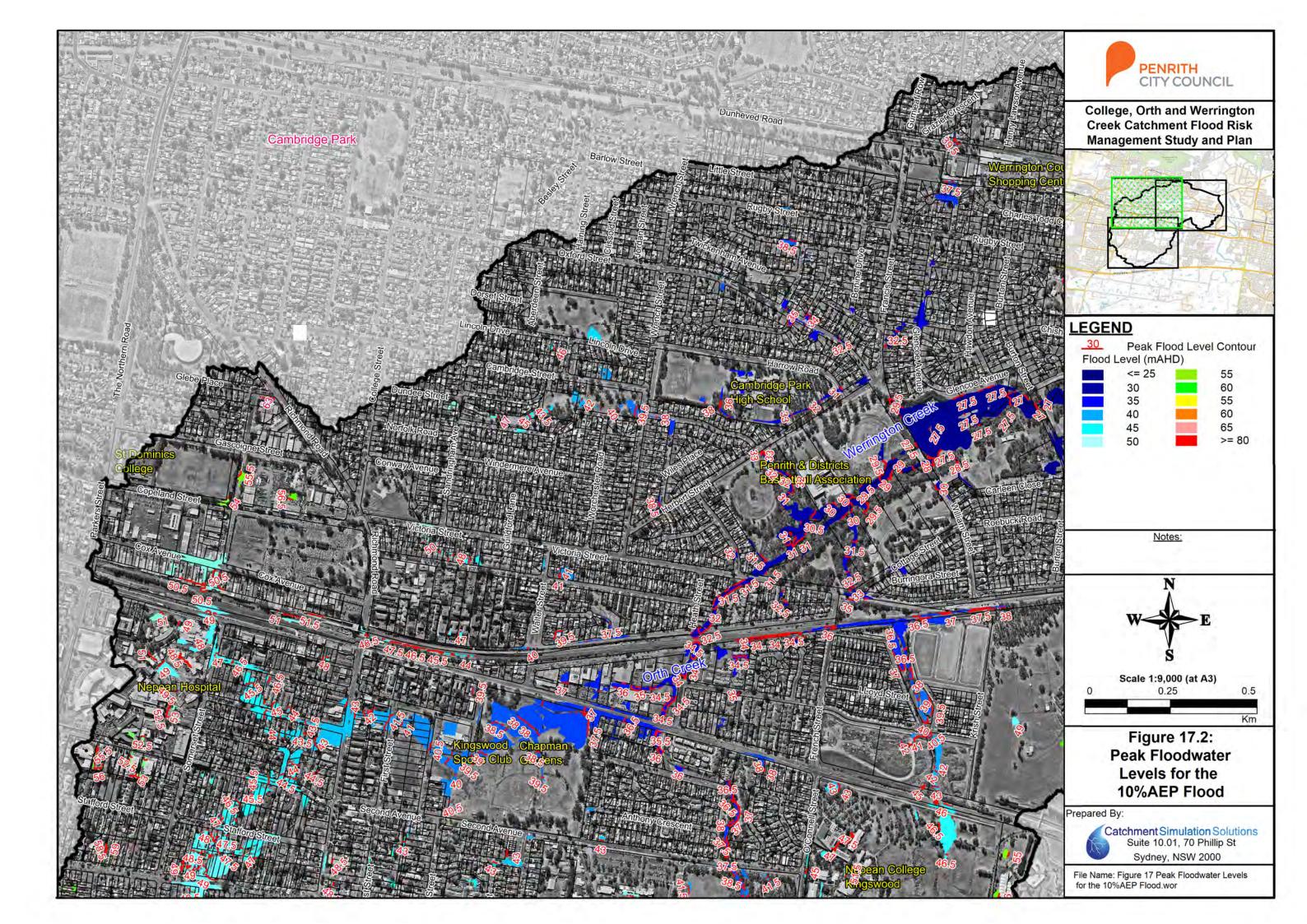


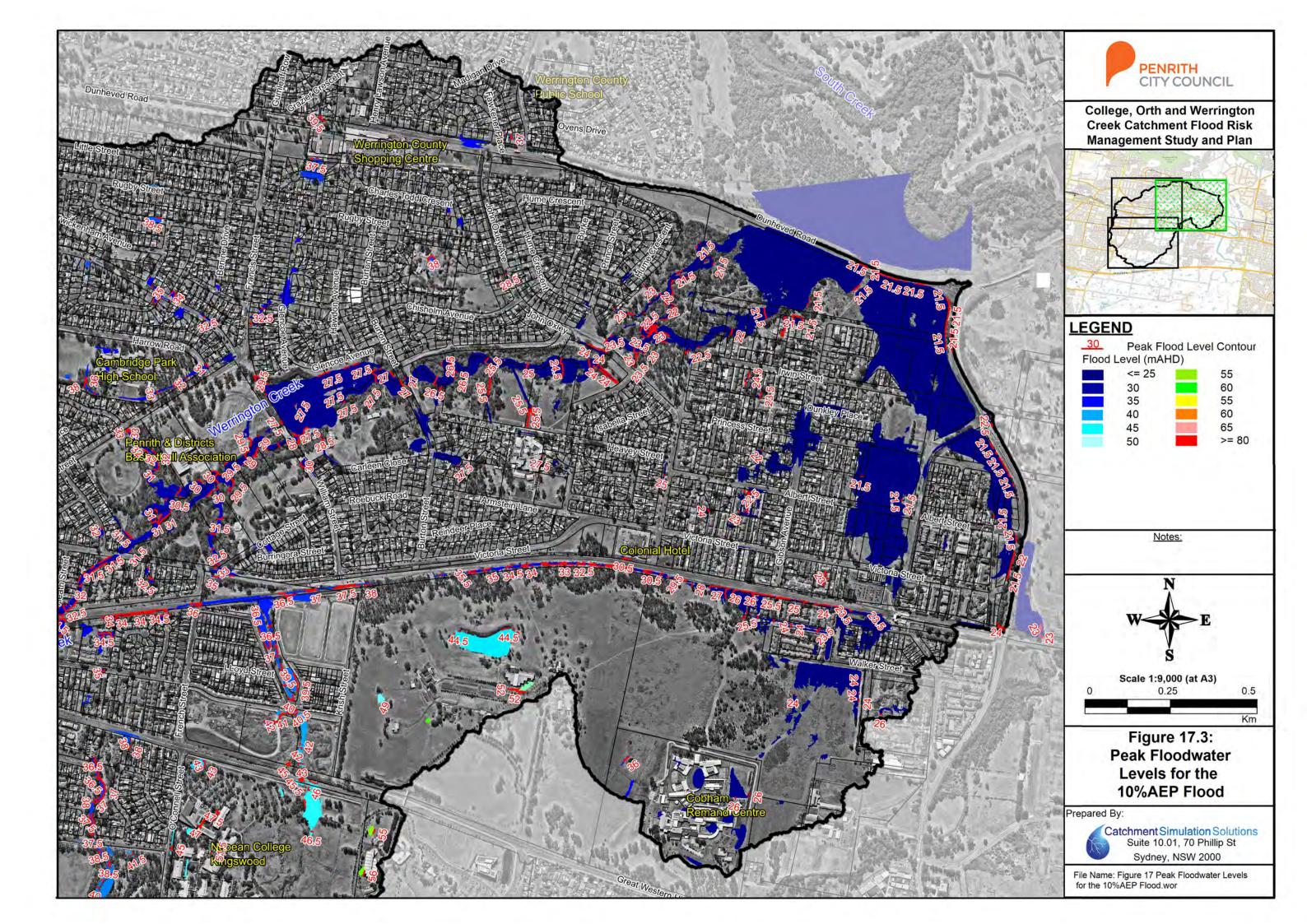


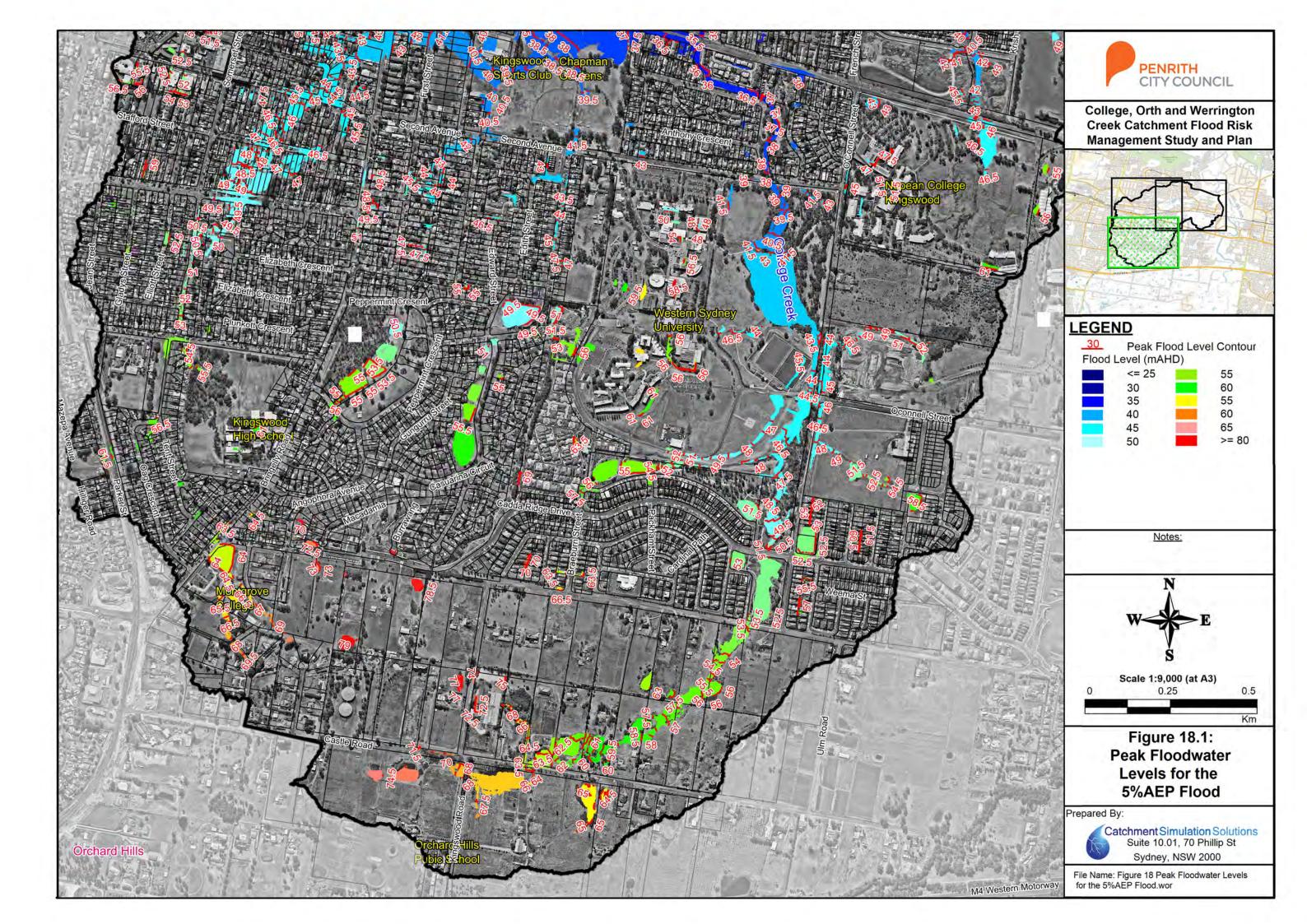


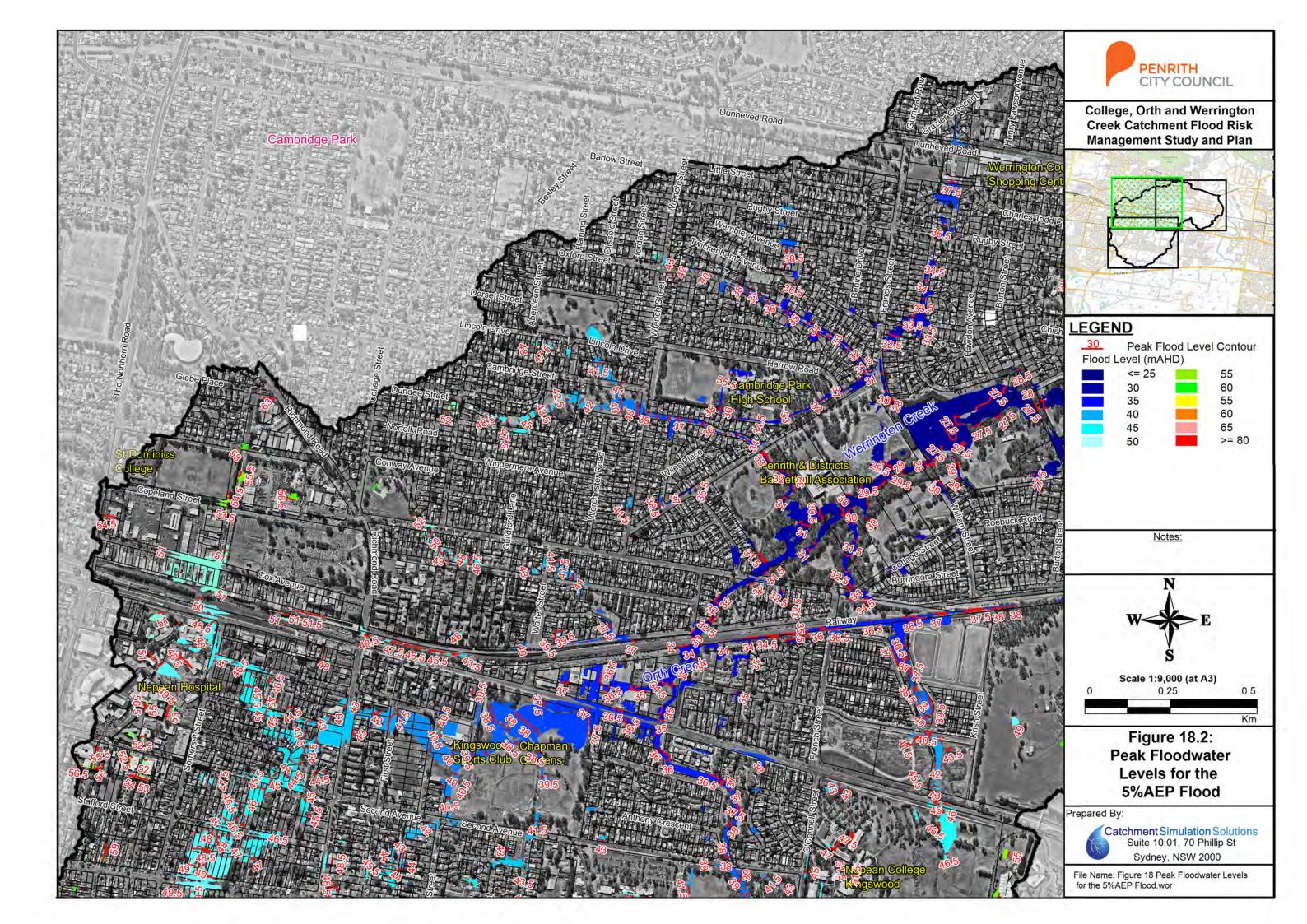


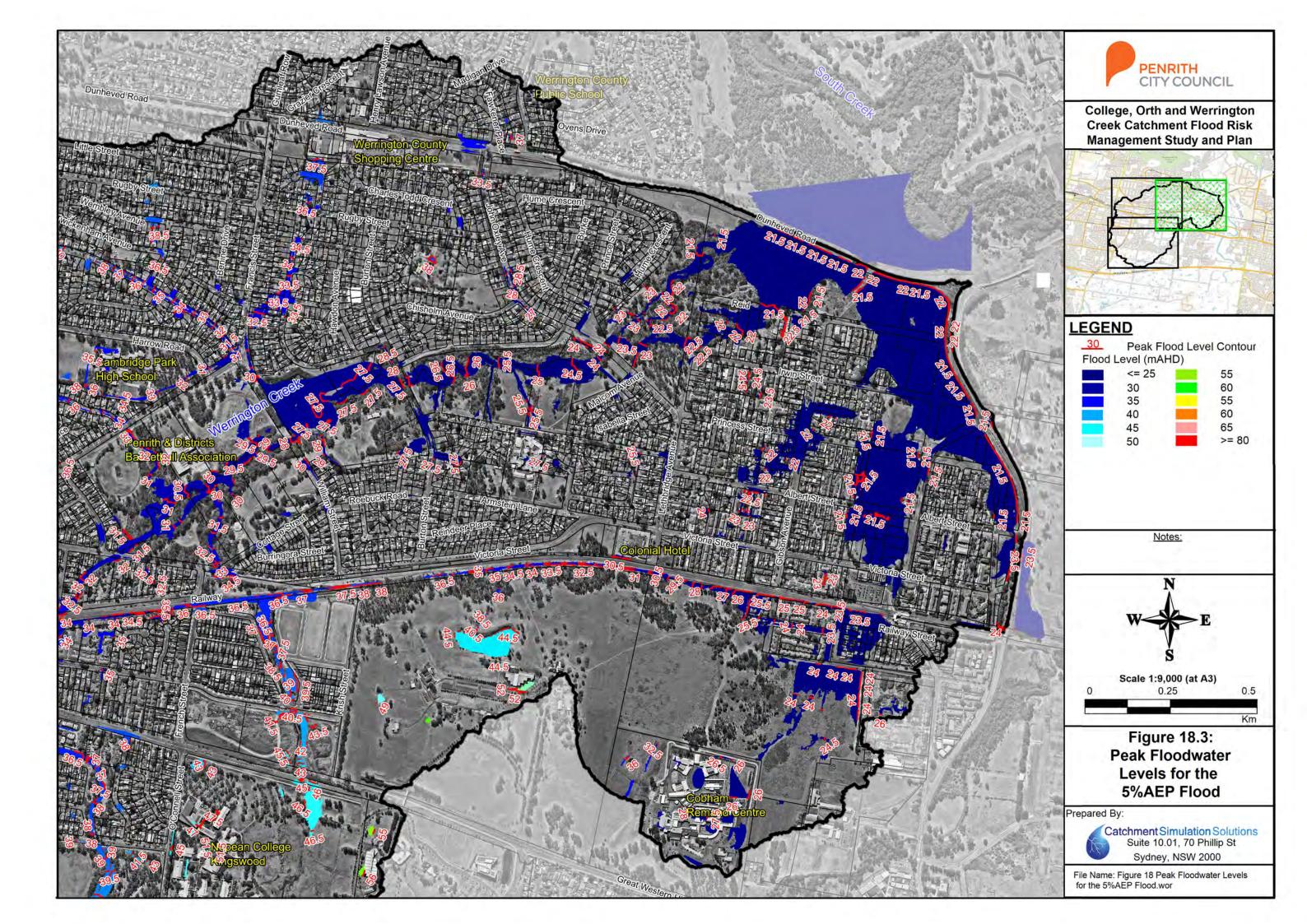


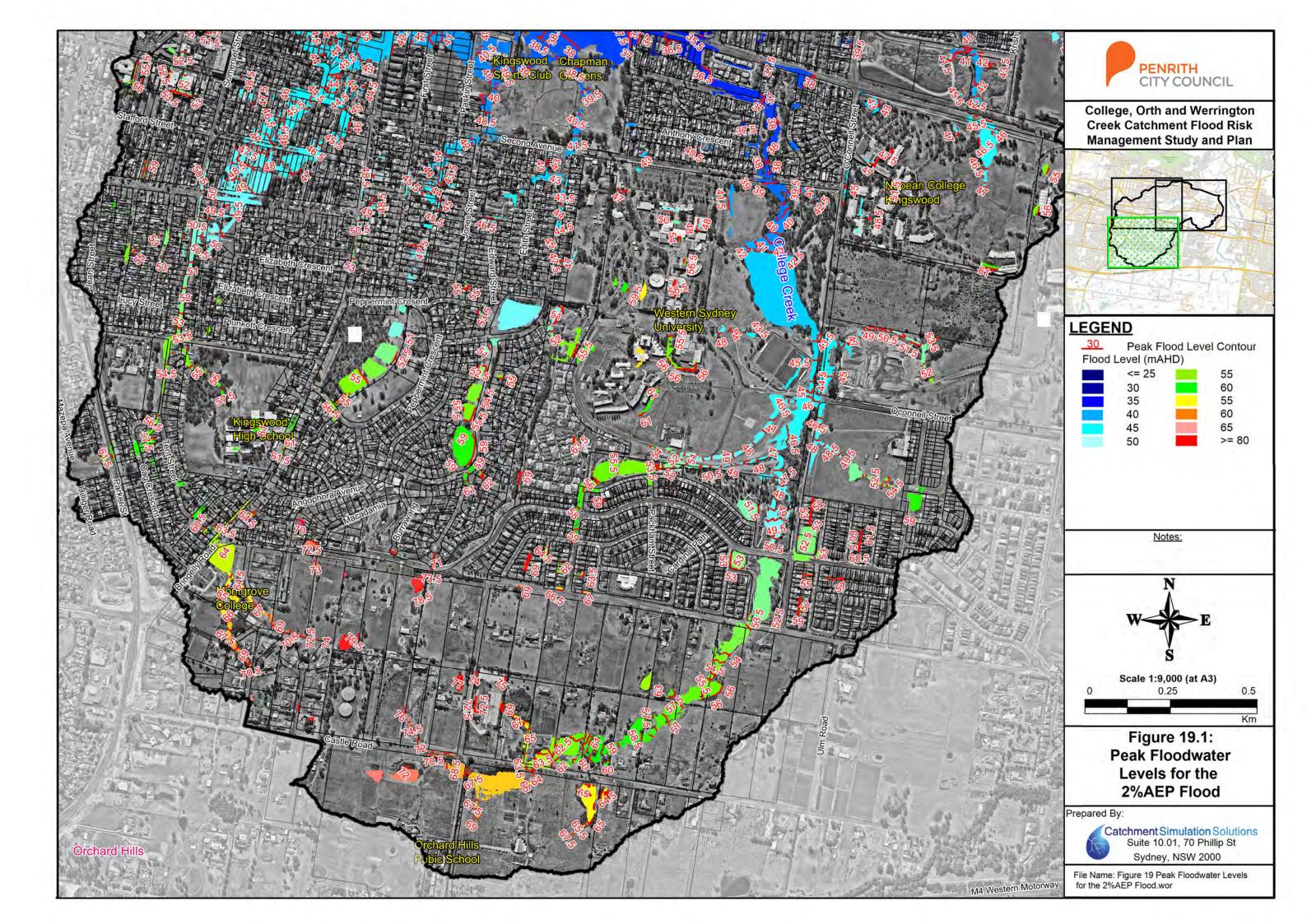


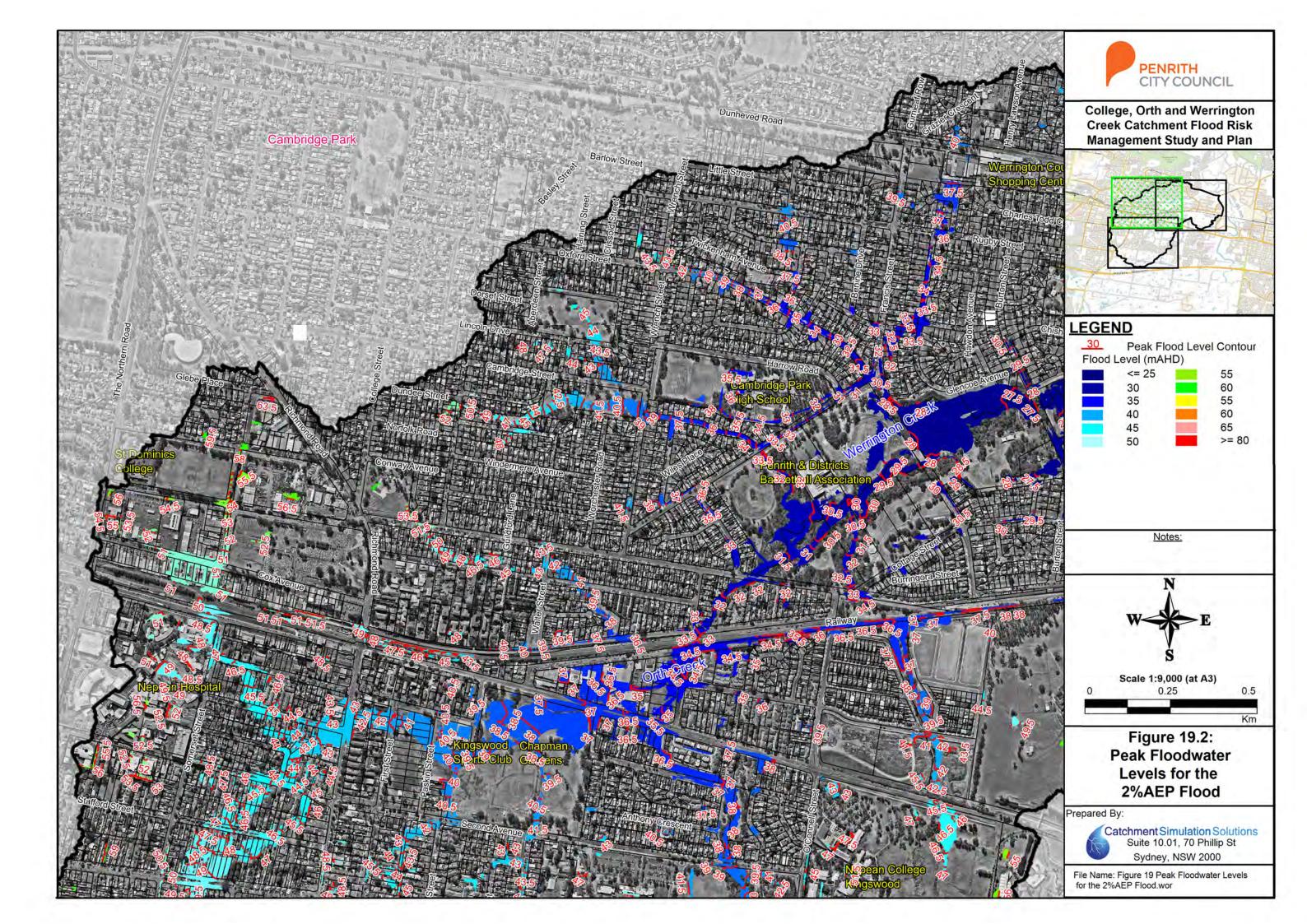


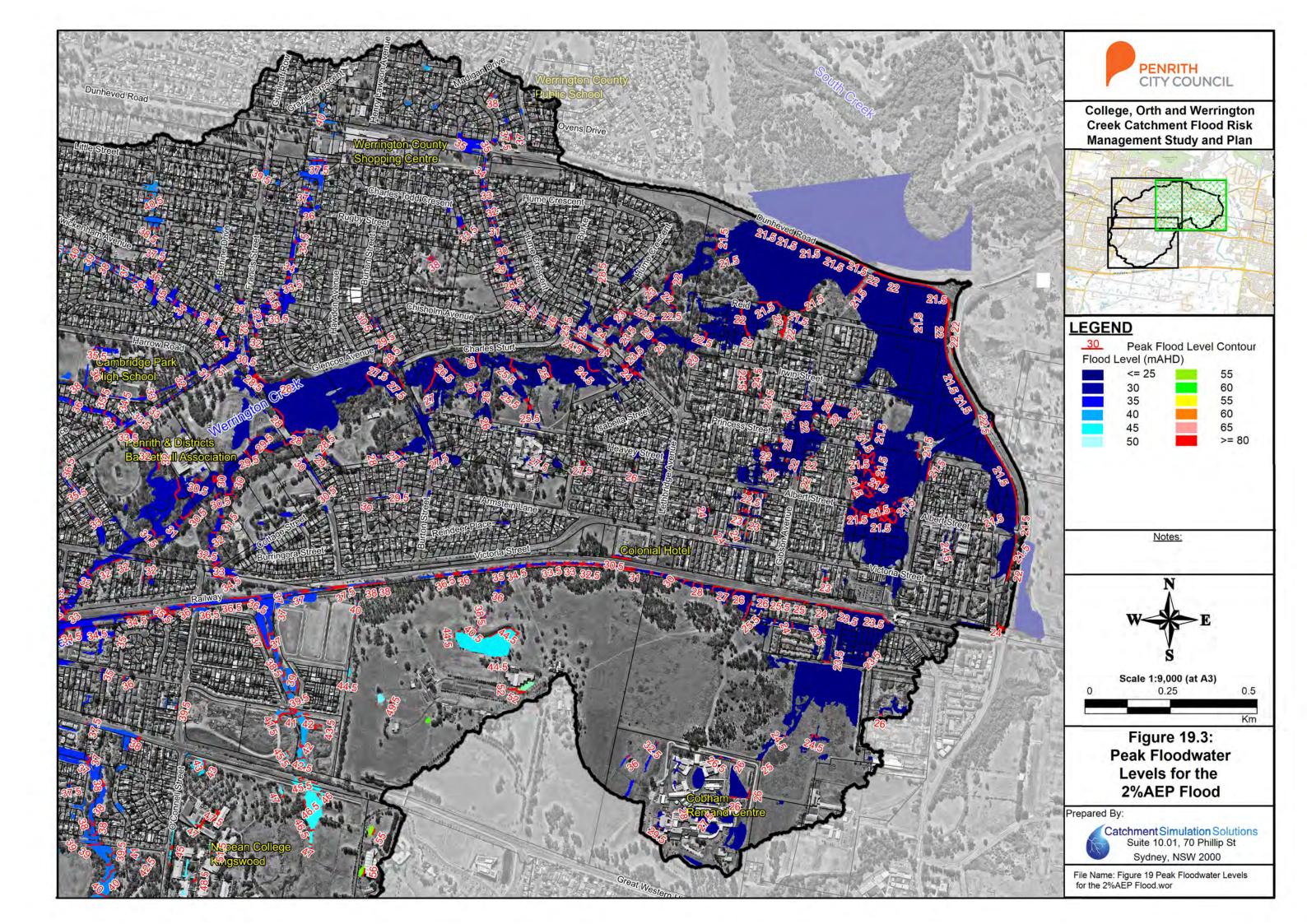


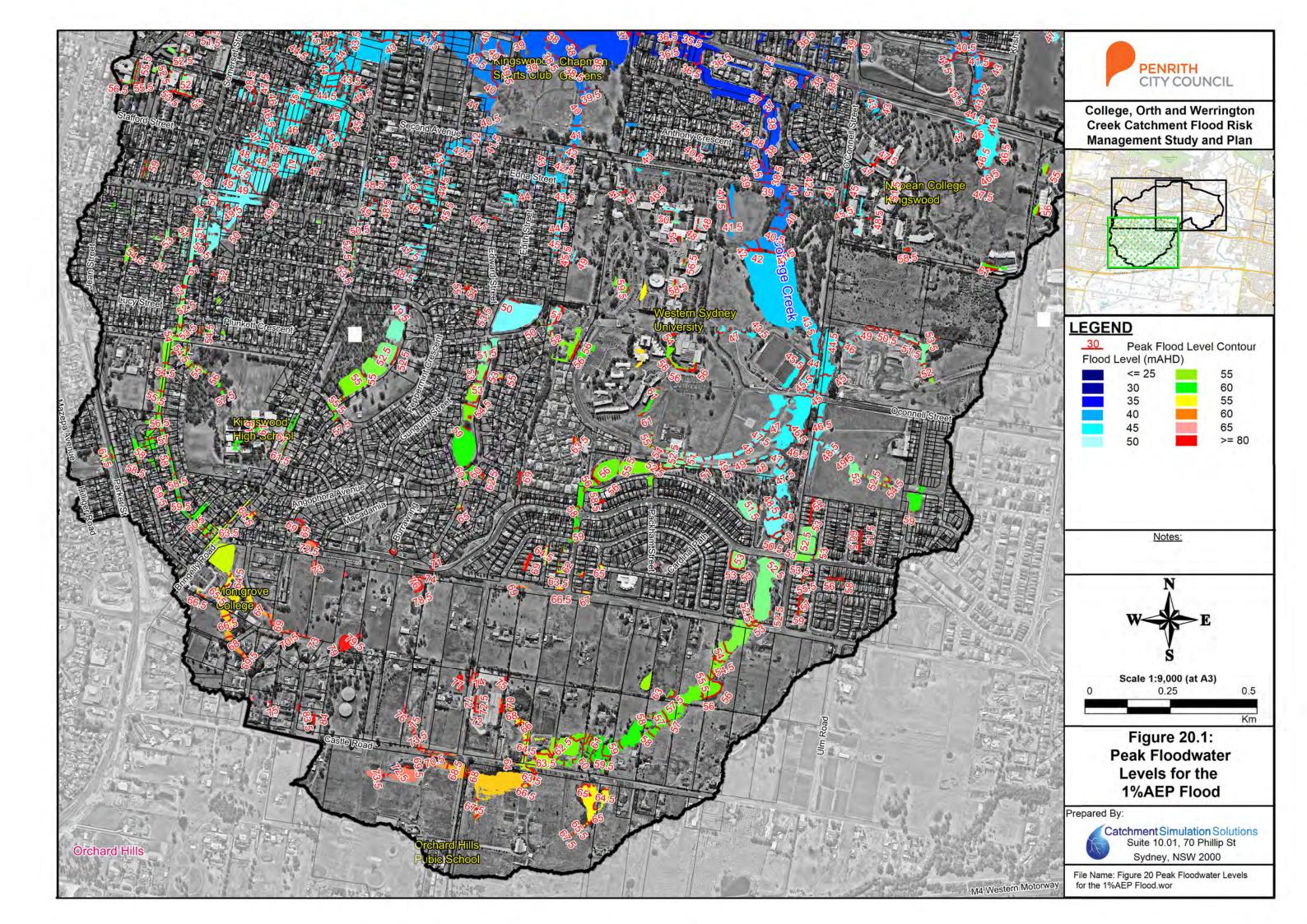


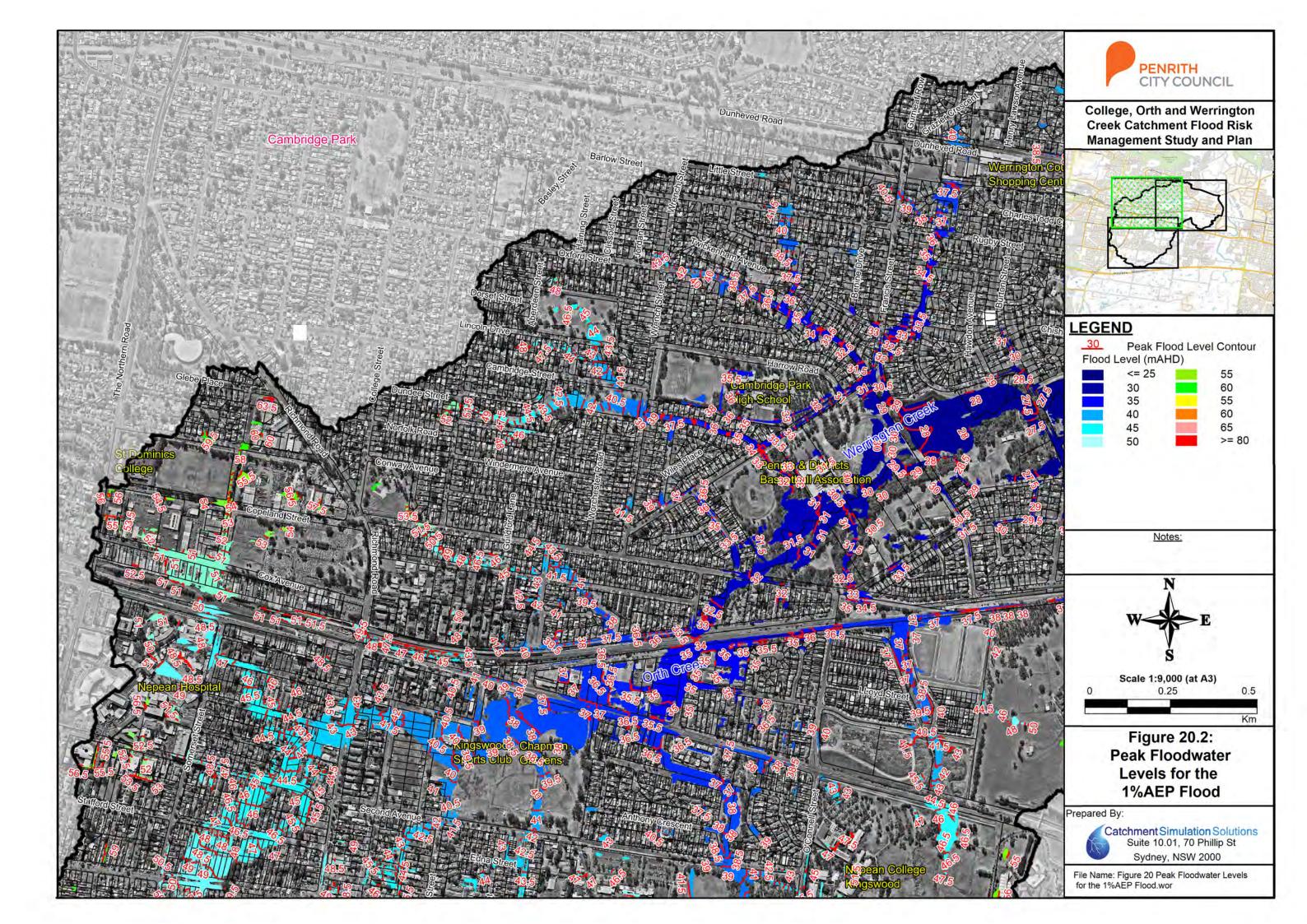


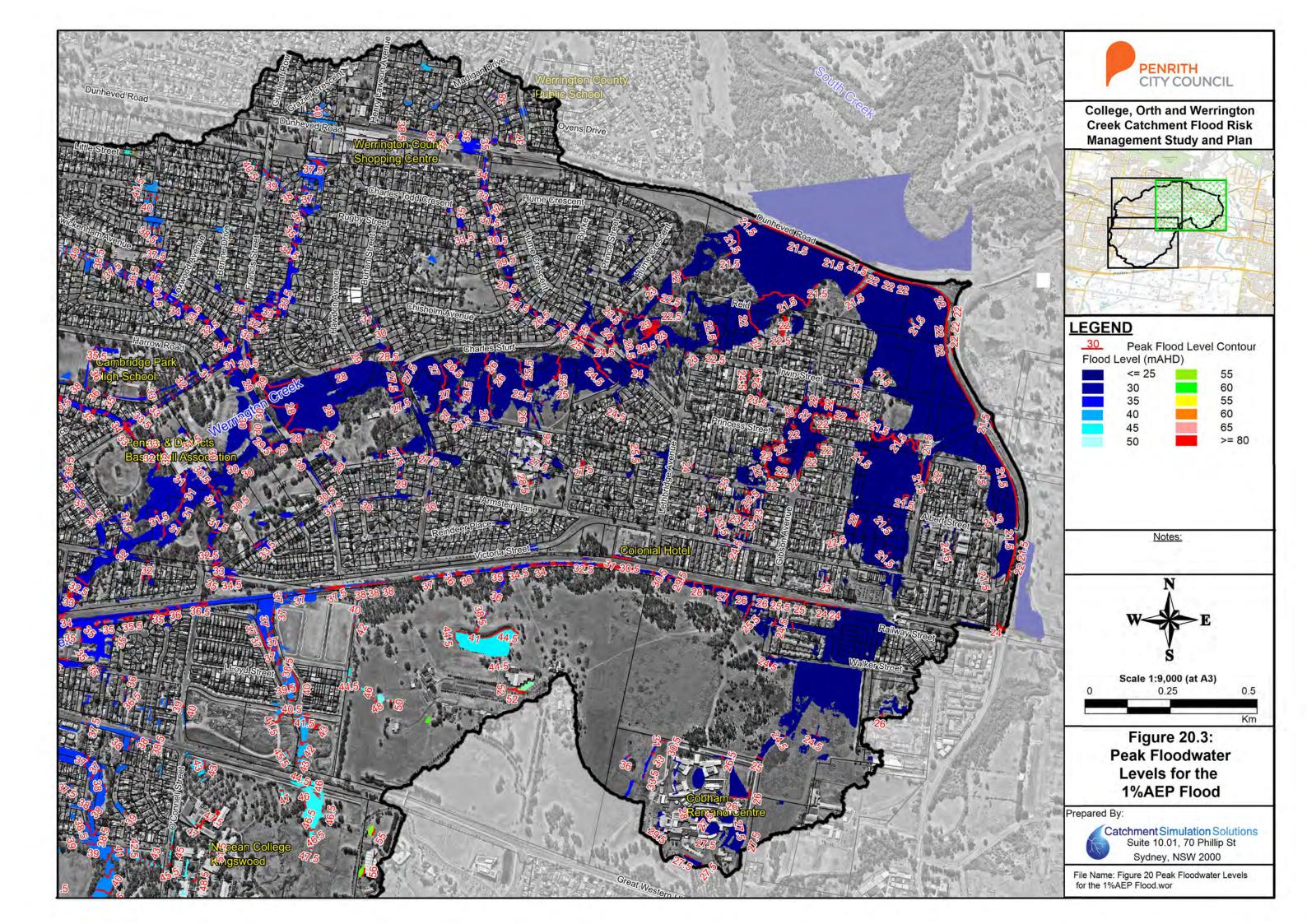


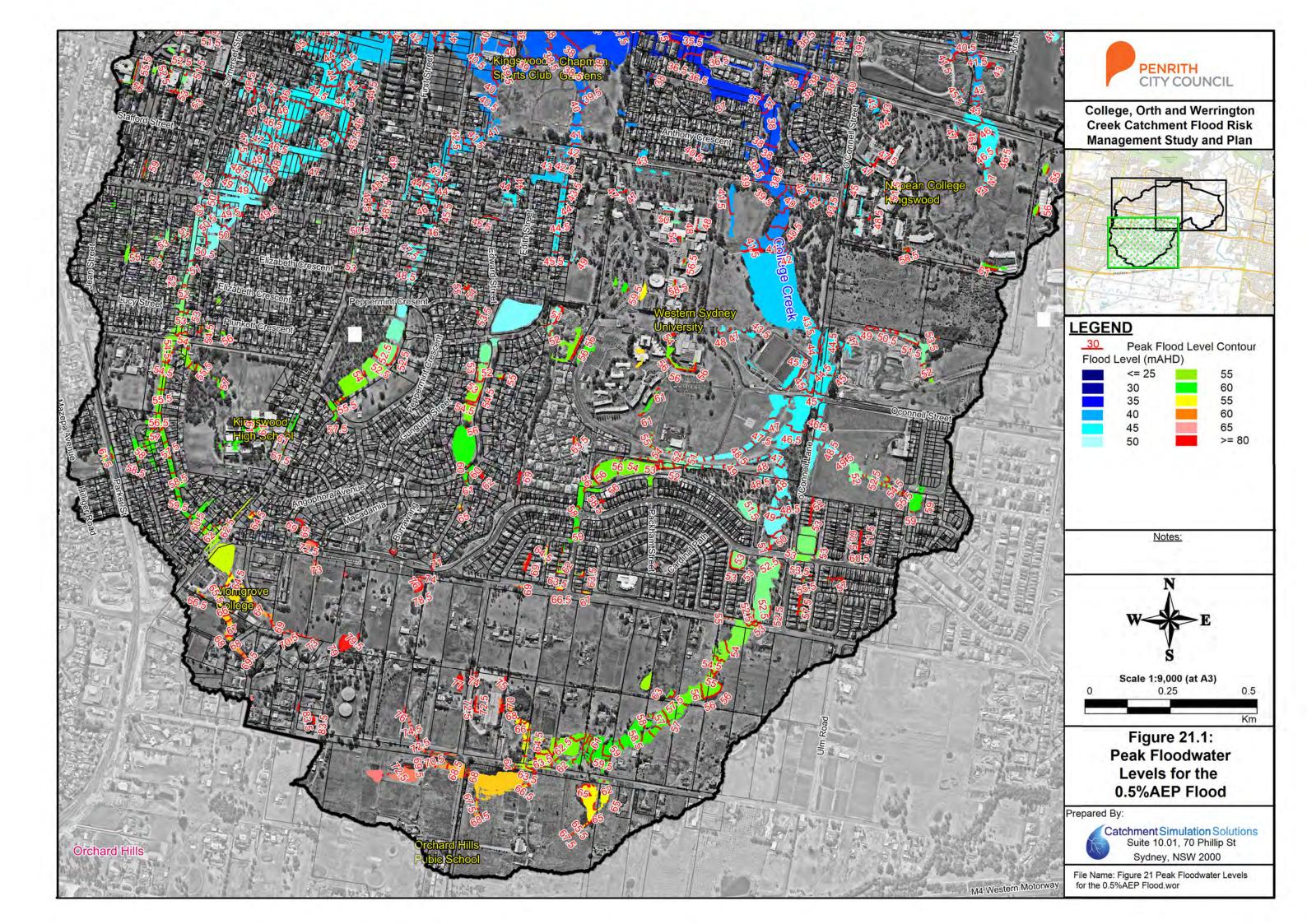


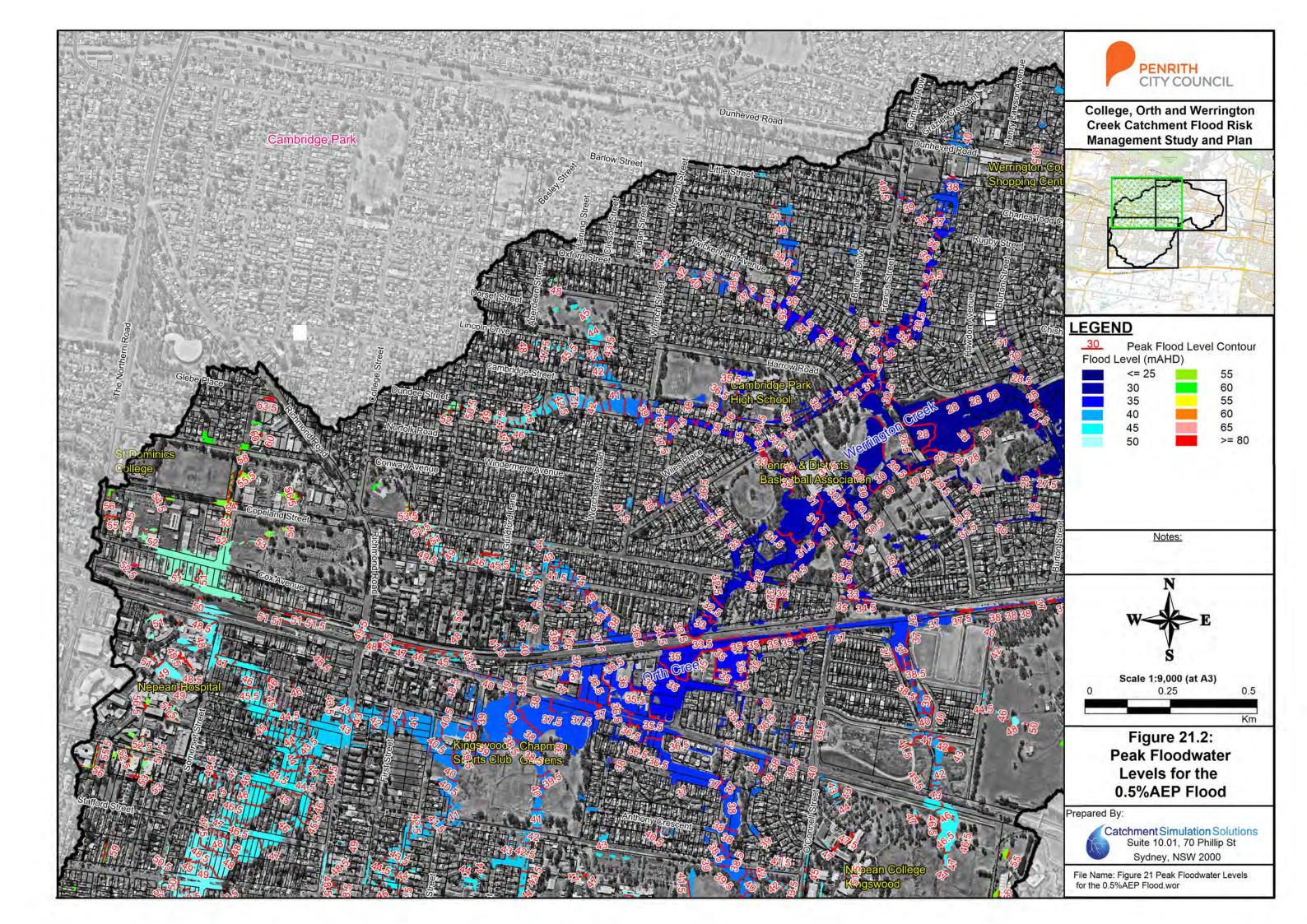


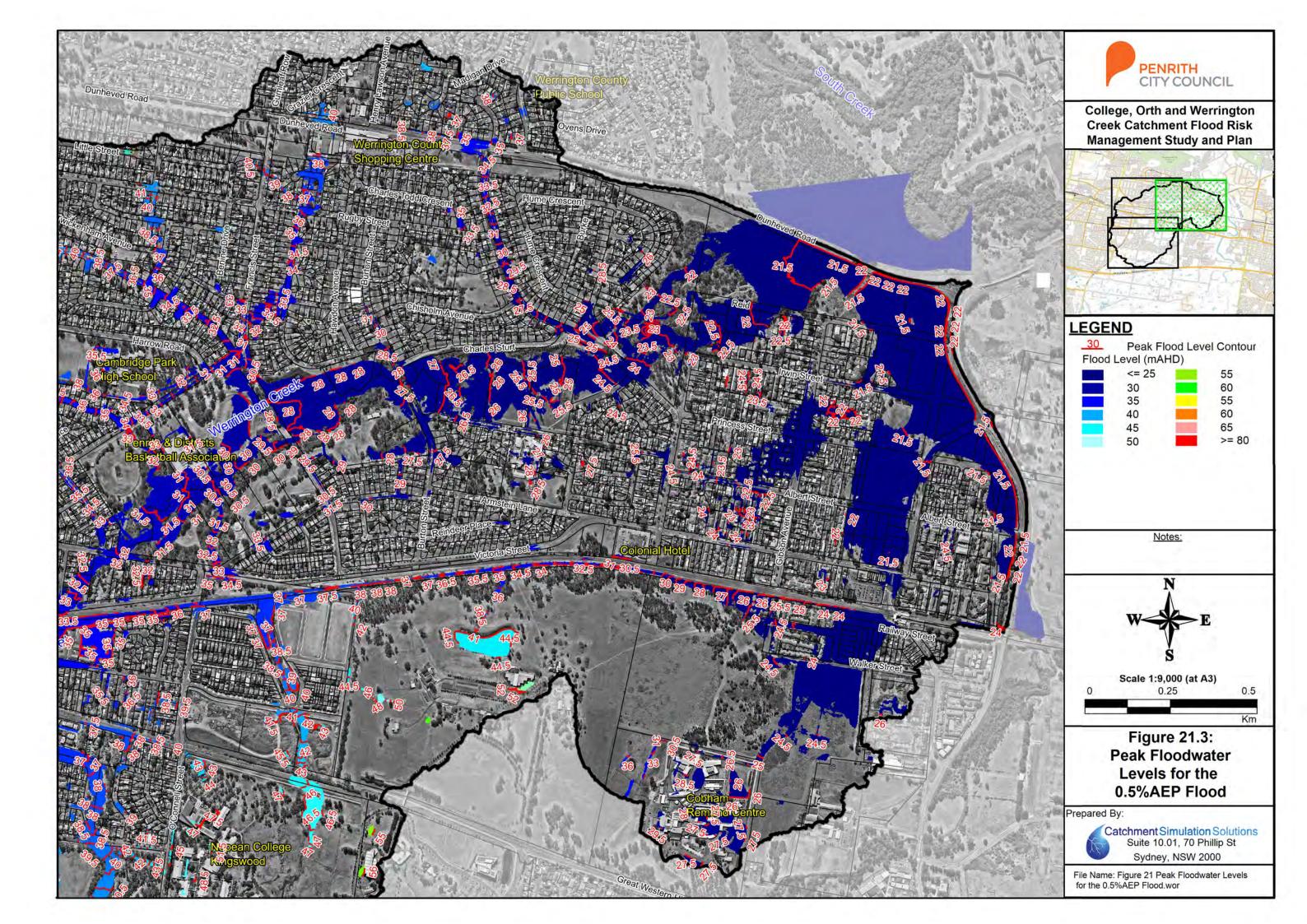


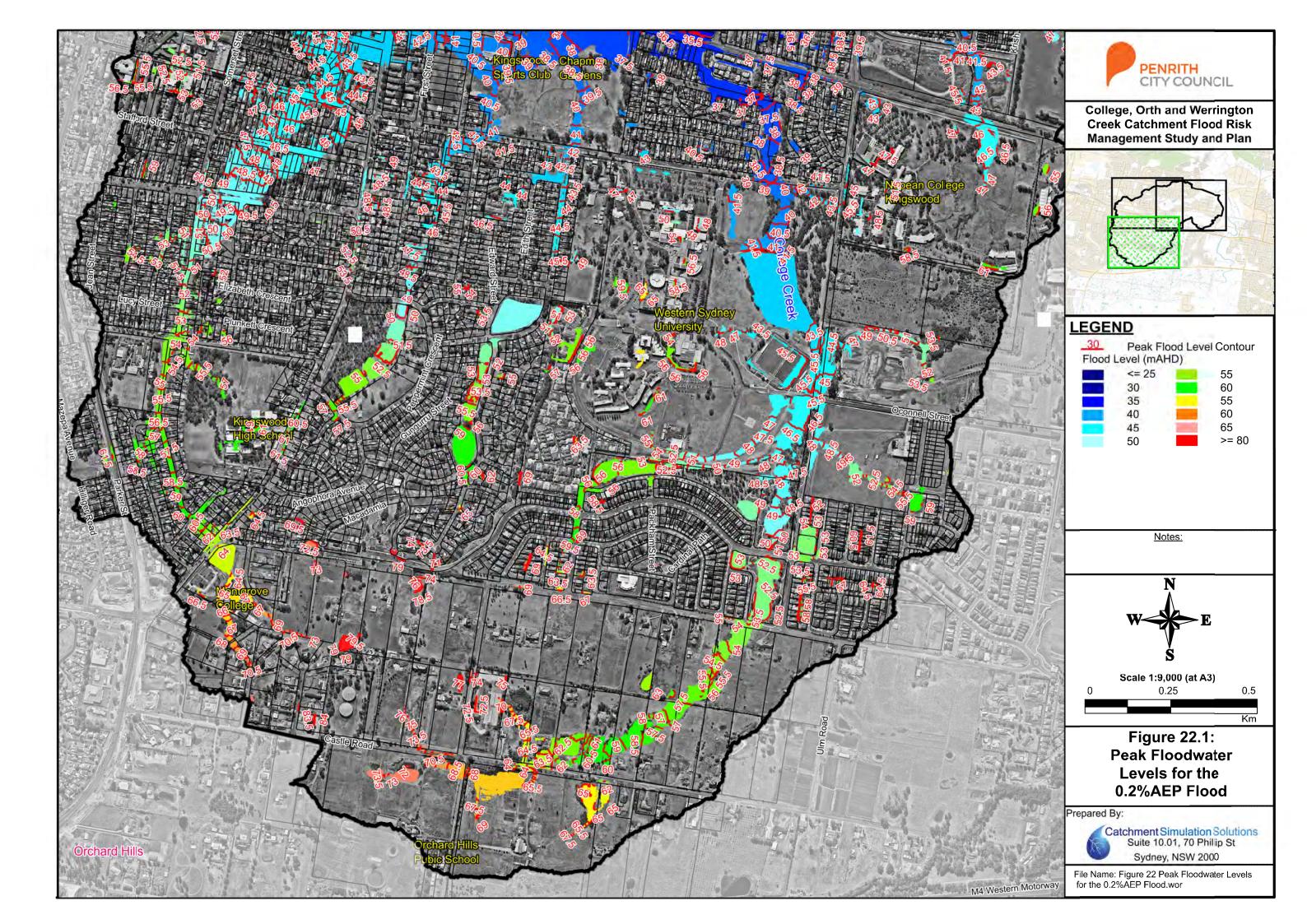


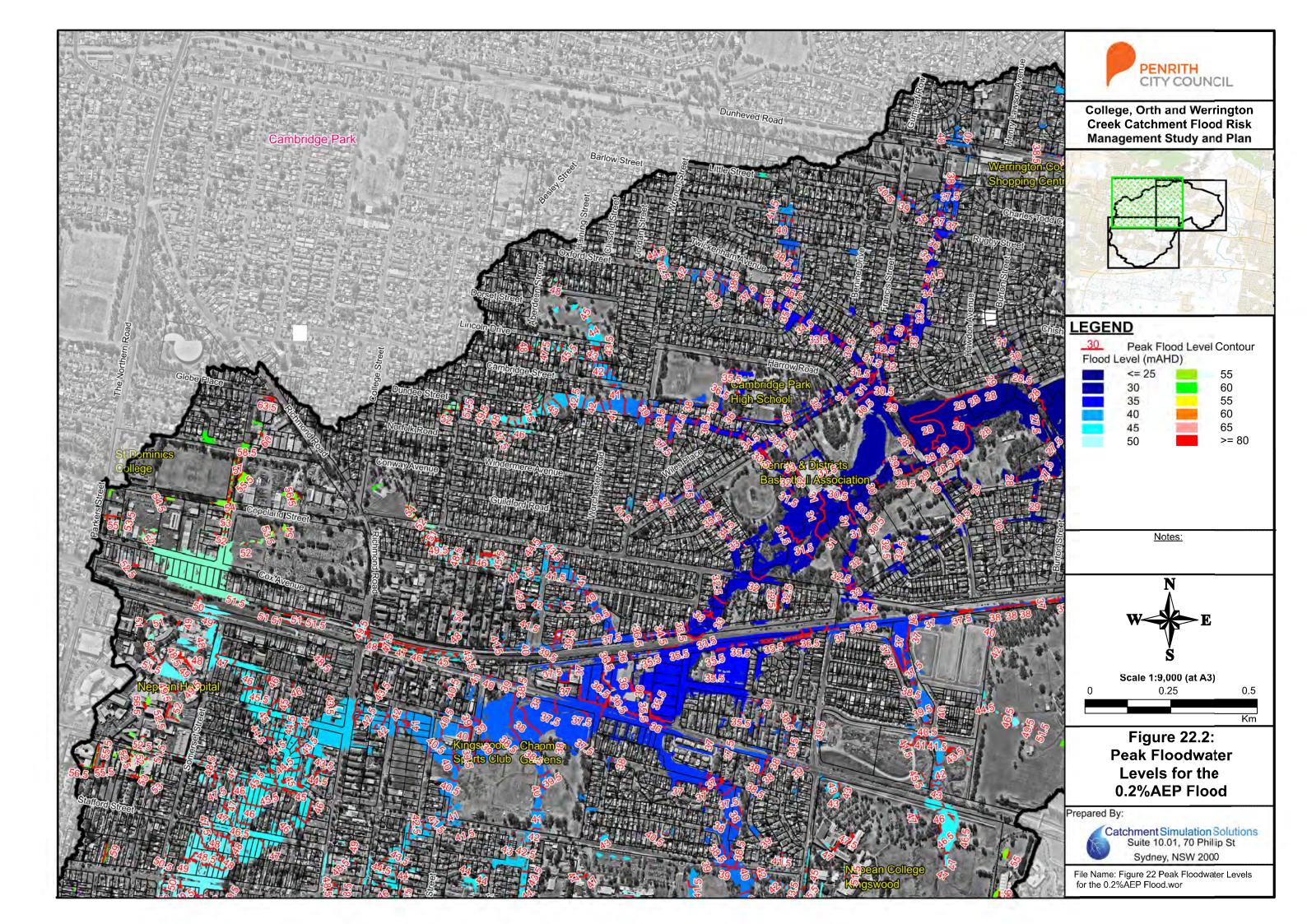


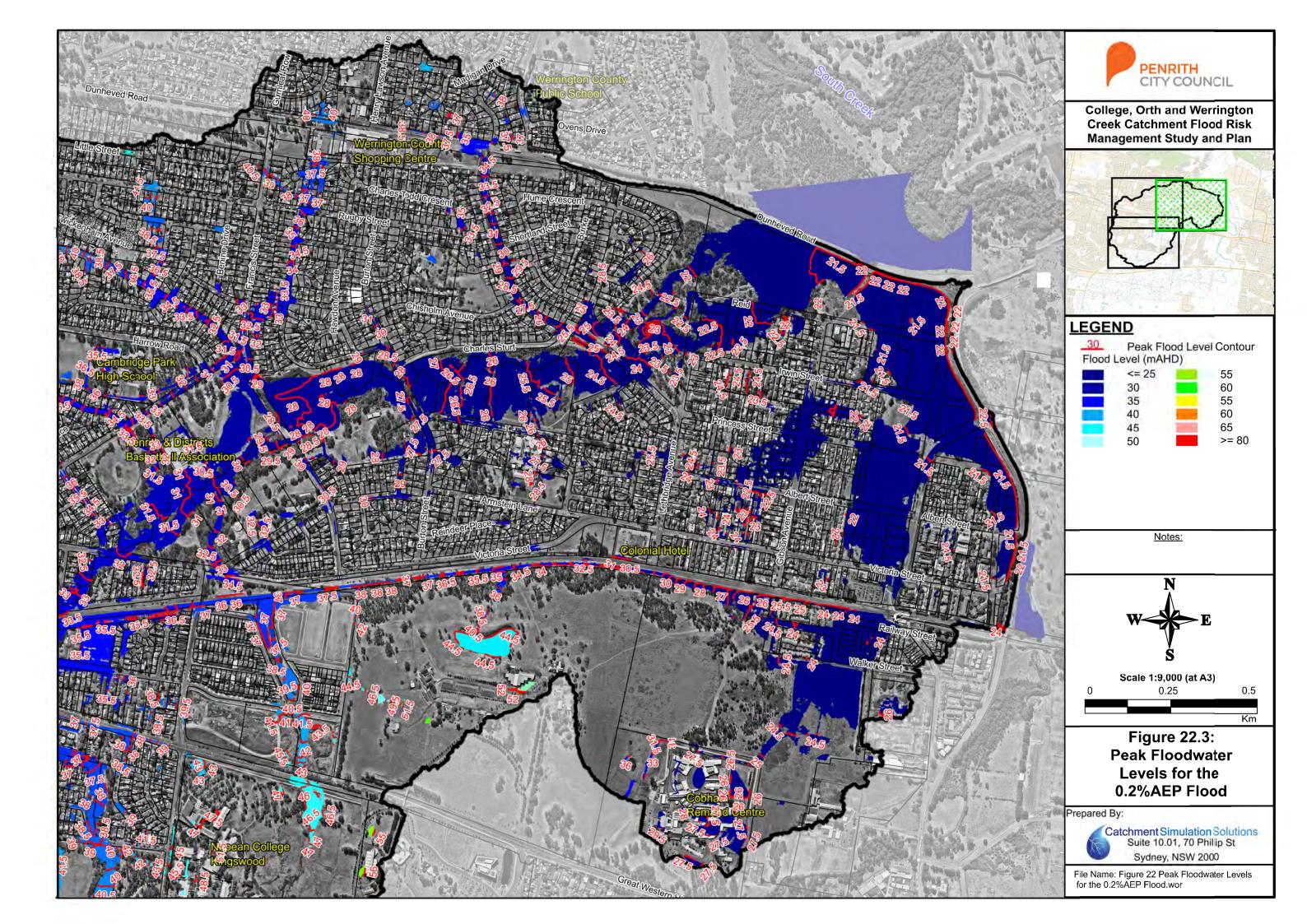


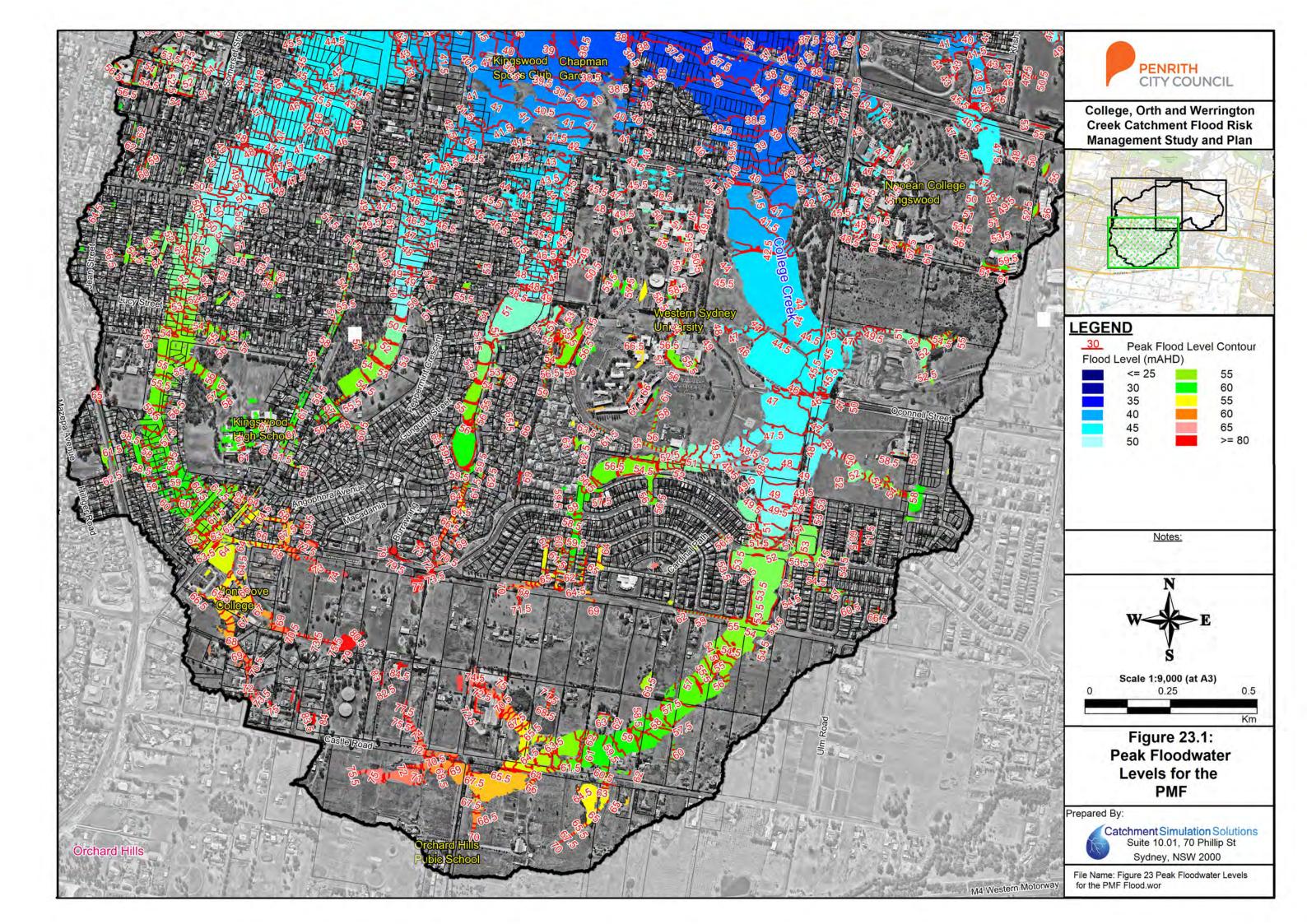


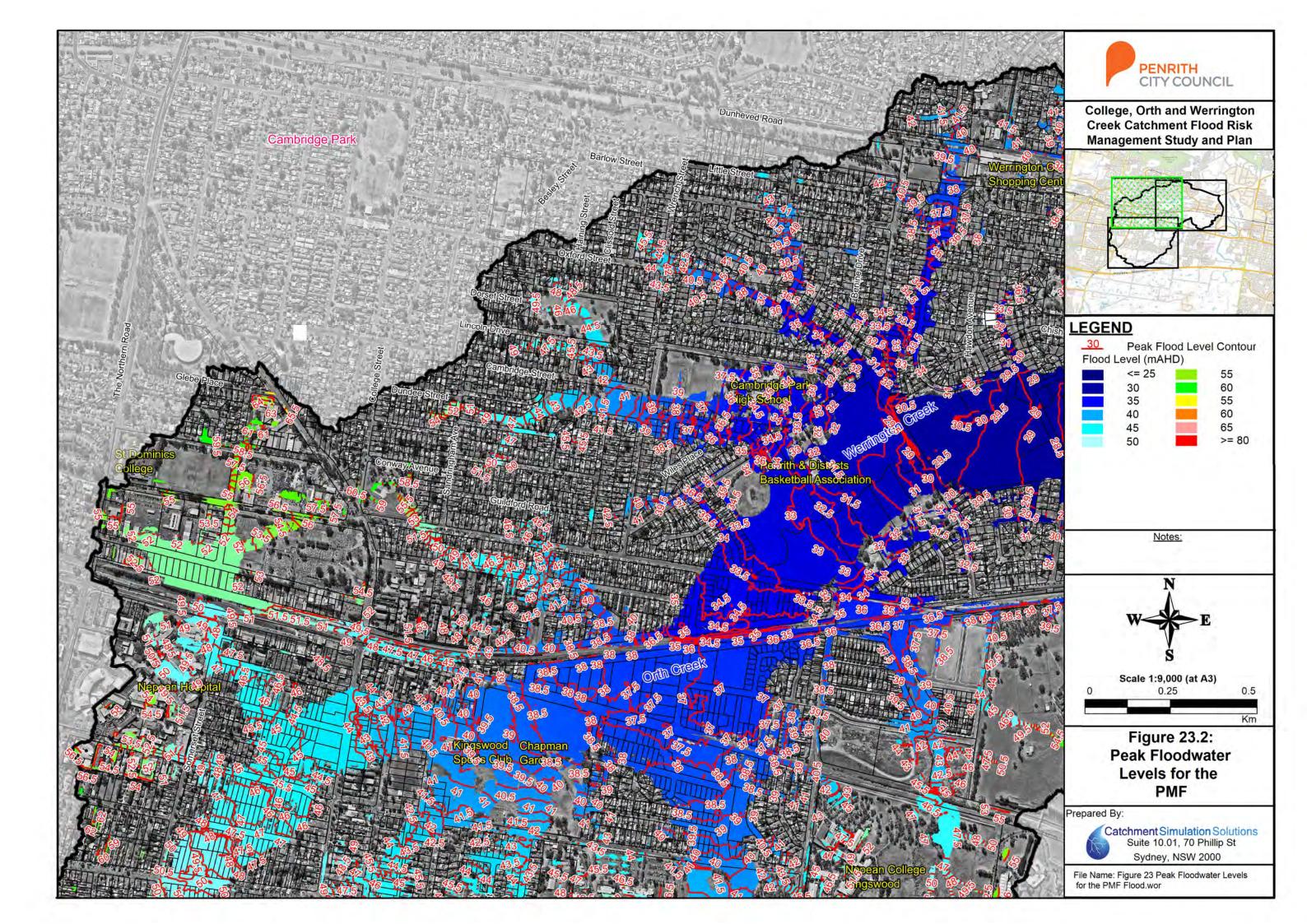


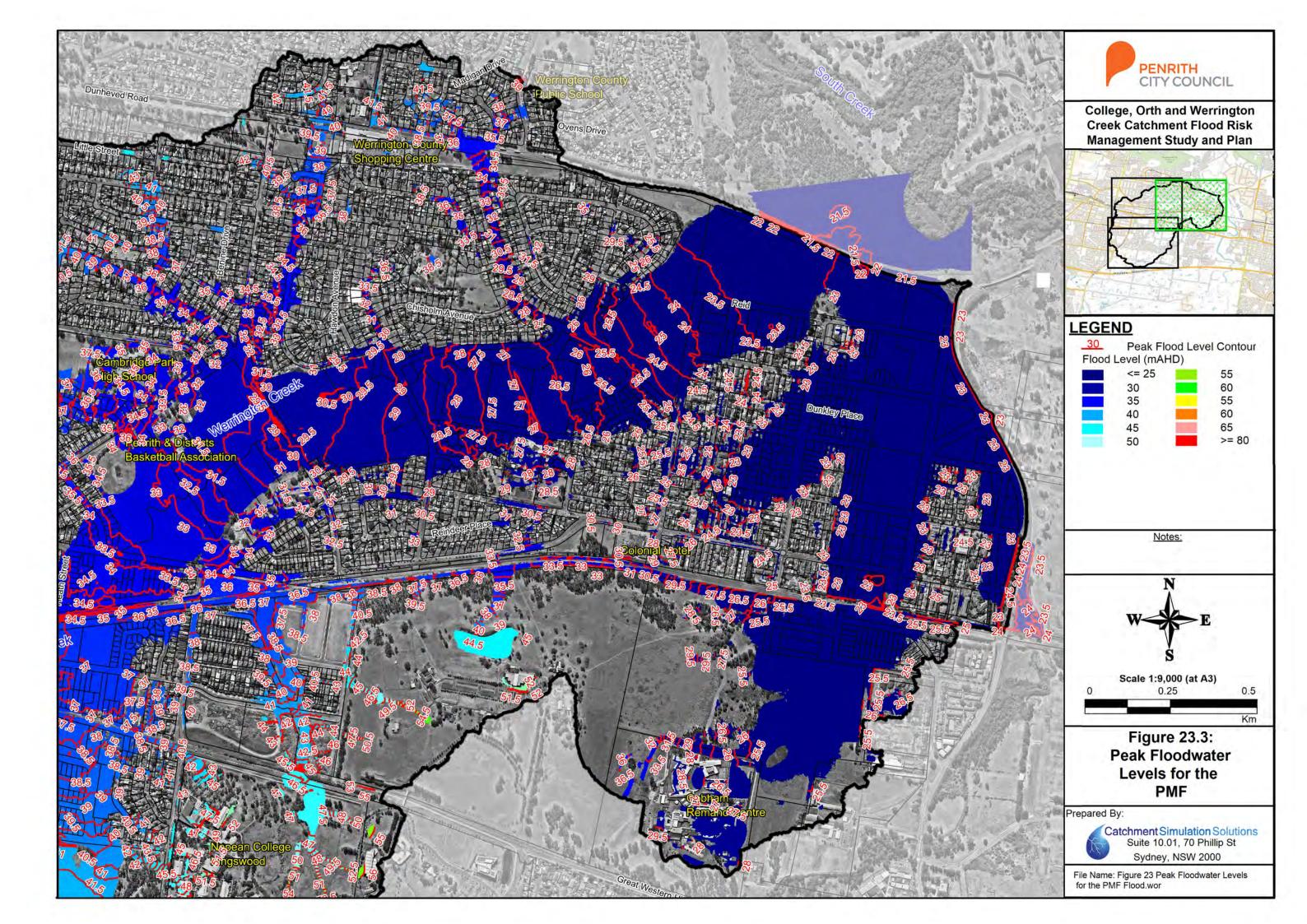


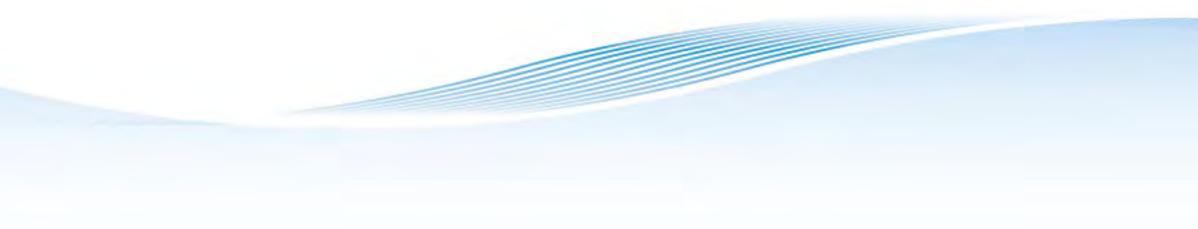








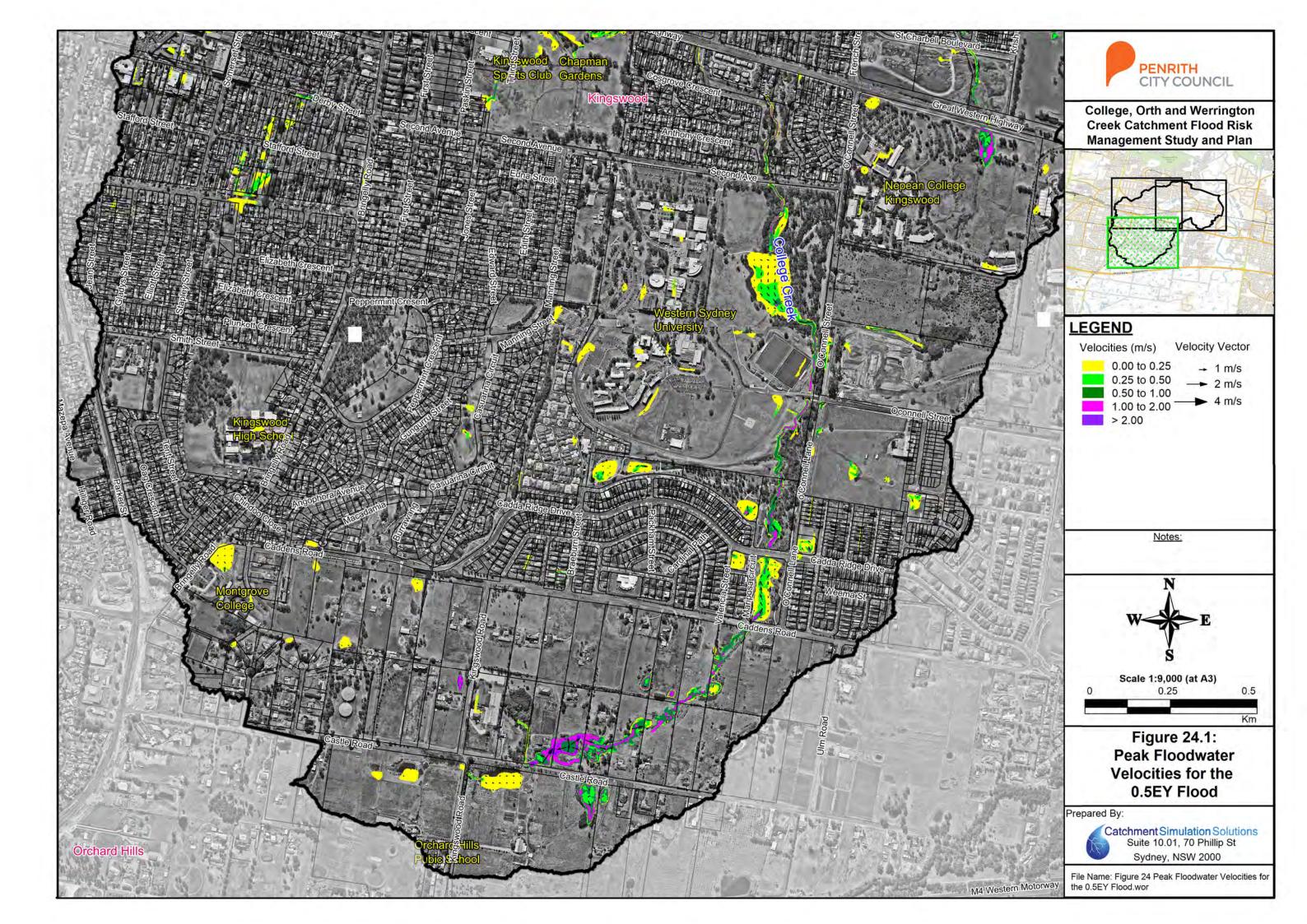


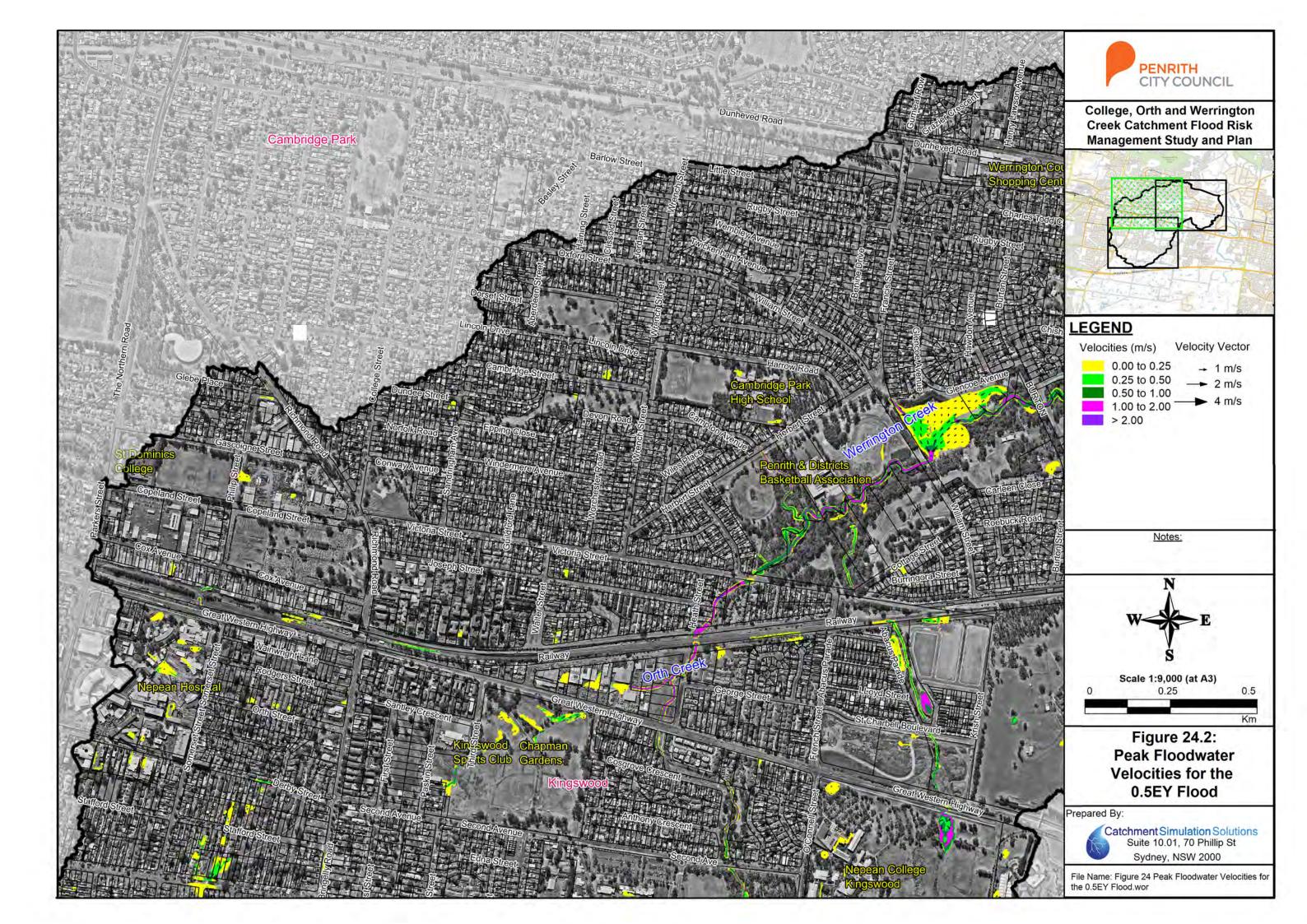


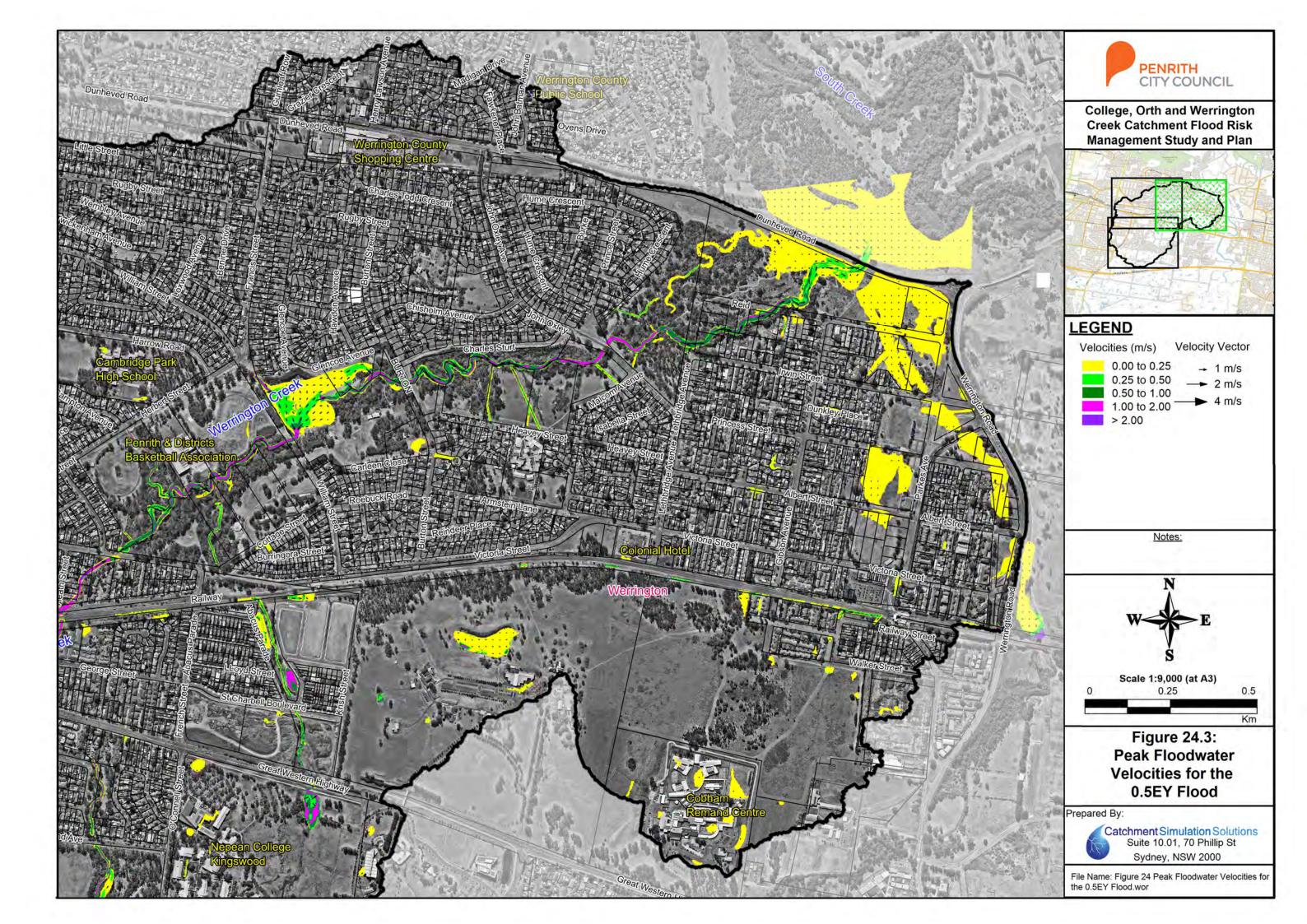
FLOODWATER VELOCITY MAPS

Catchment Simulation Solutions

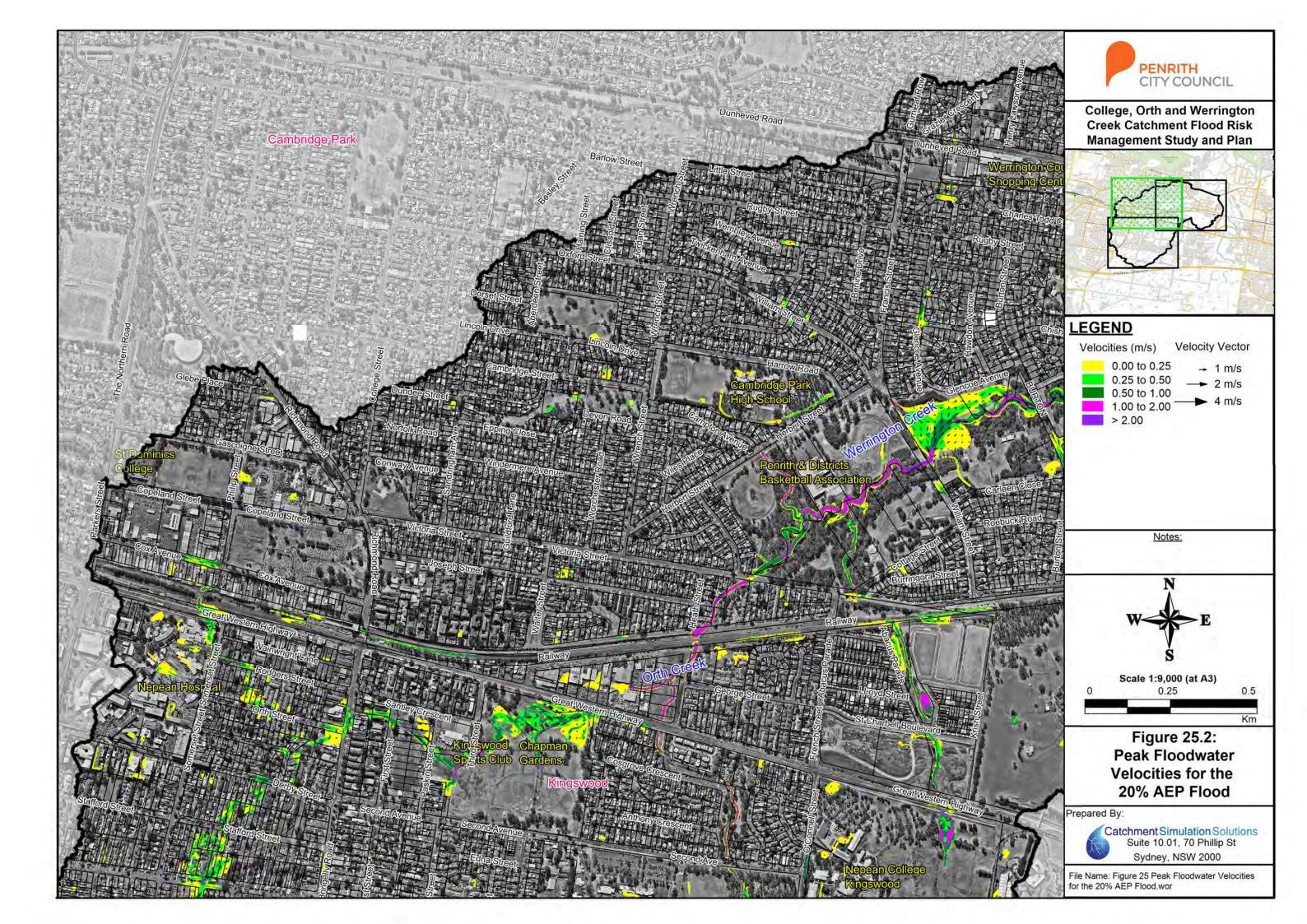


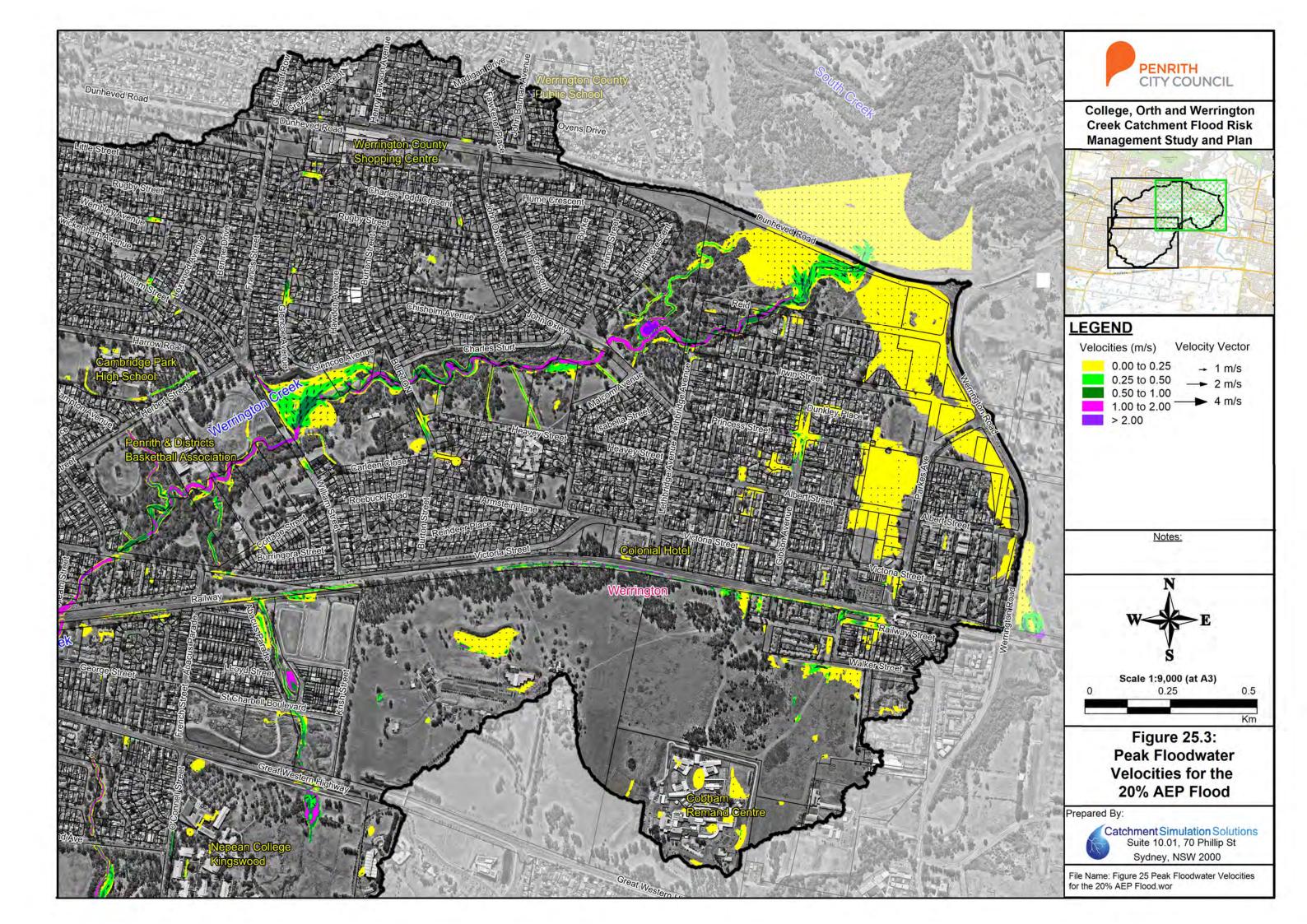


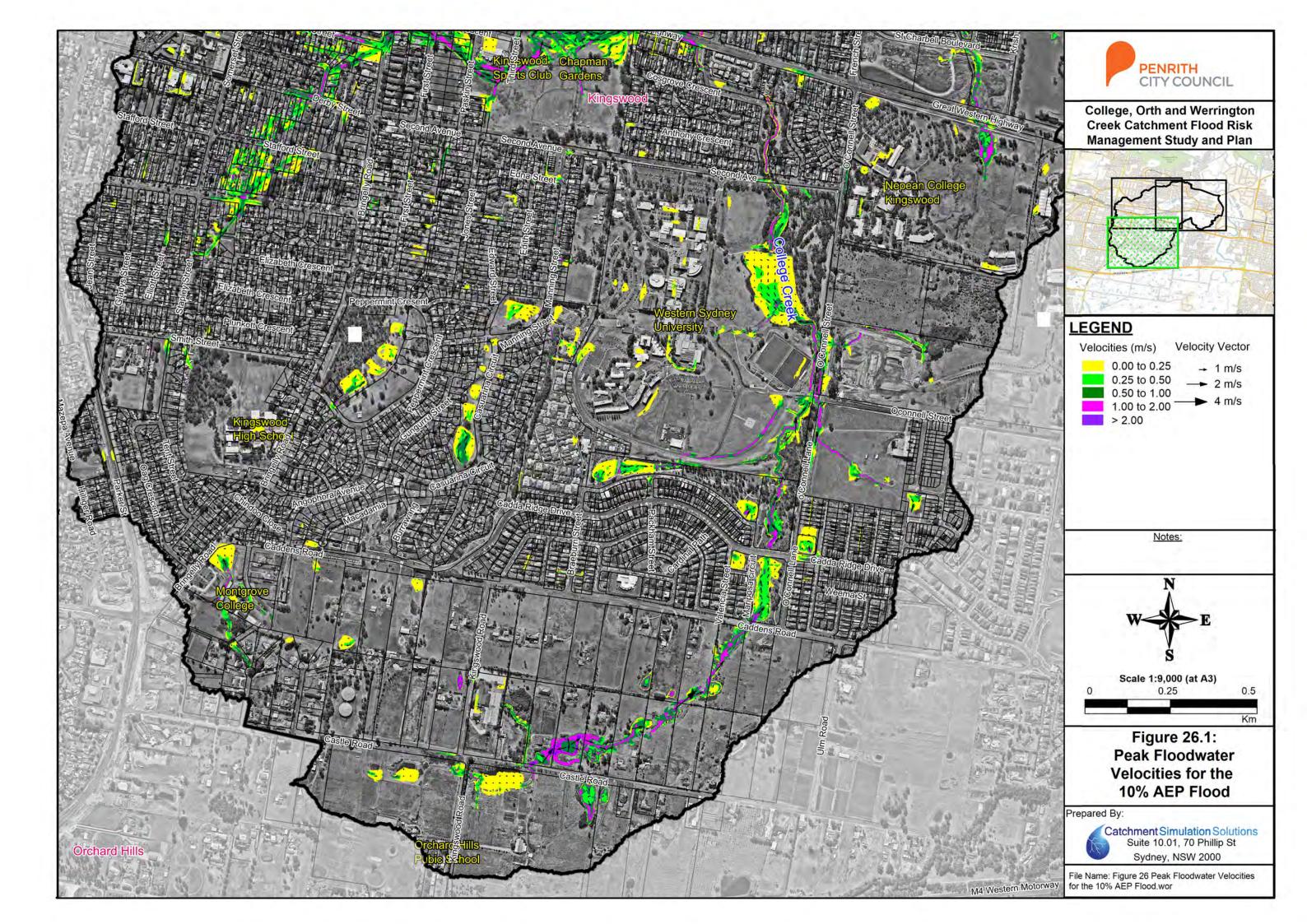


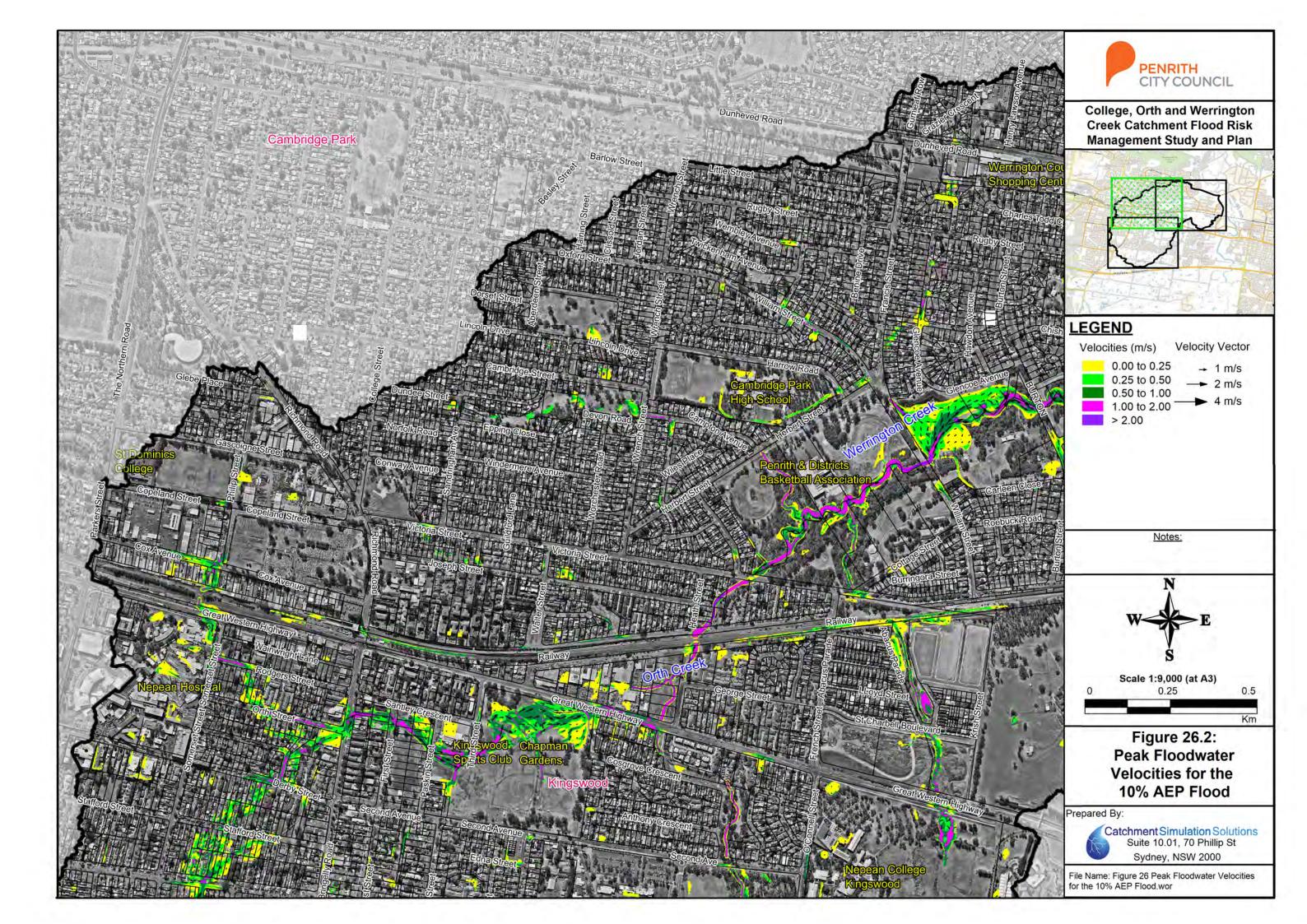


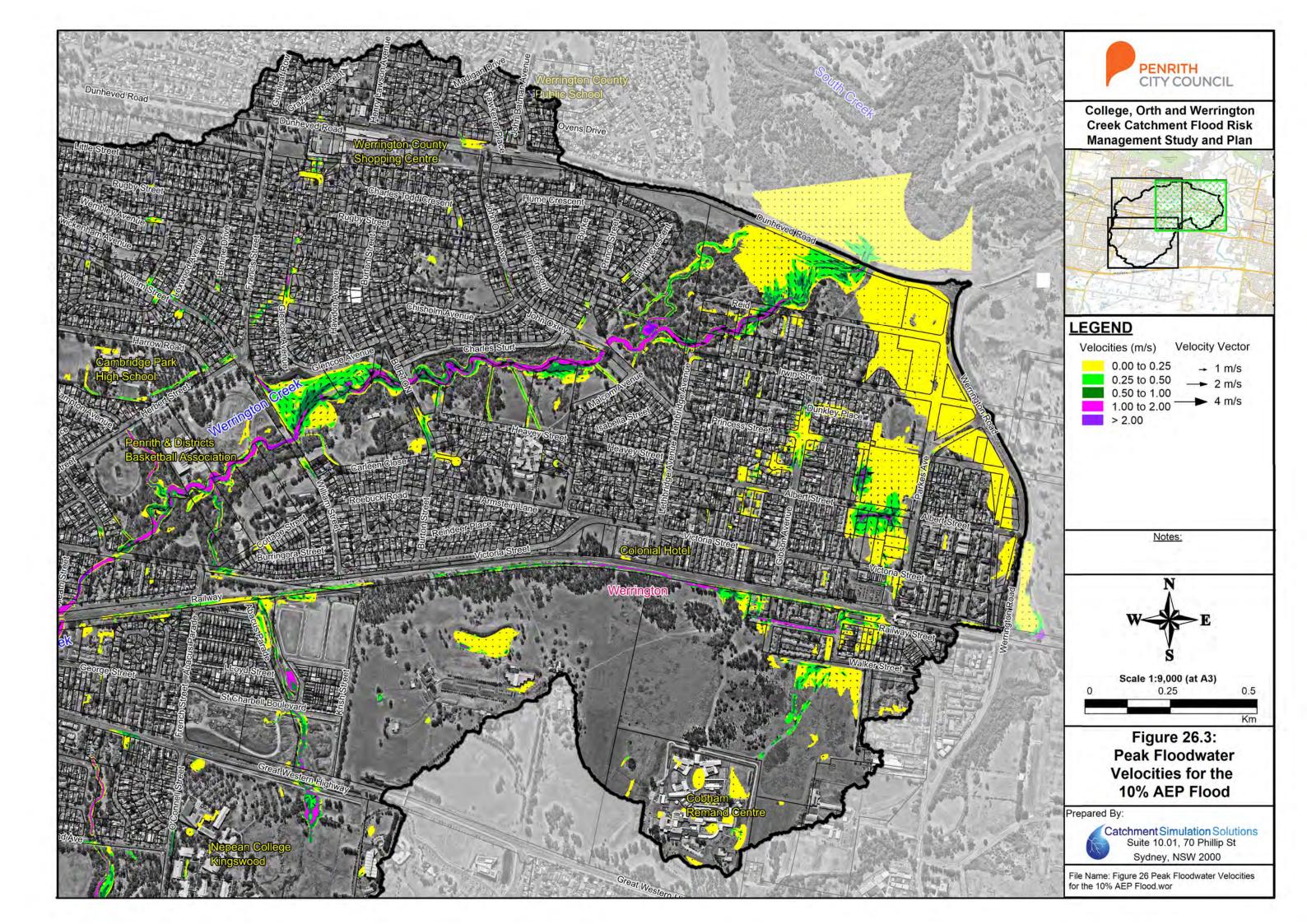


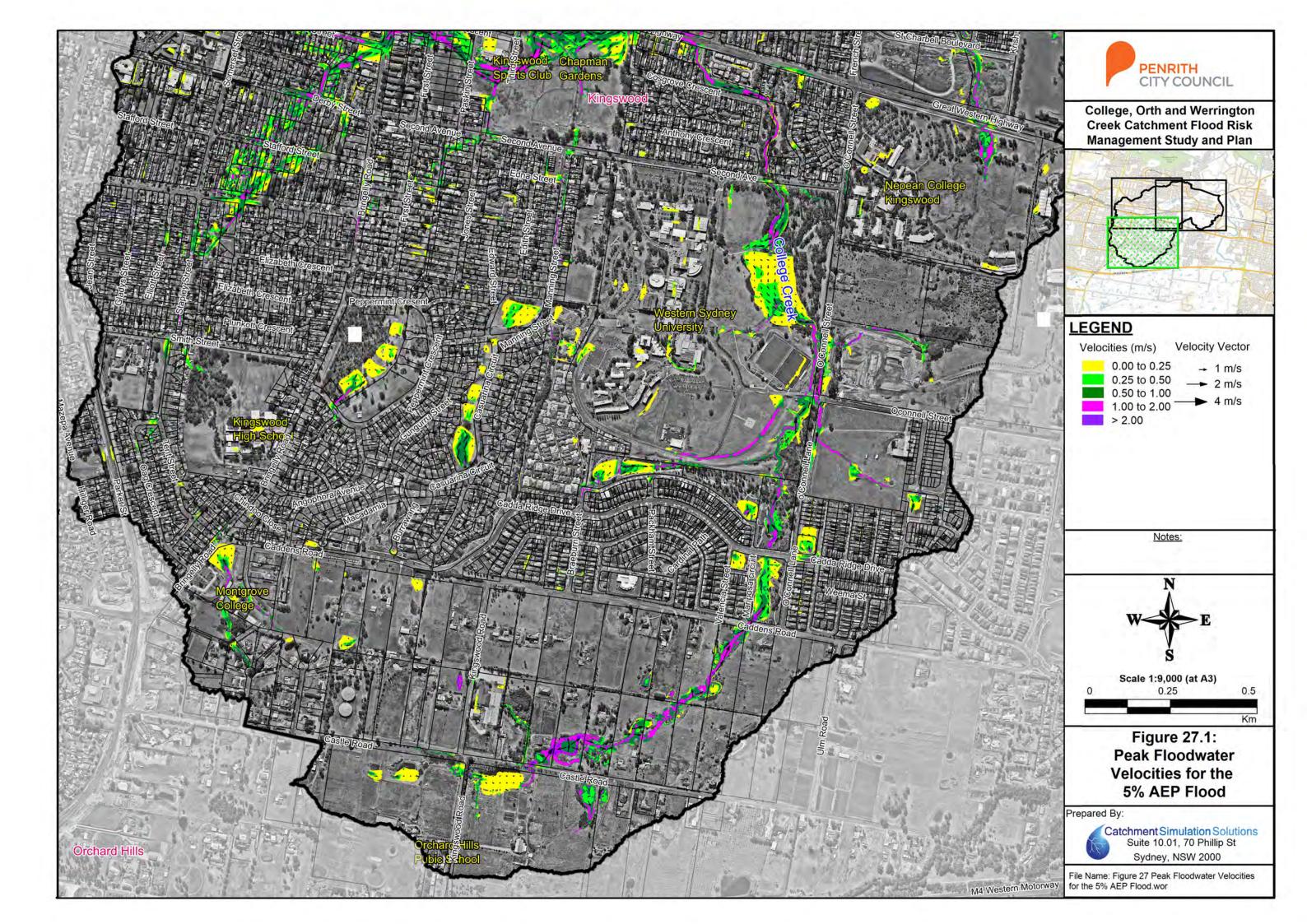


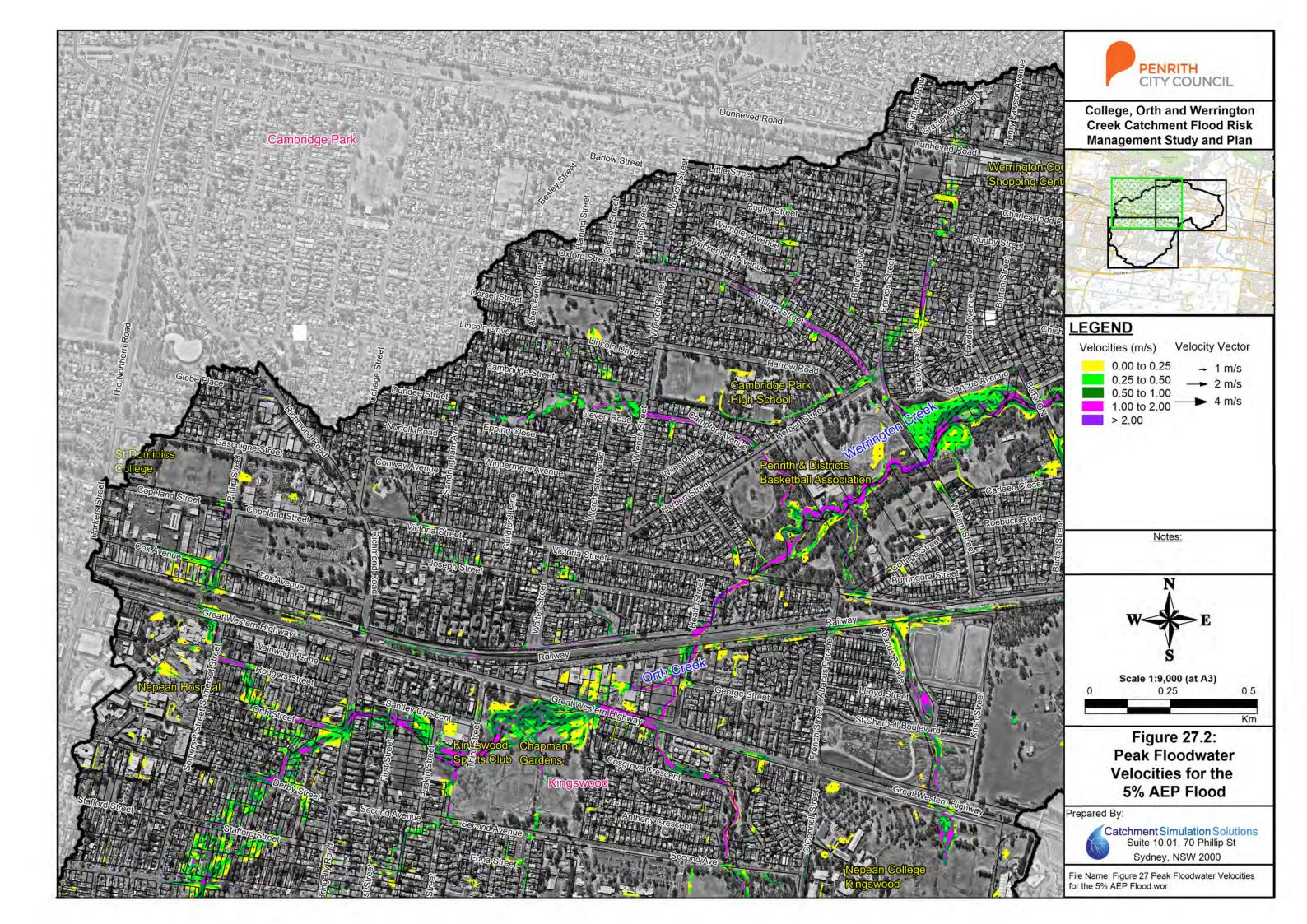


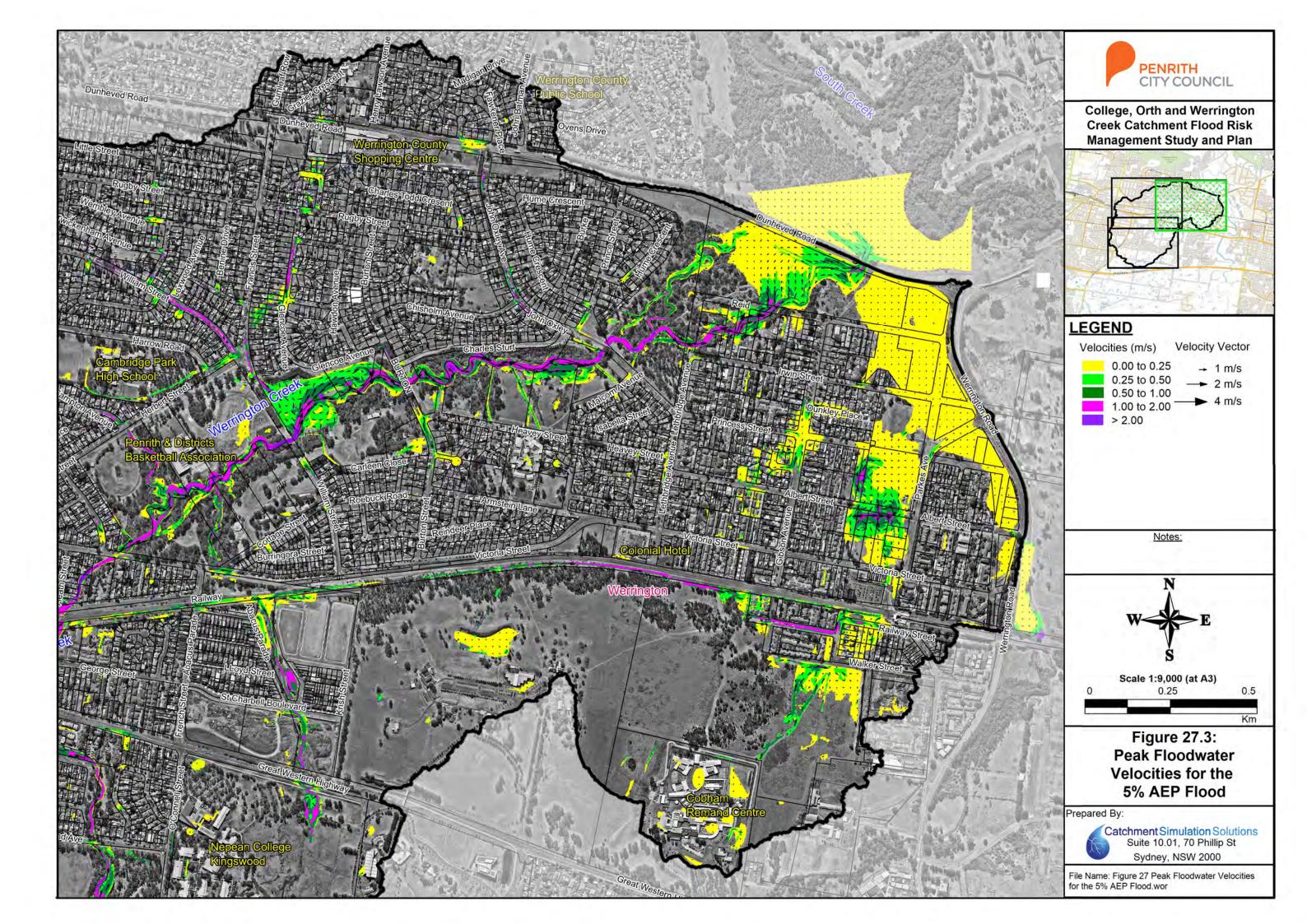


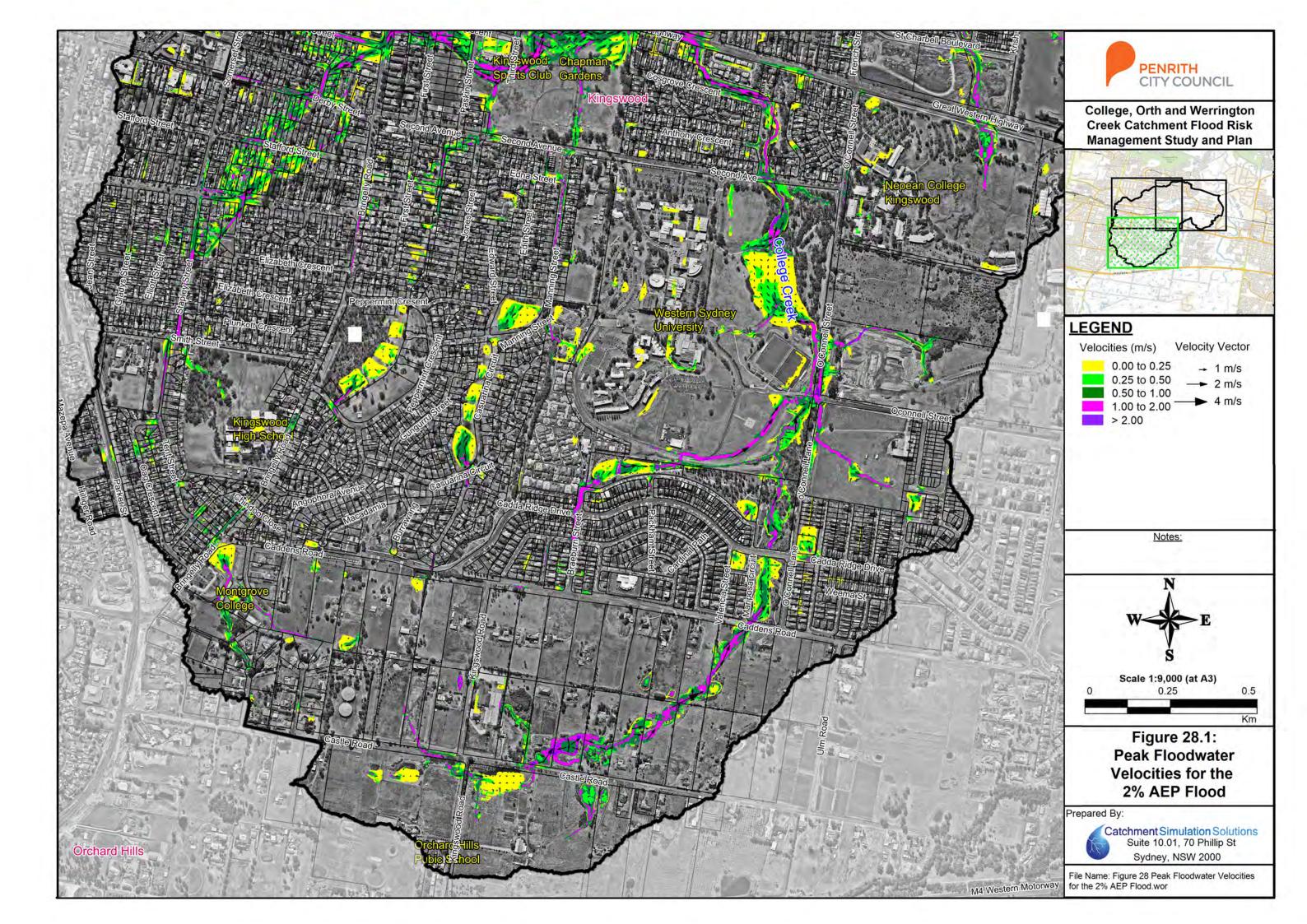


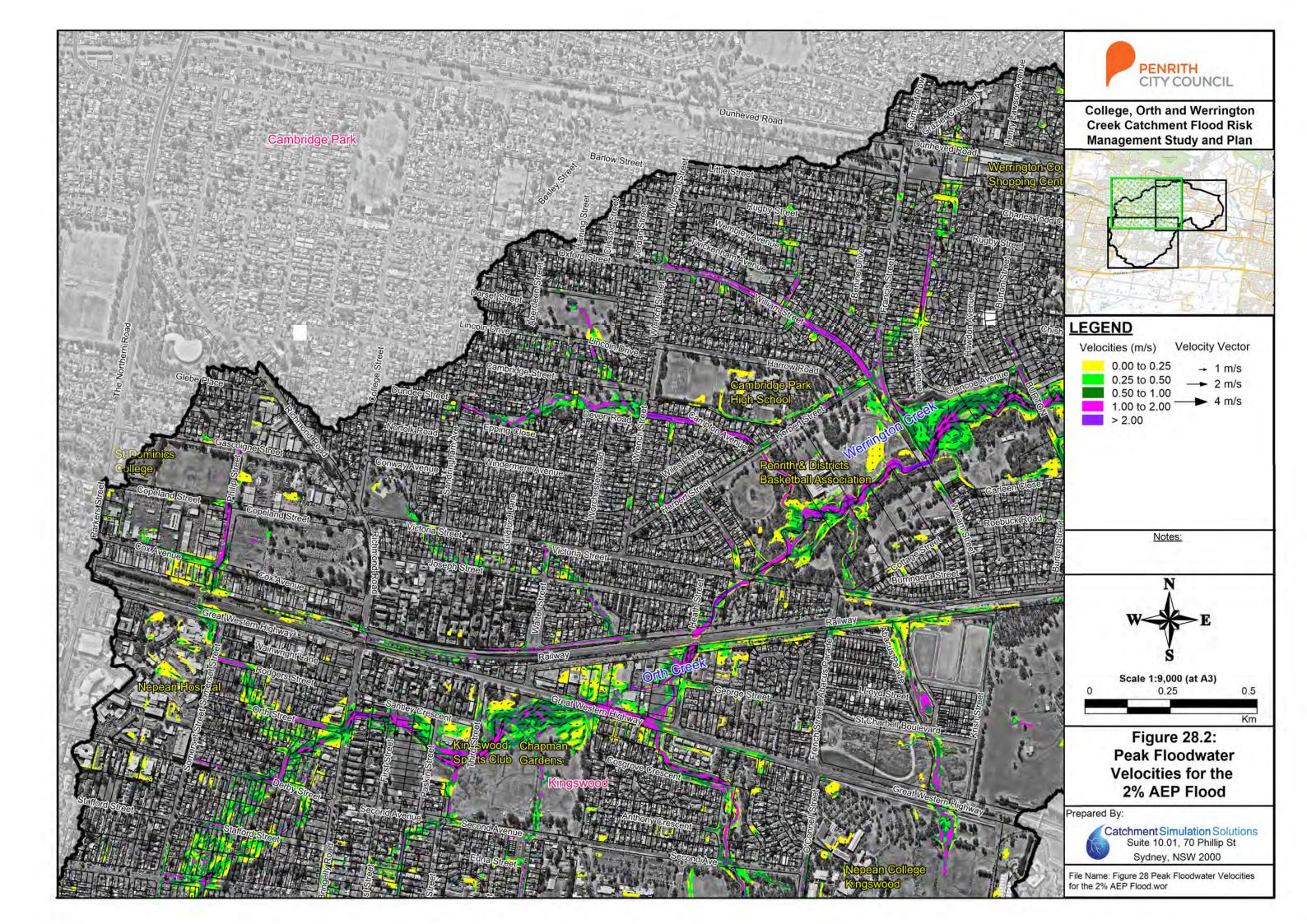


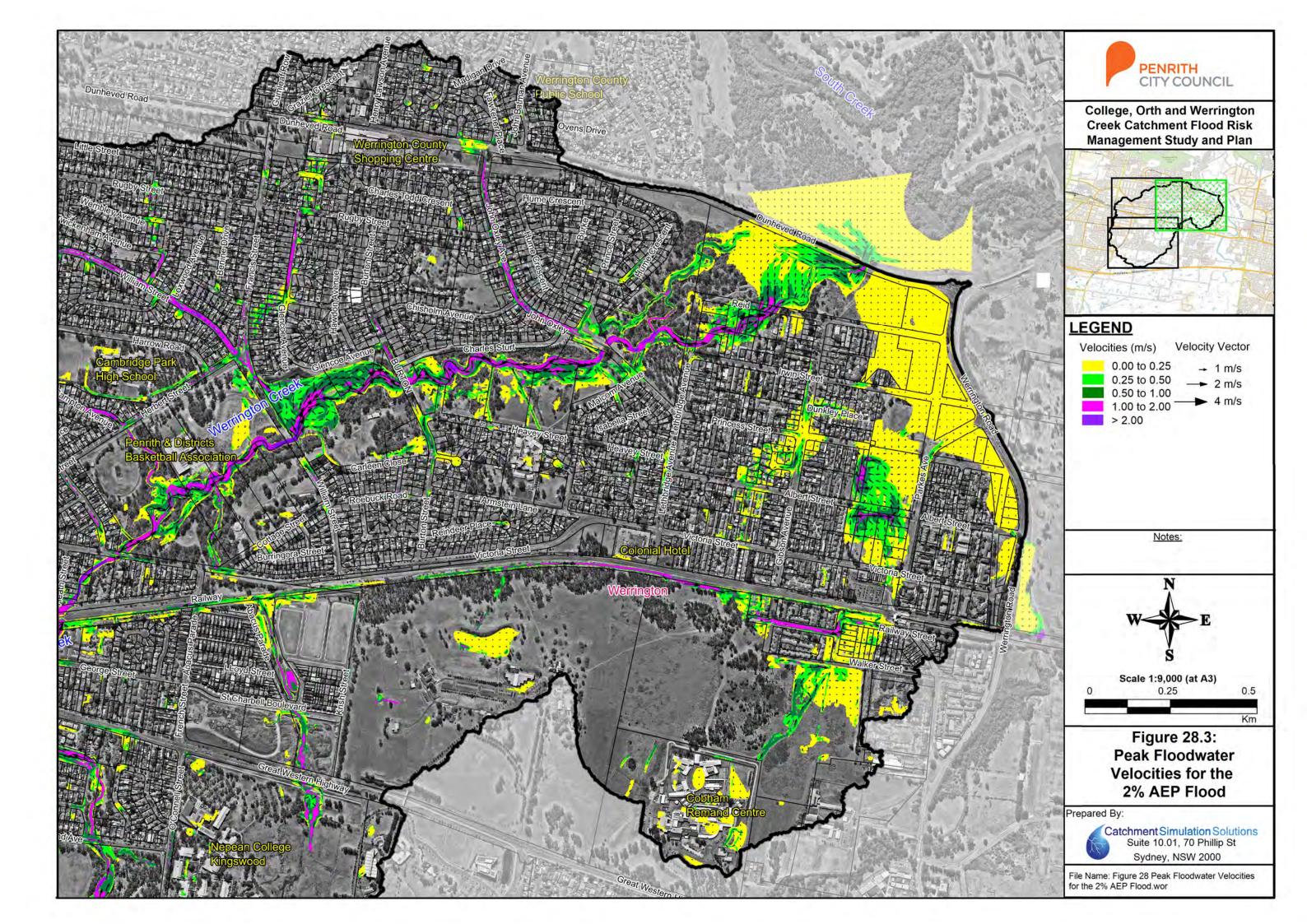


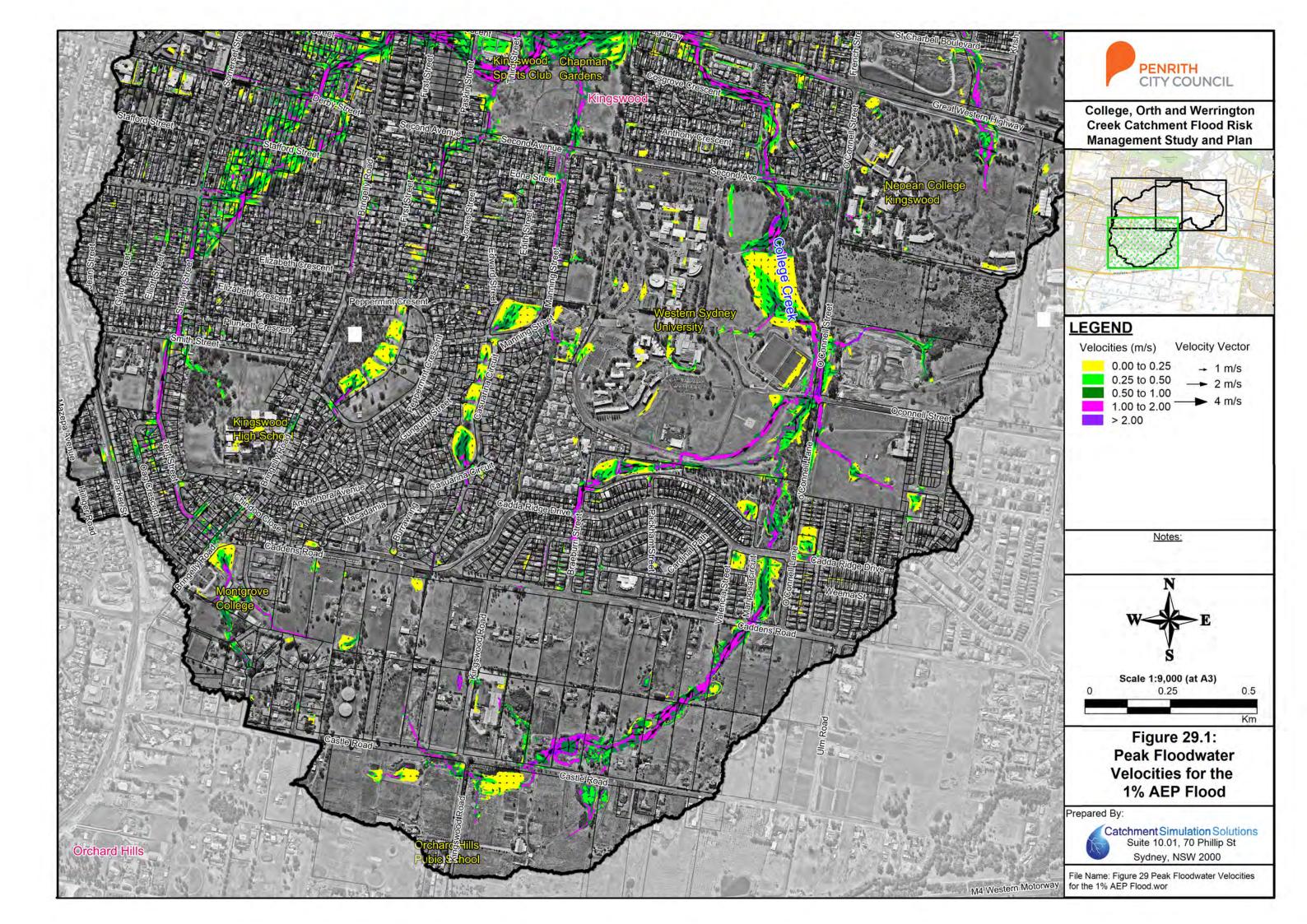


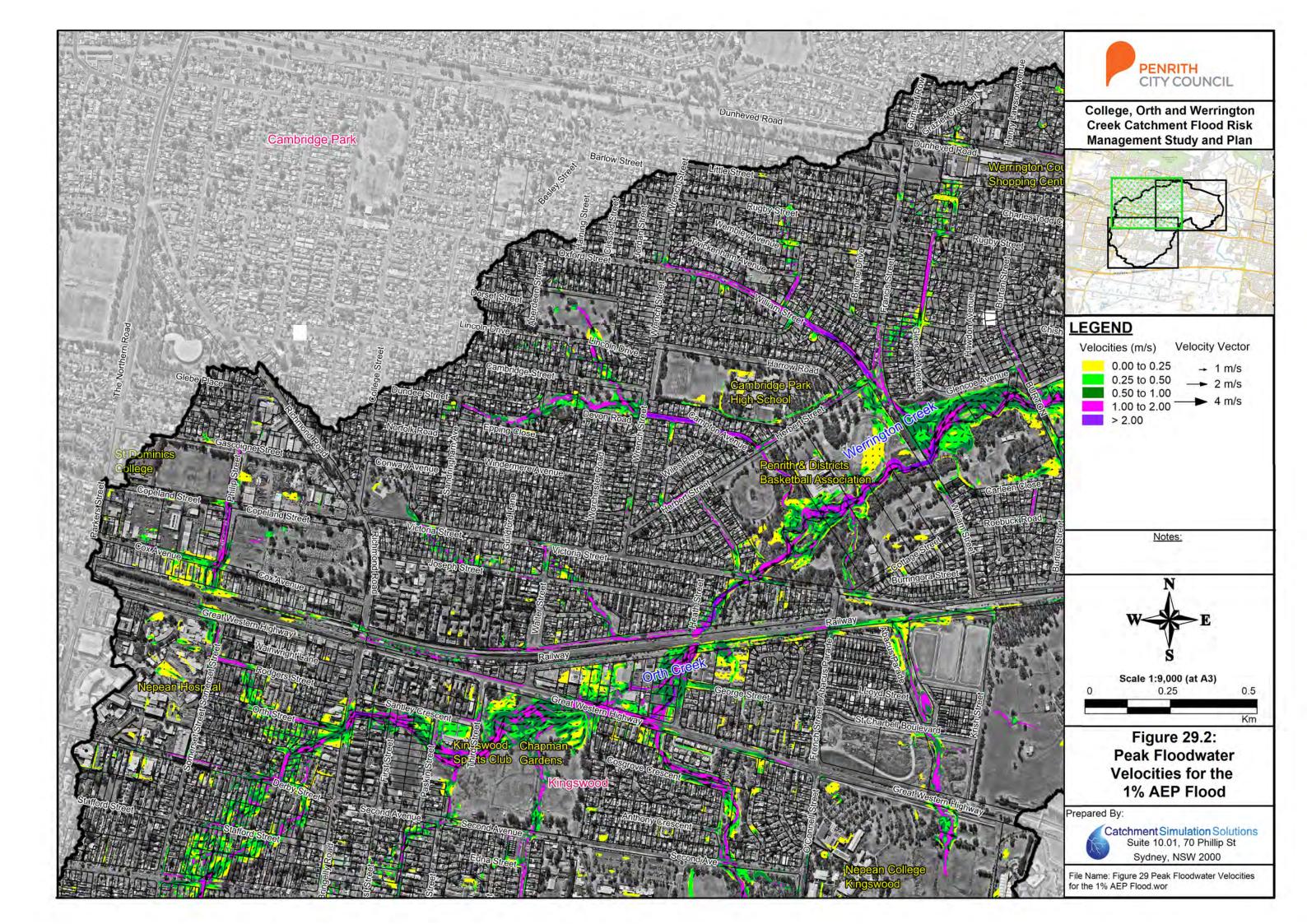


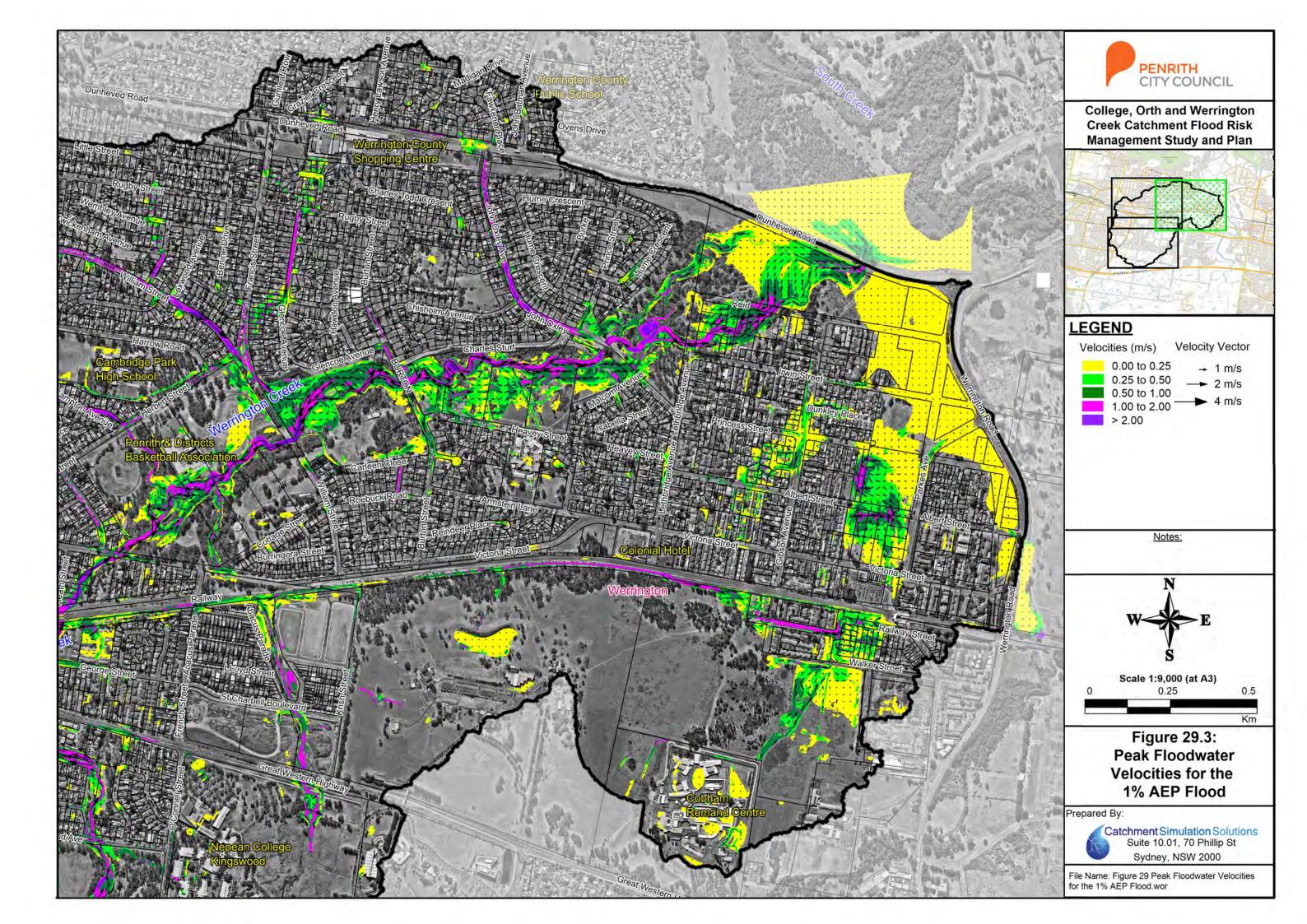


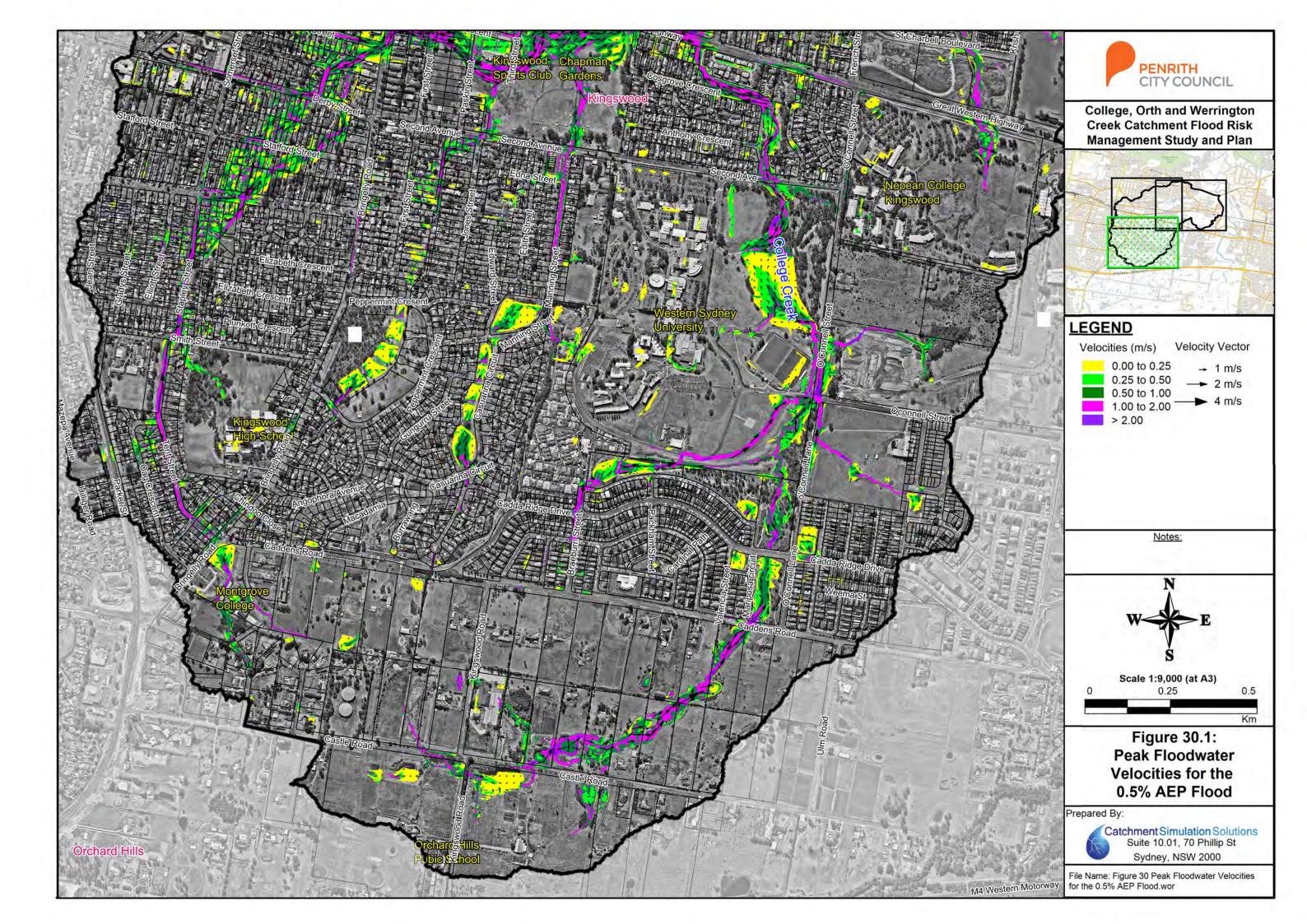


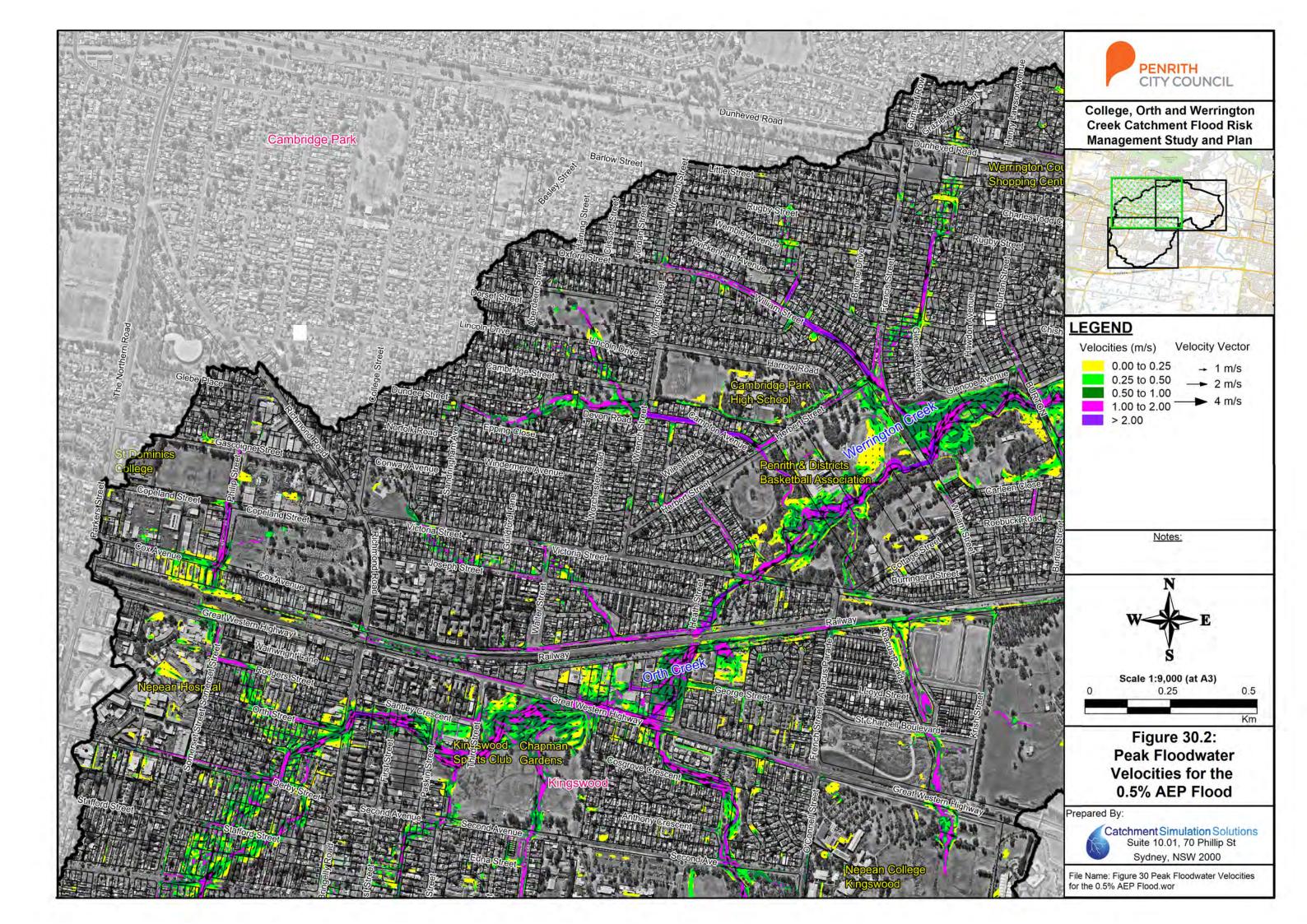


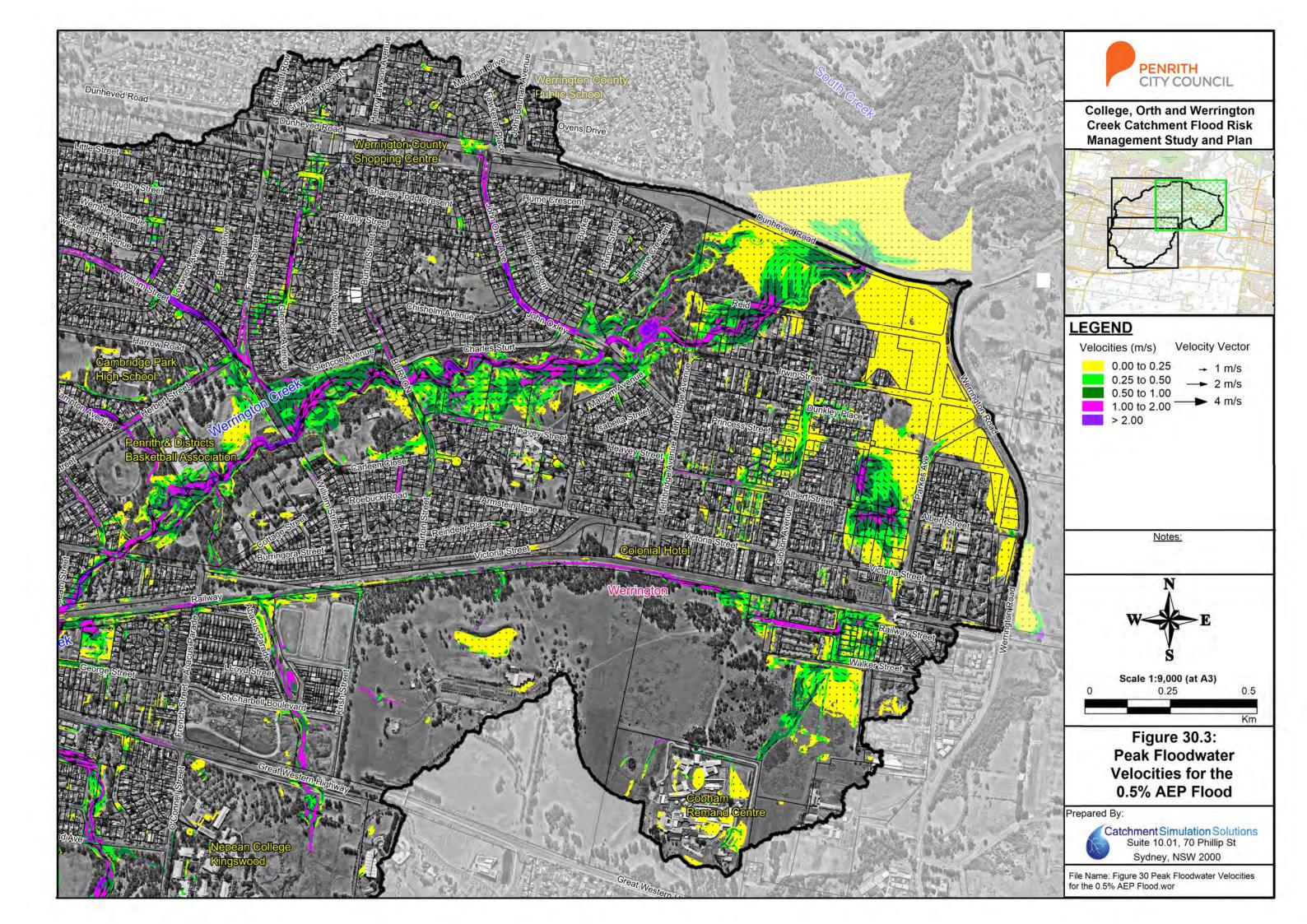


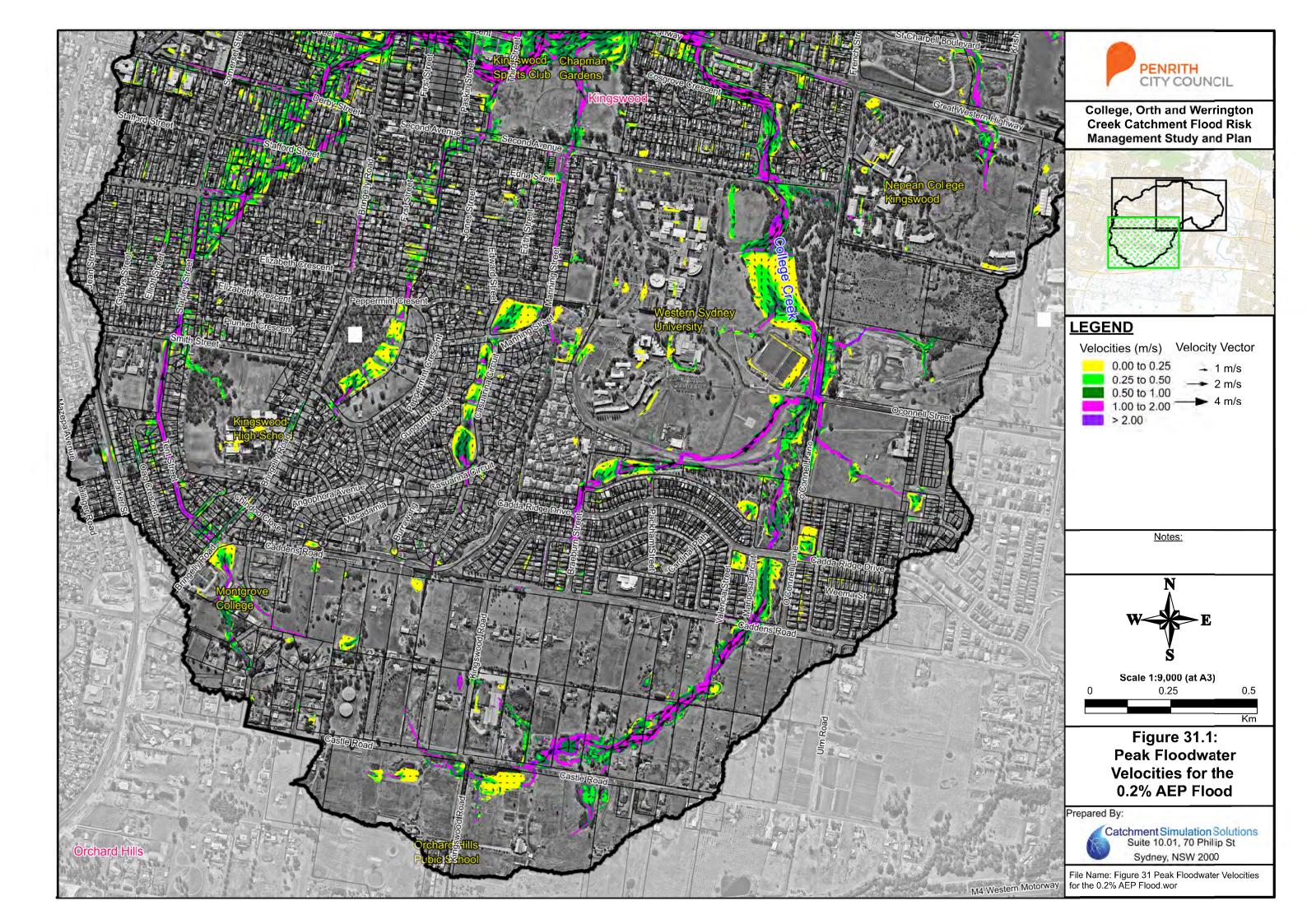


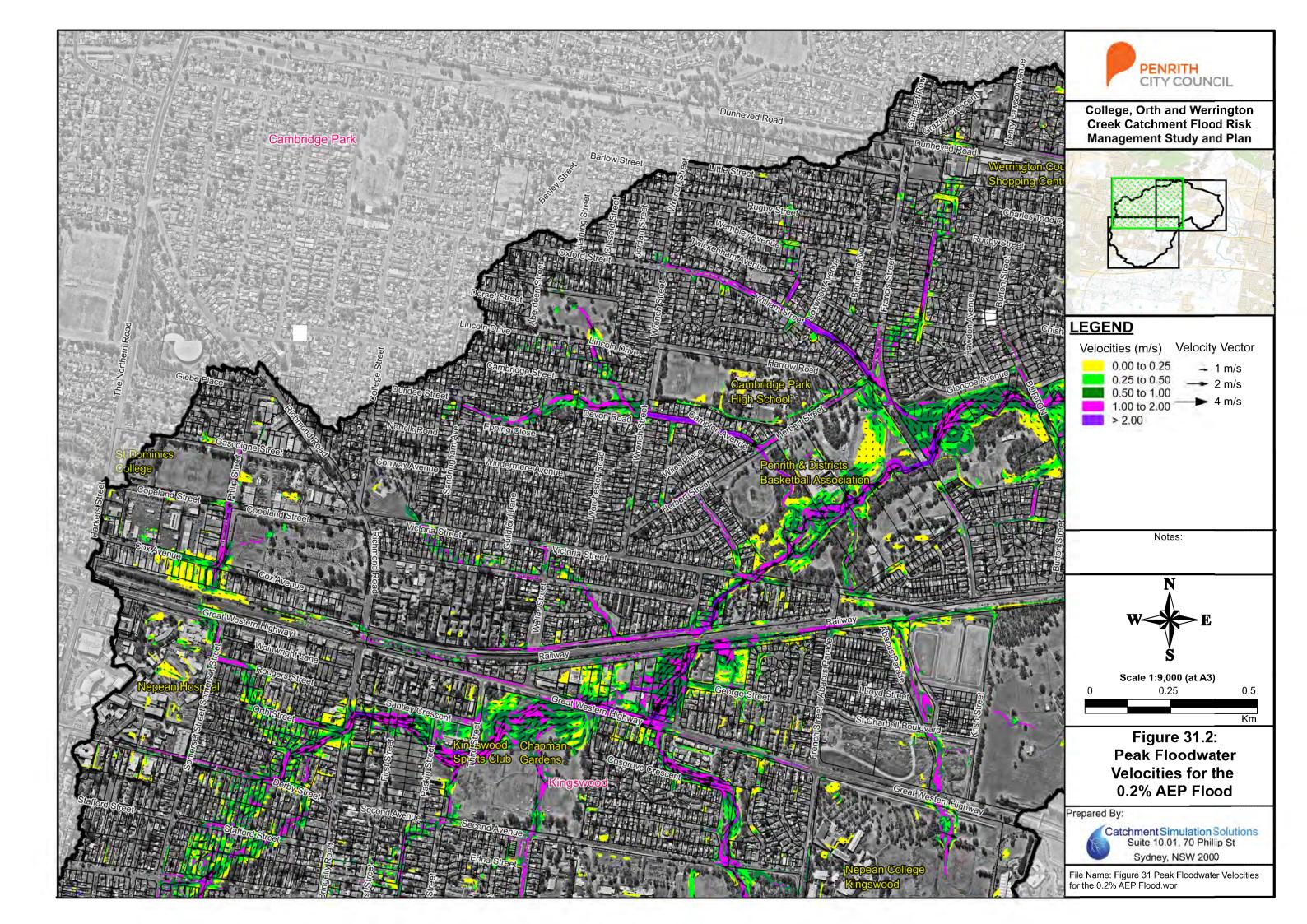


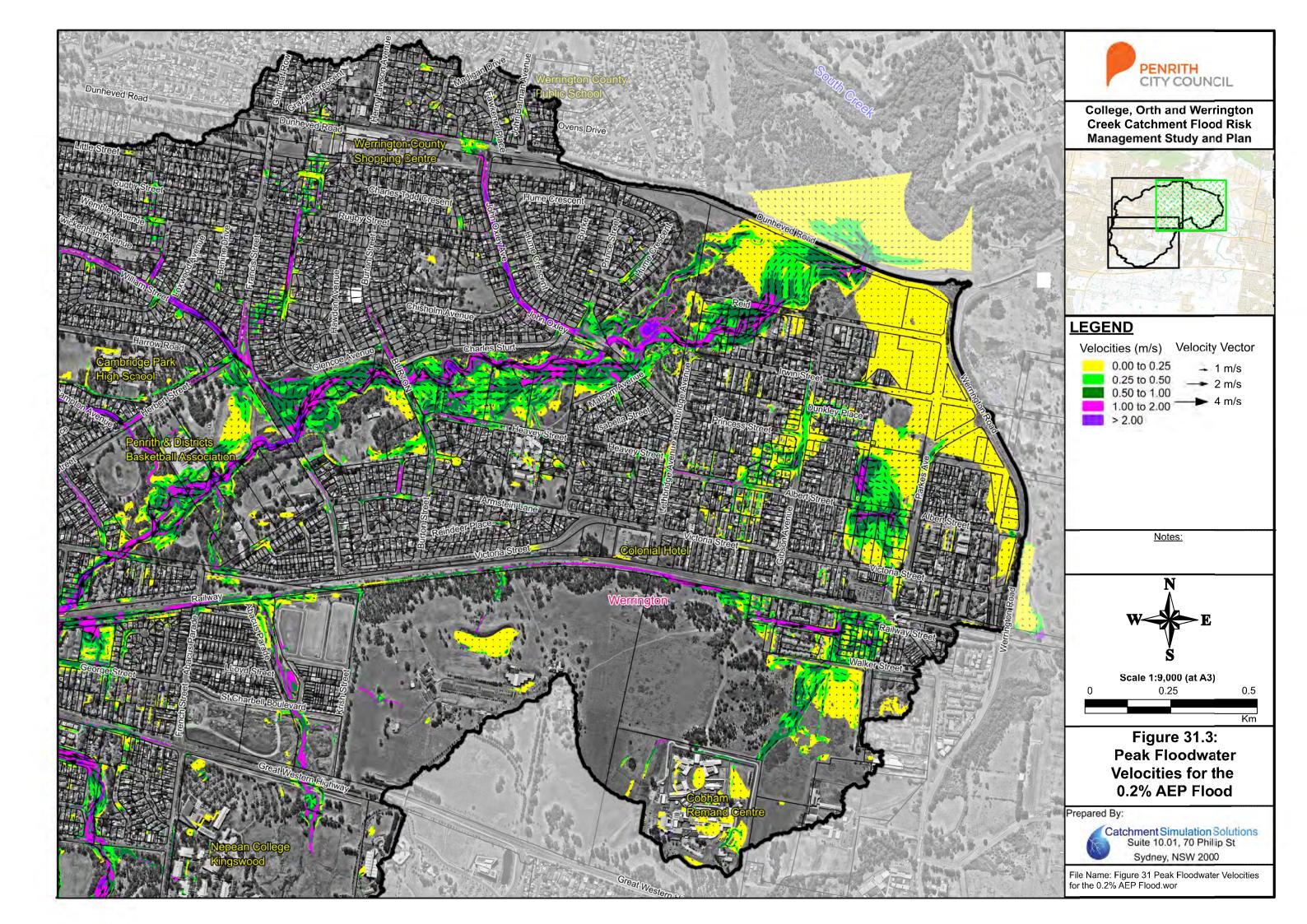


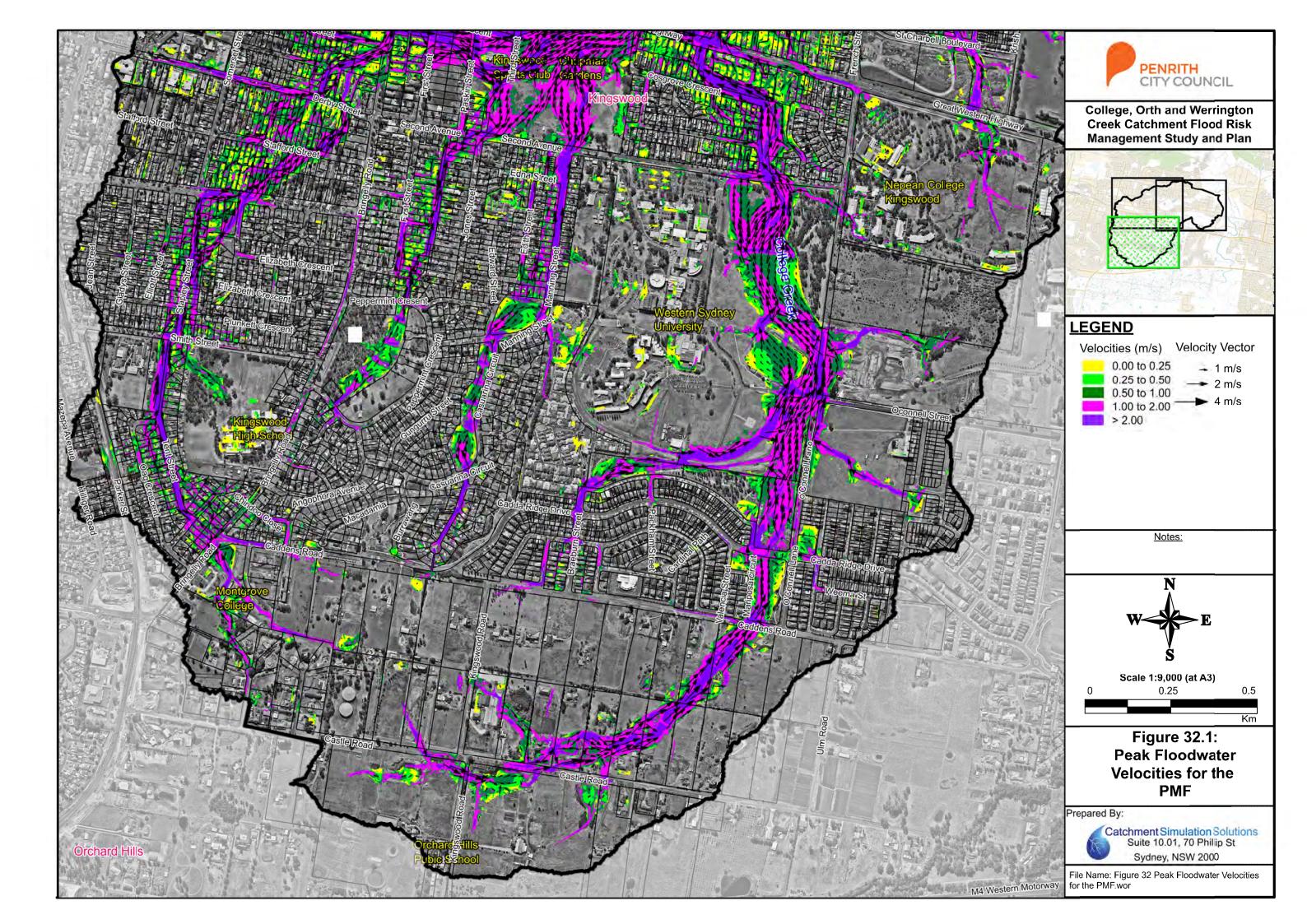


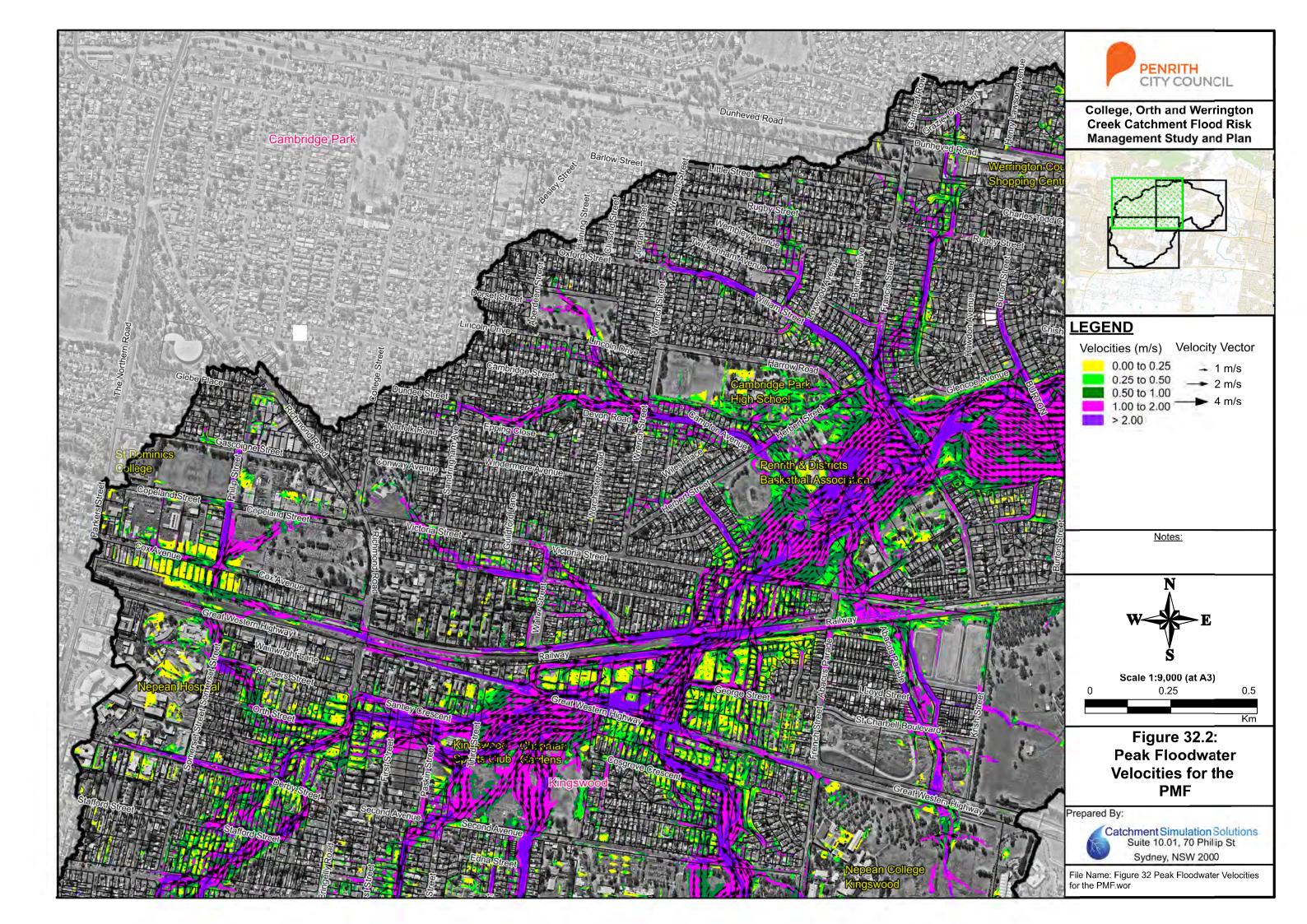


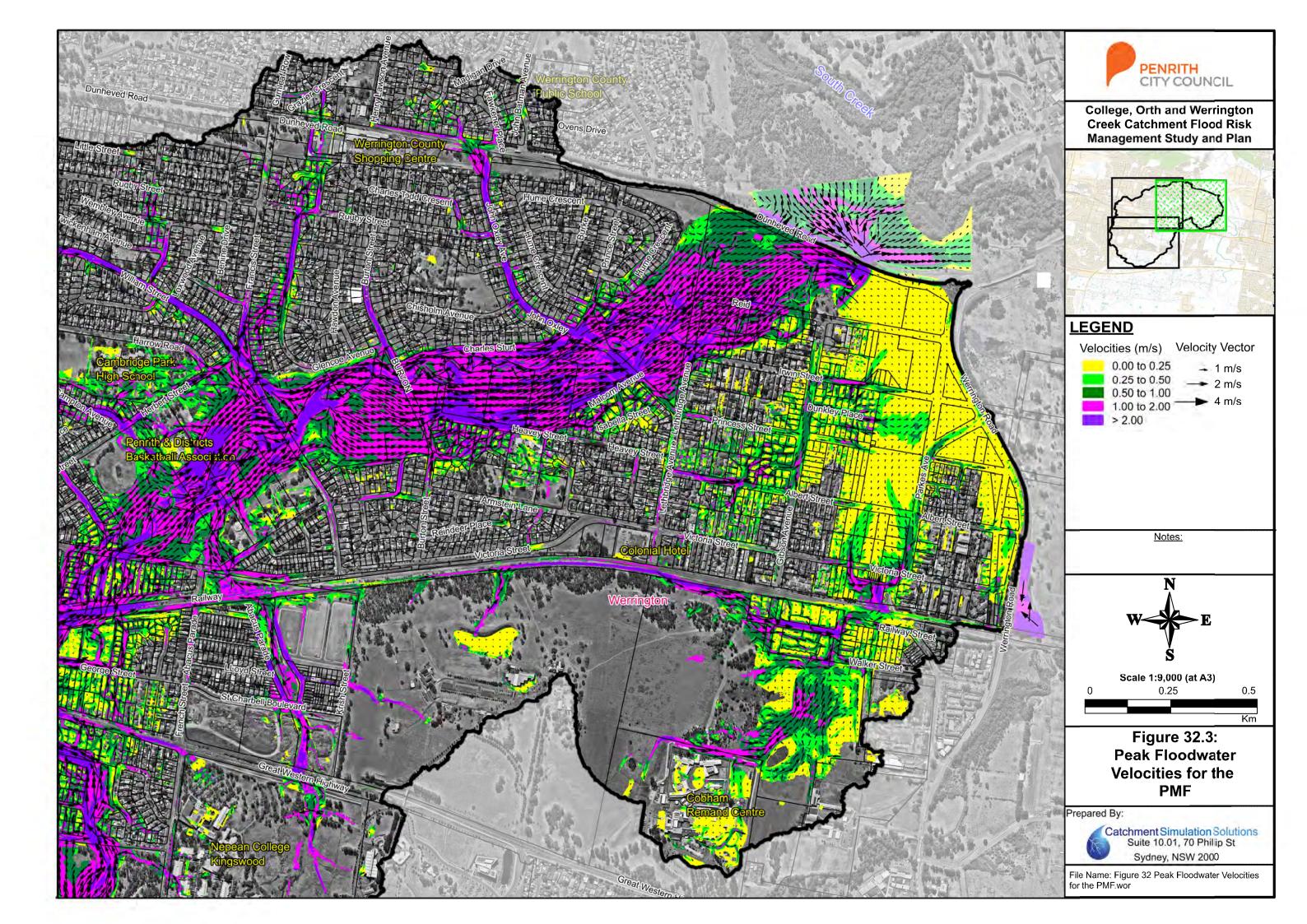


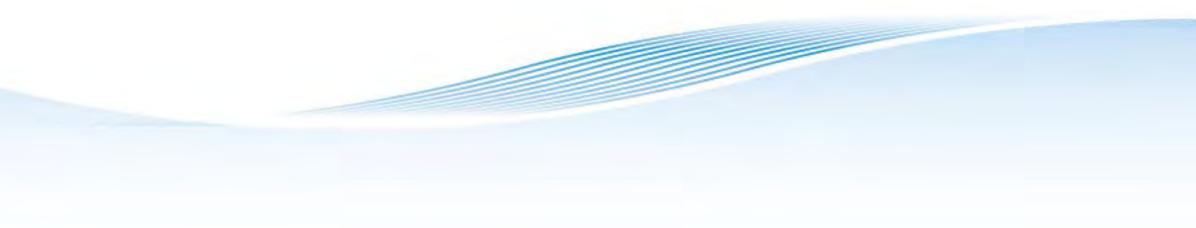






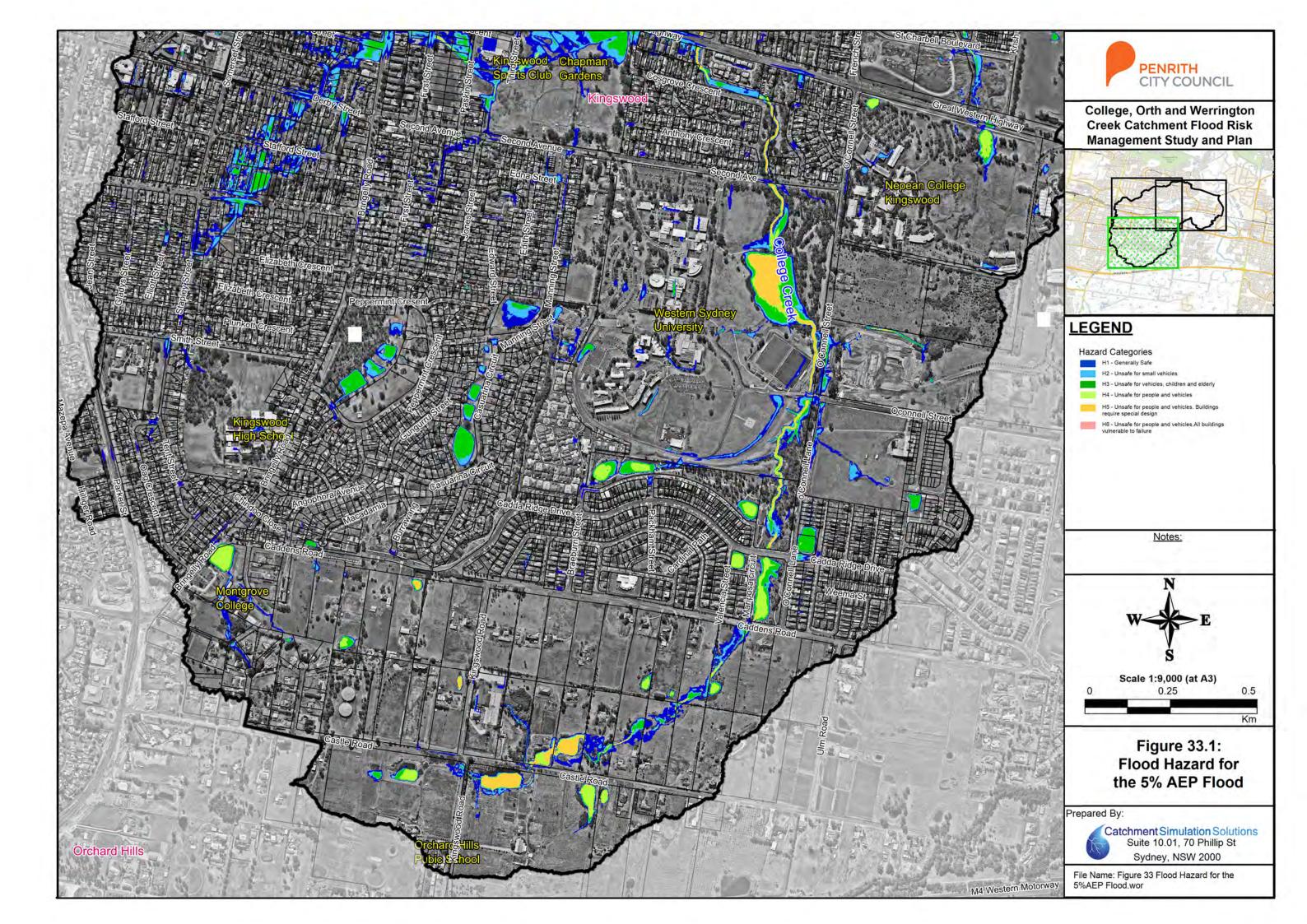


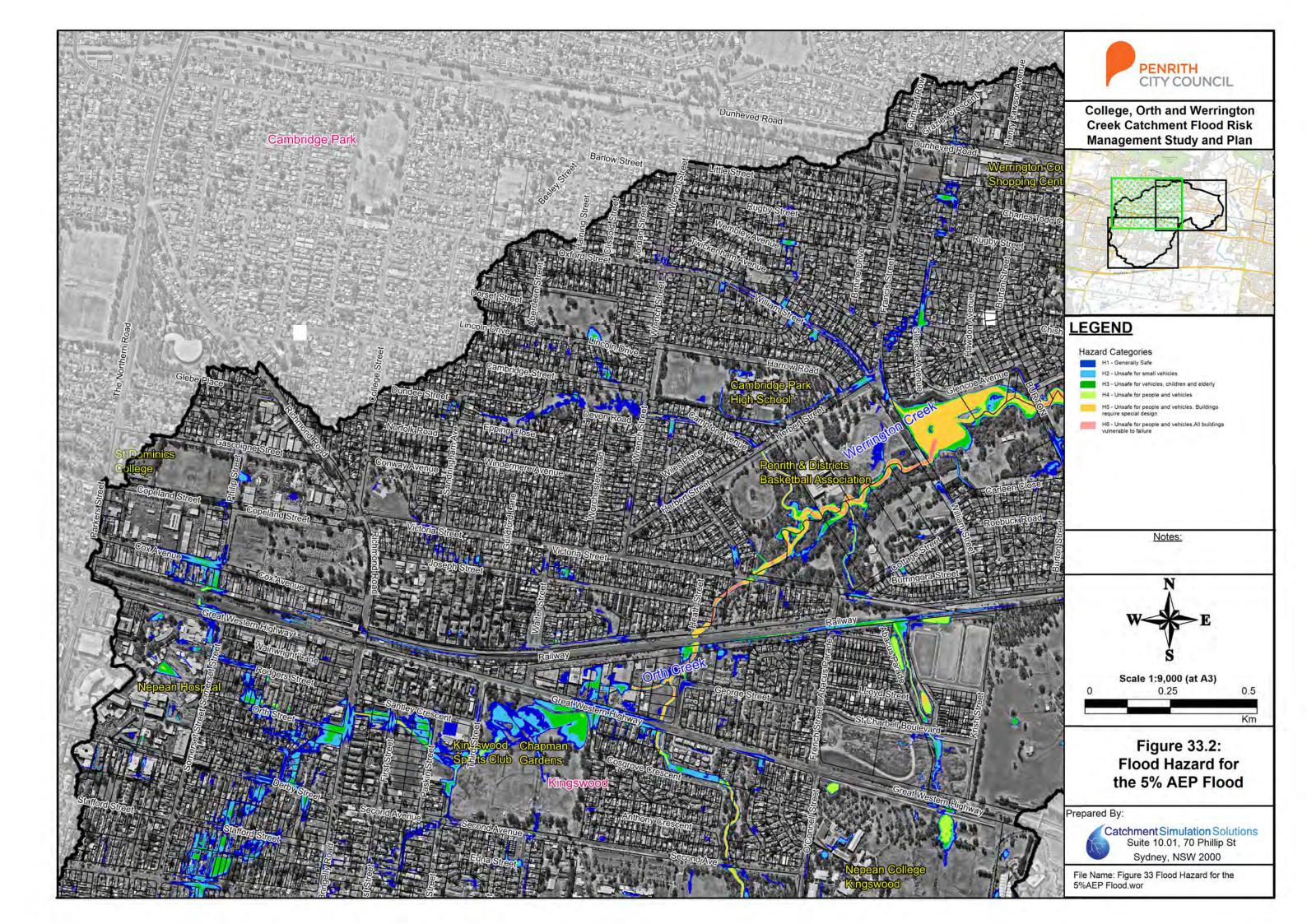


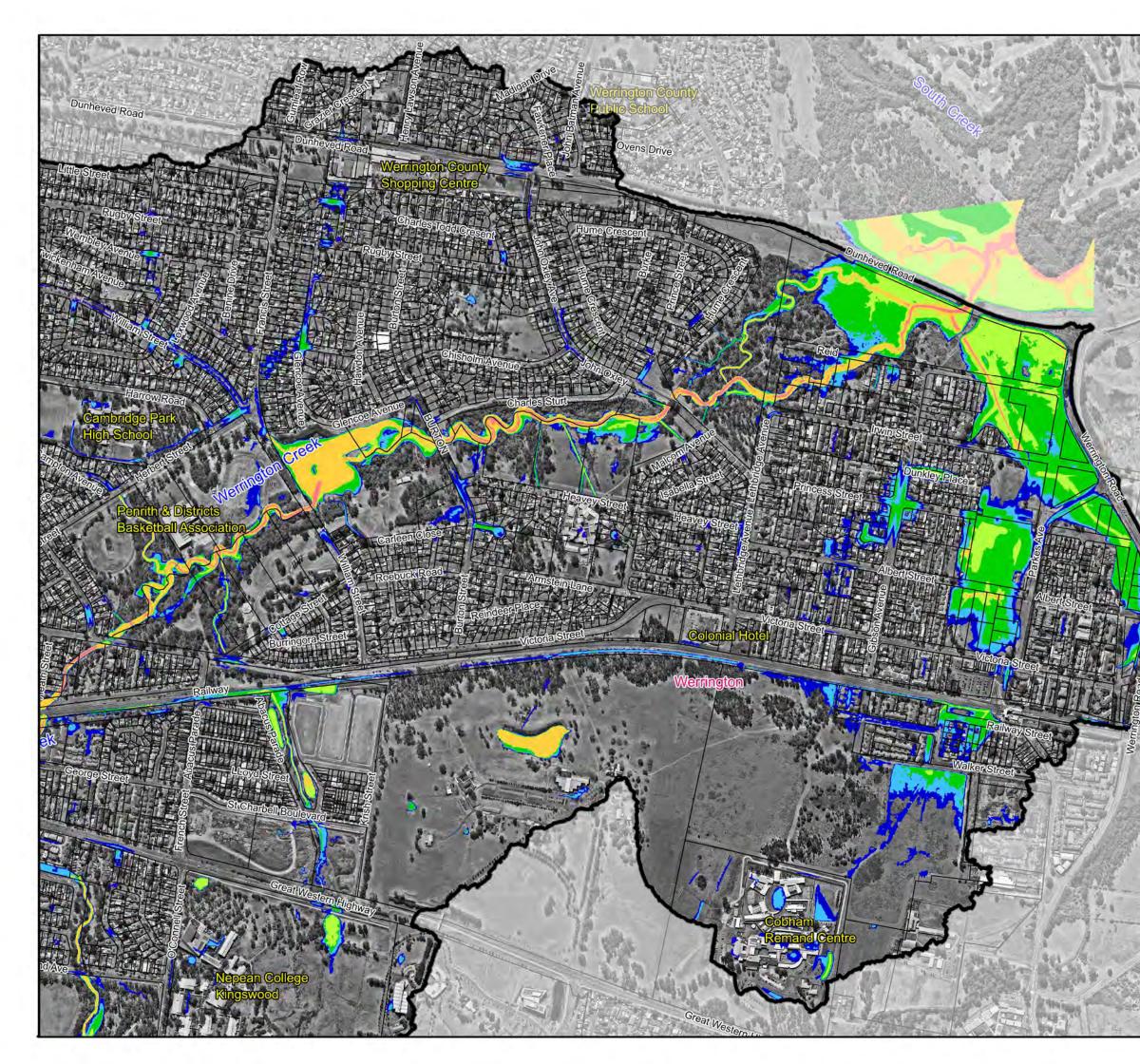


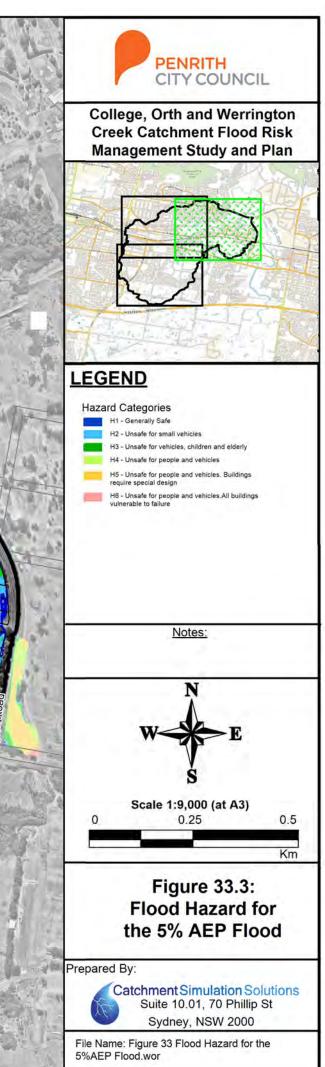
FLOOD HAZARD MAPS

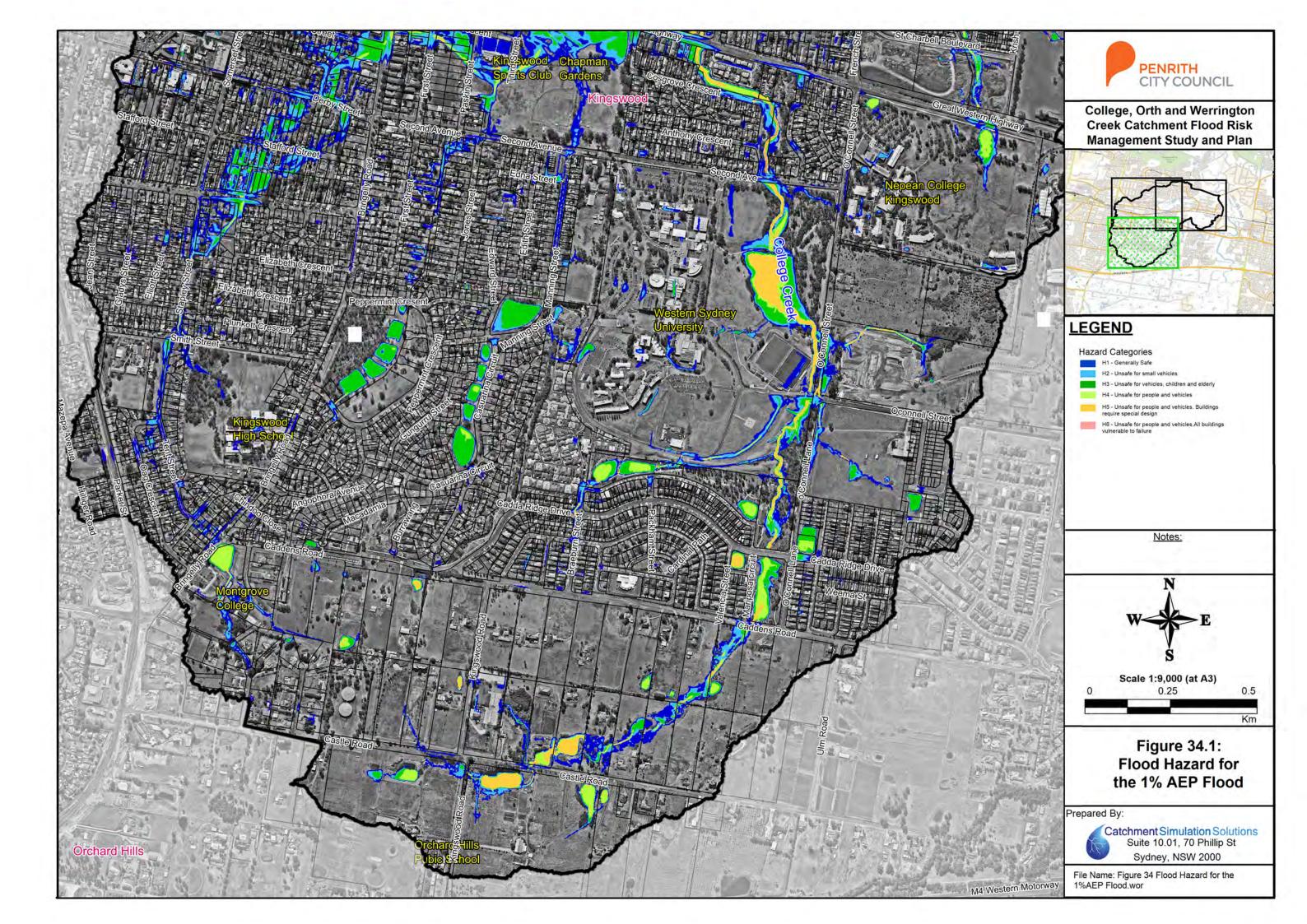


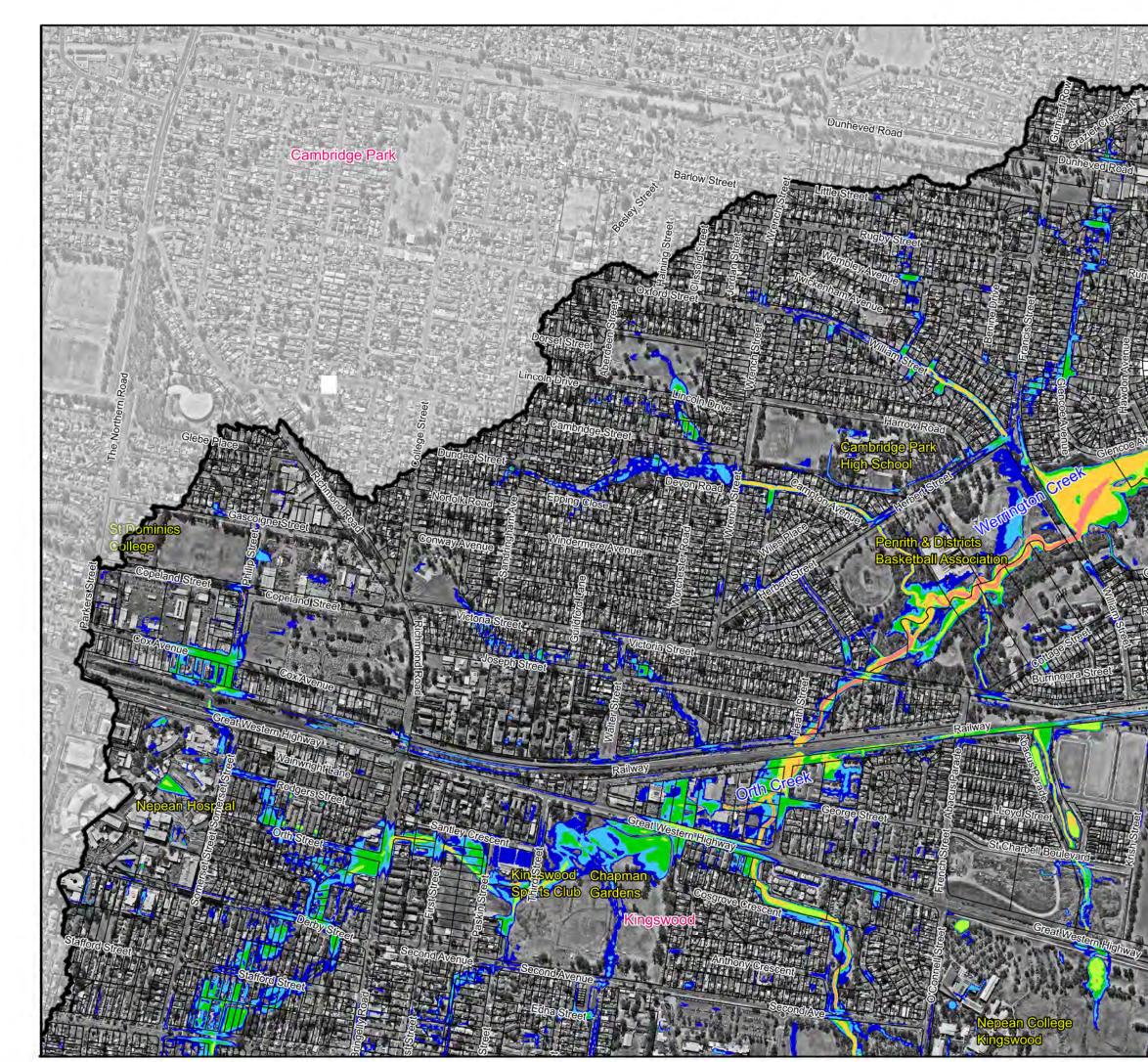


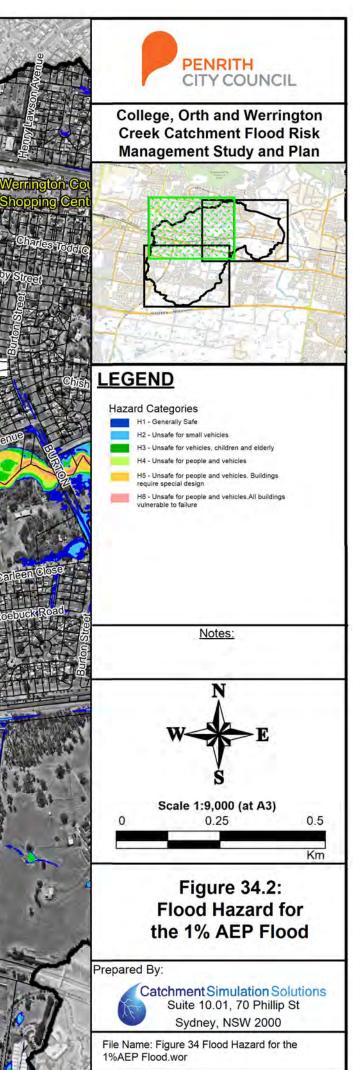


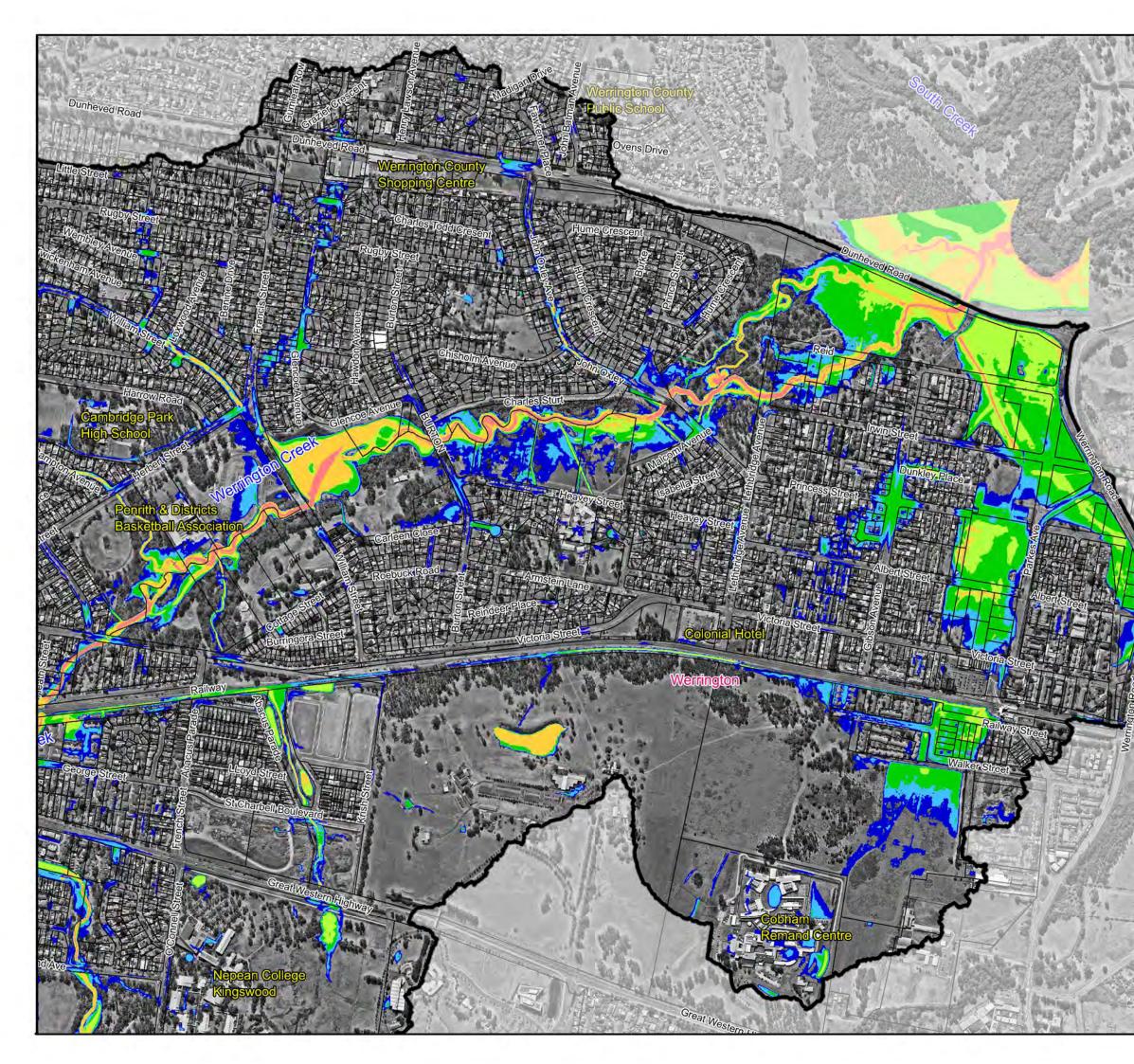


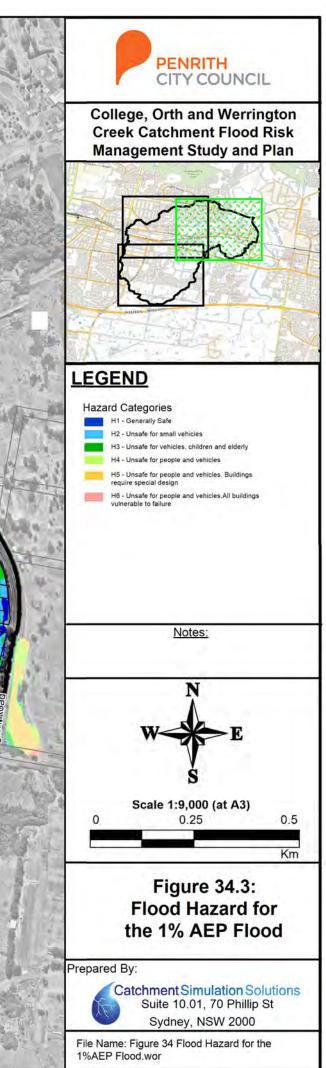


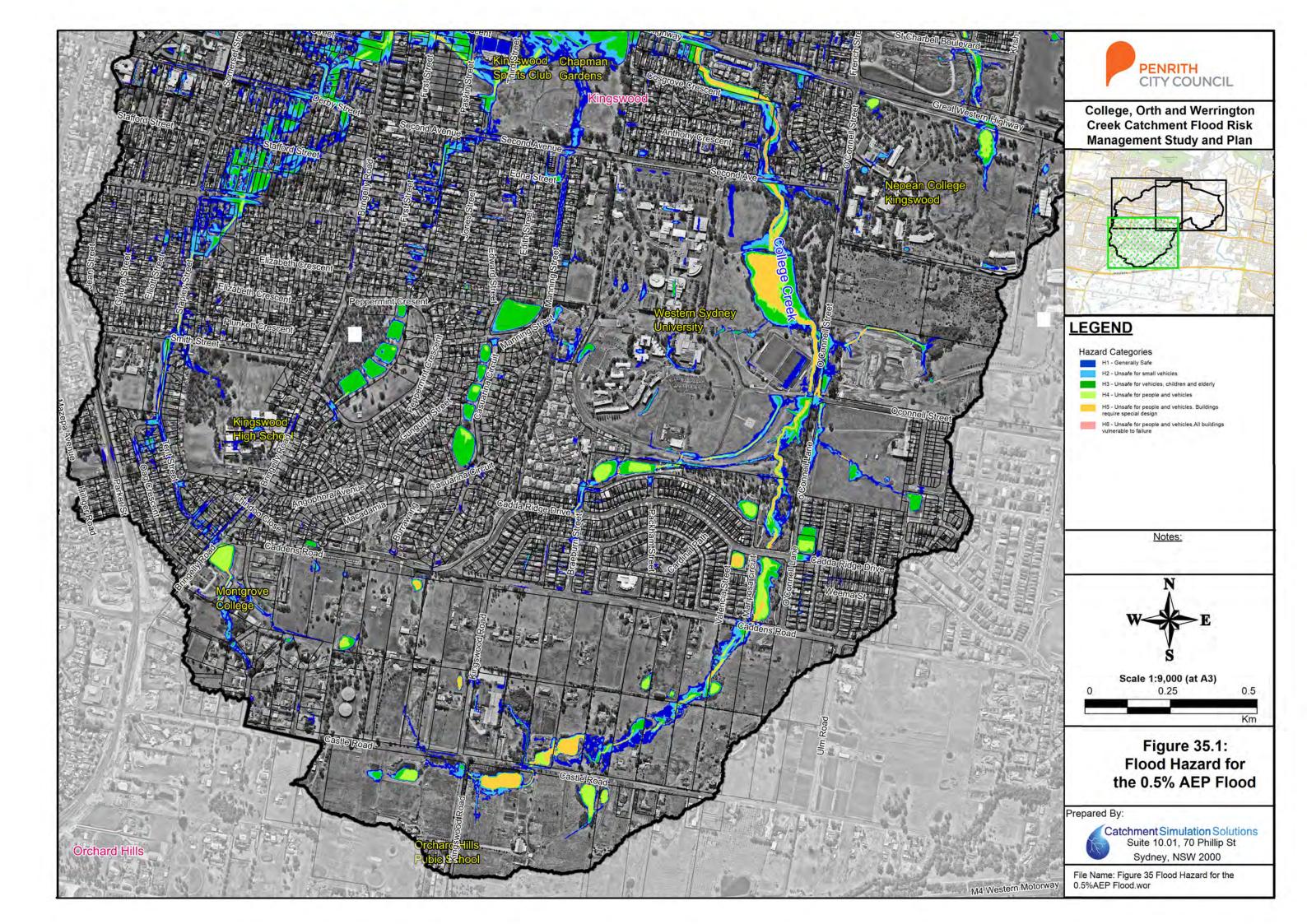


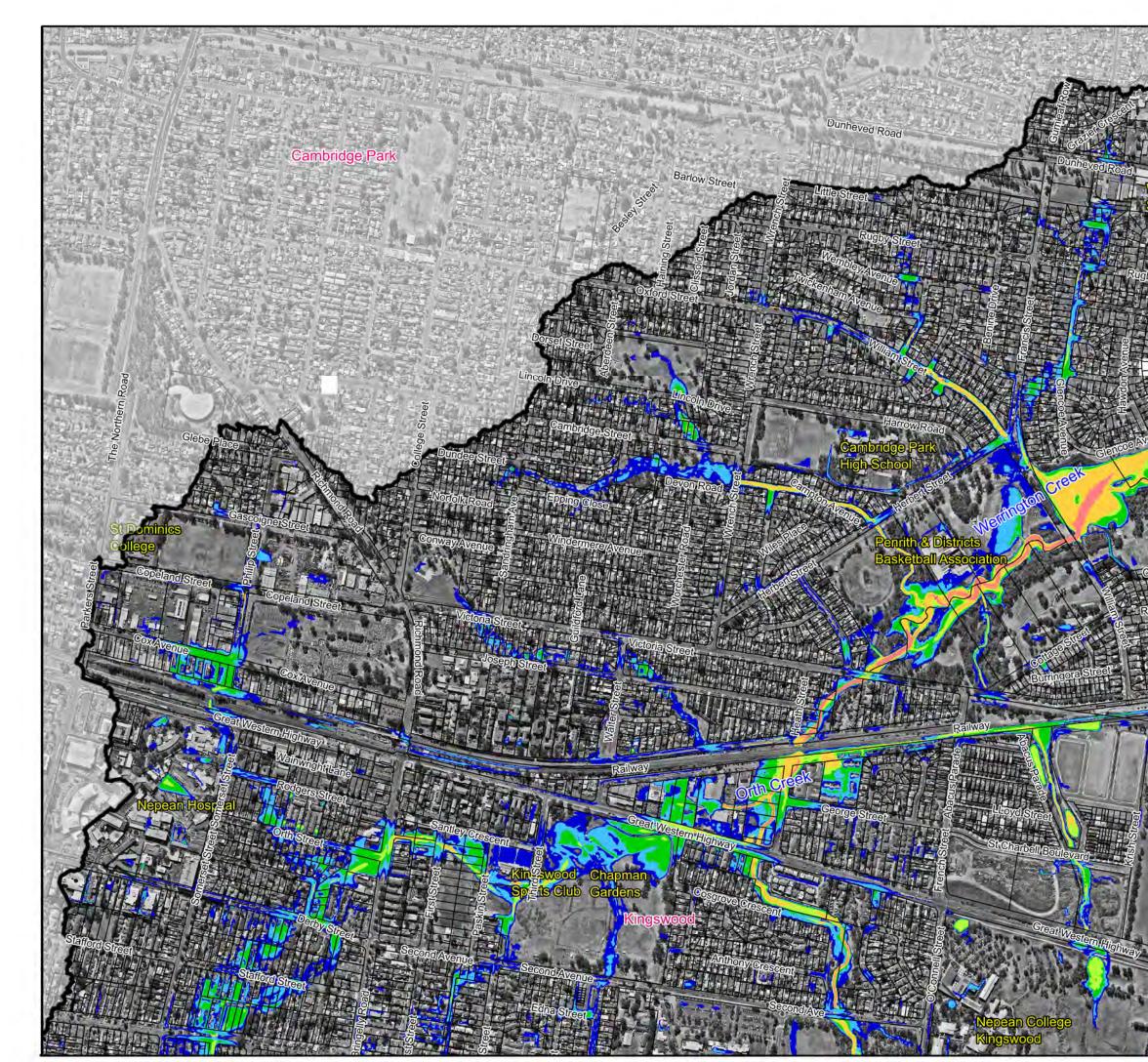


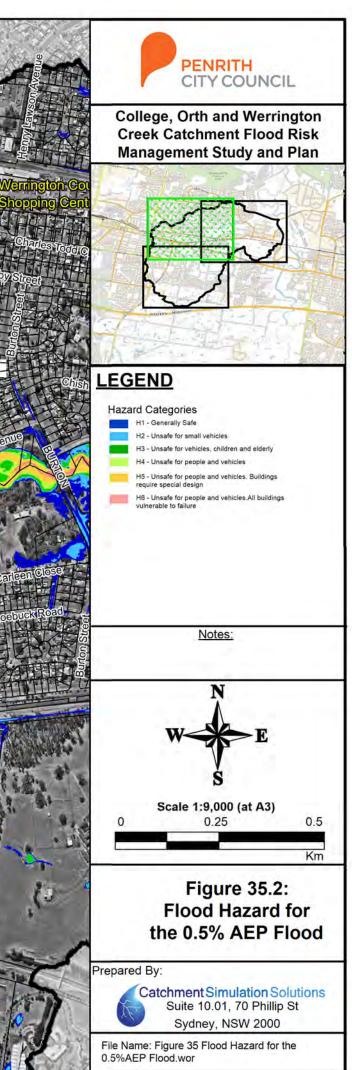


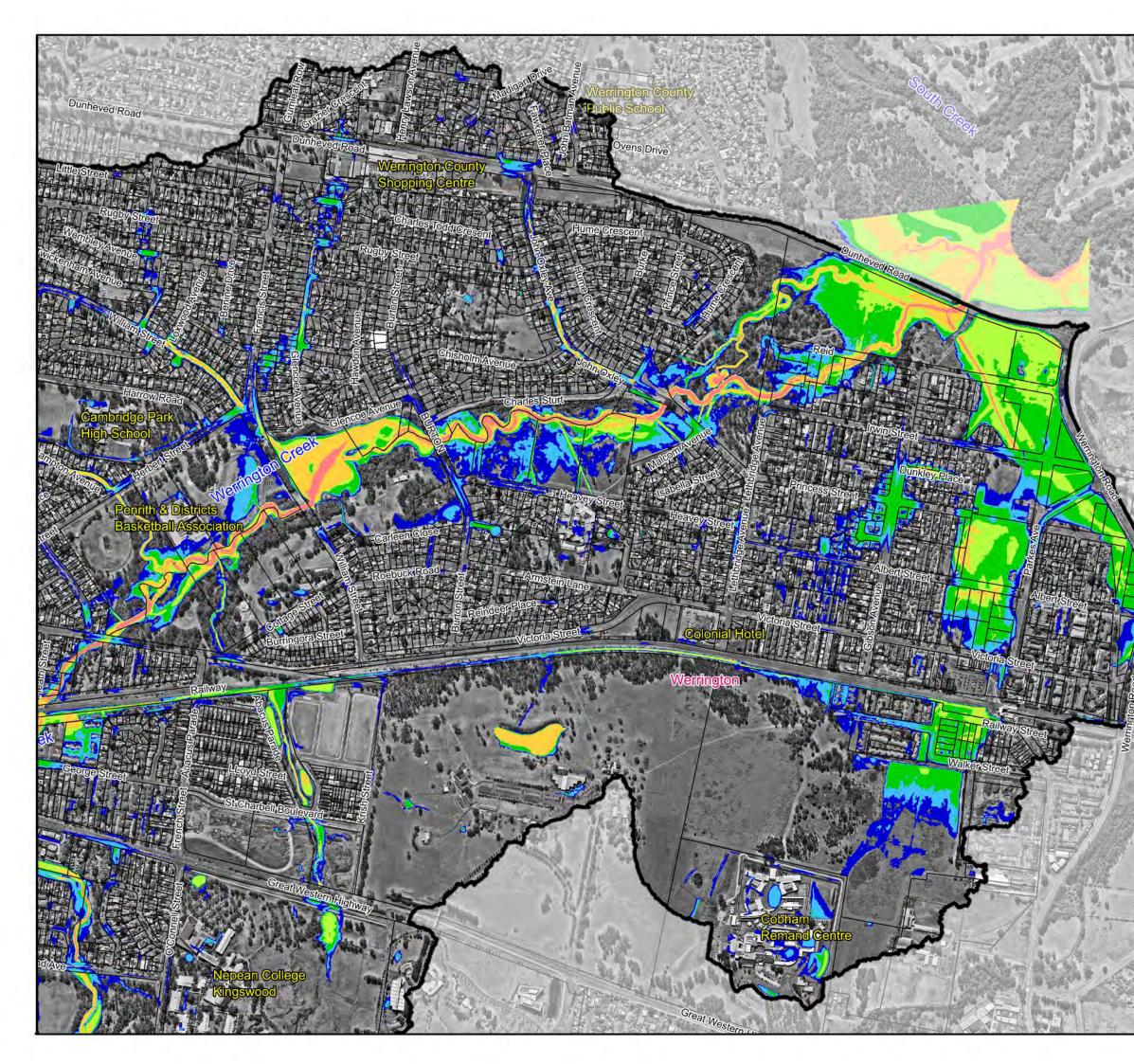


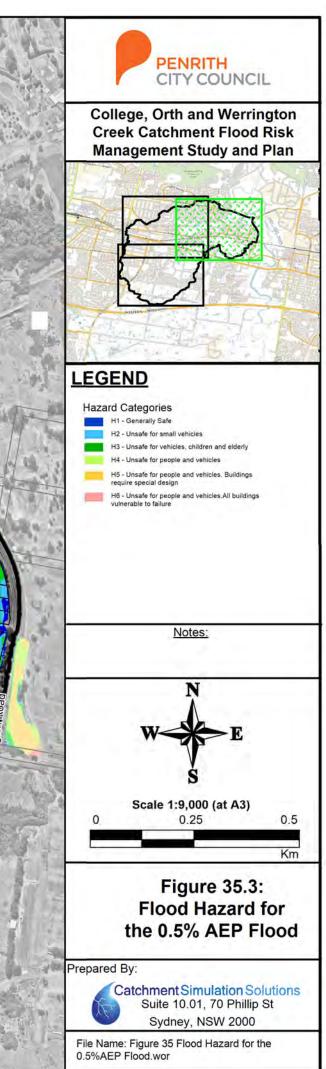


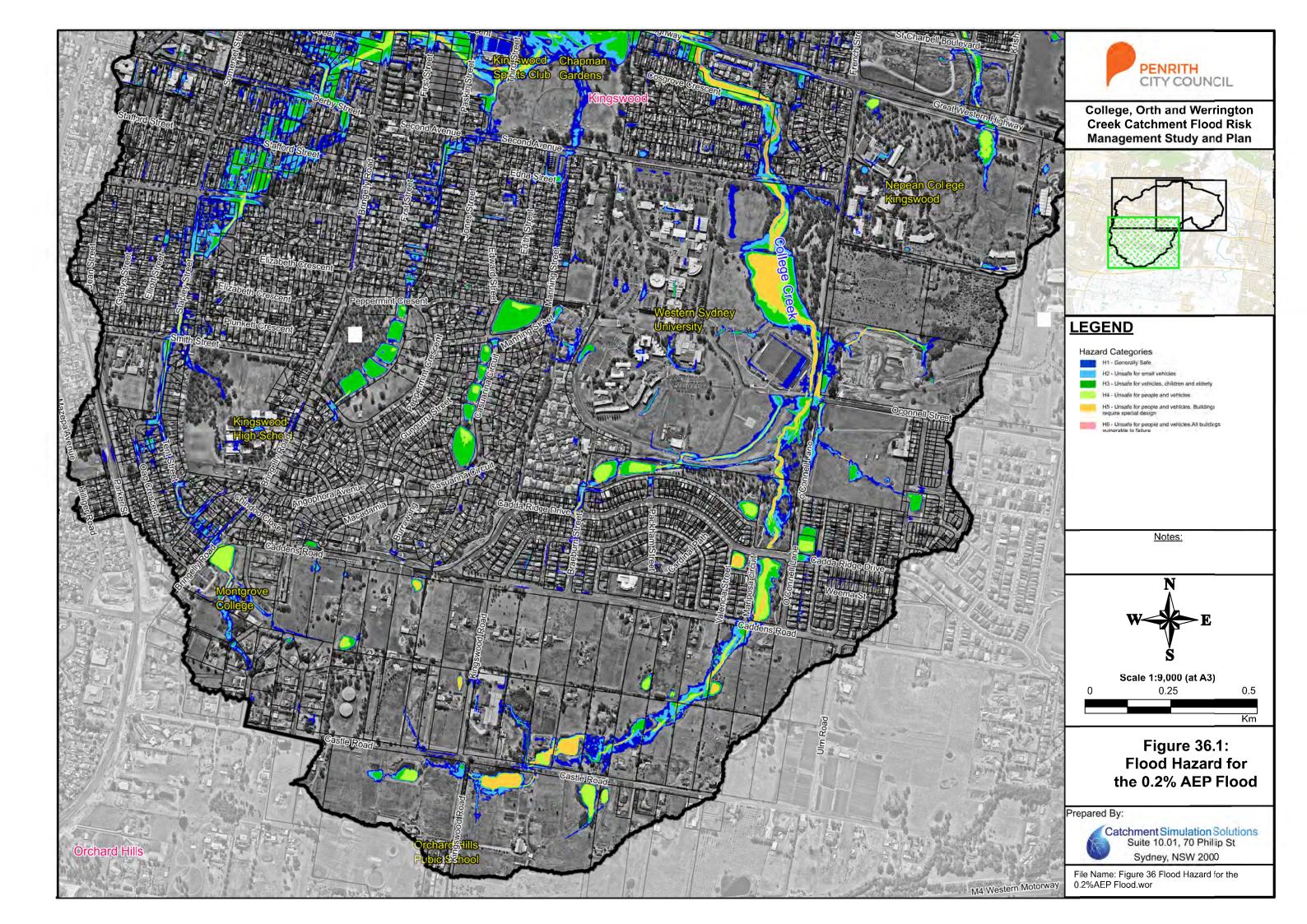


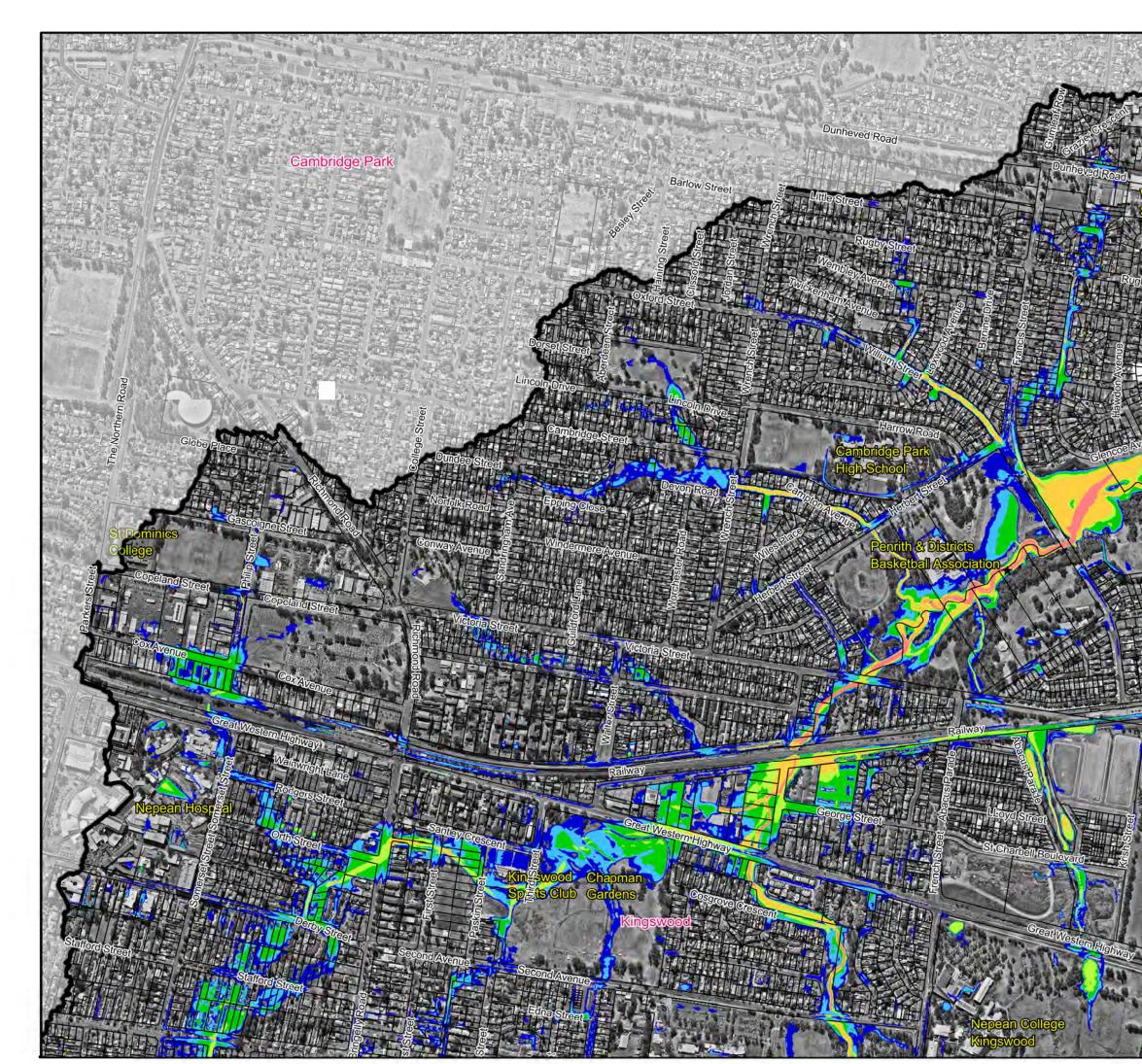


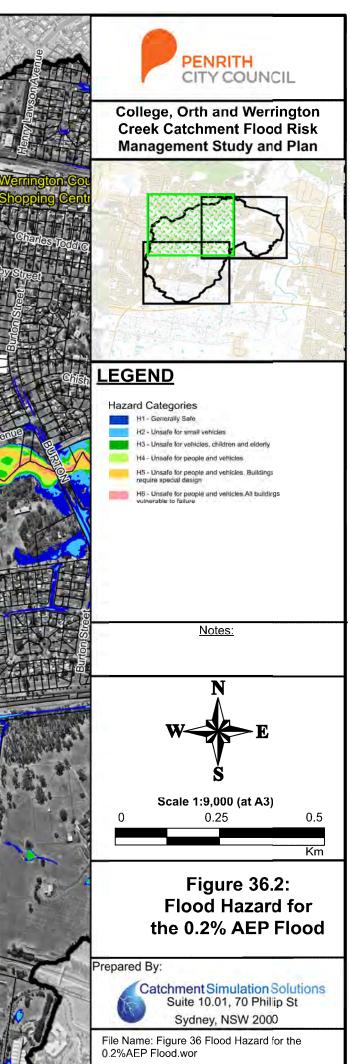


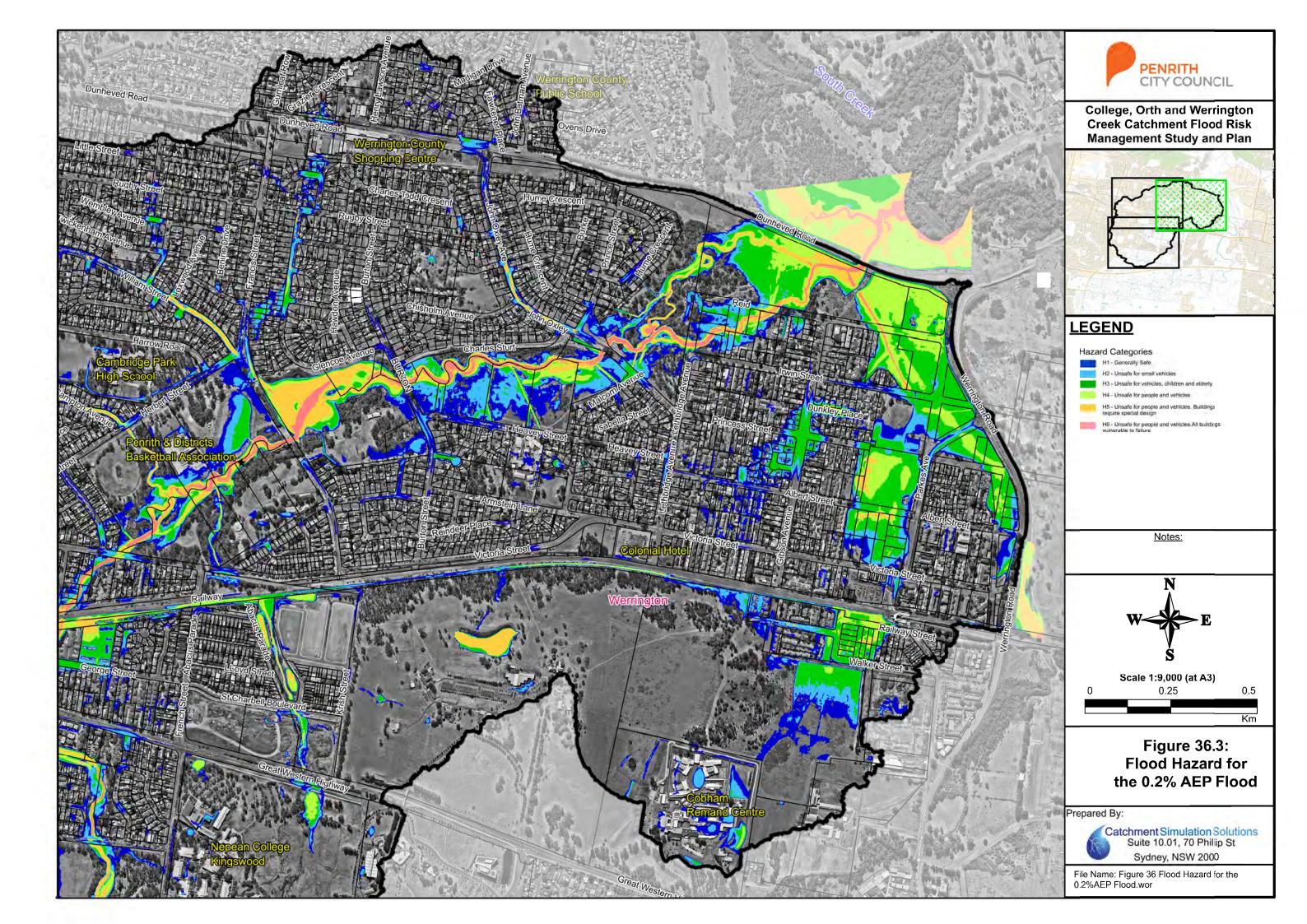


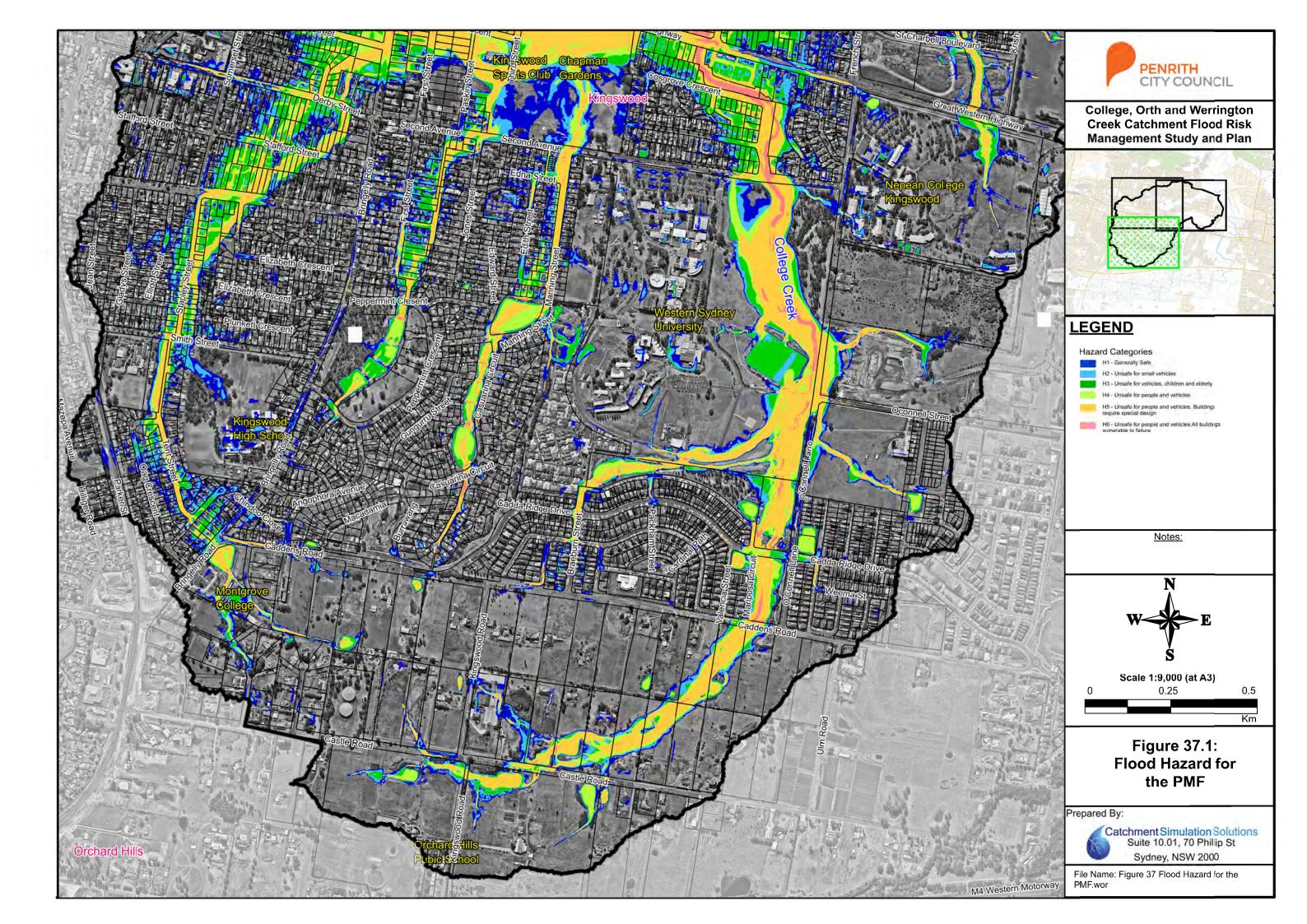


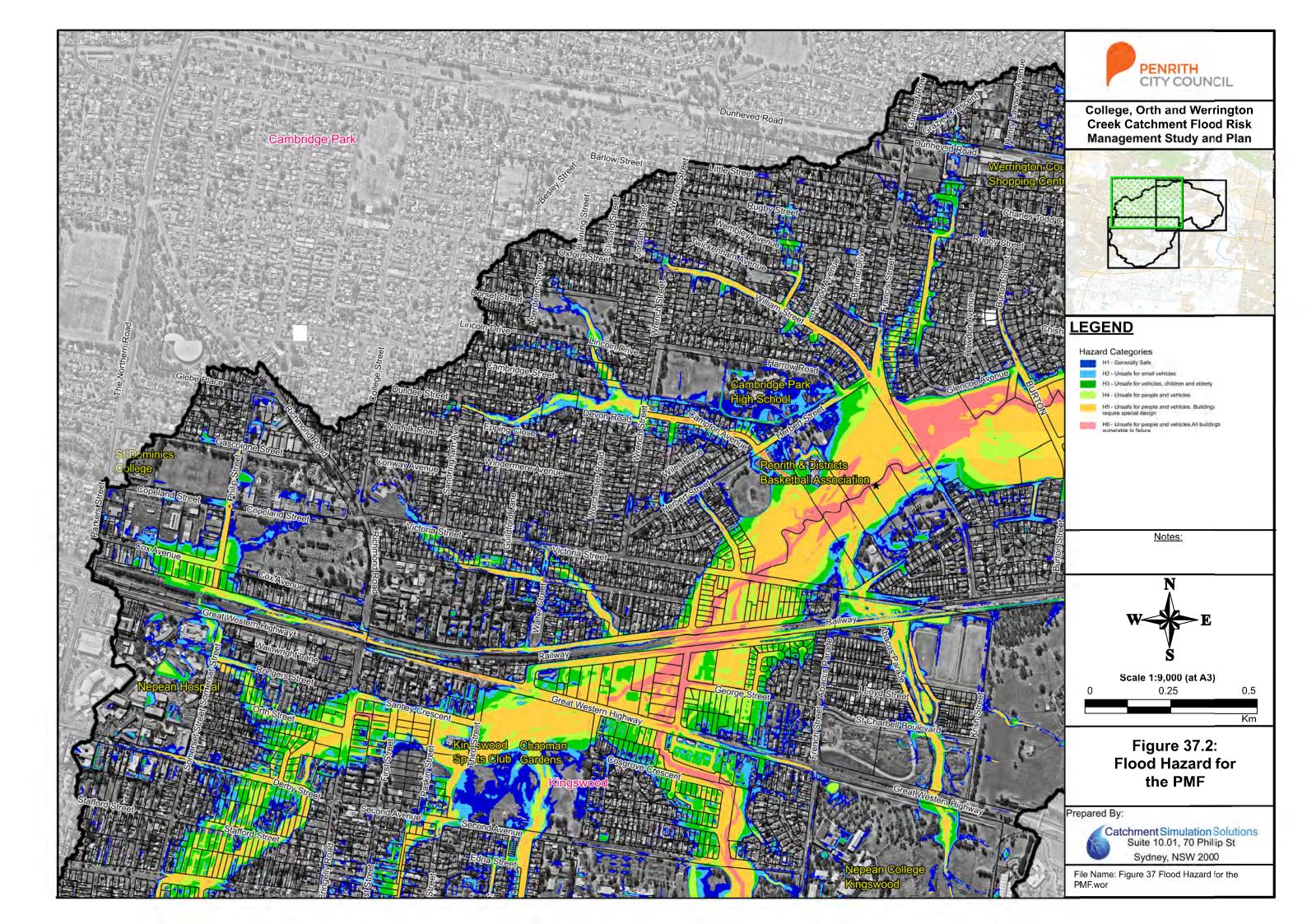


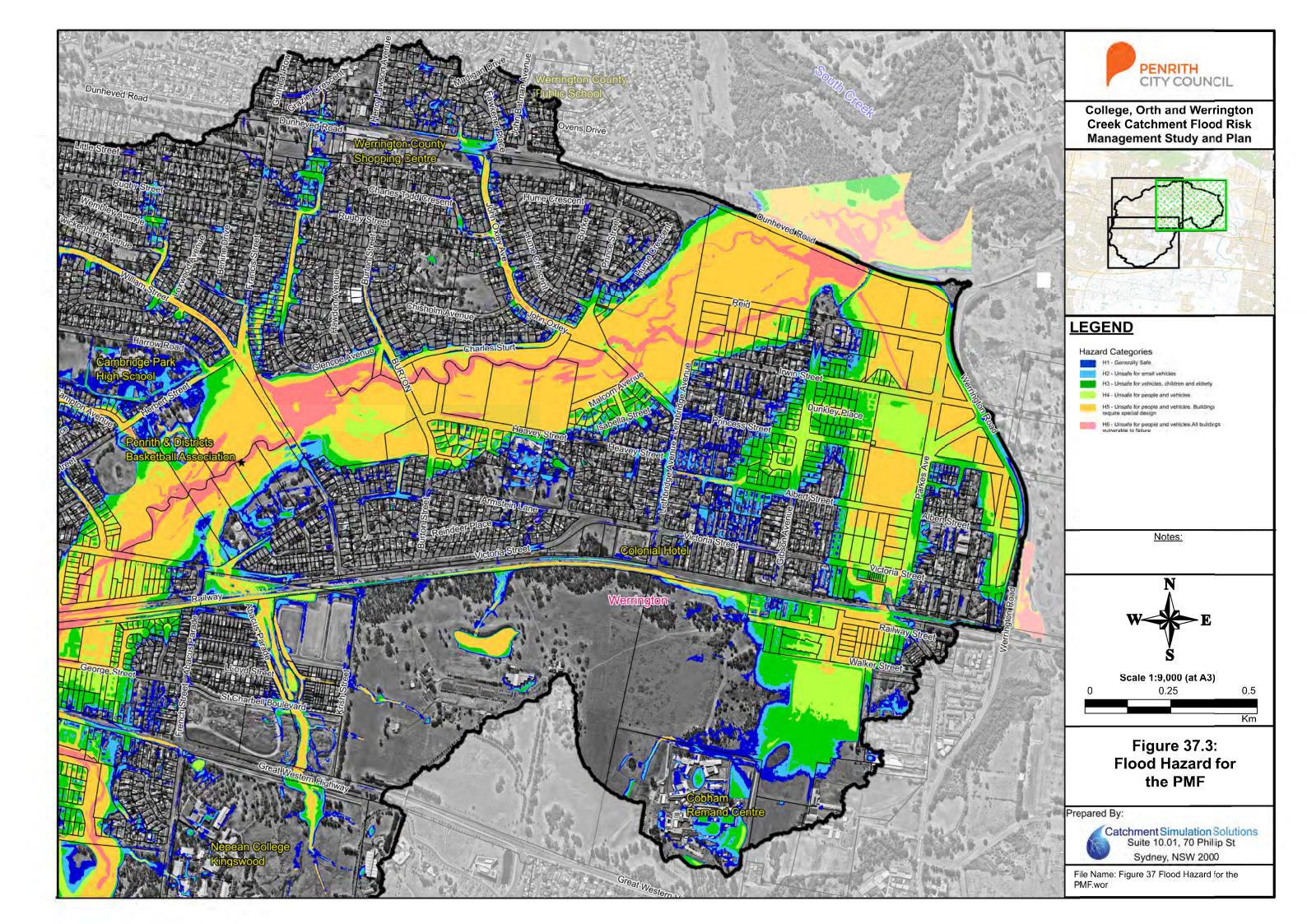


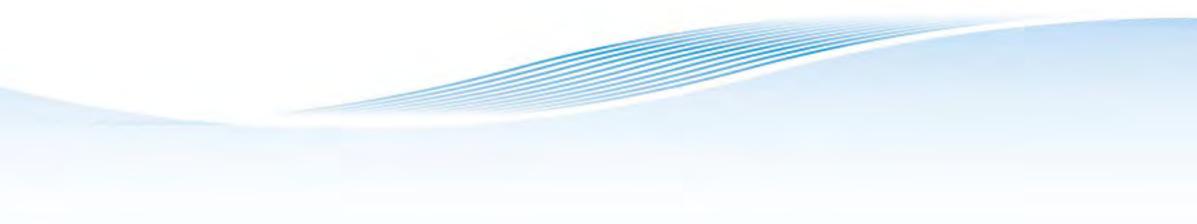






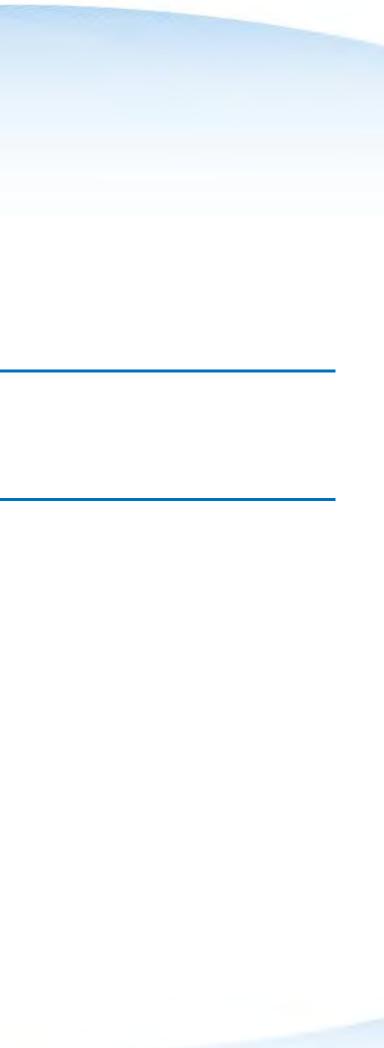




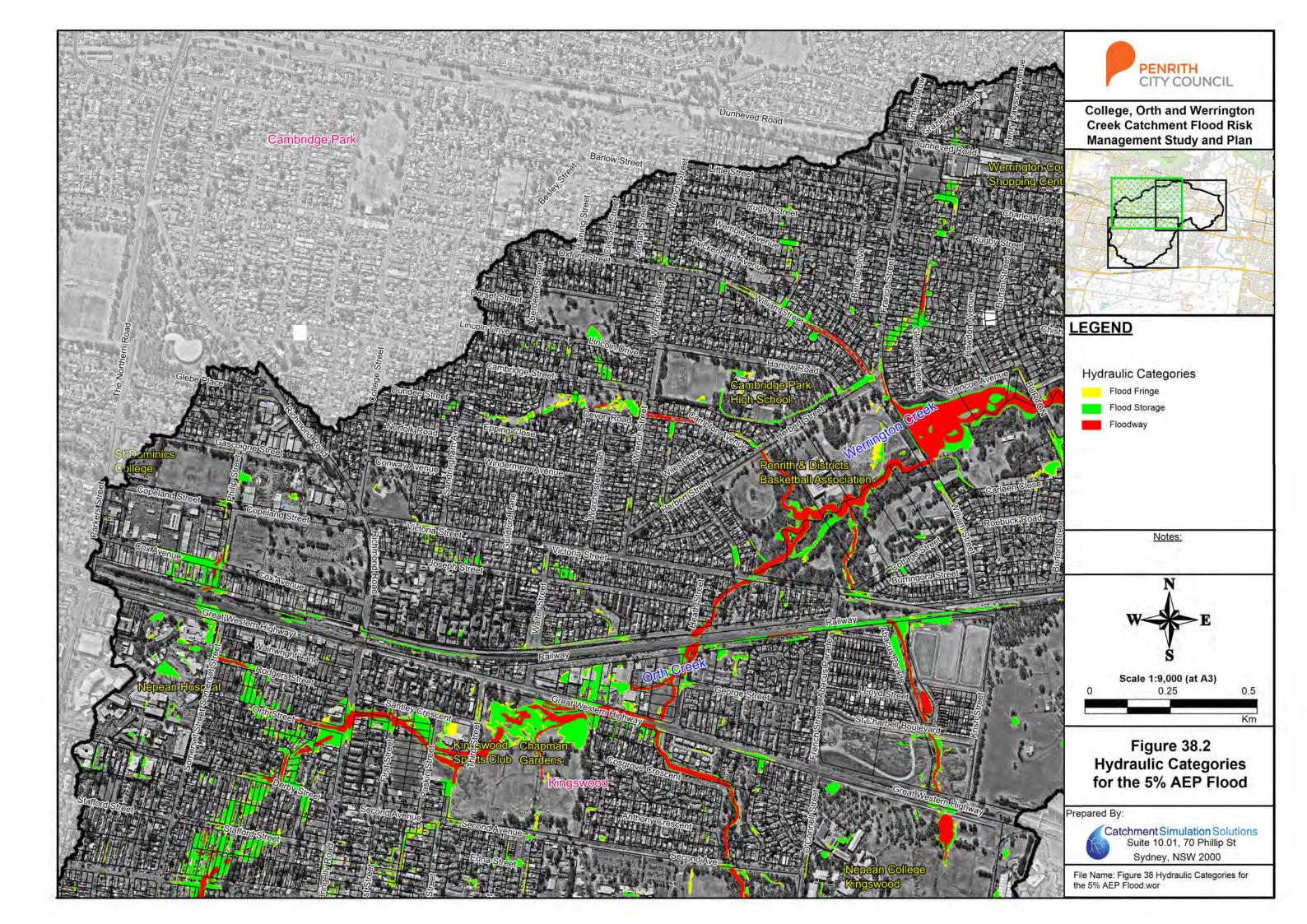


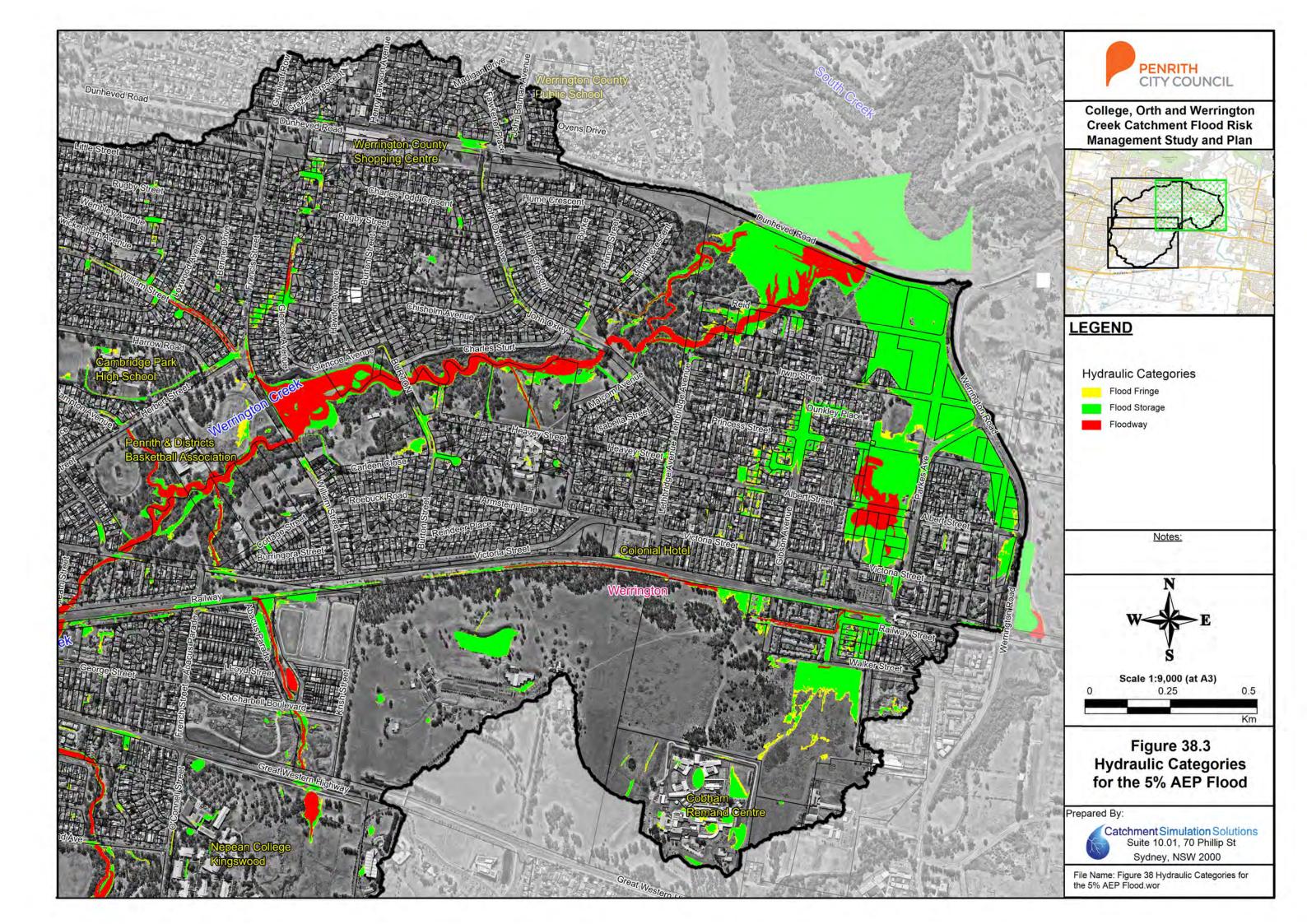
HYDRAULIC CATEGORY MAPS

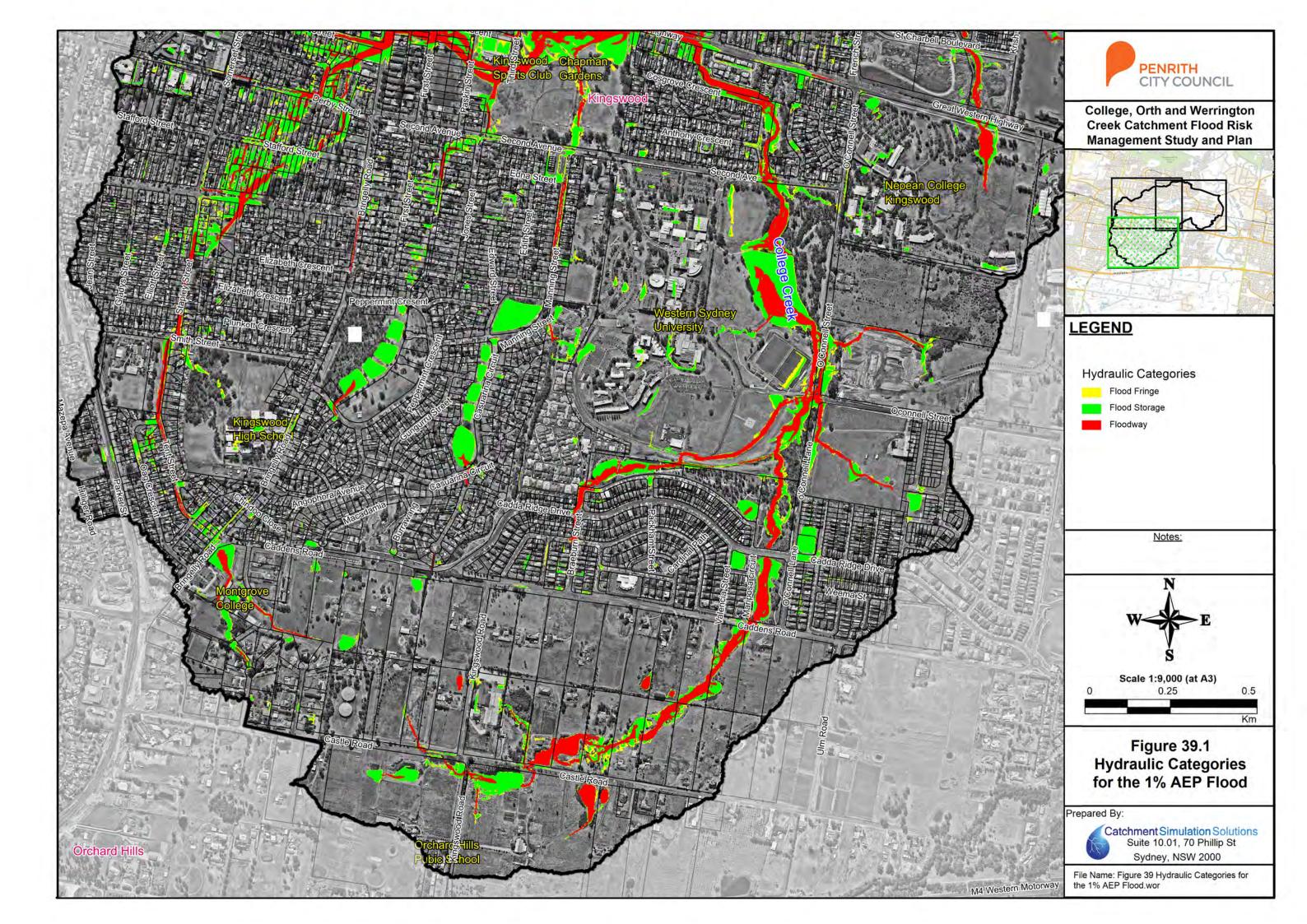
Catchment Simulation Solutions

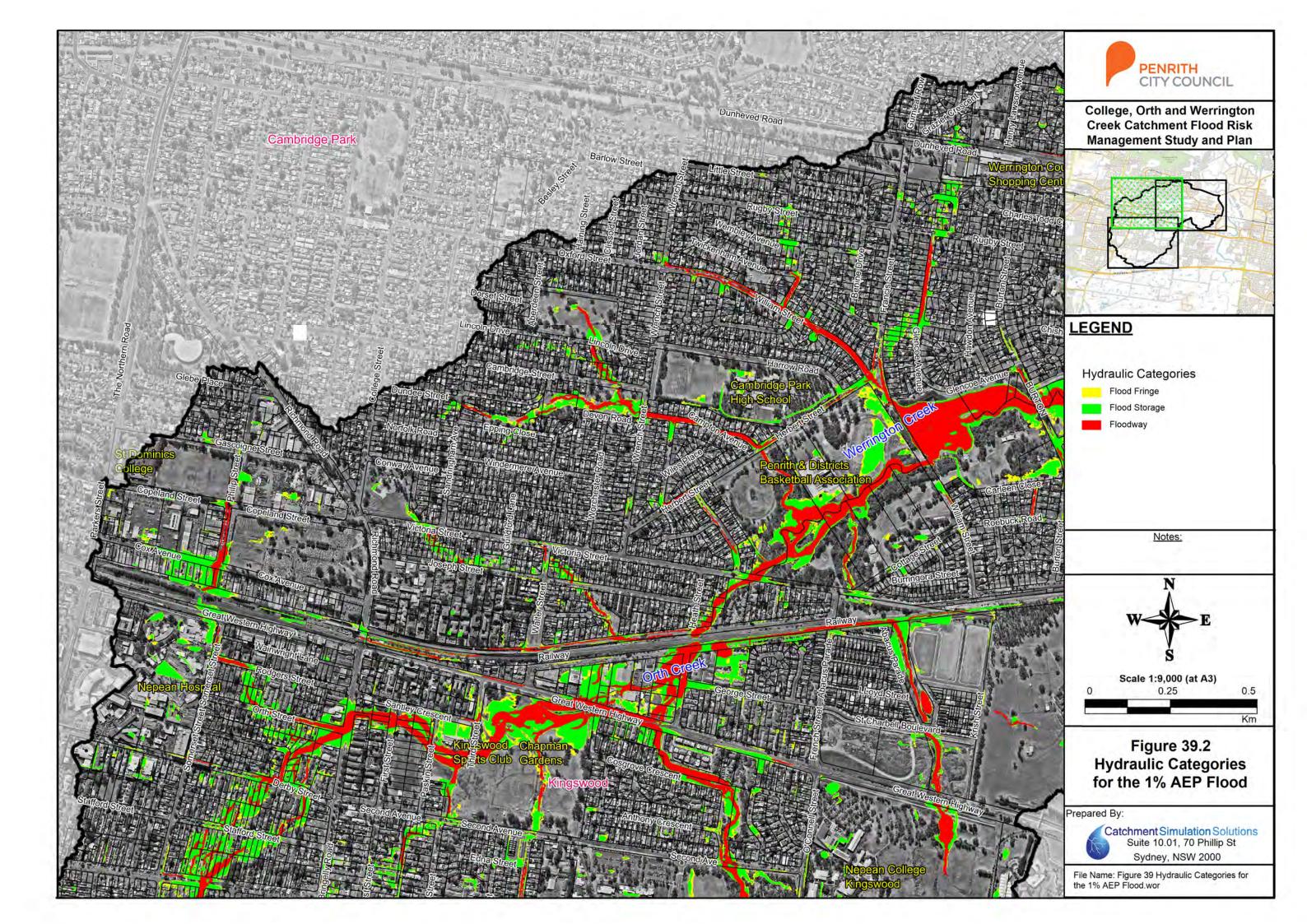


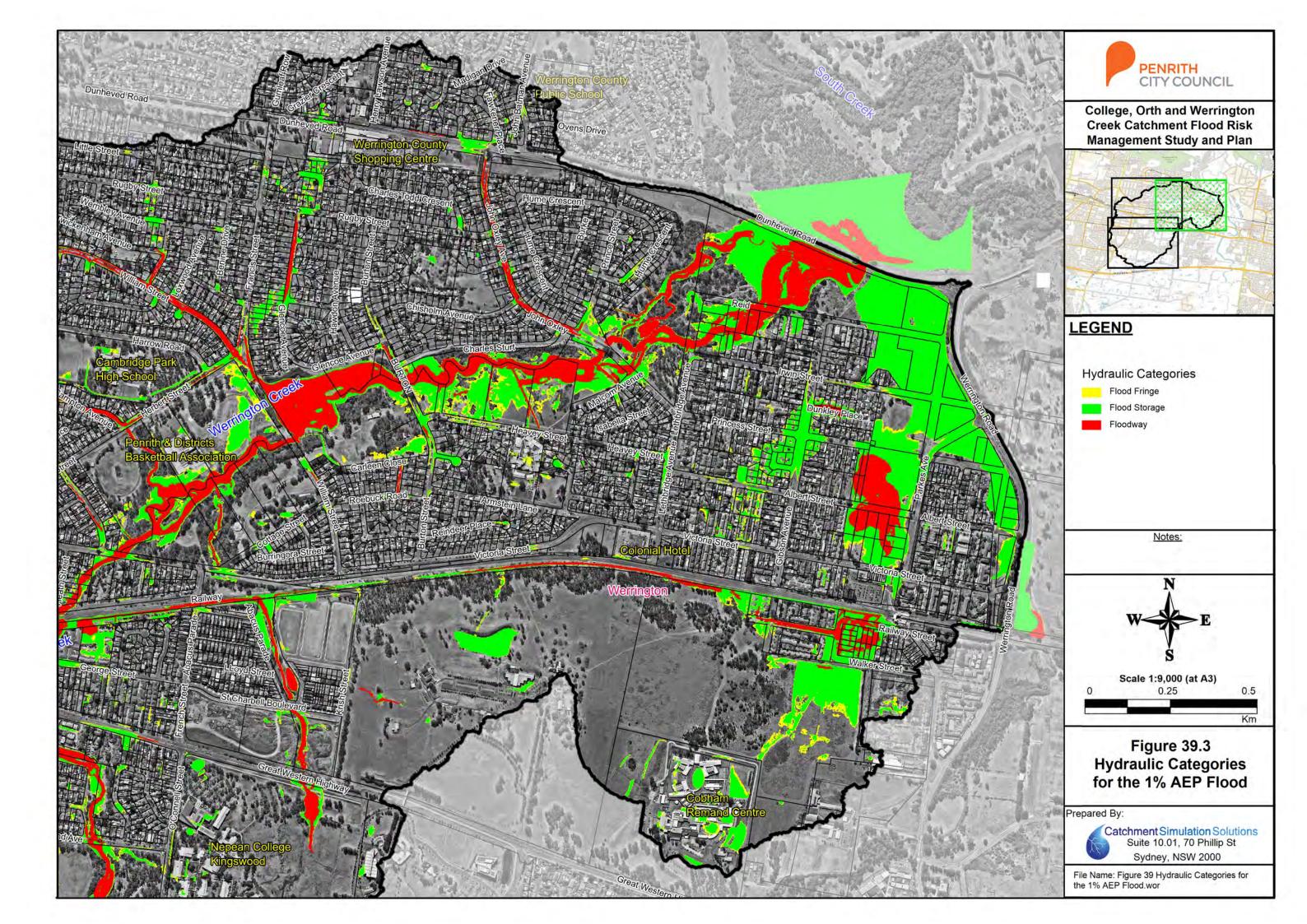


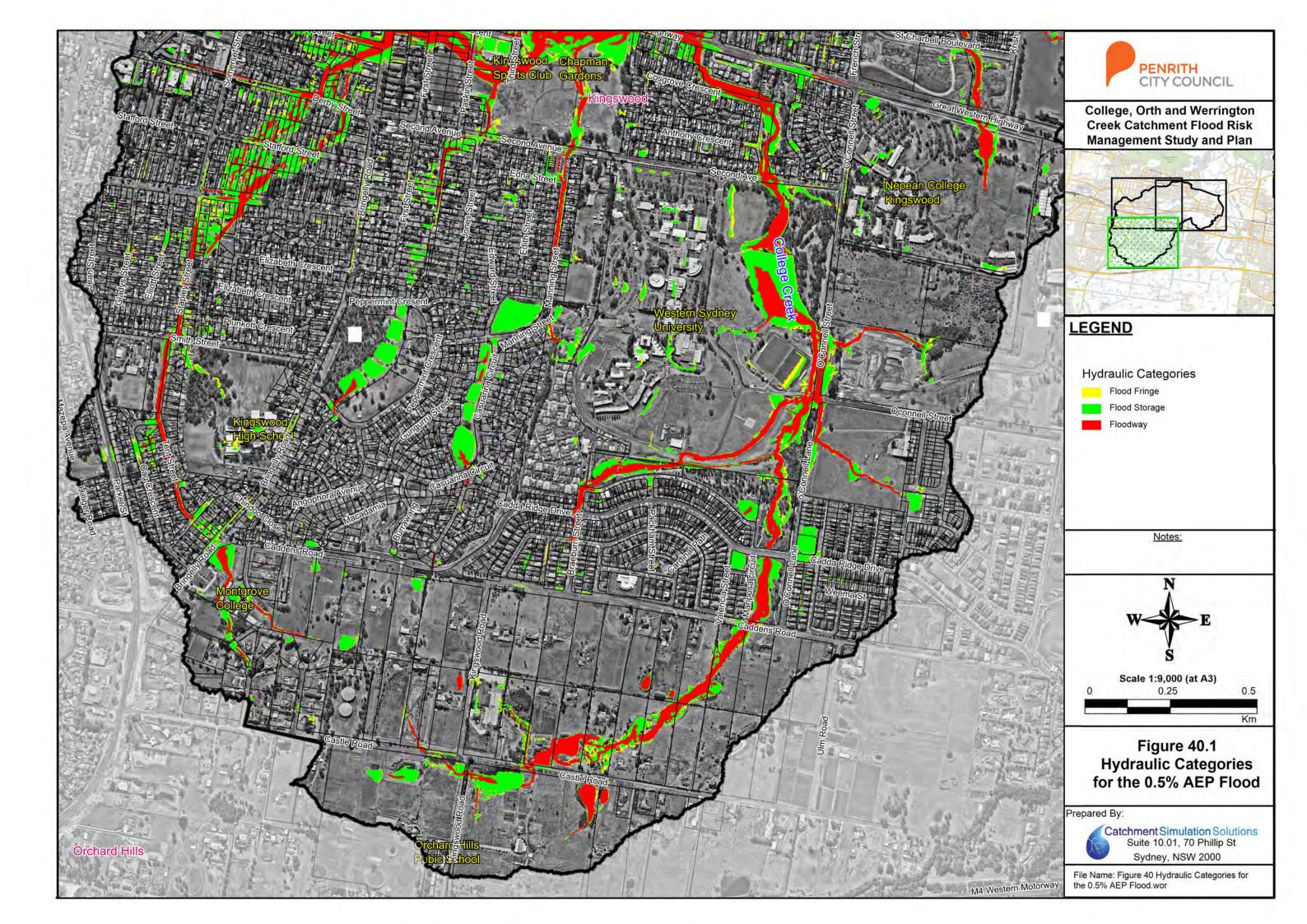


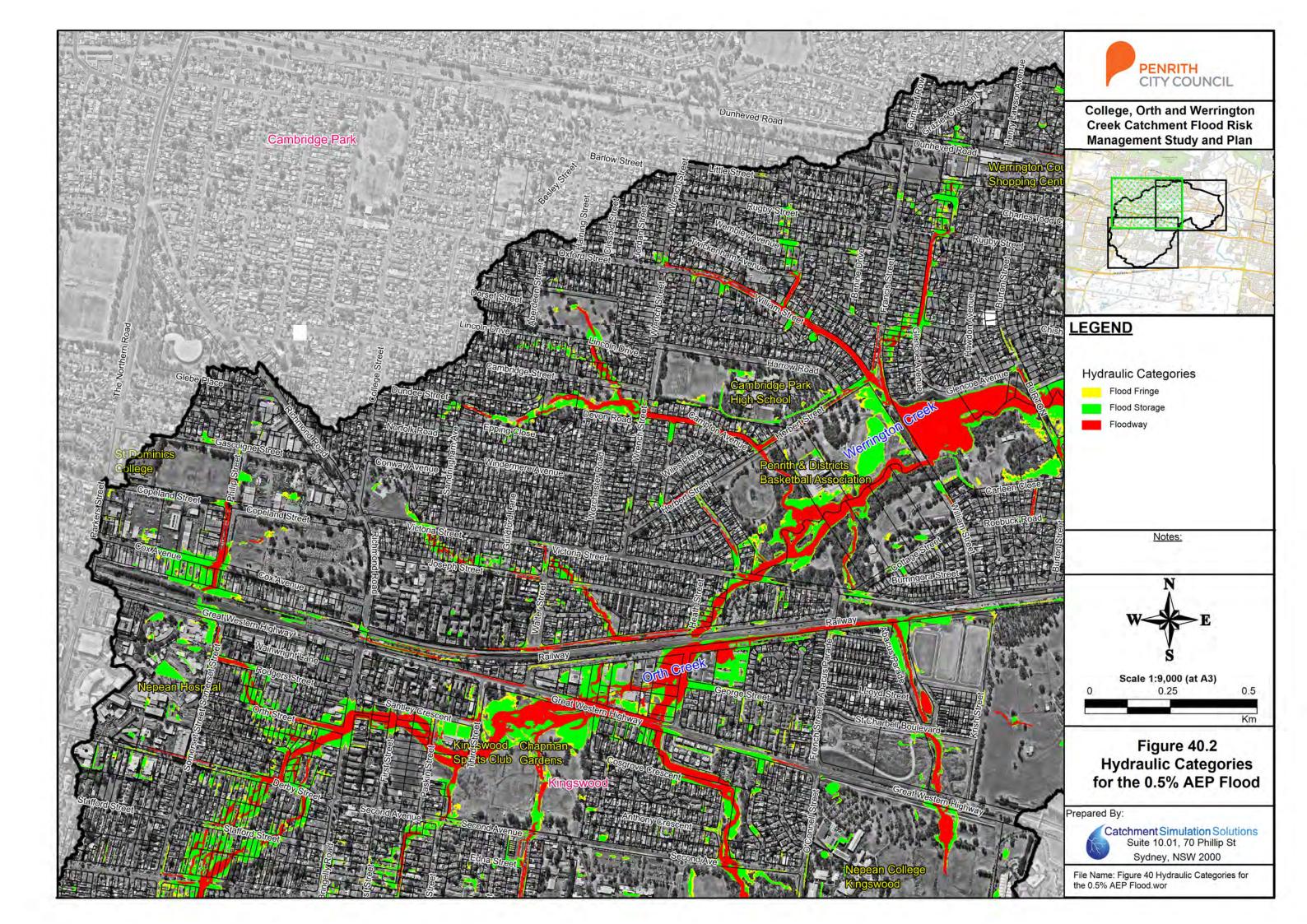


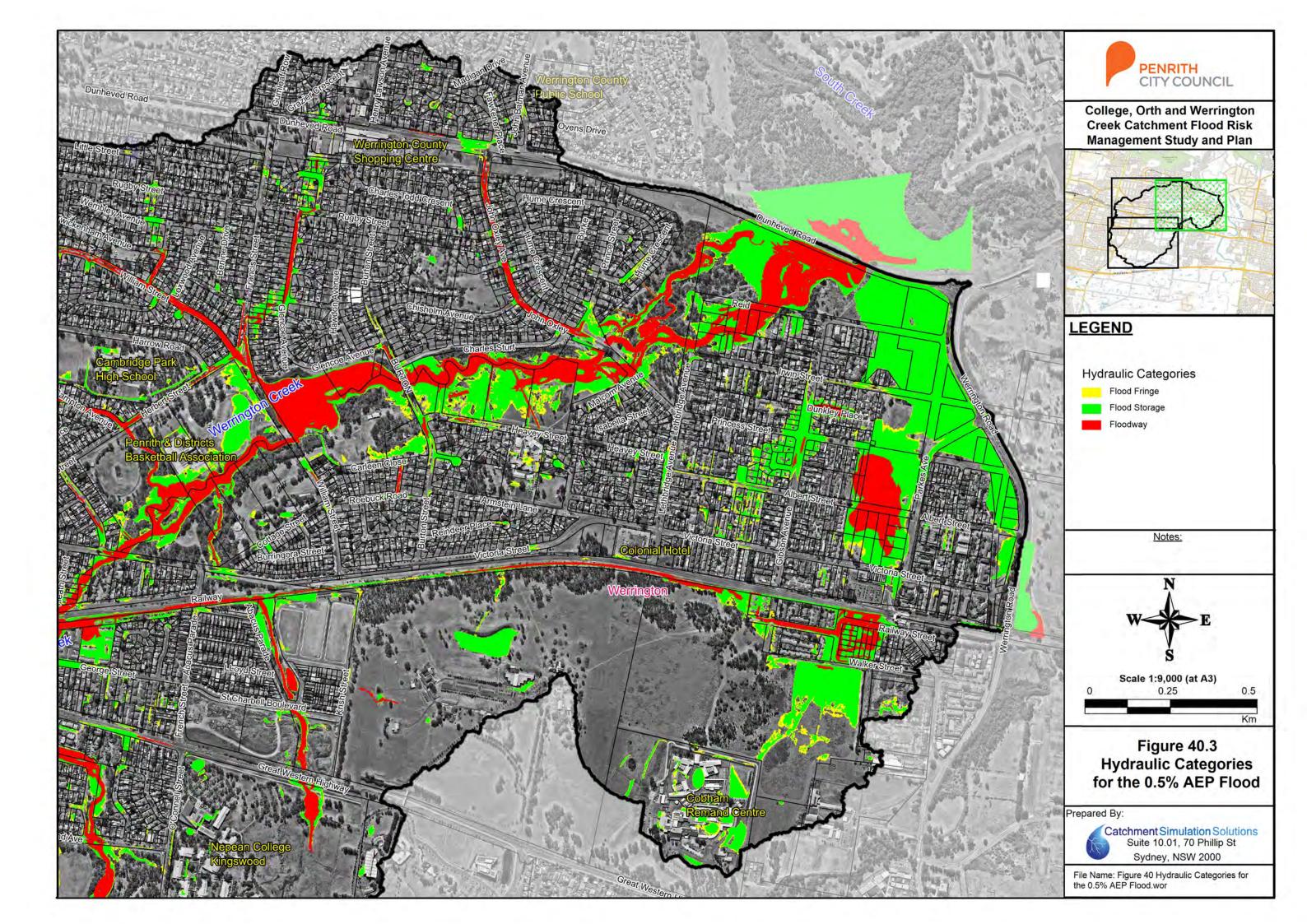


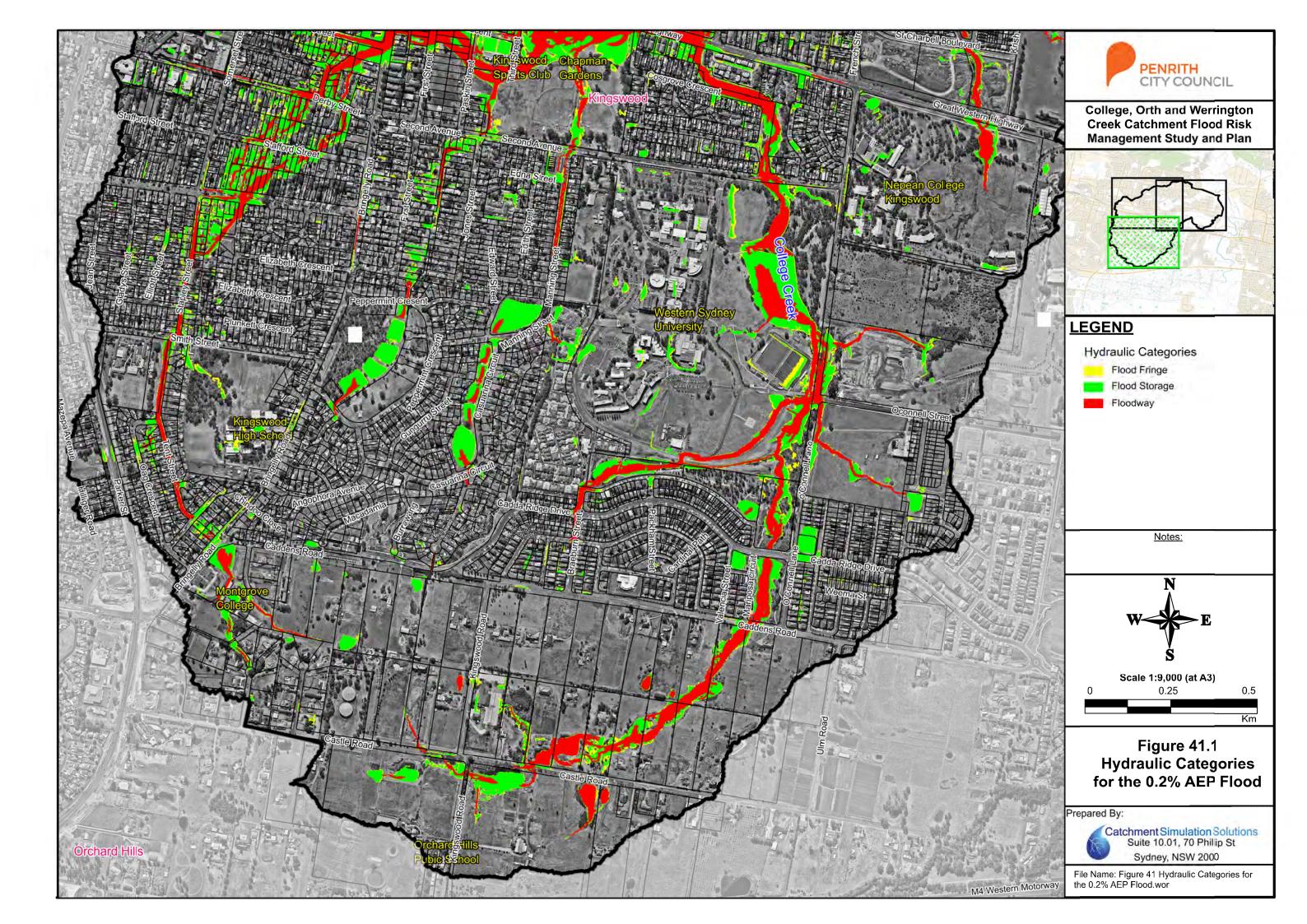


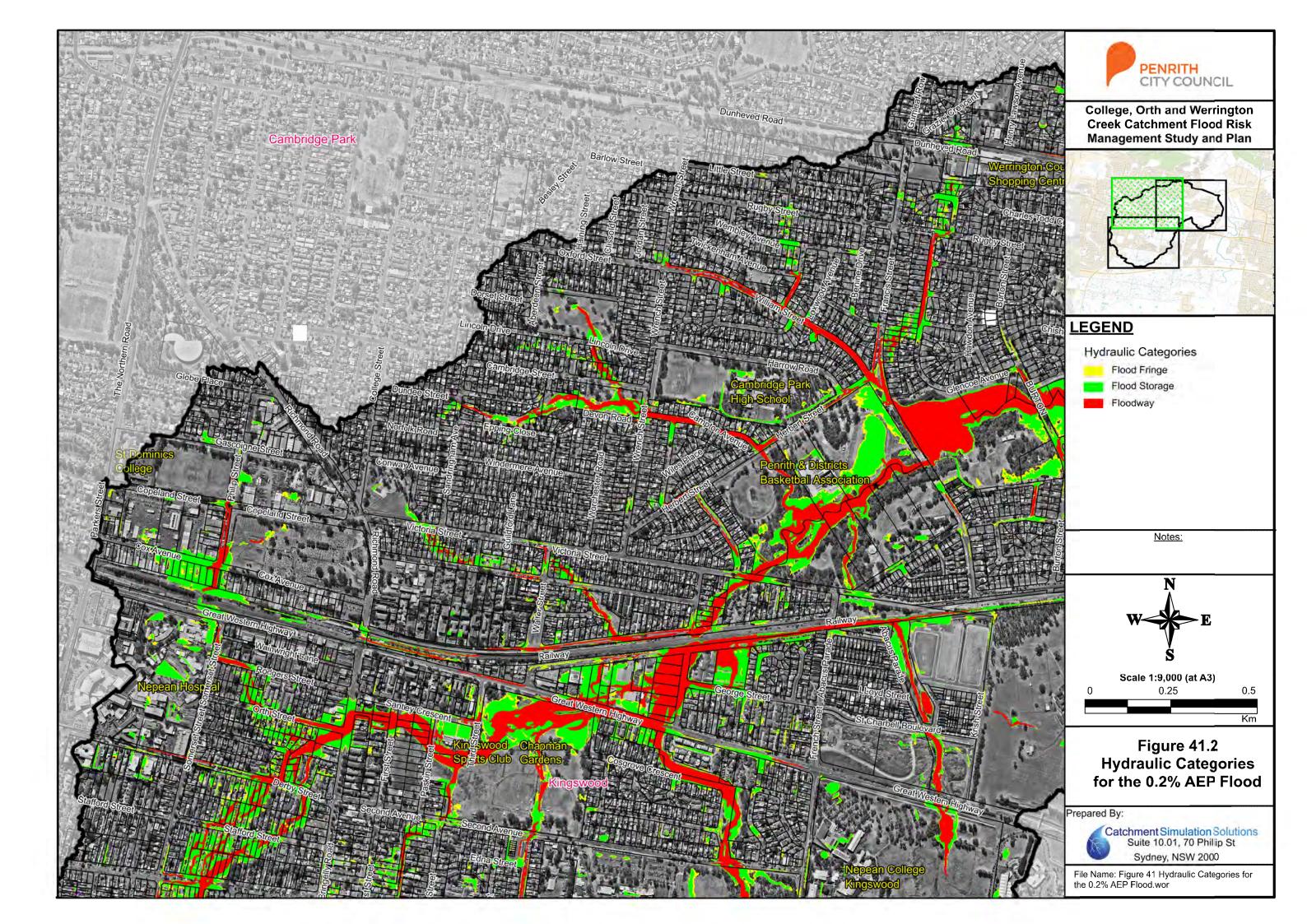


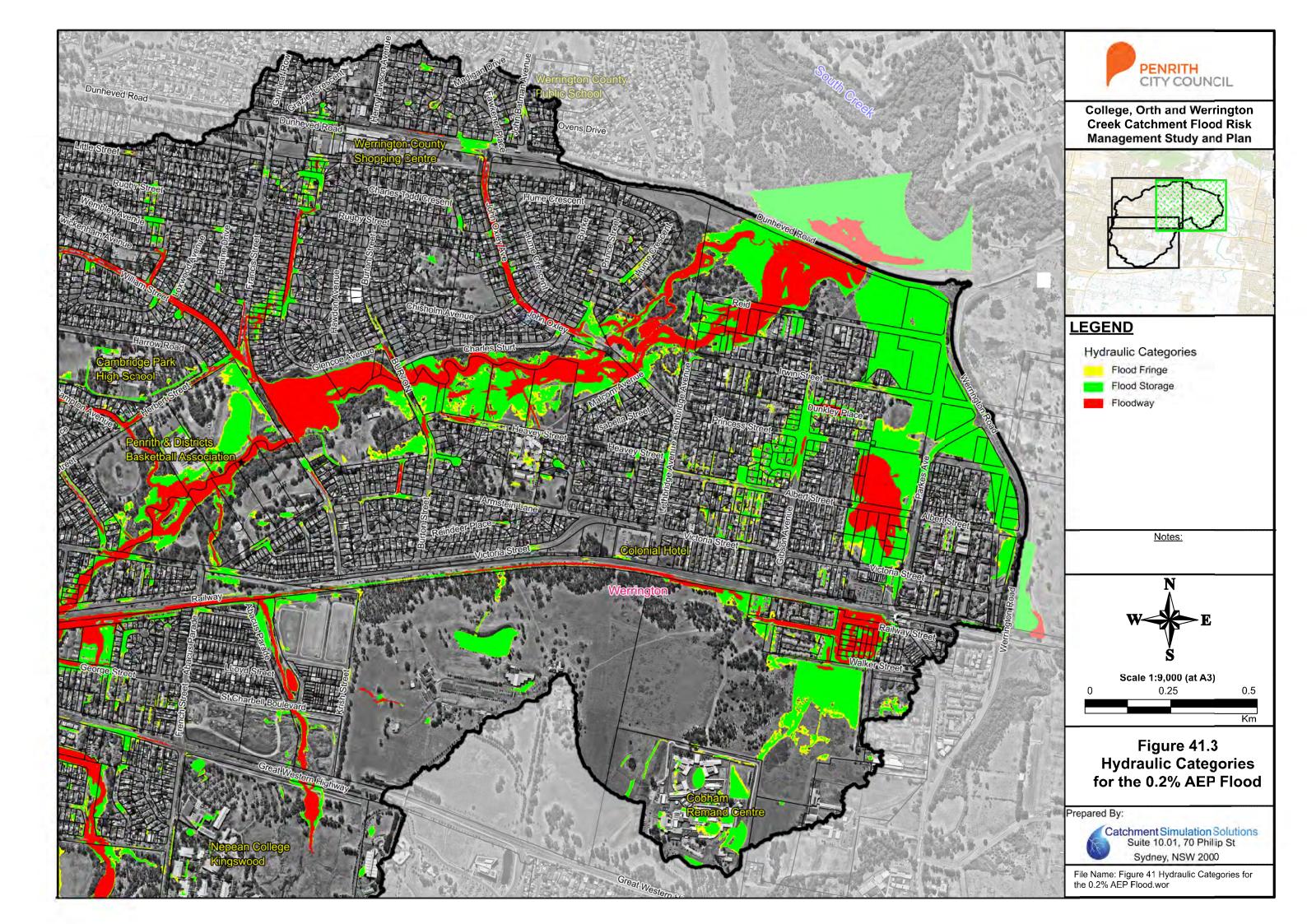


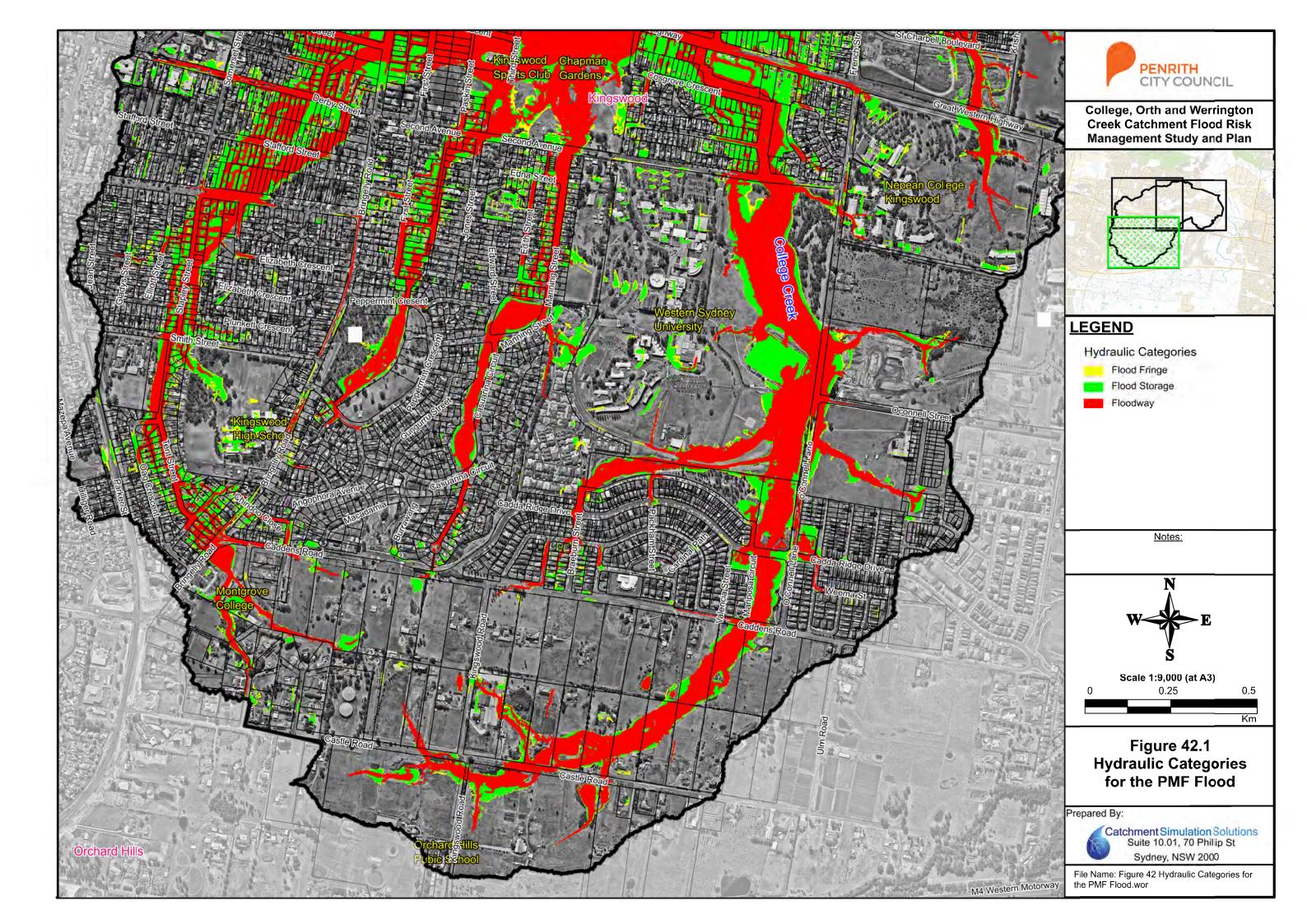


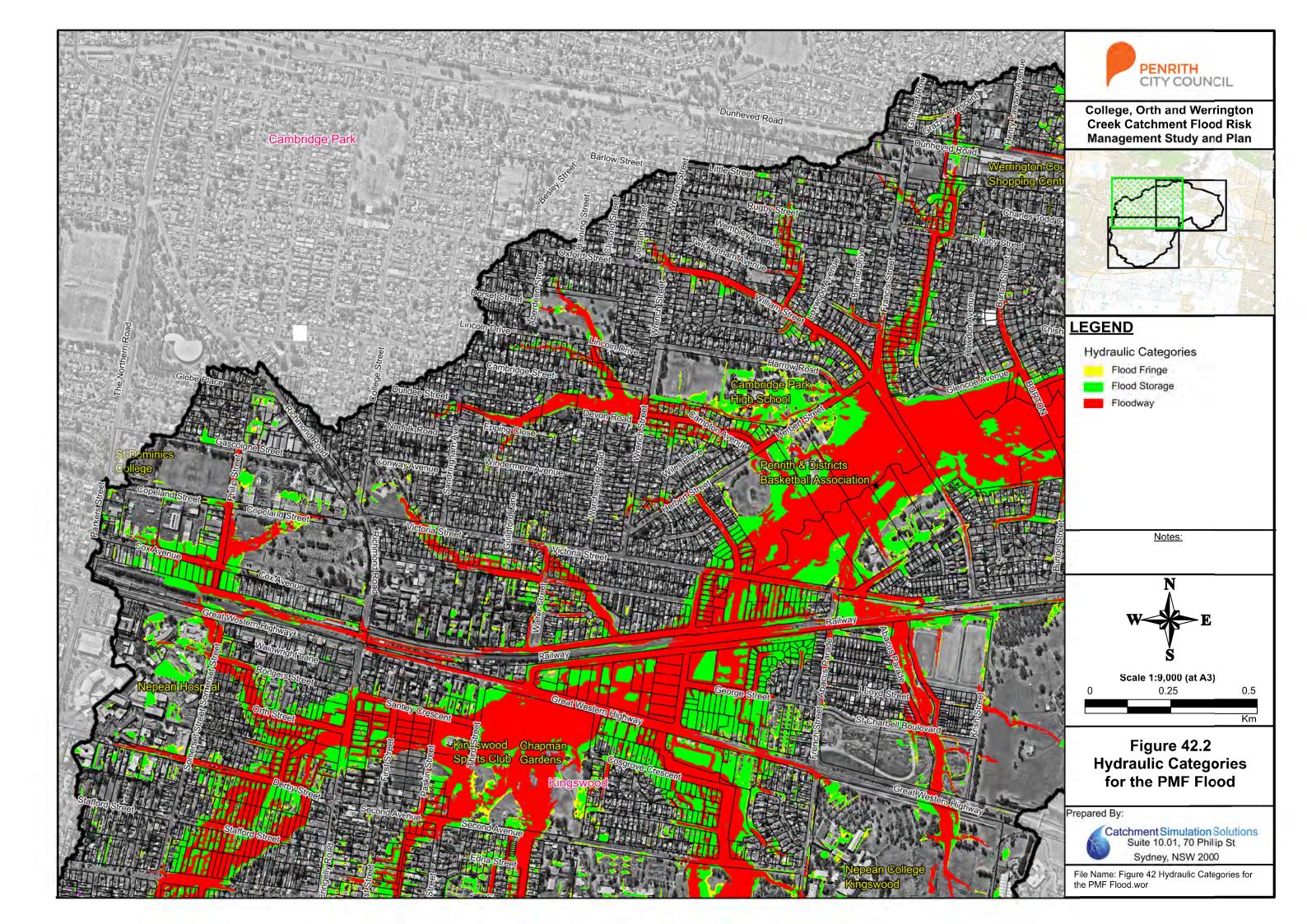




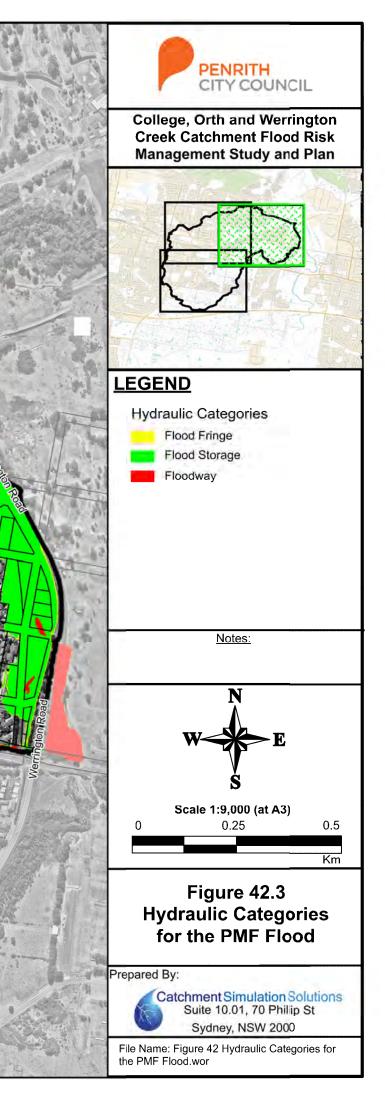


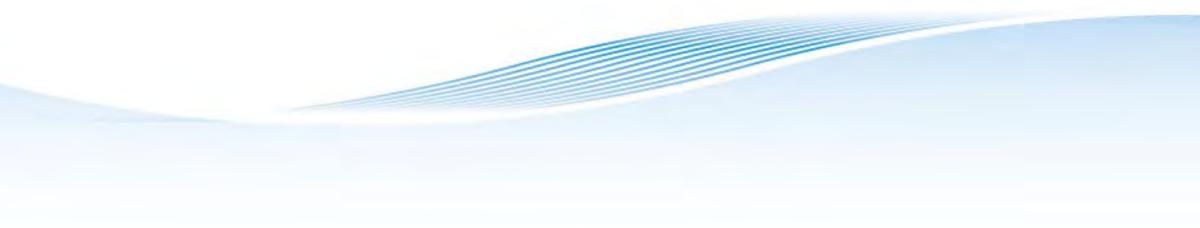




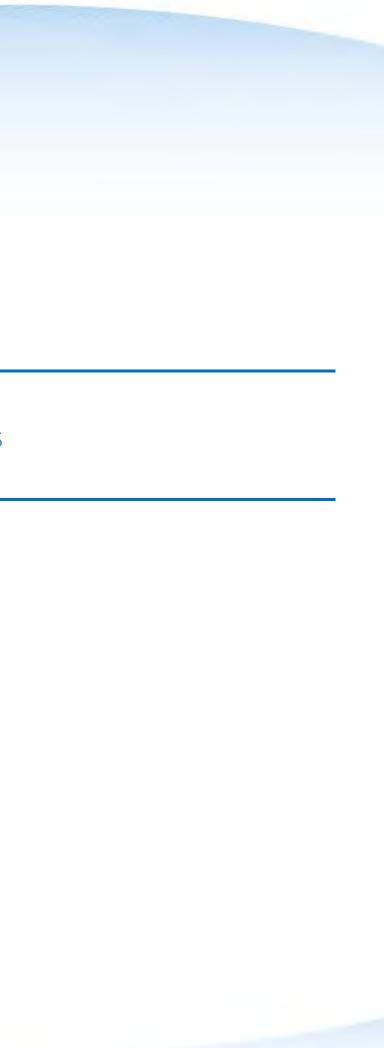


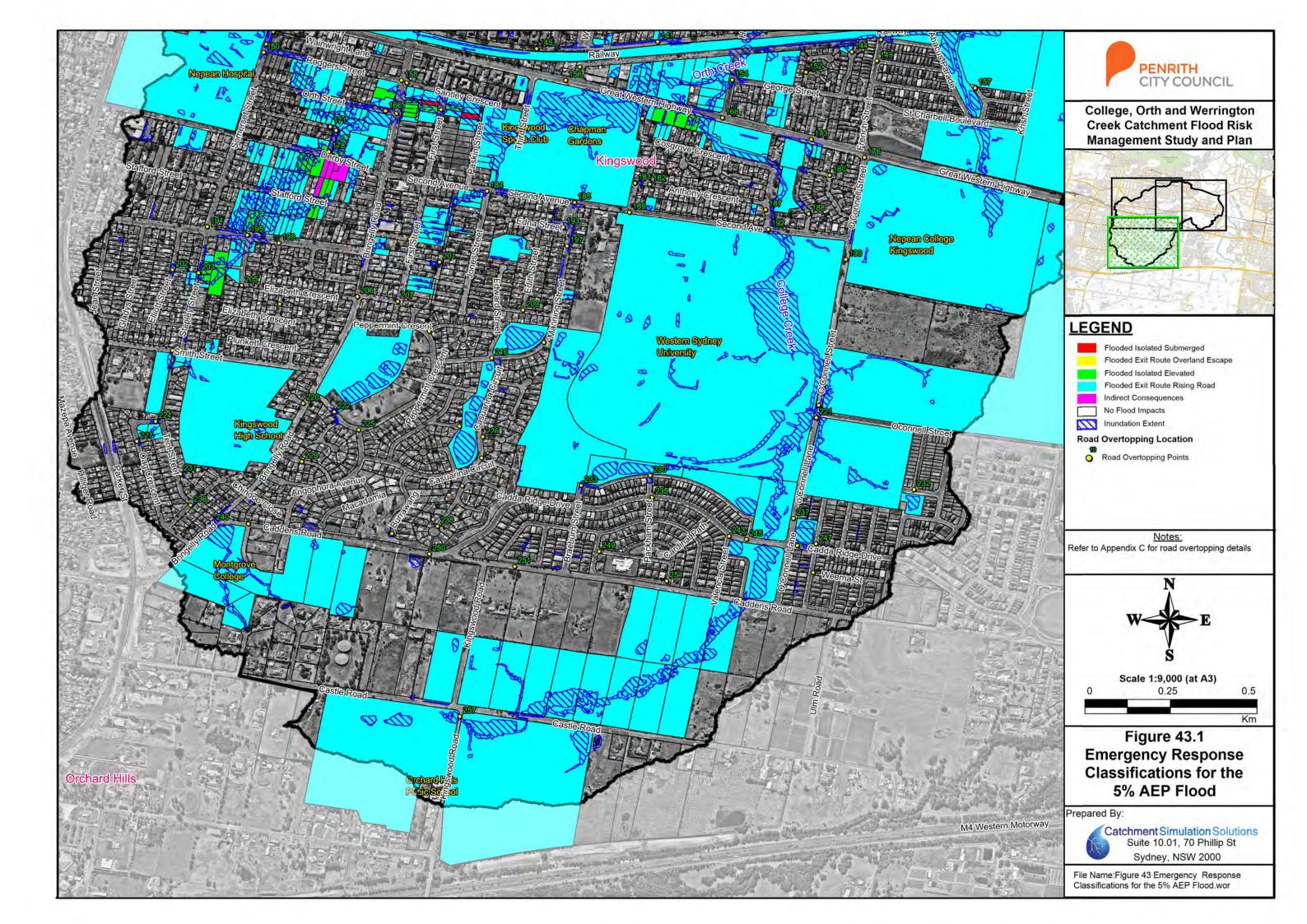
Dunheved Road Refr

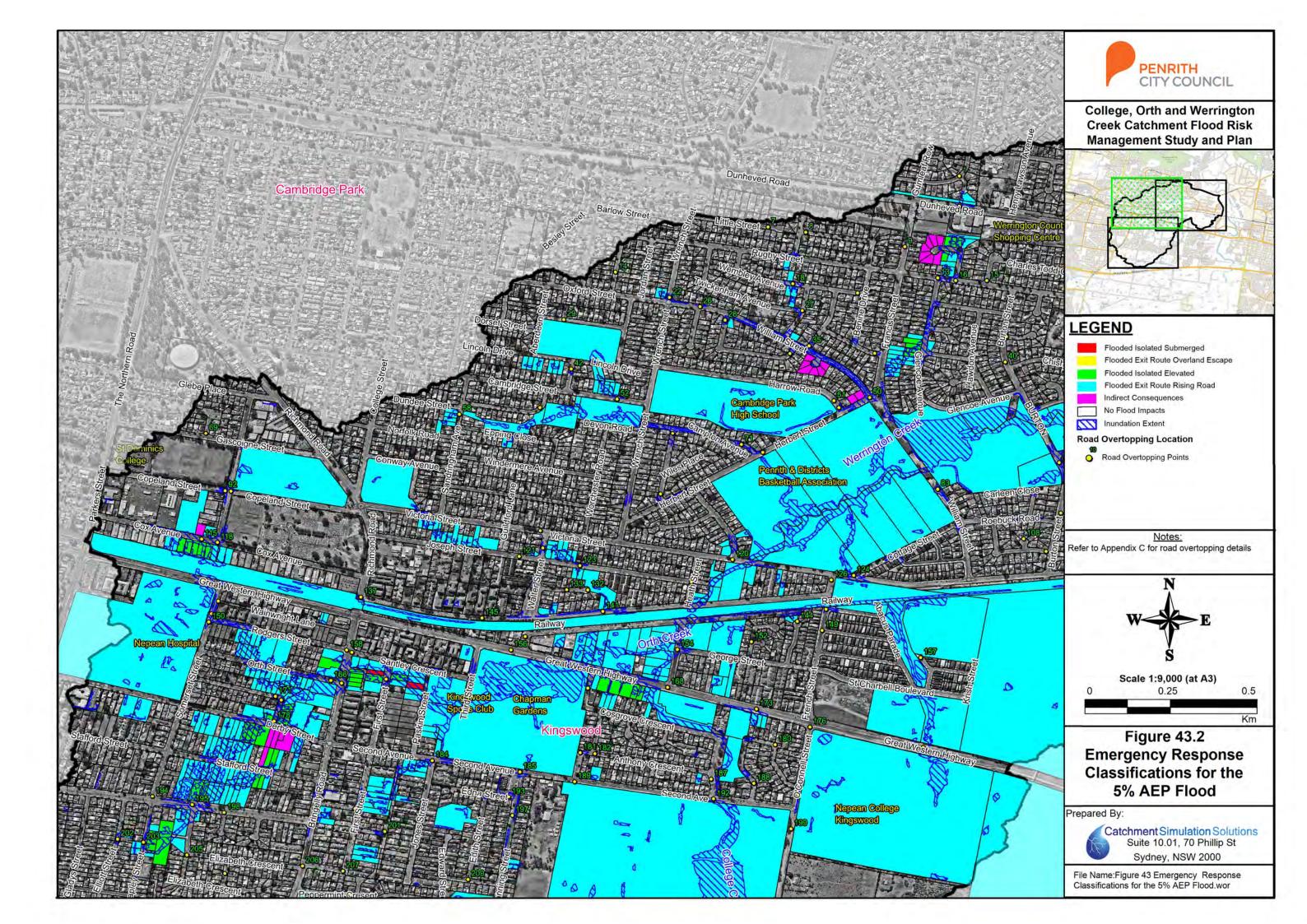


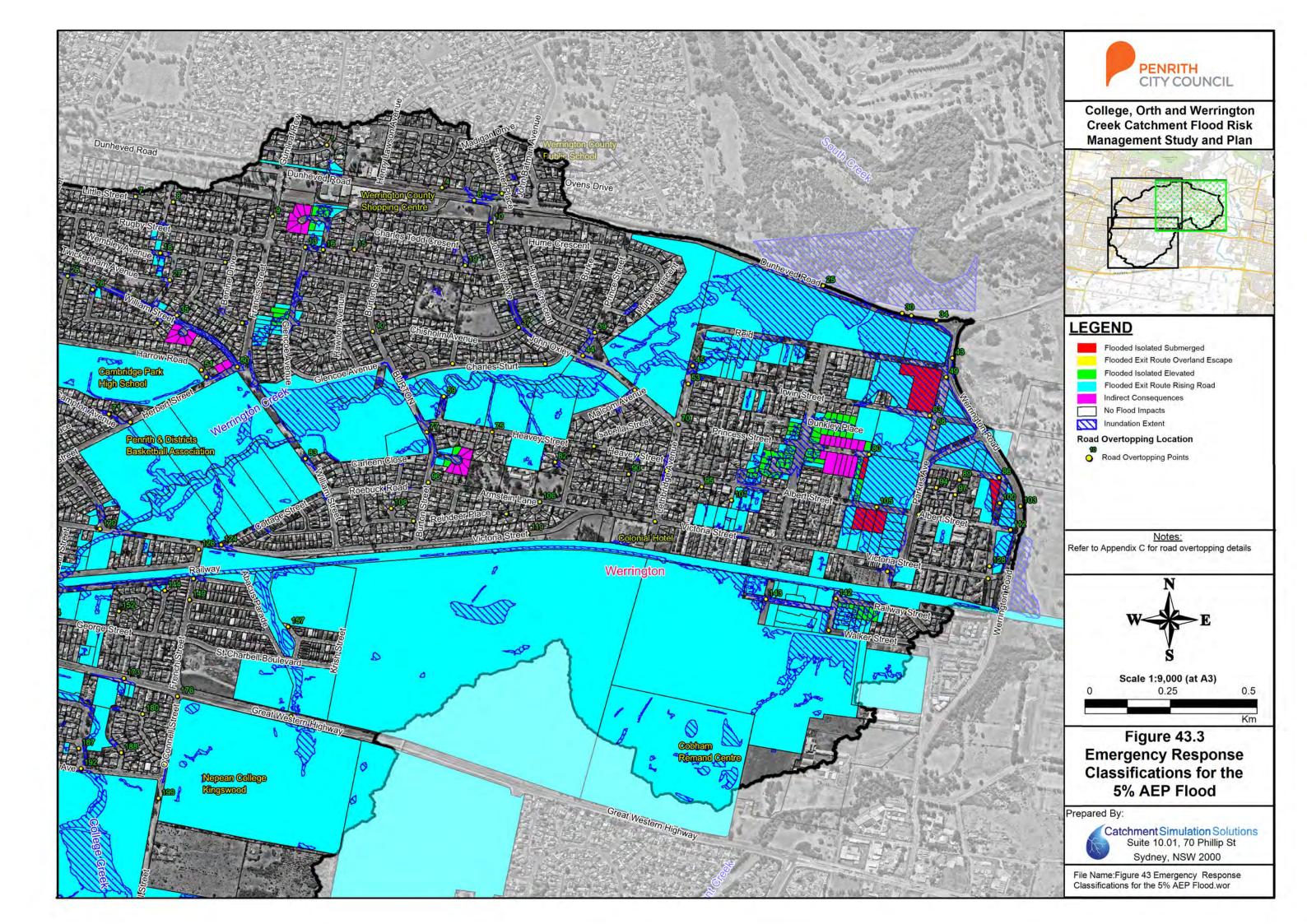


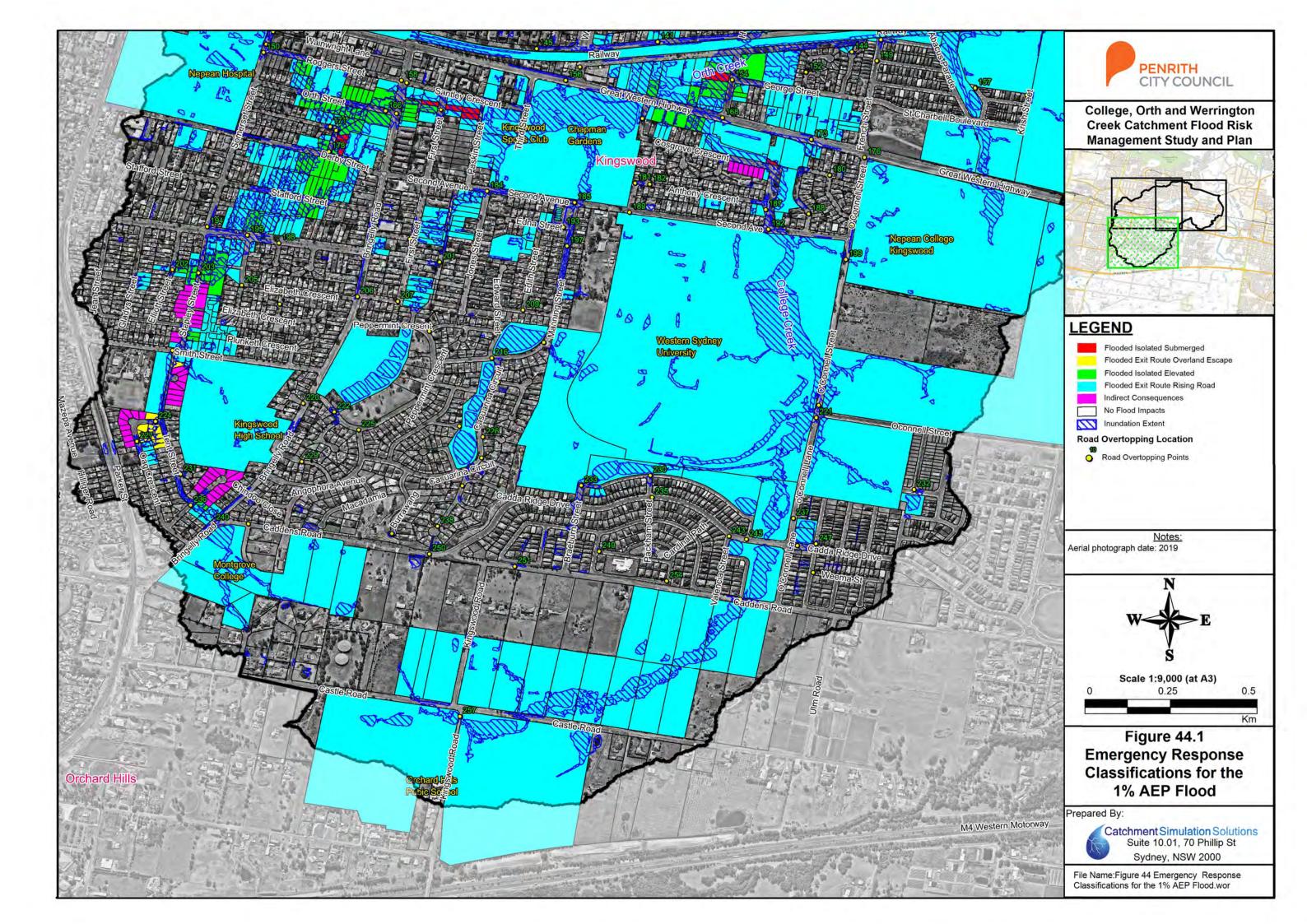
EMERGENCY RESPONSE PRECINCT CLASSIFICATIONS

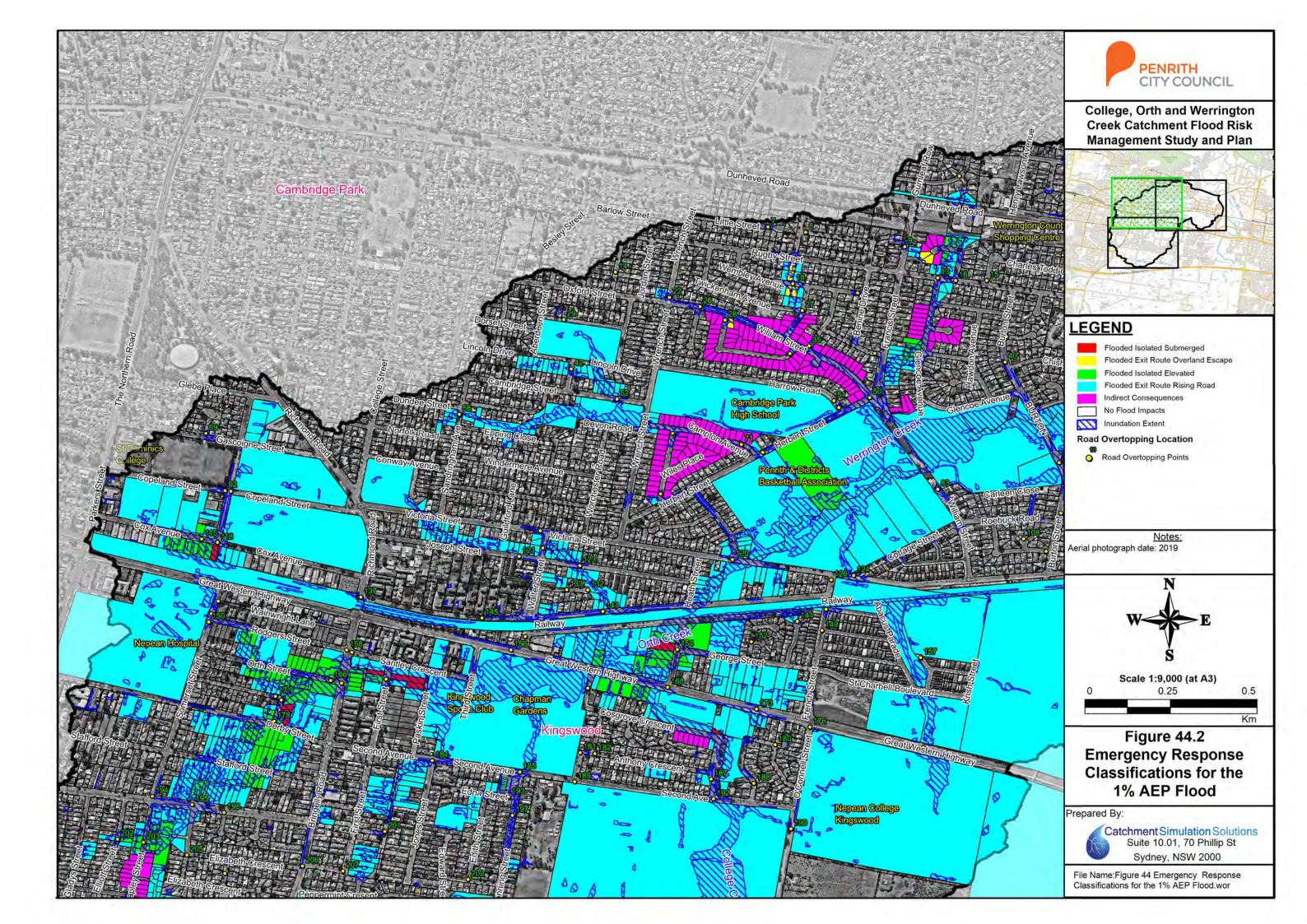


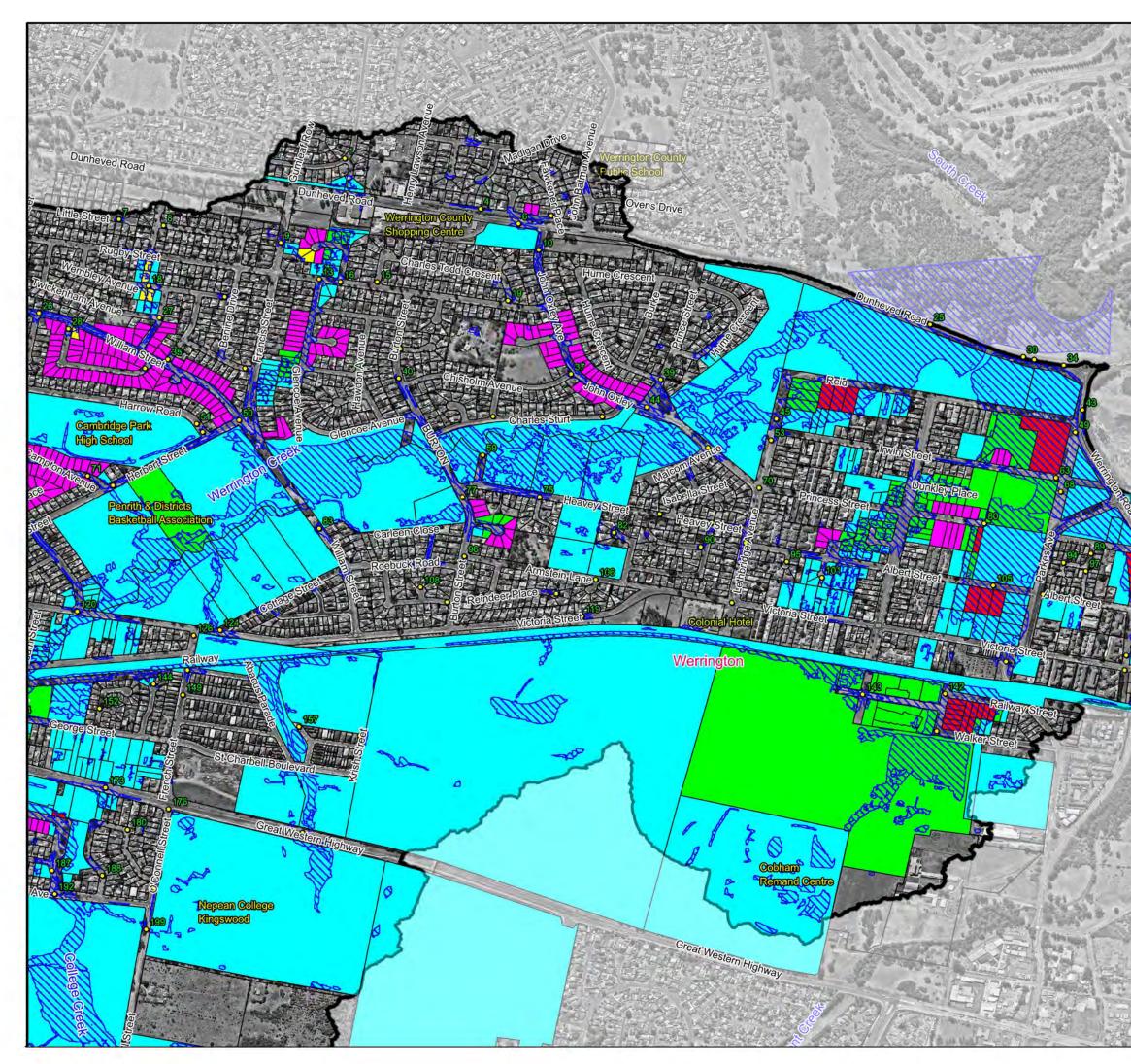


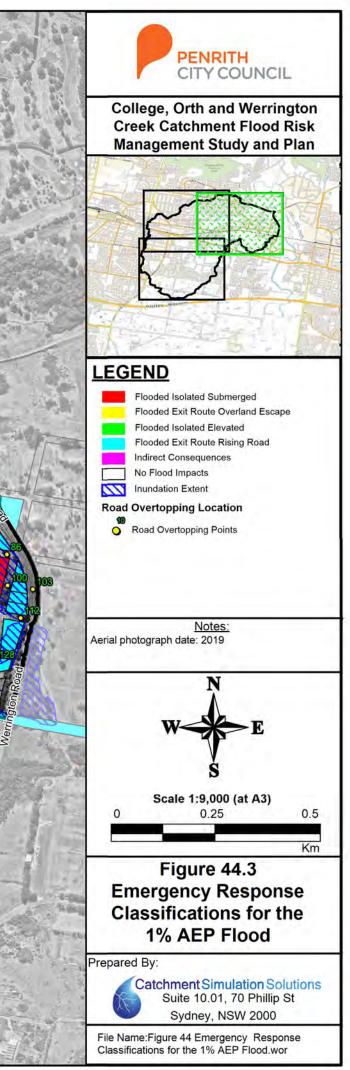


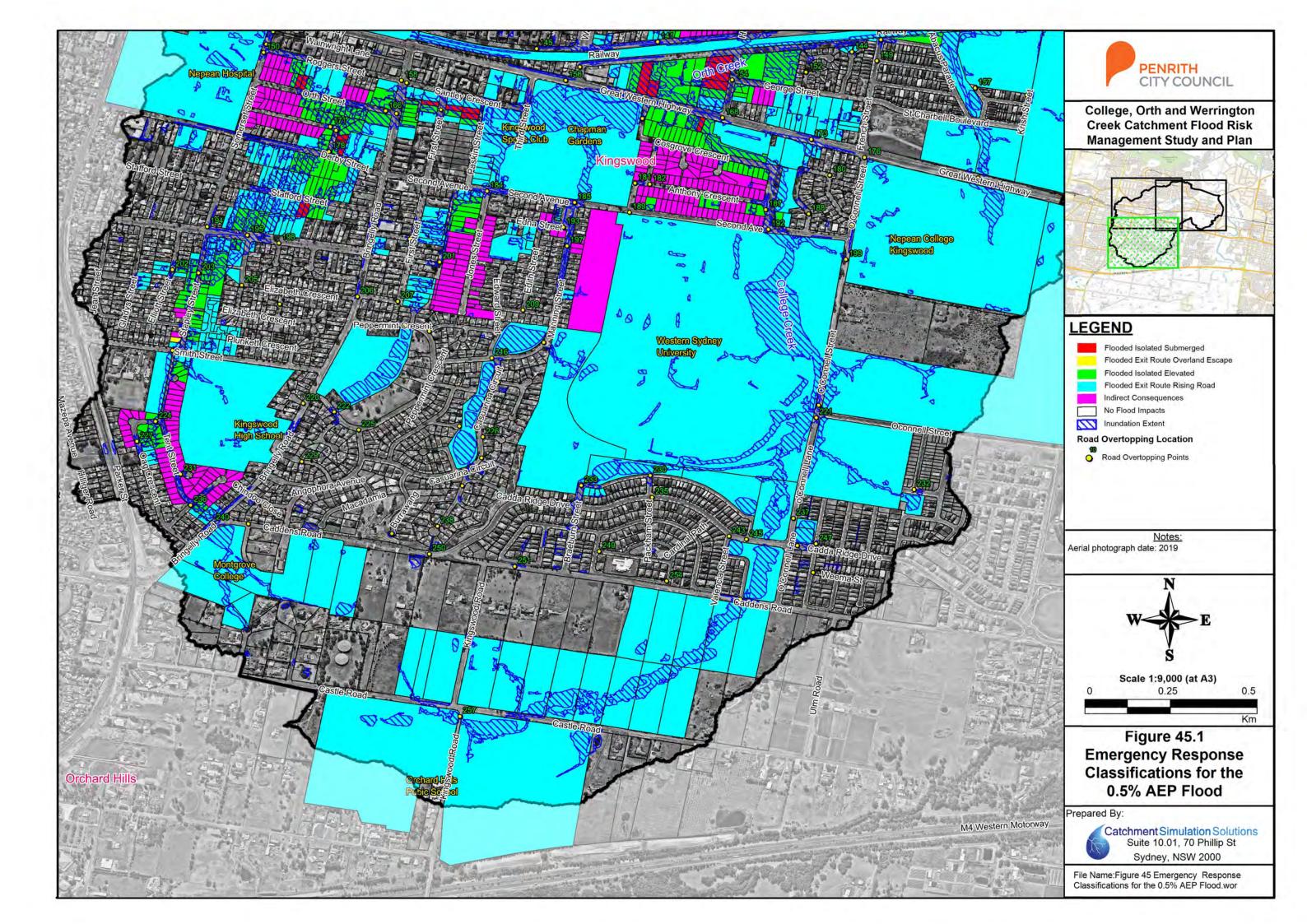


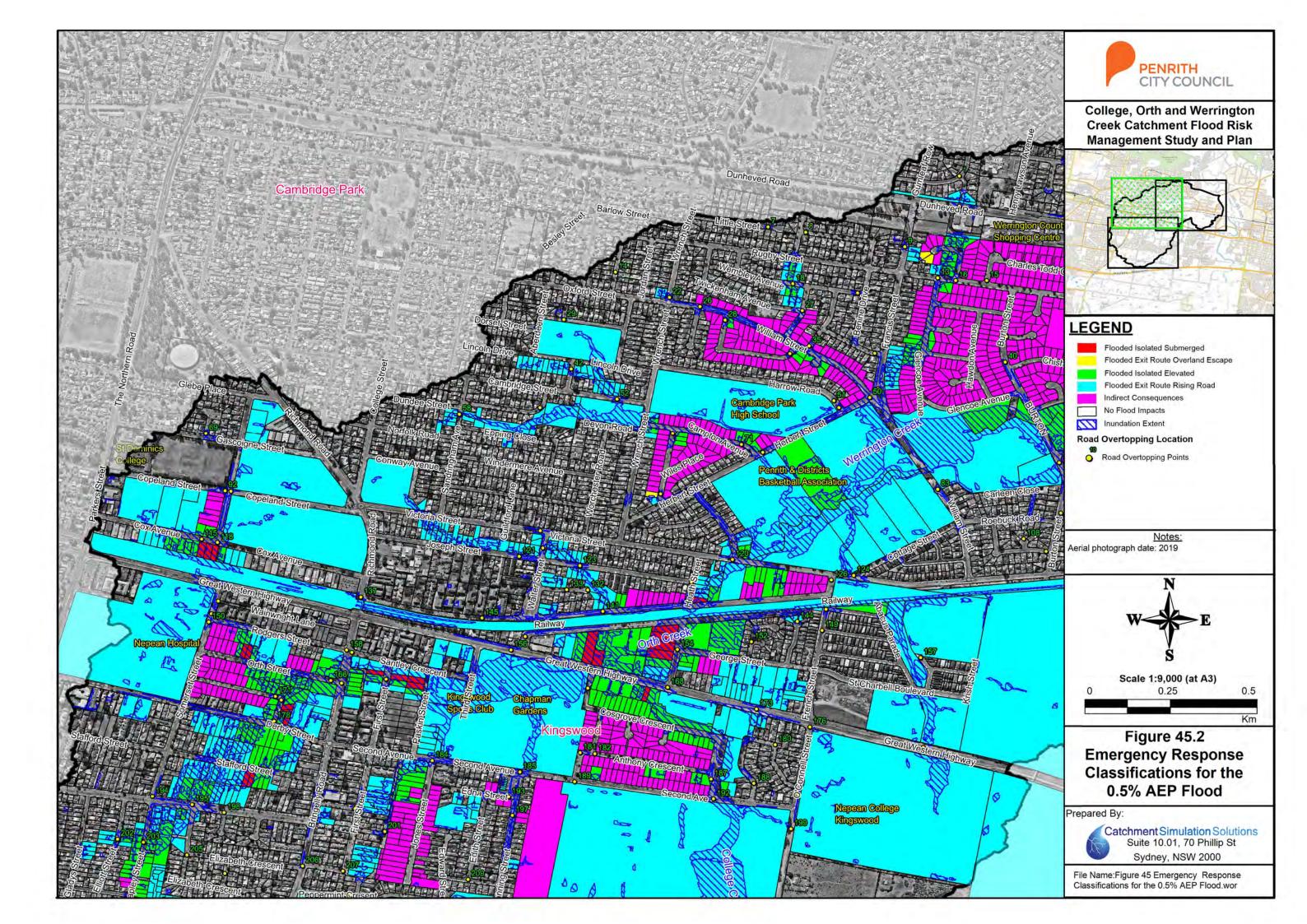


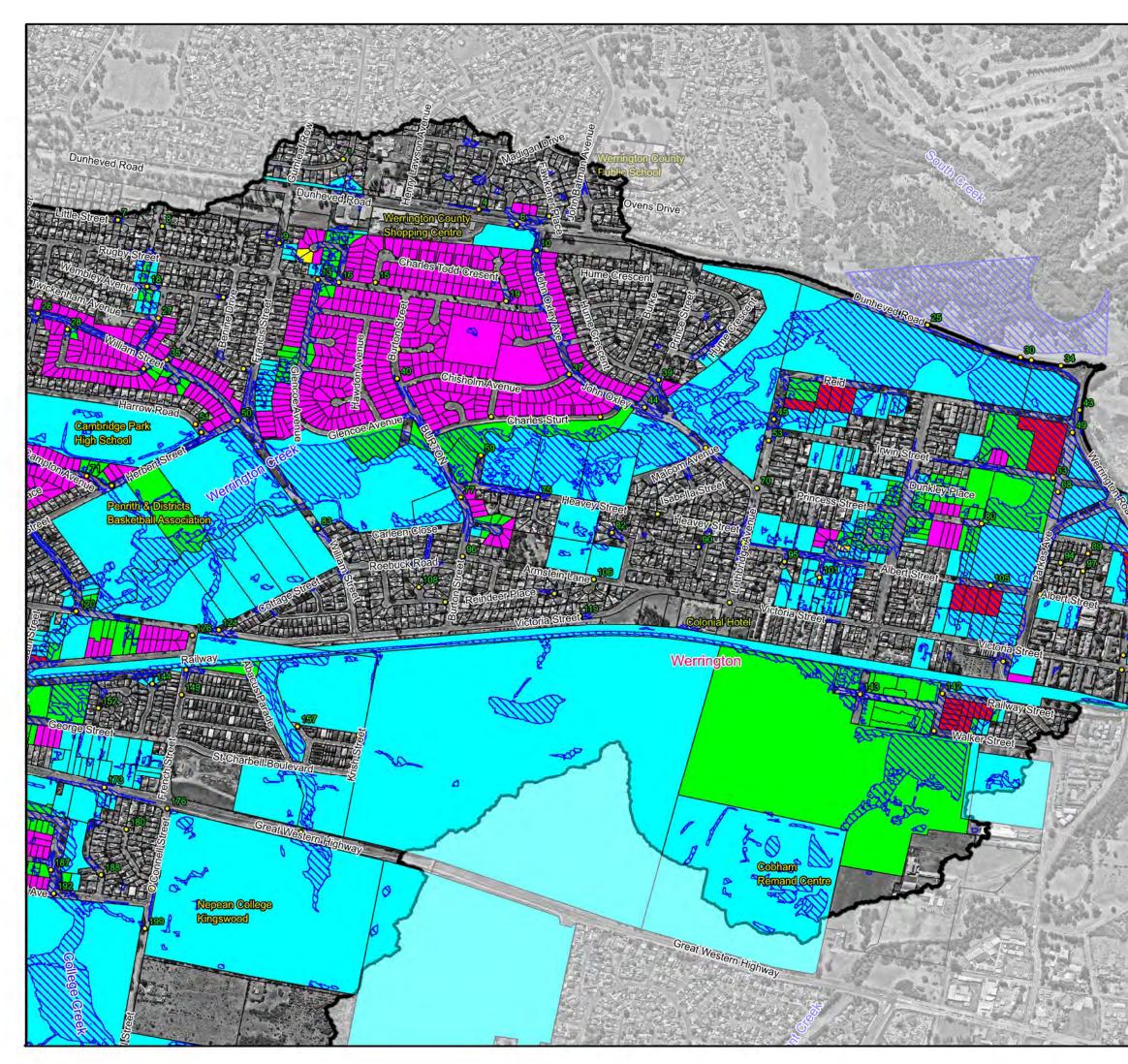


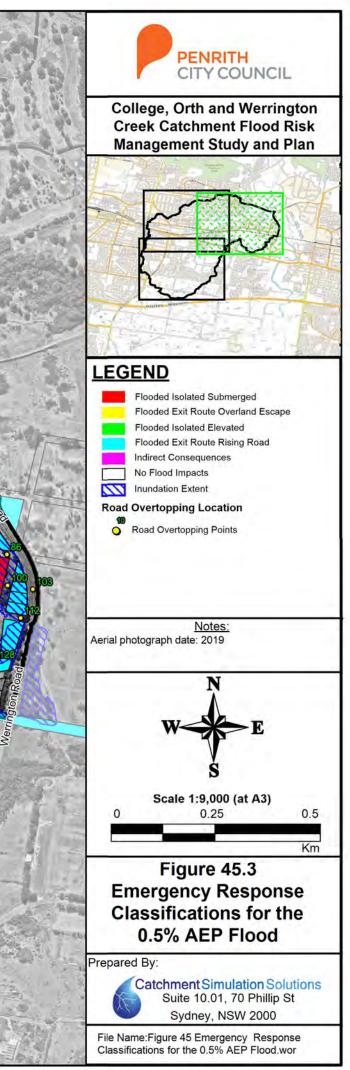


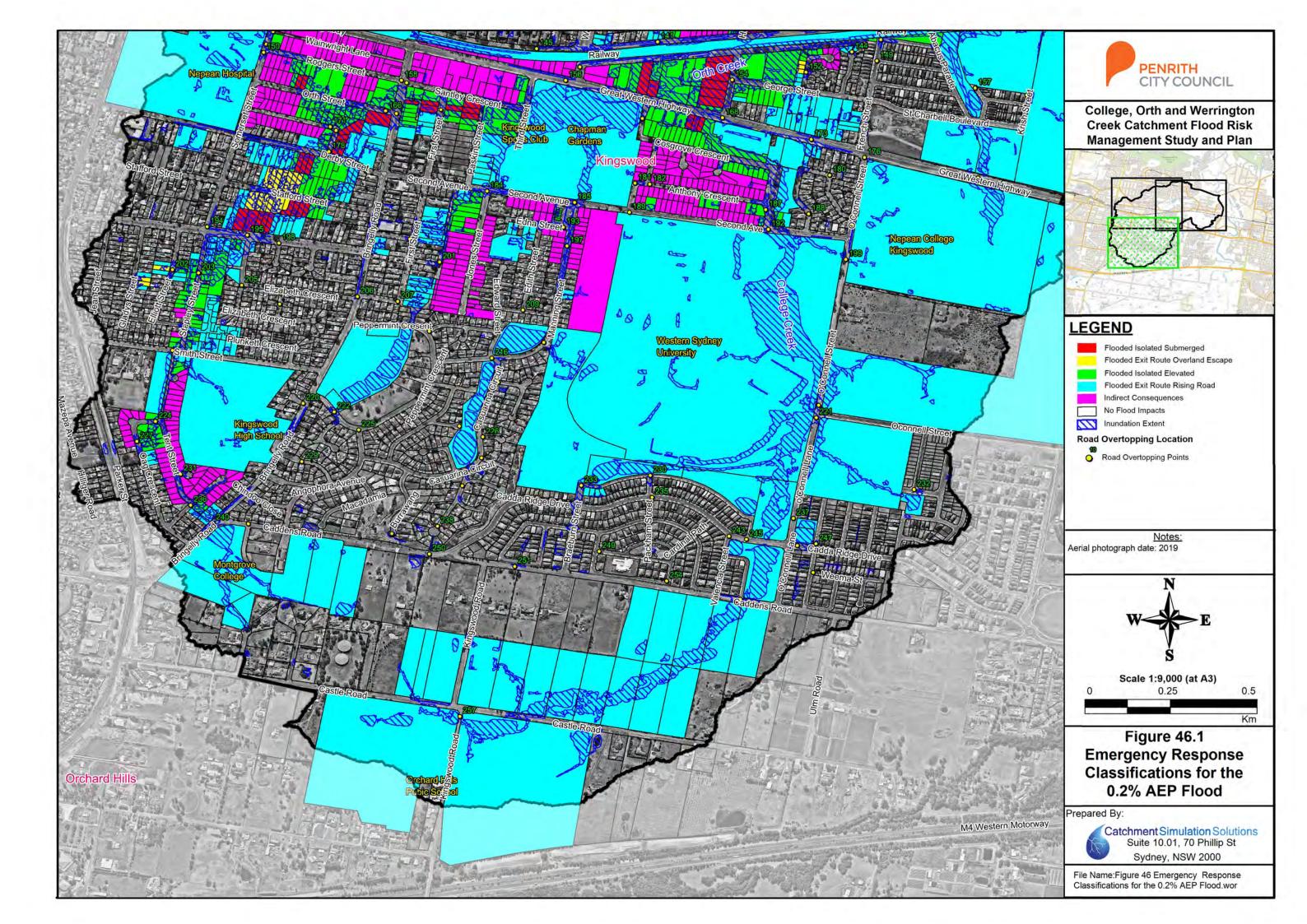


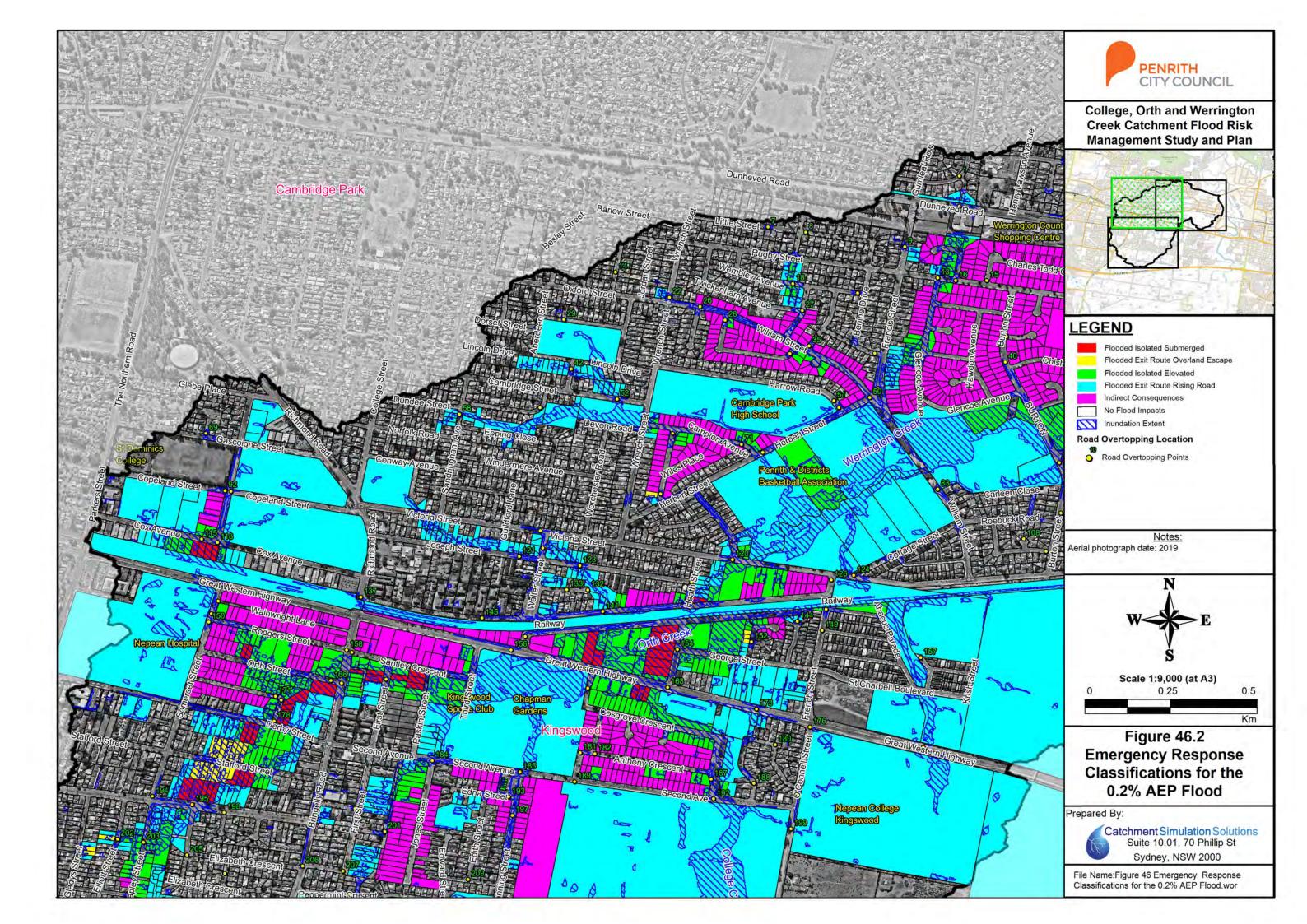


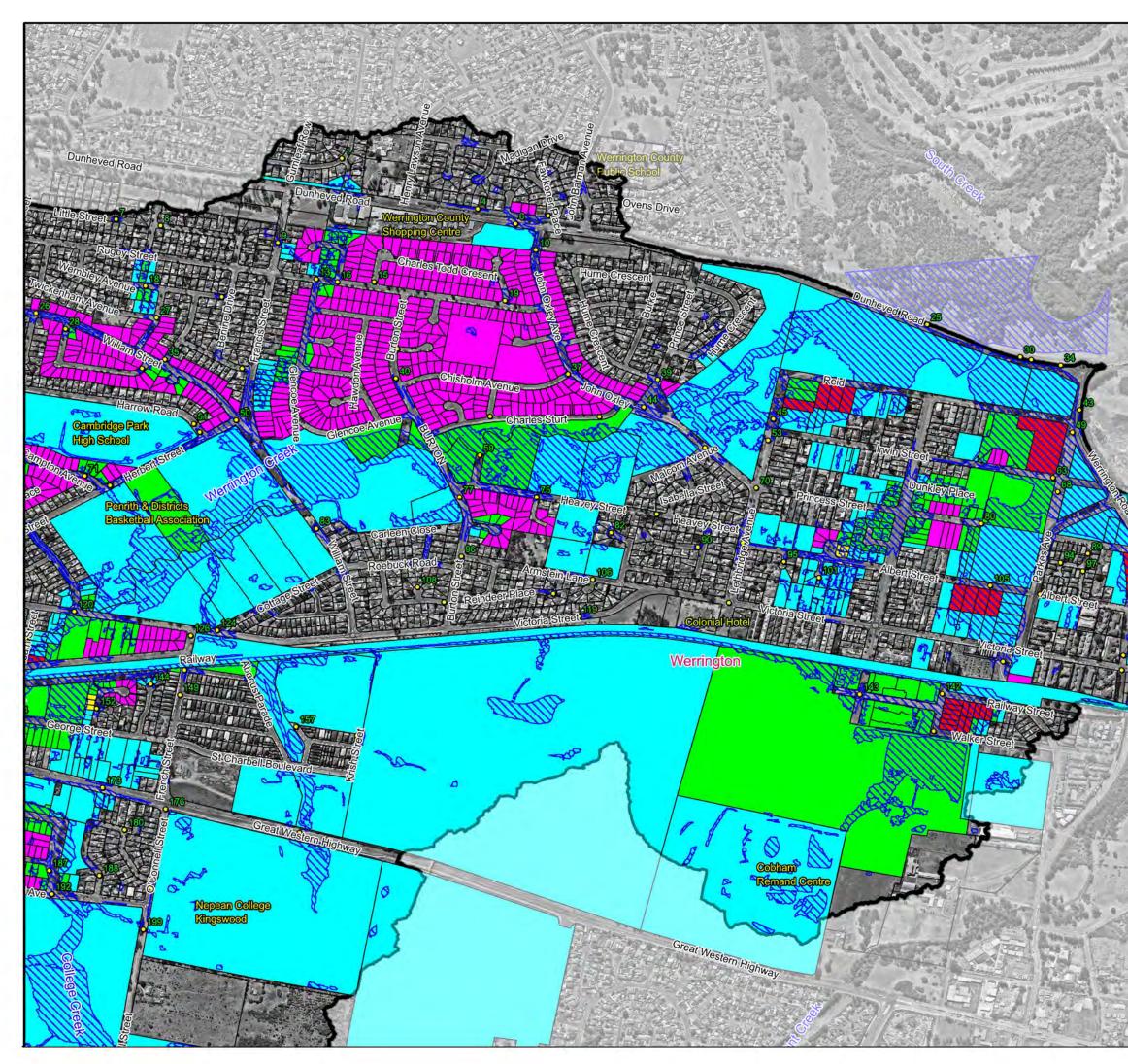


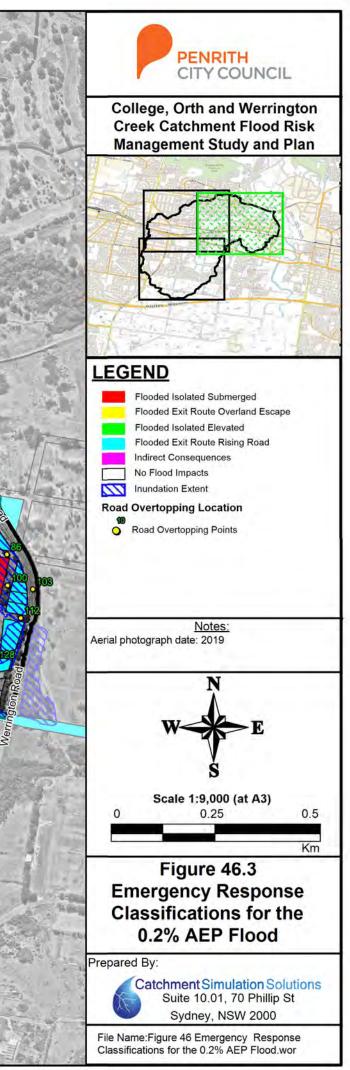


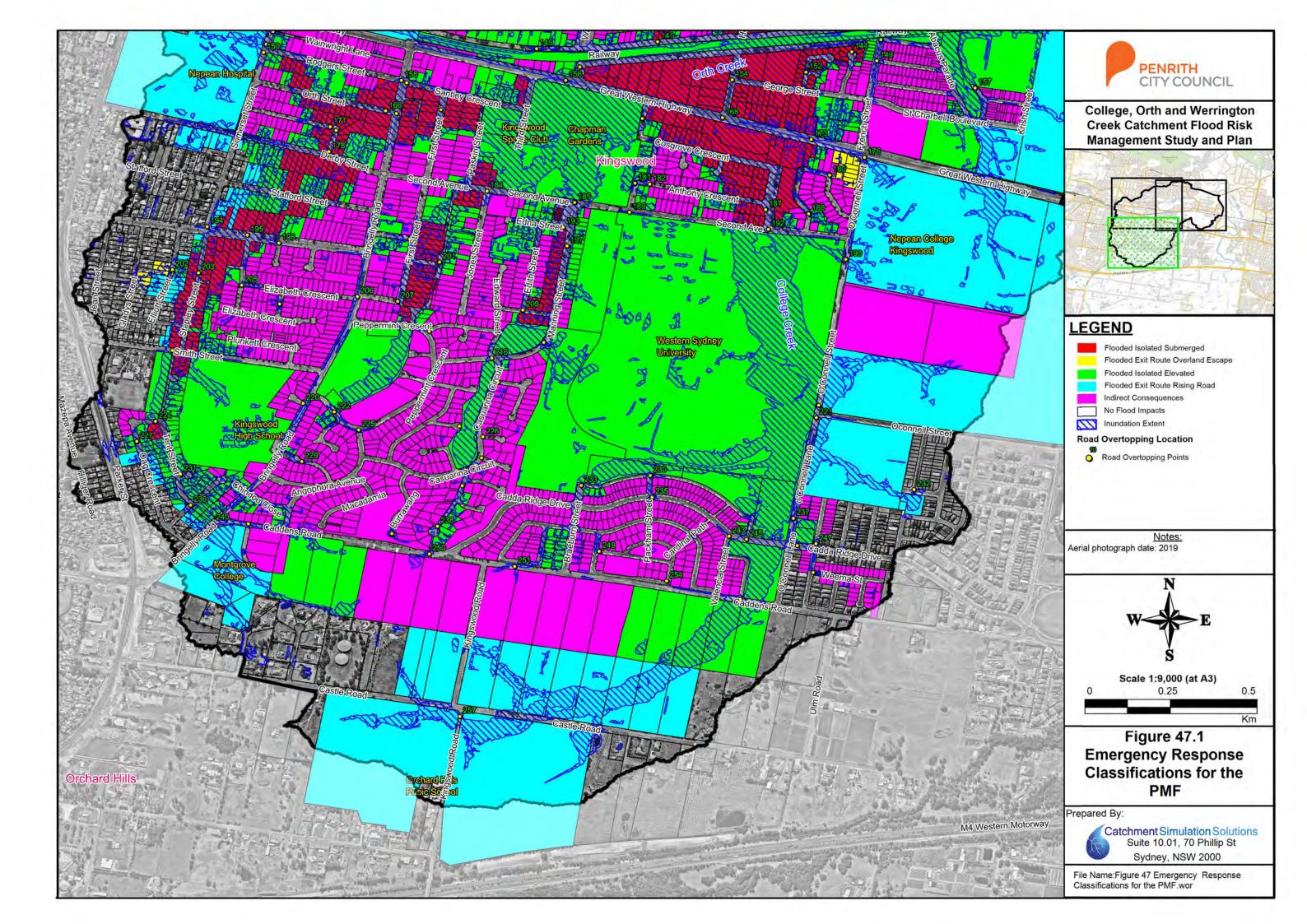


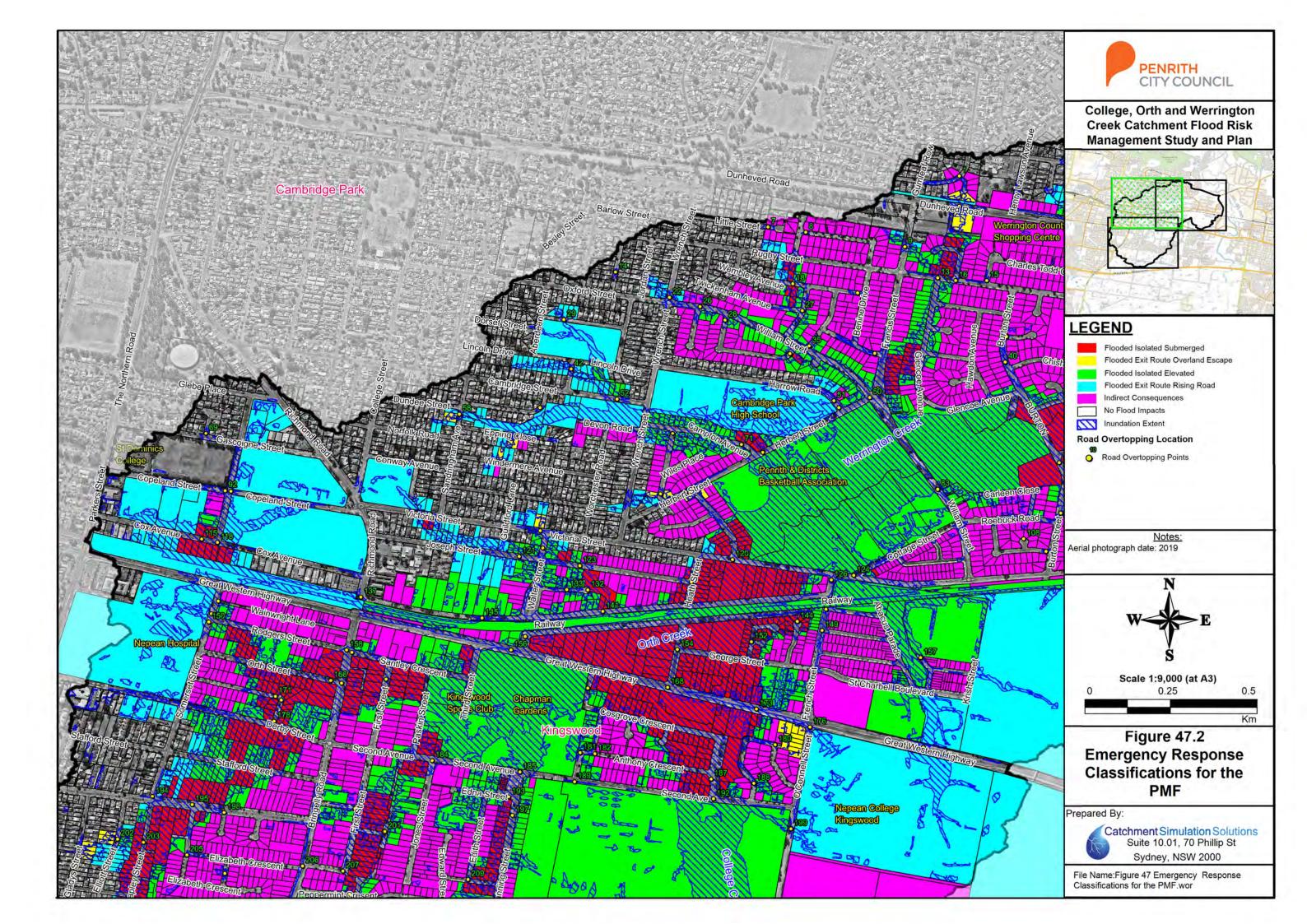


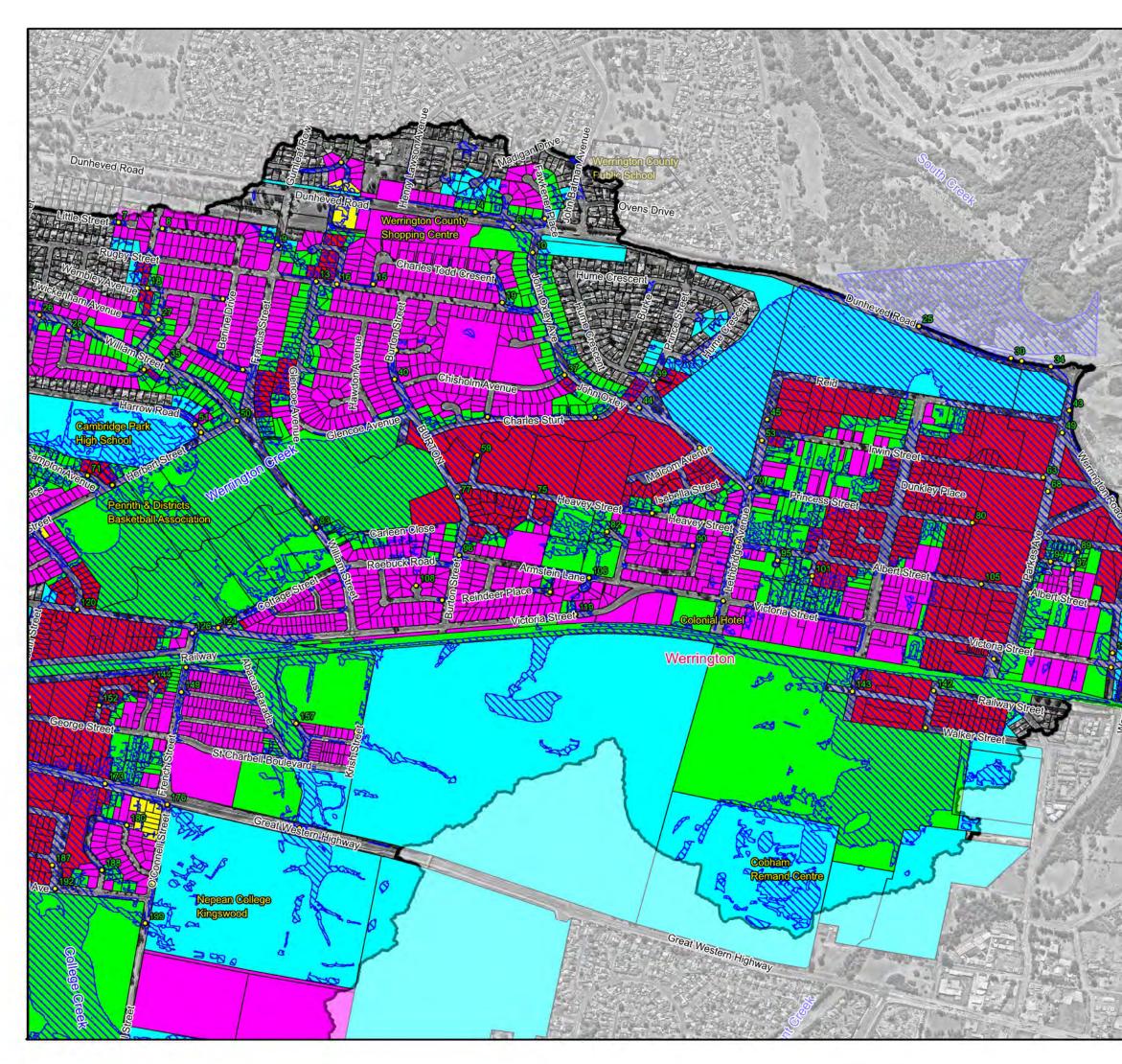


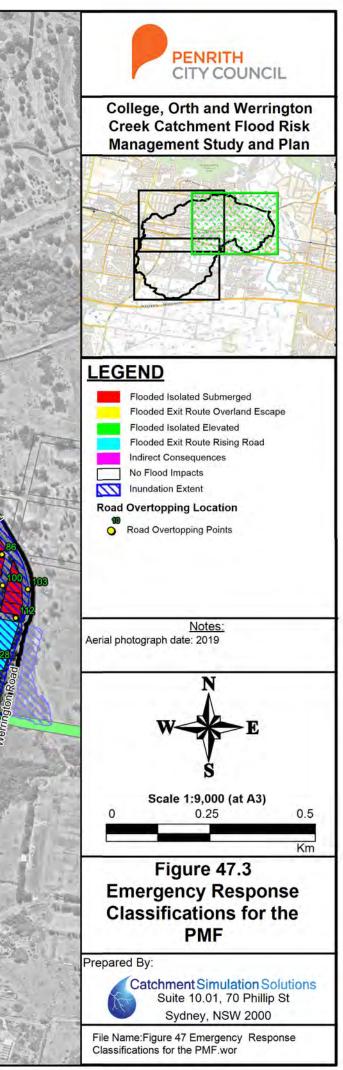


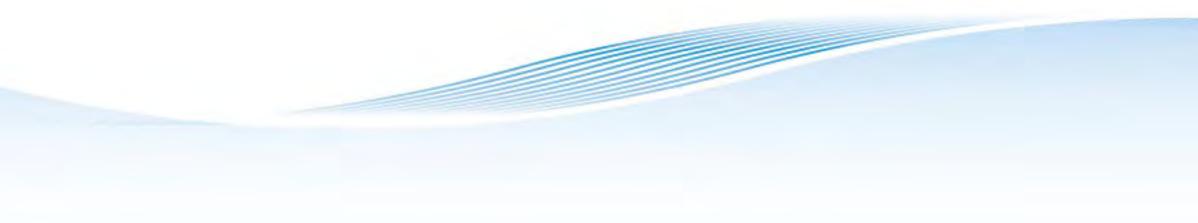




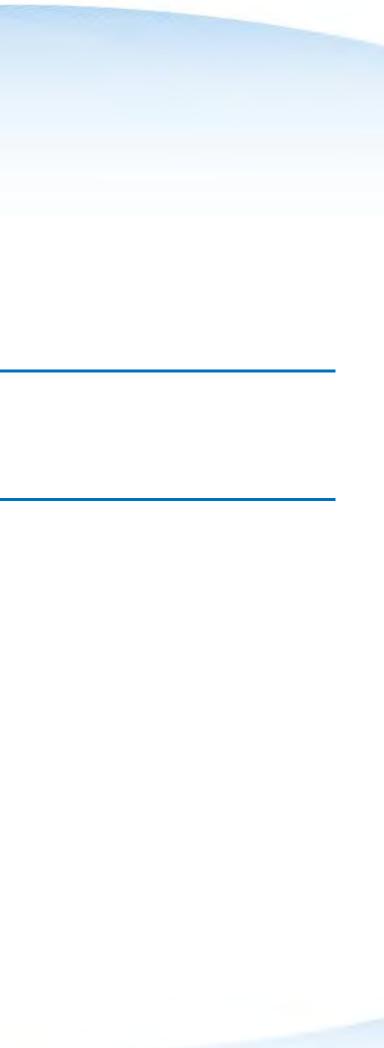


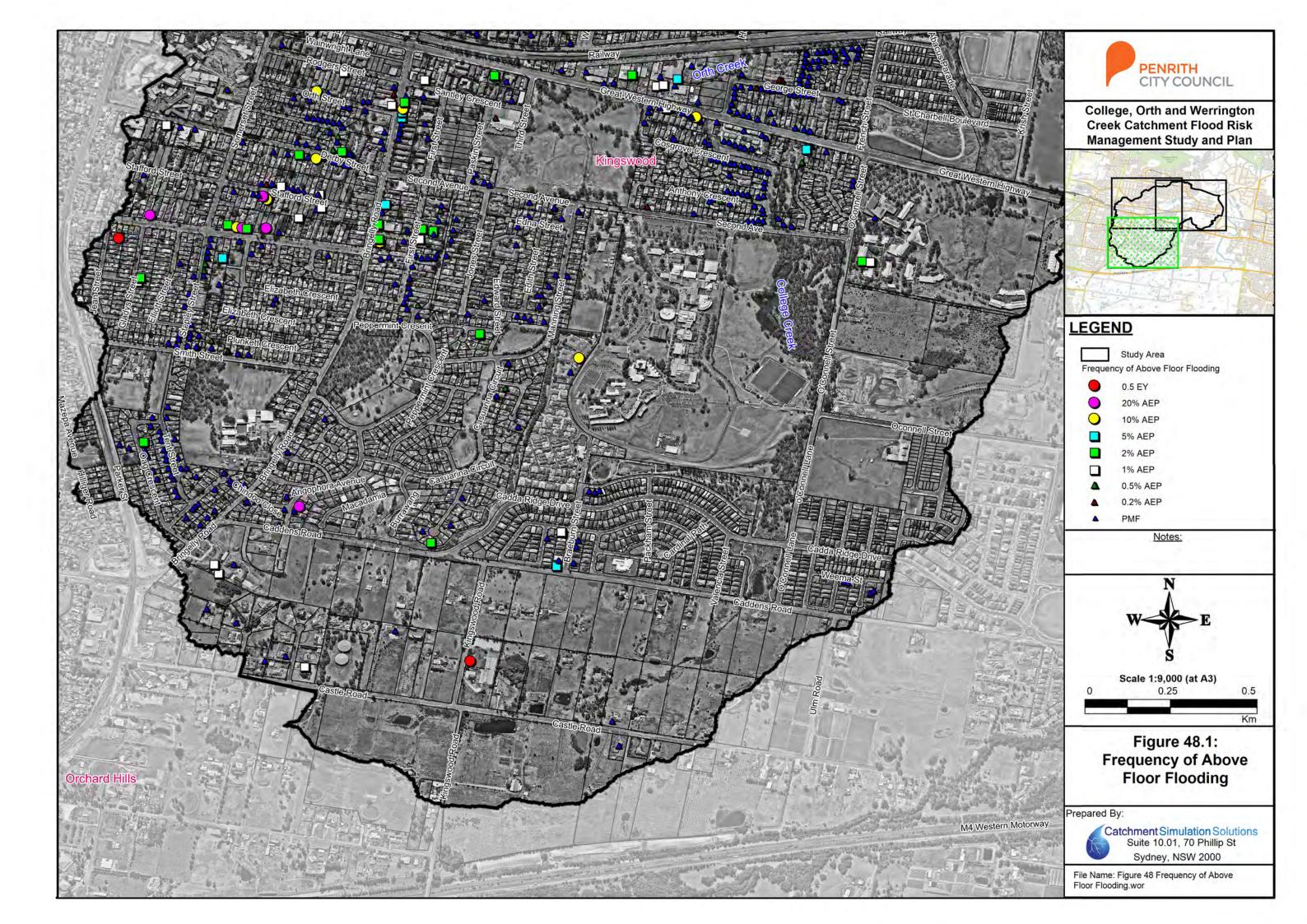


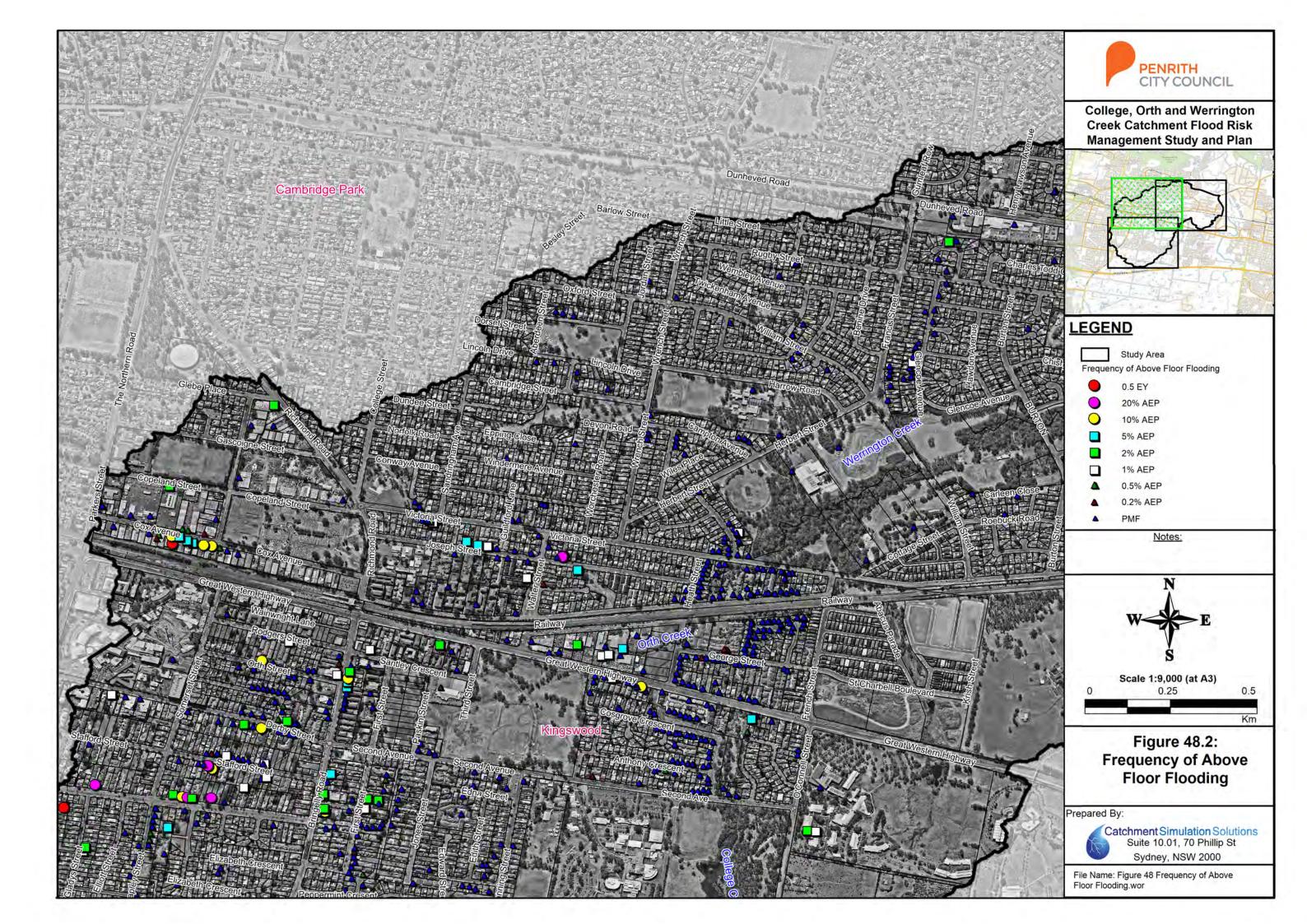


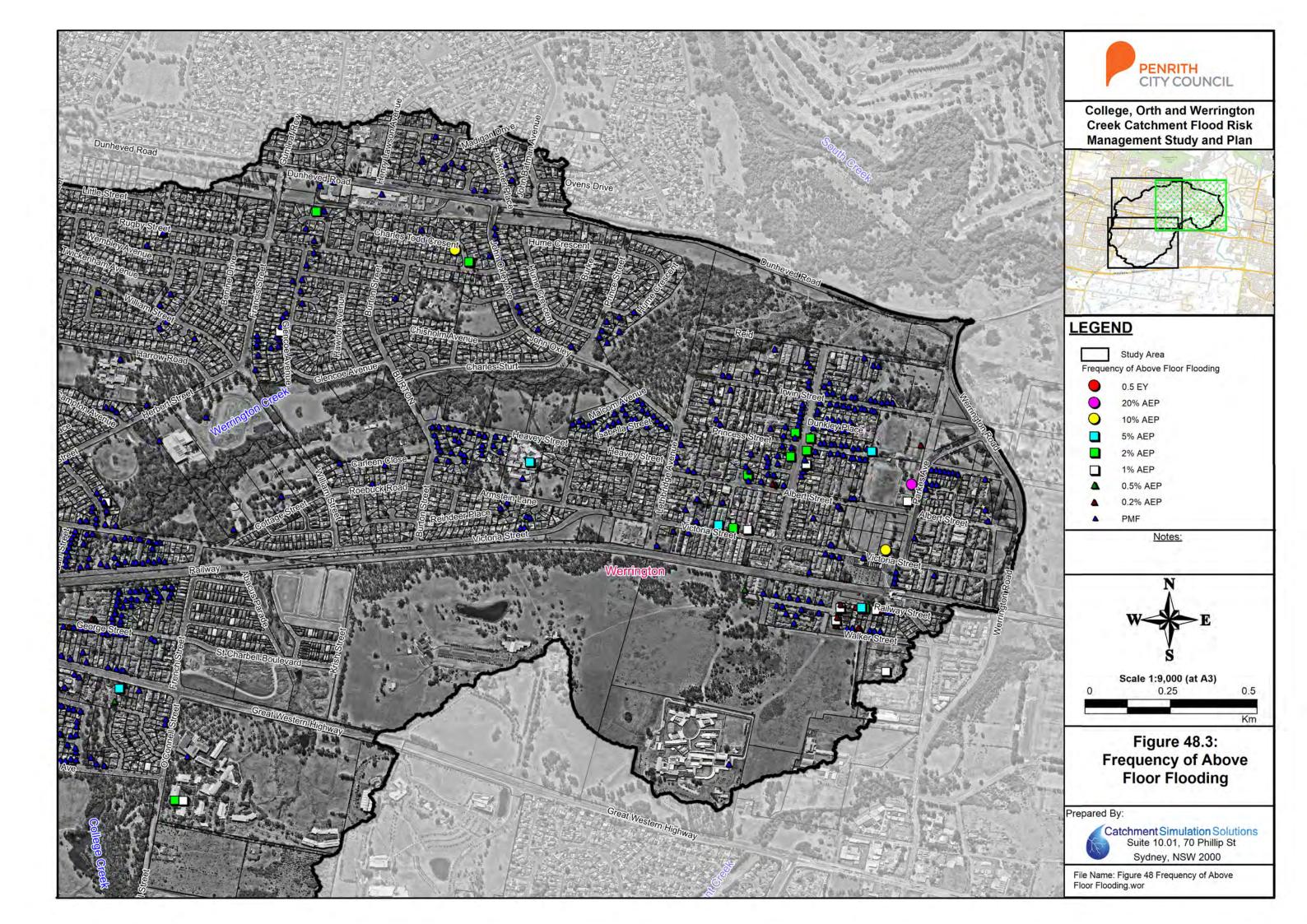


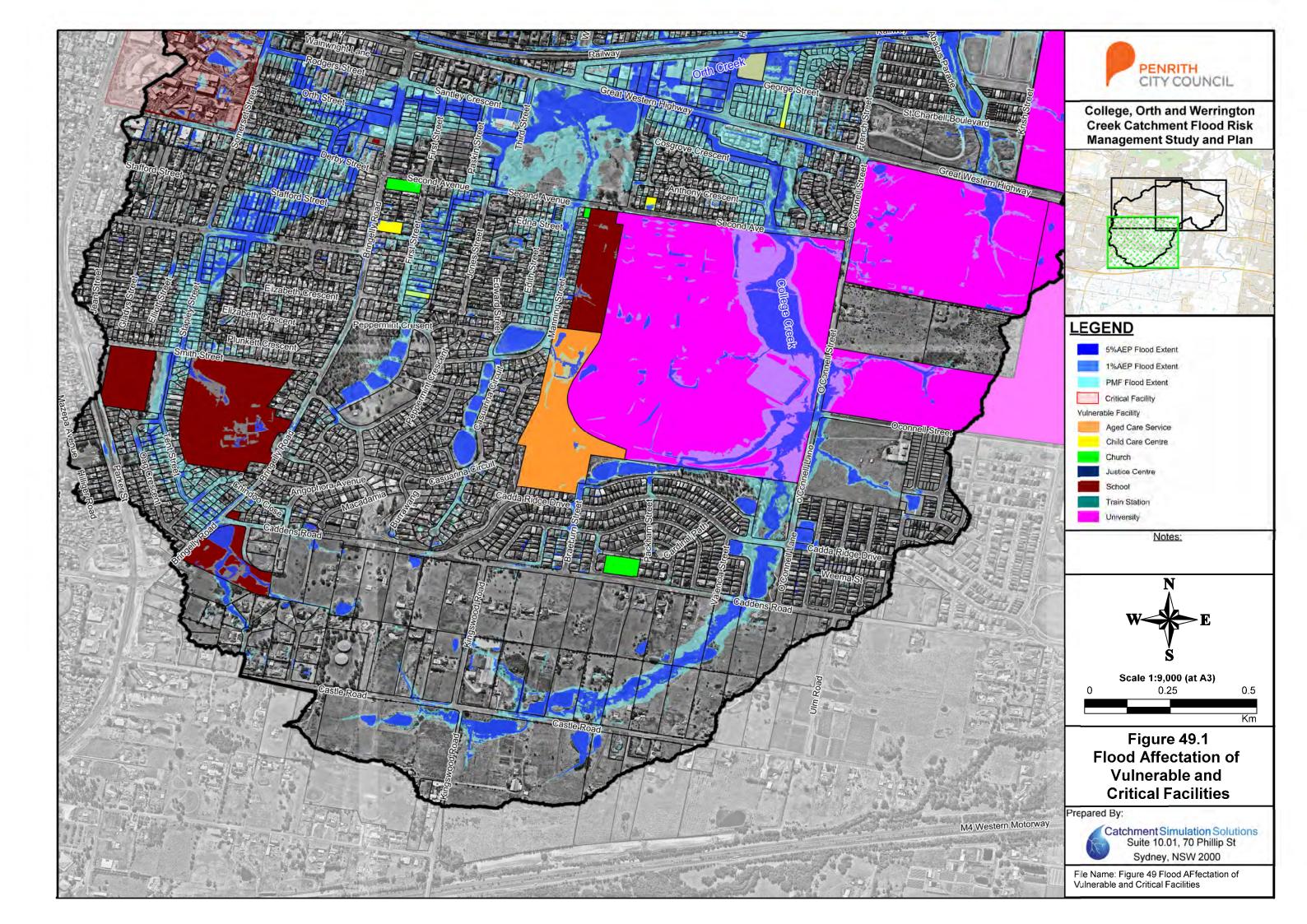
MISCELLANEOUS MAPS

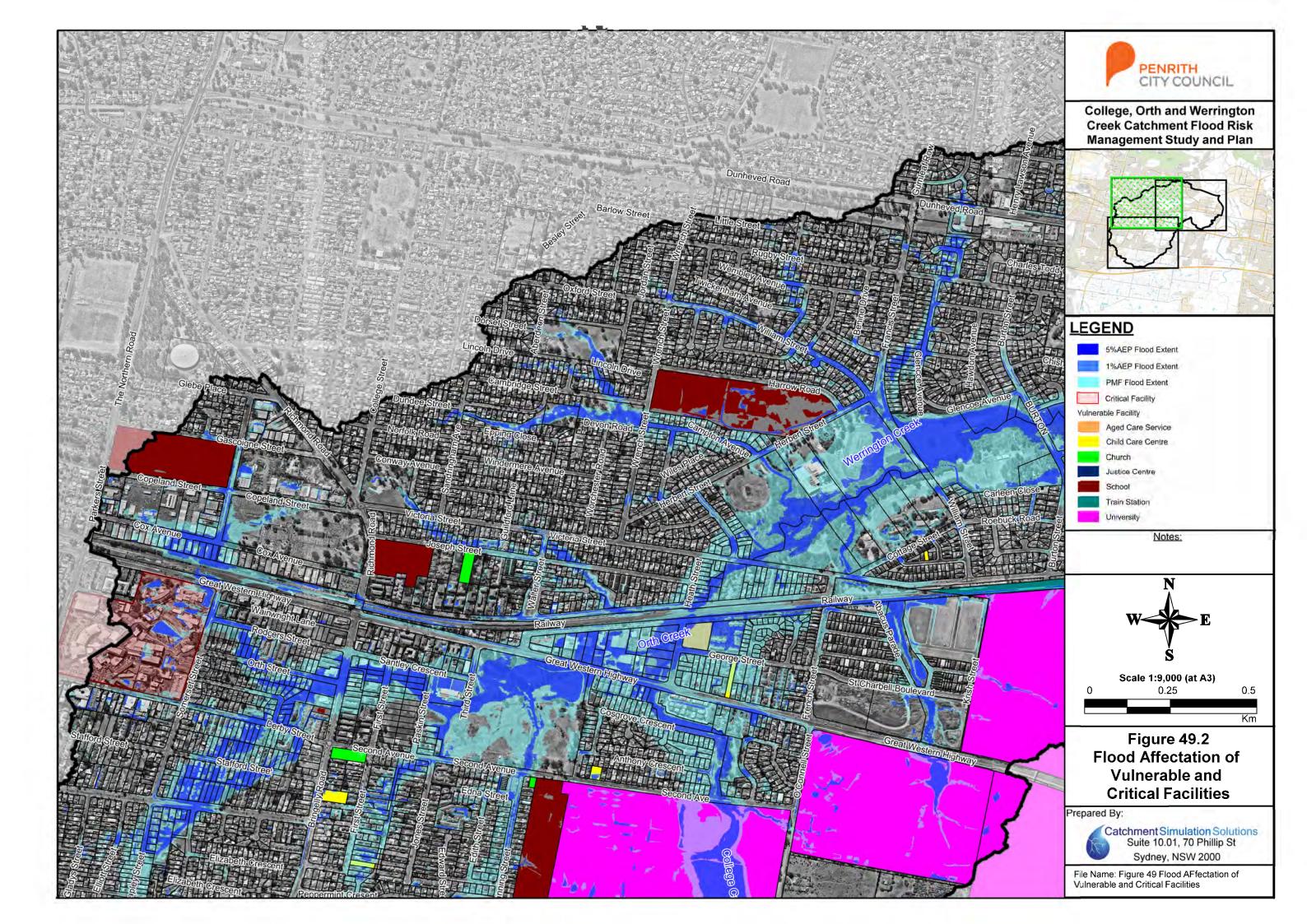


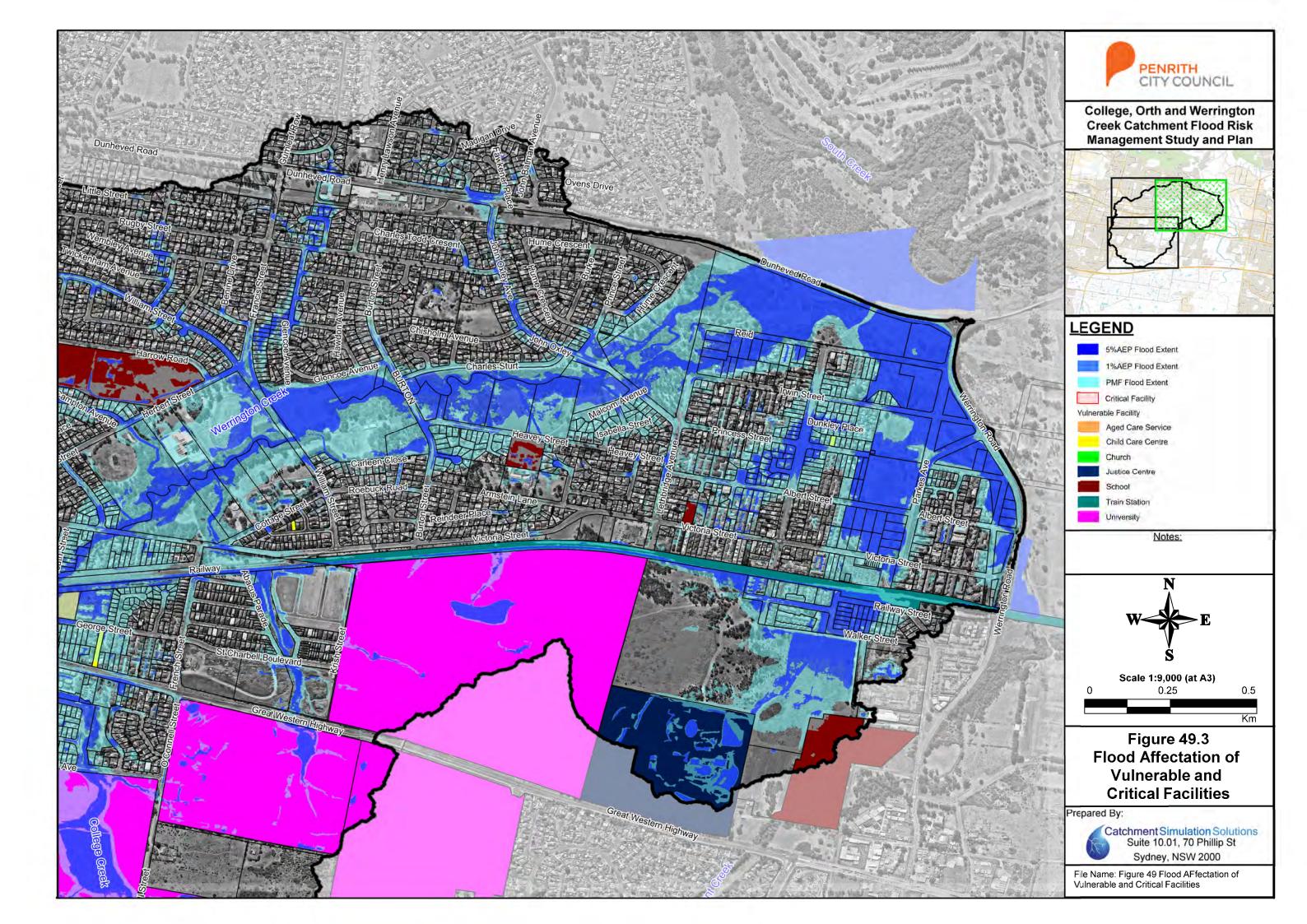


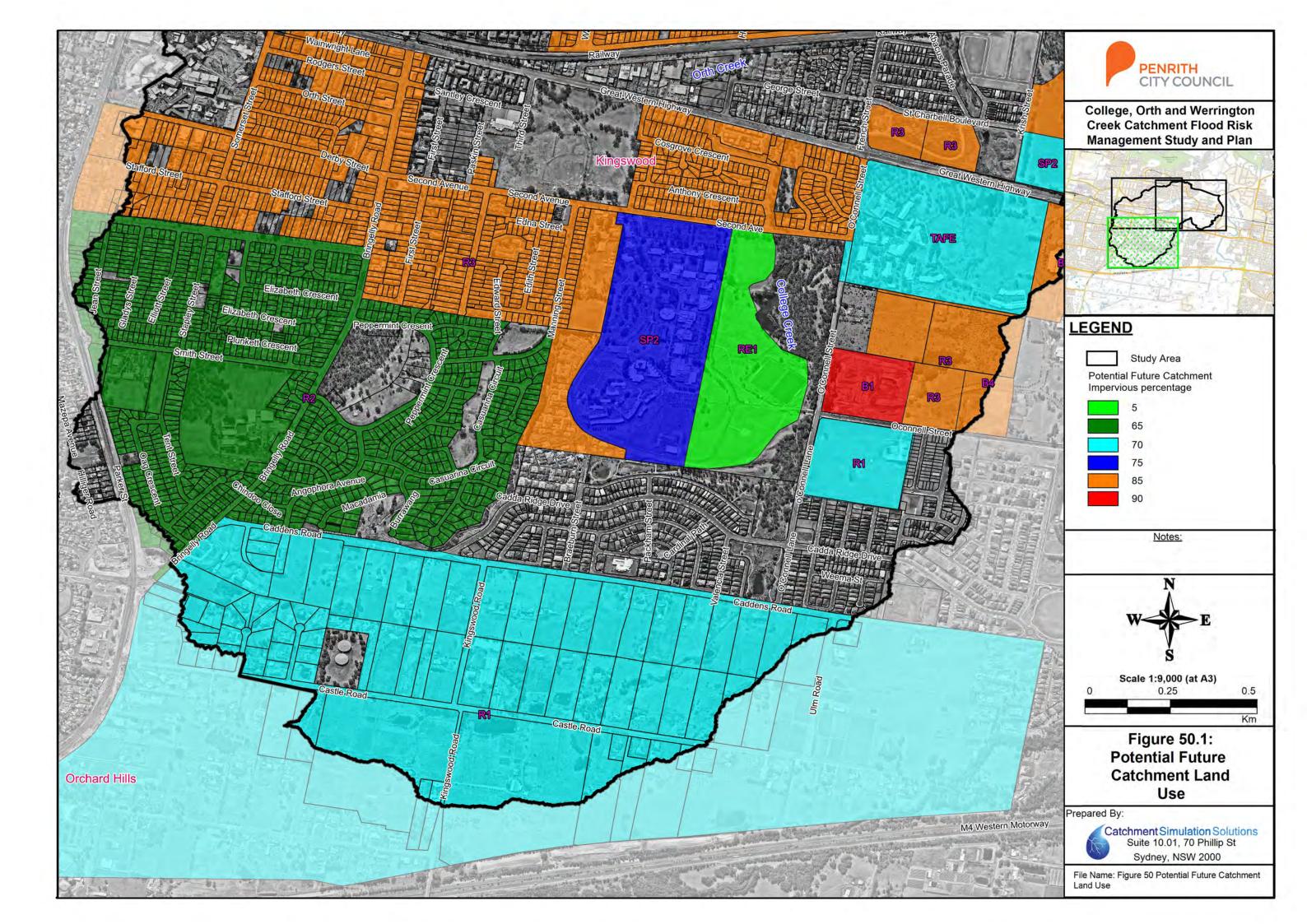


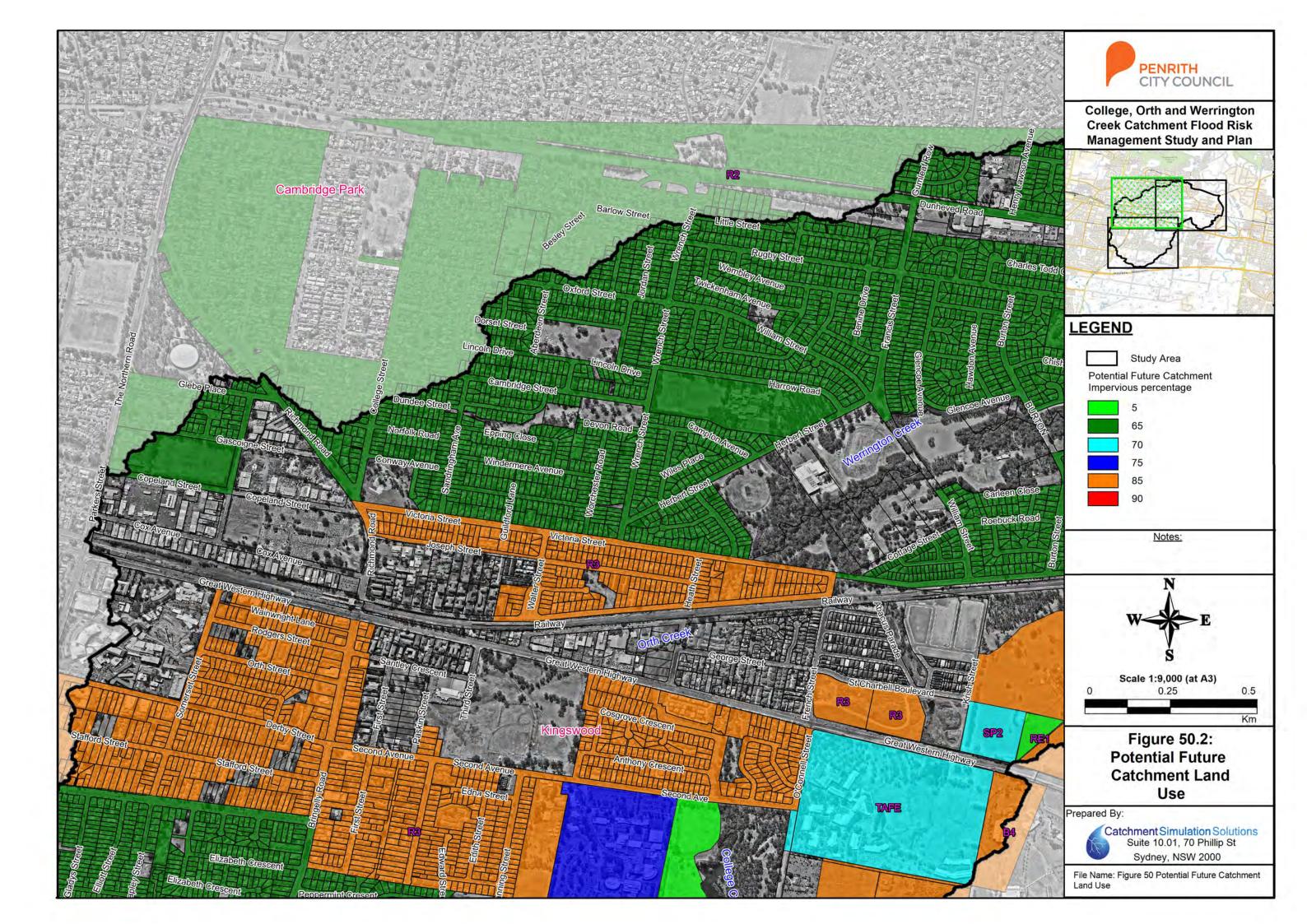


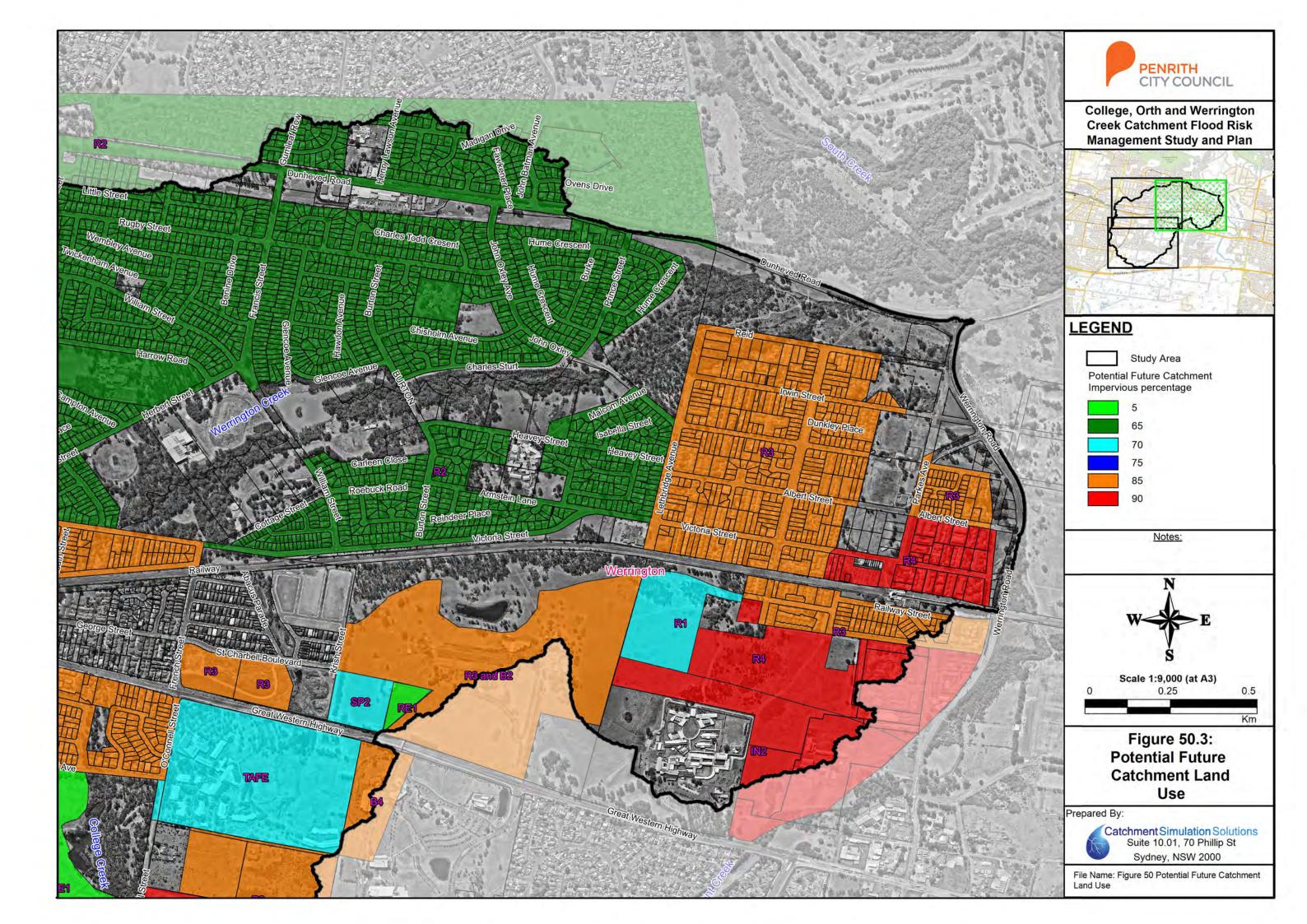


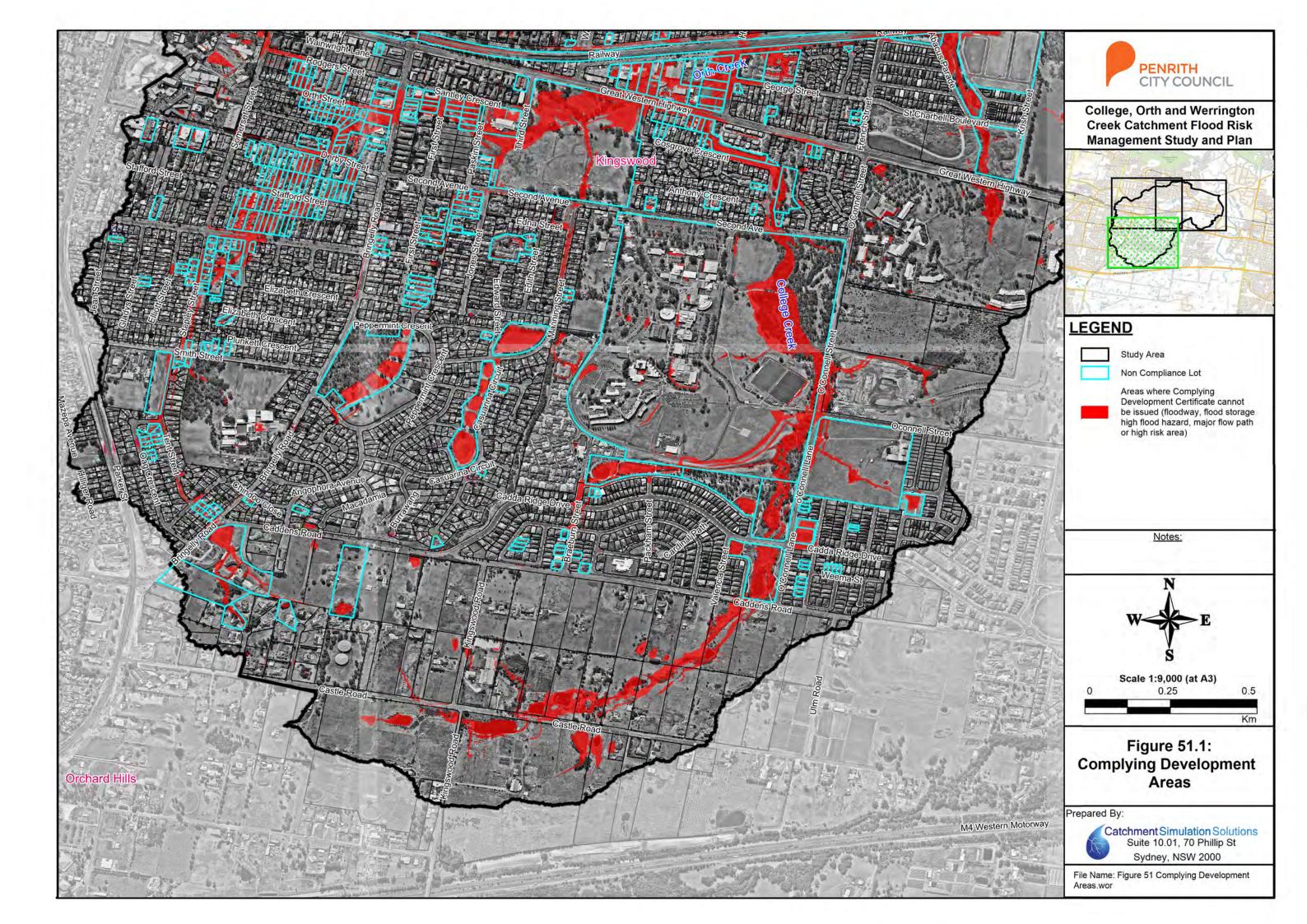


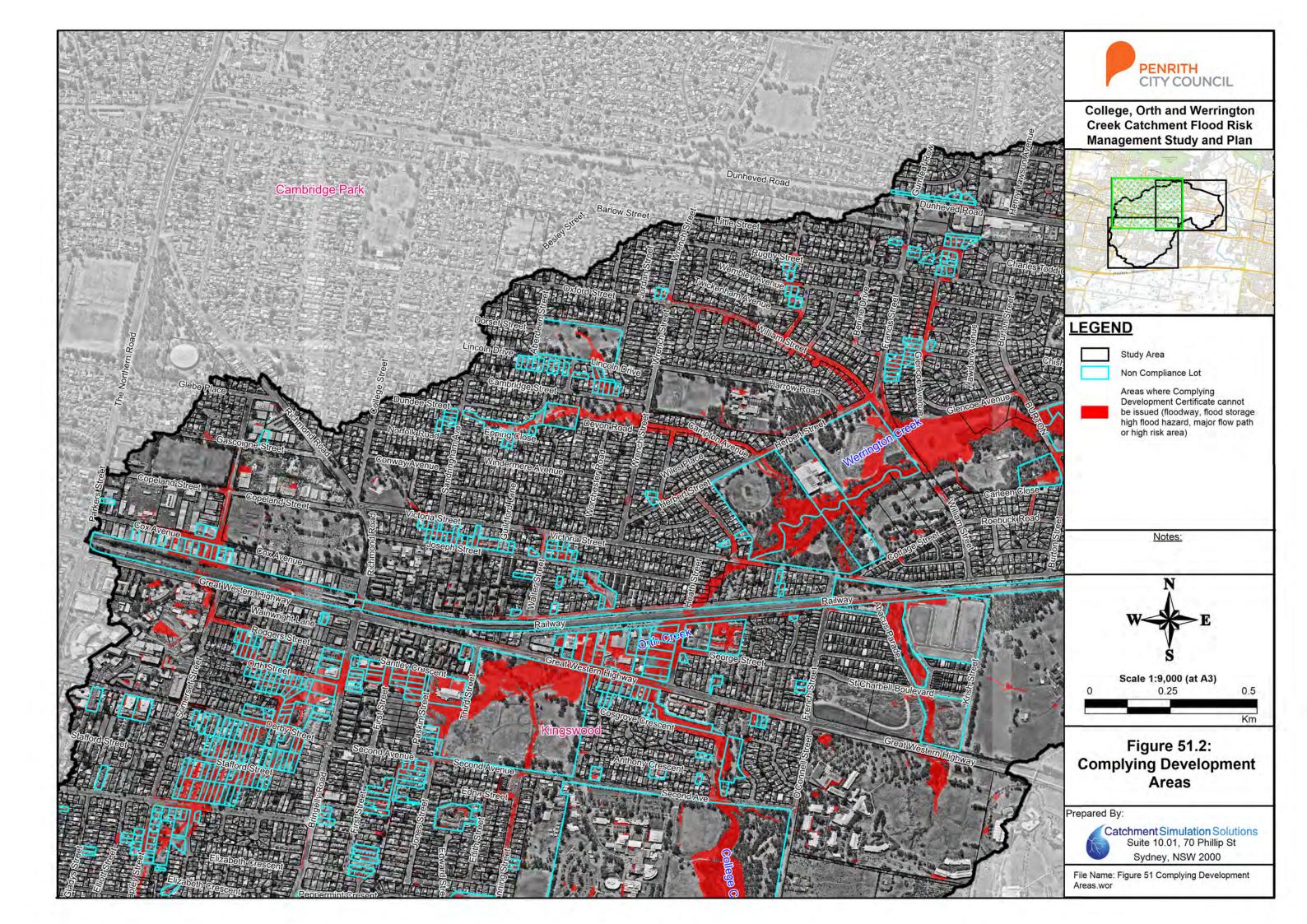


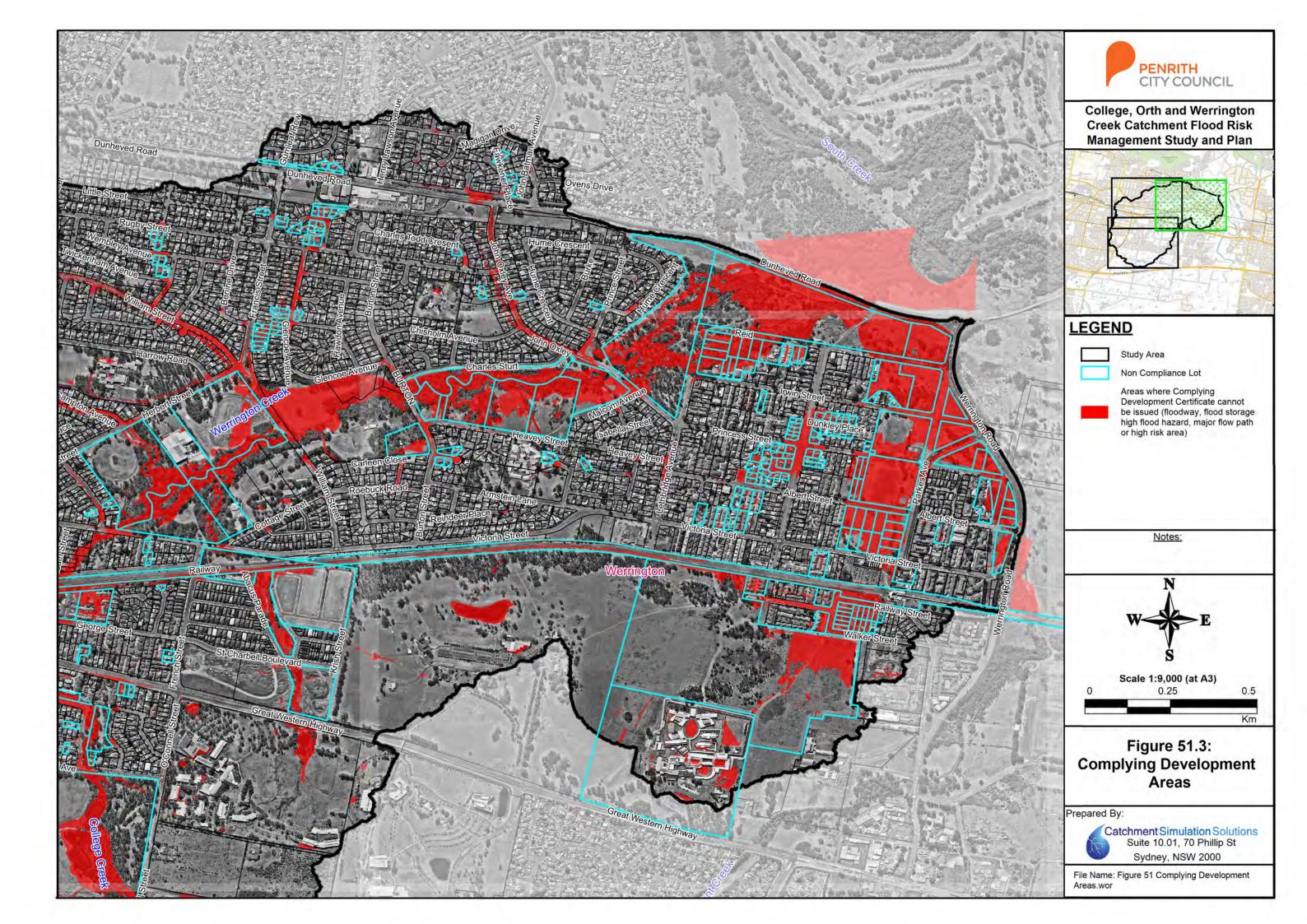


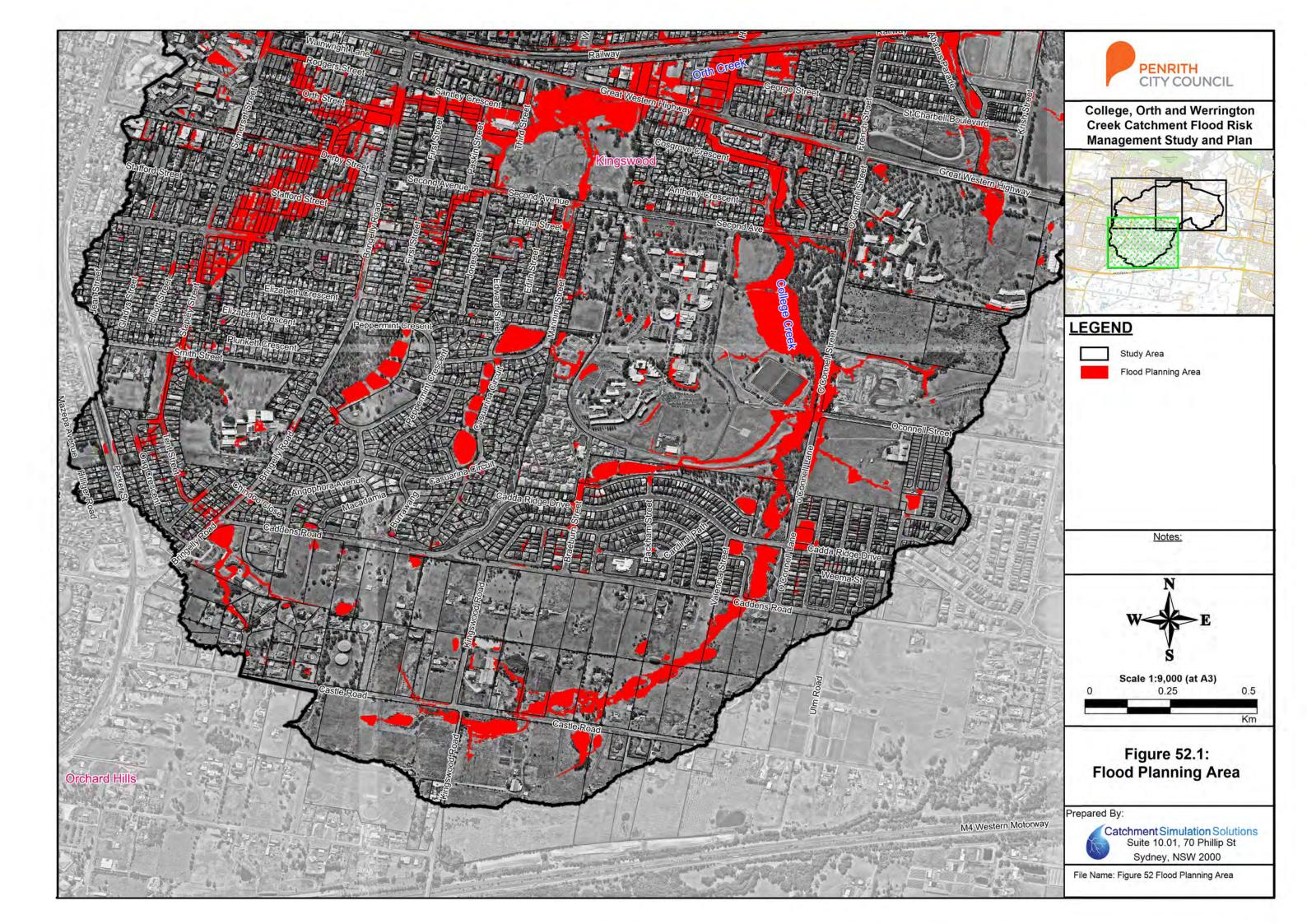


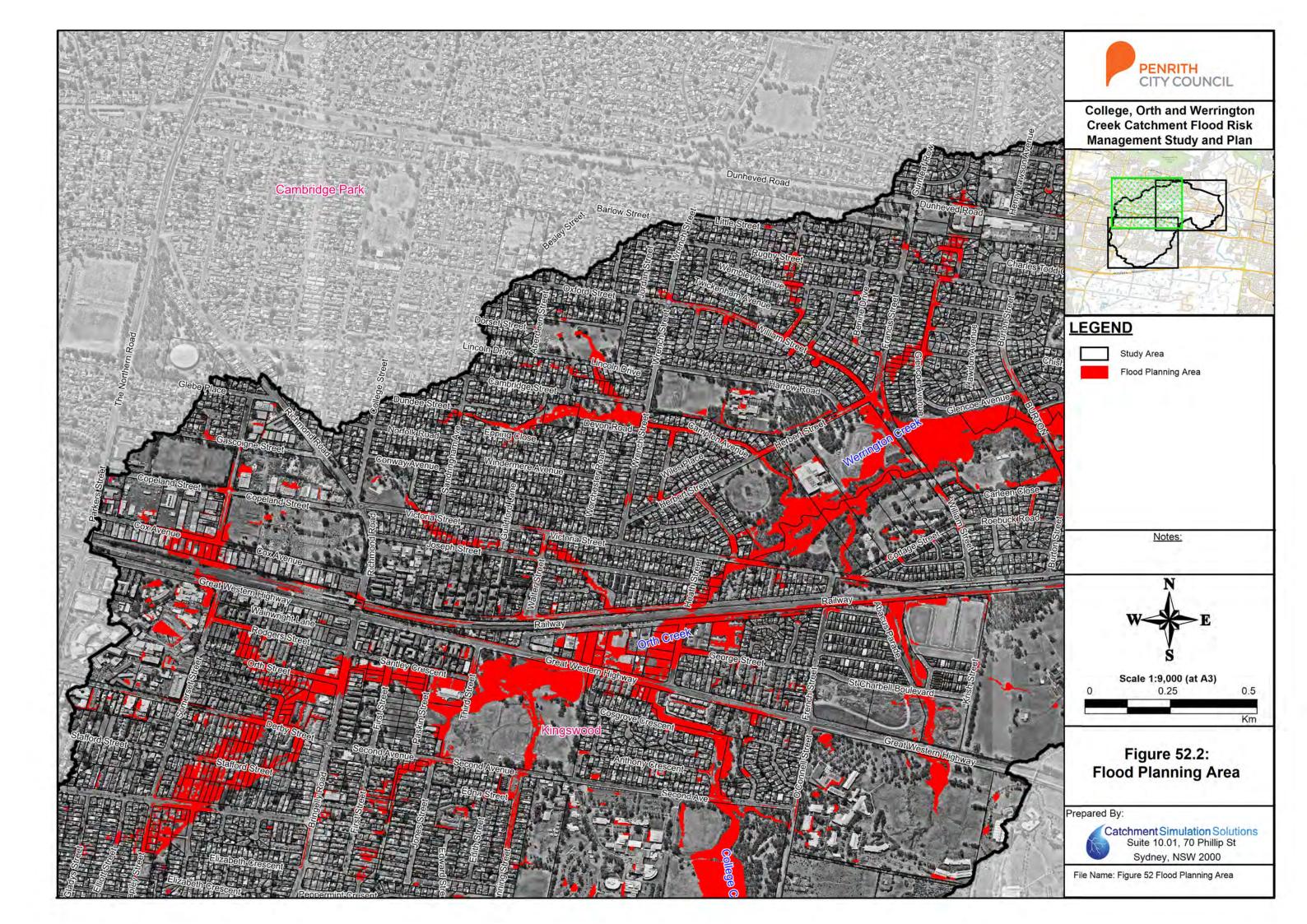


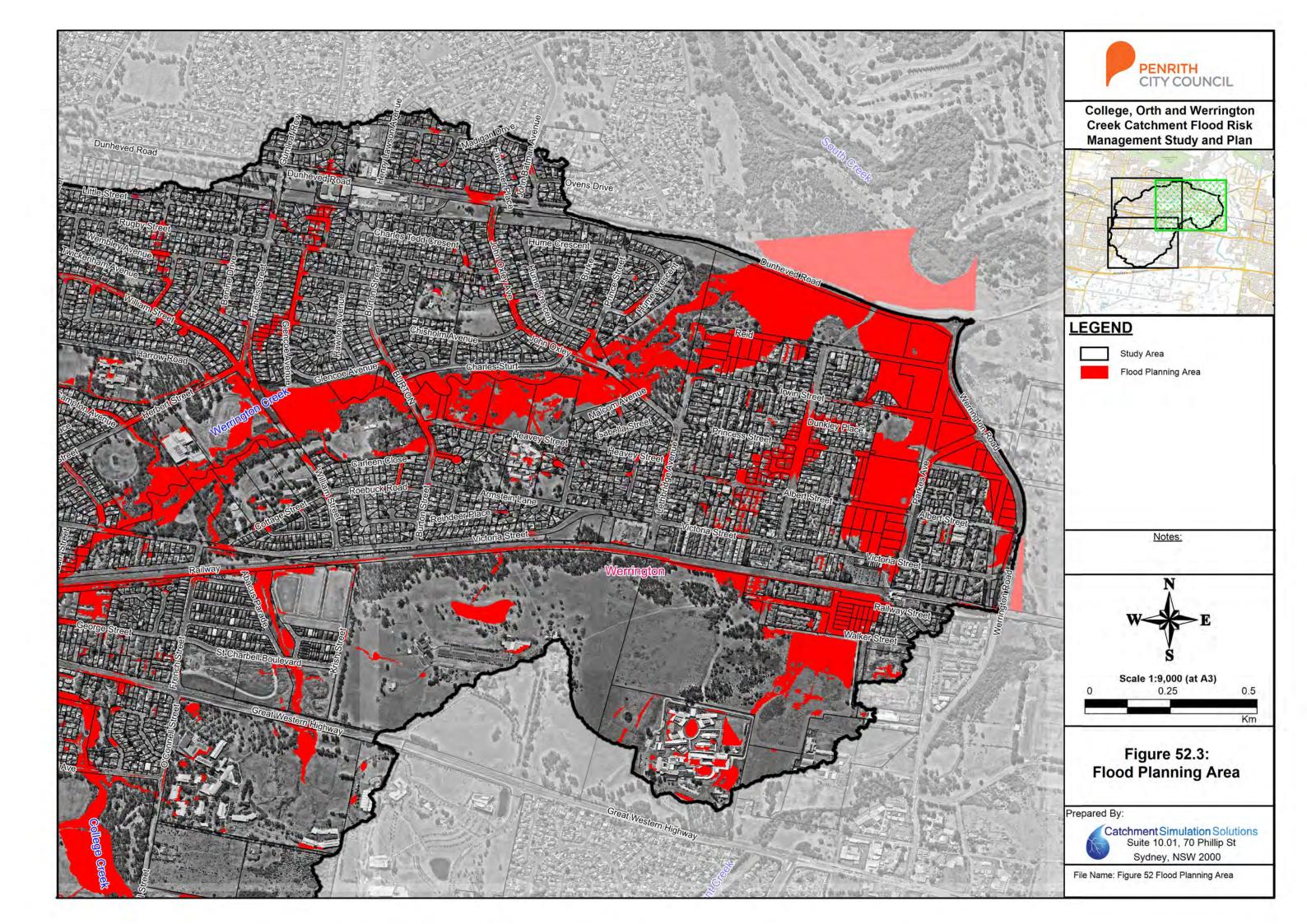


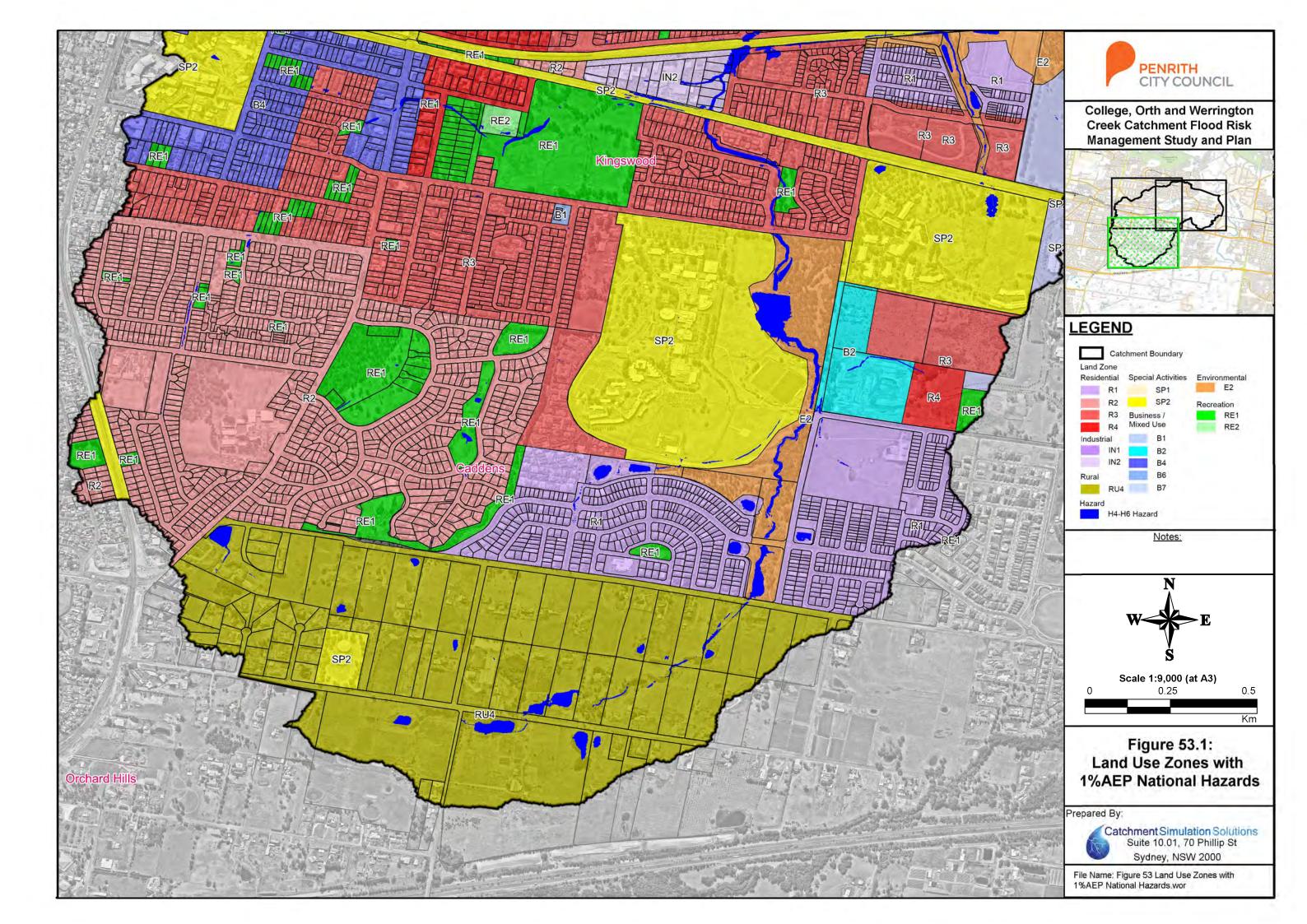


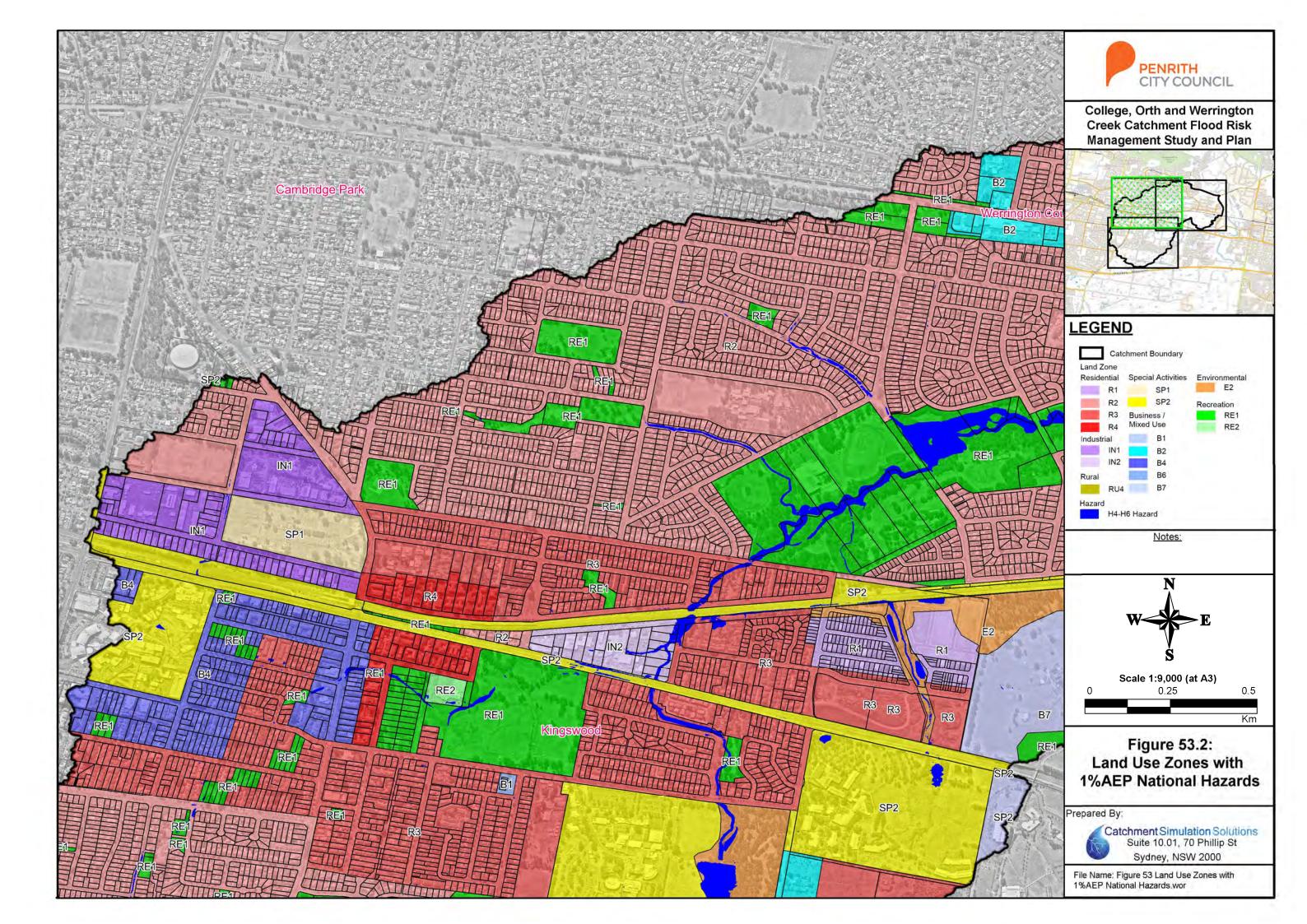


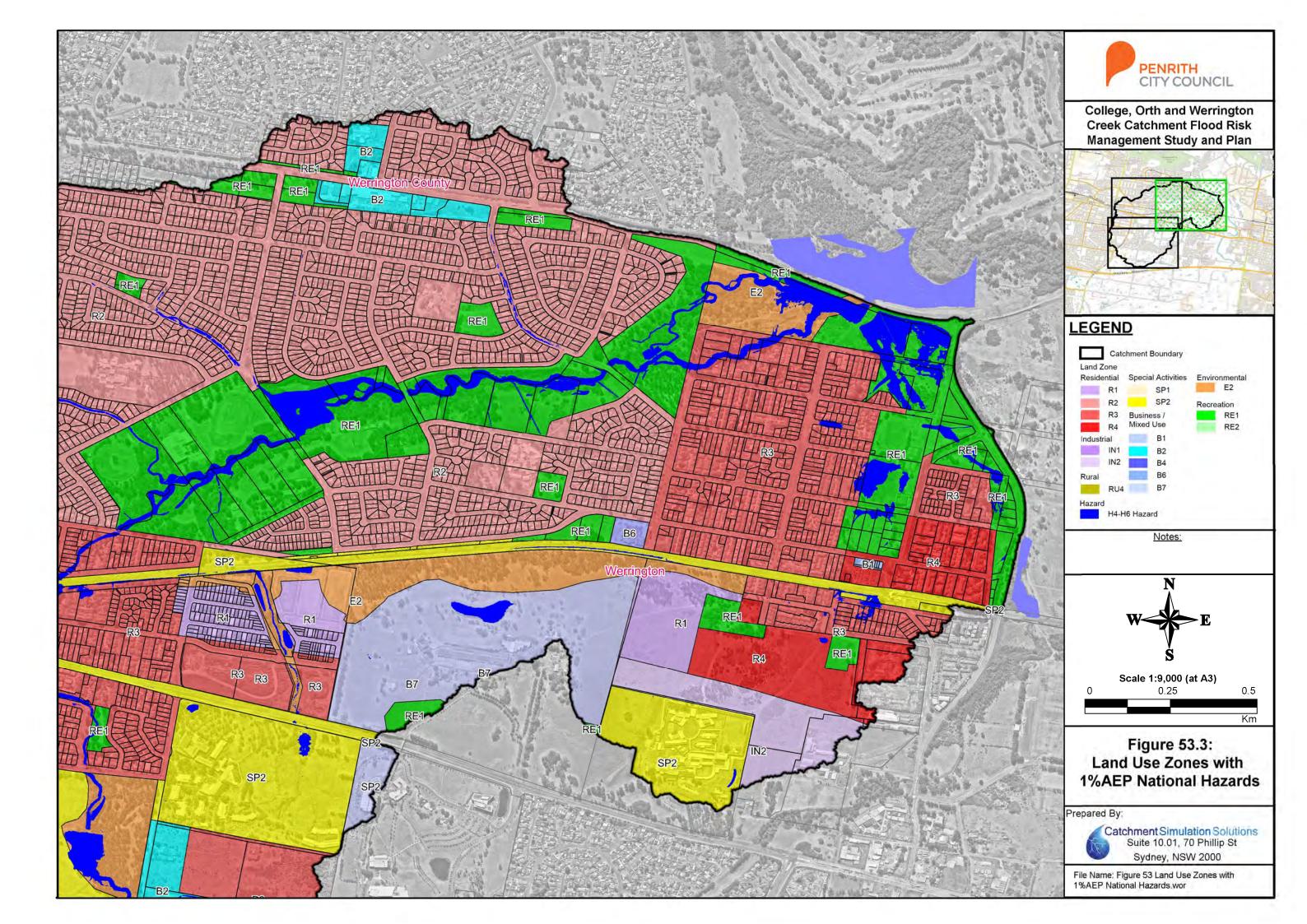


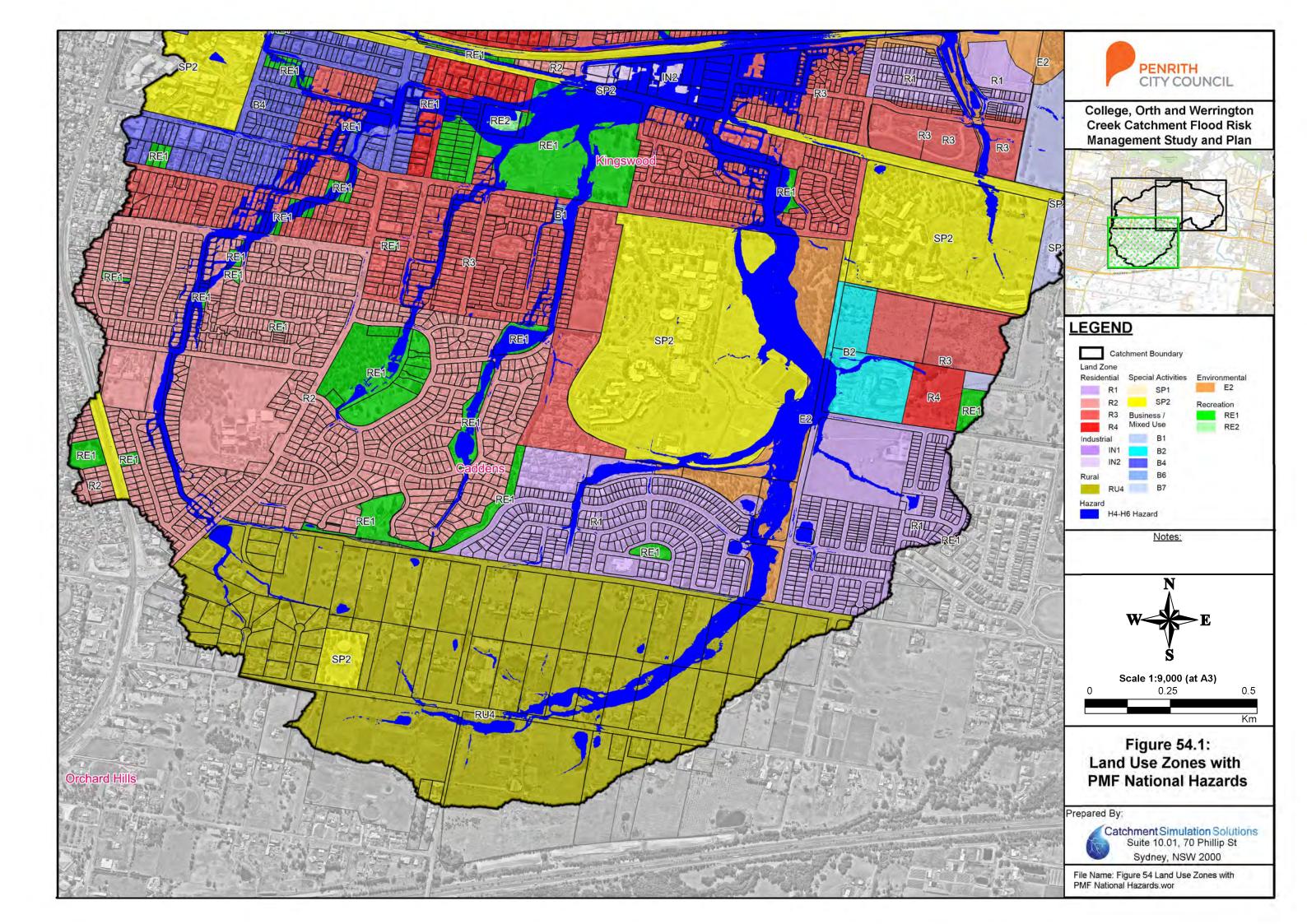


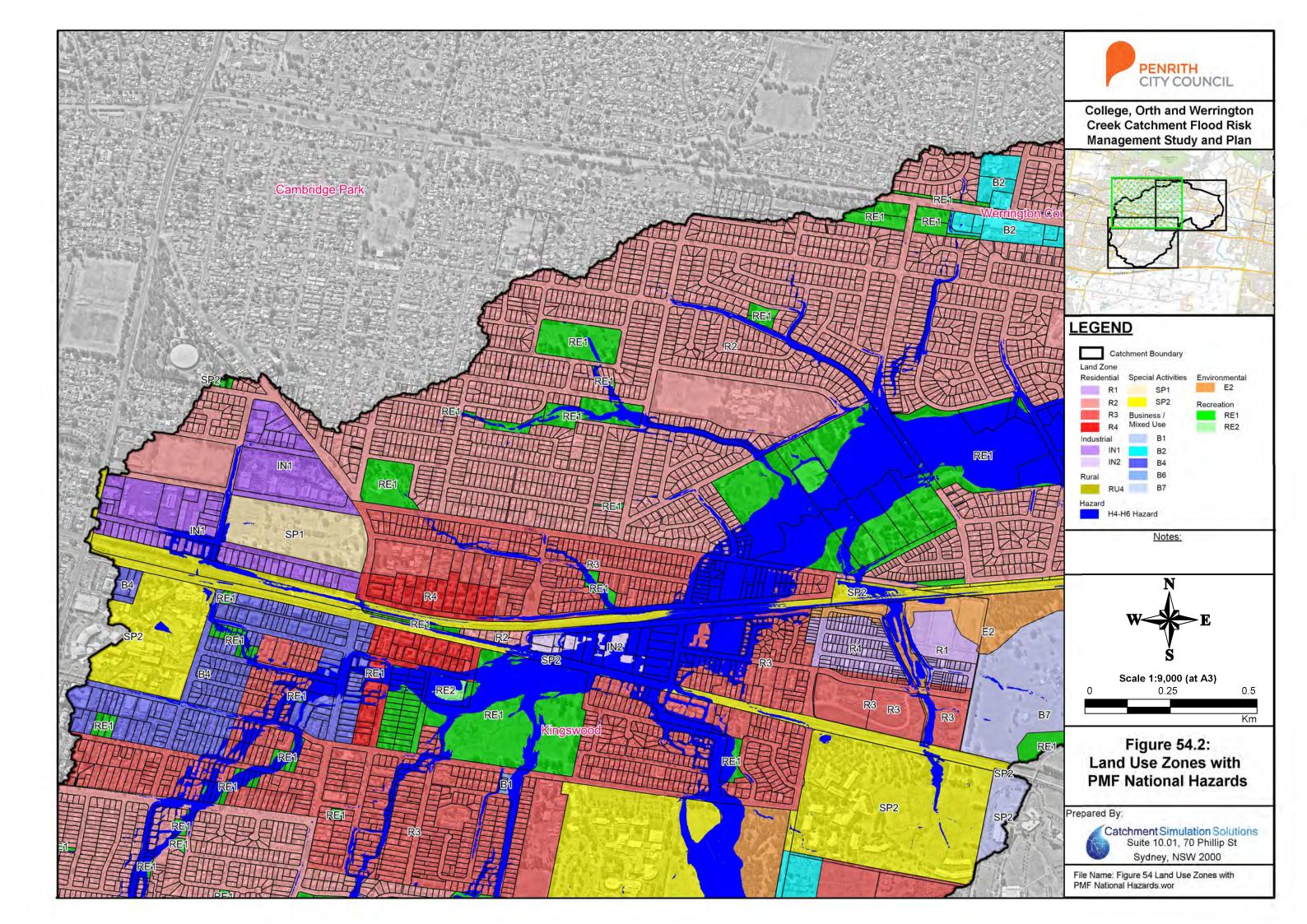


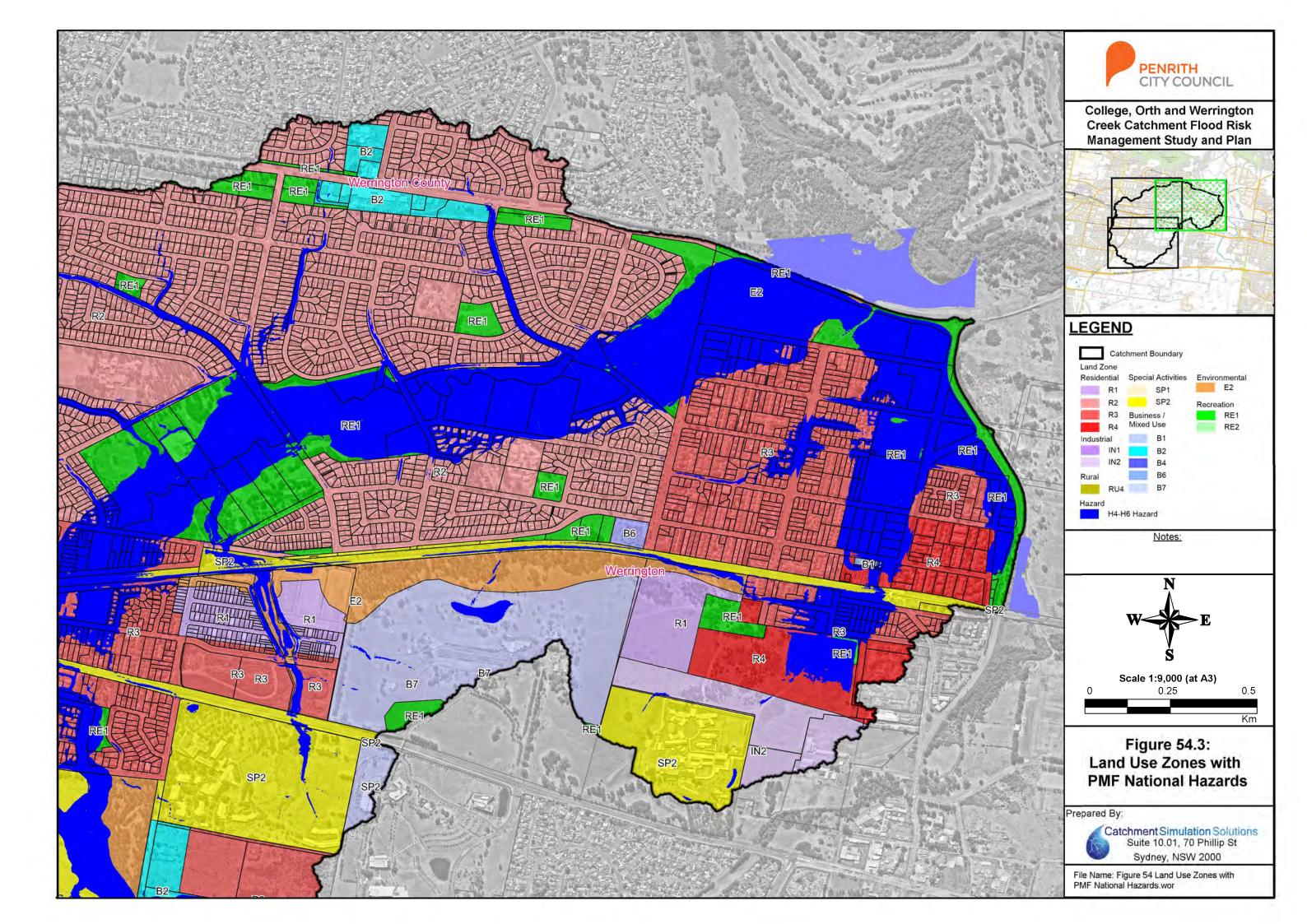


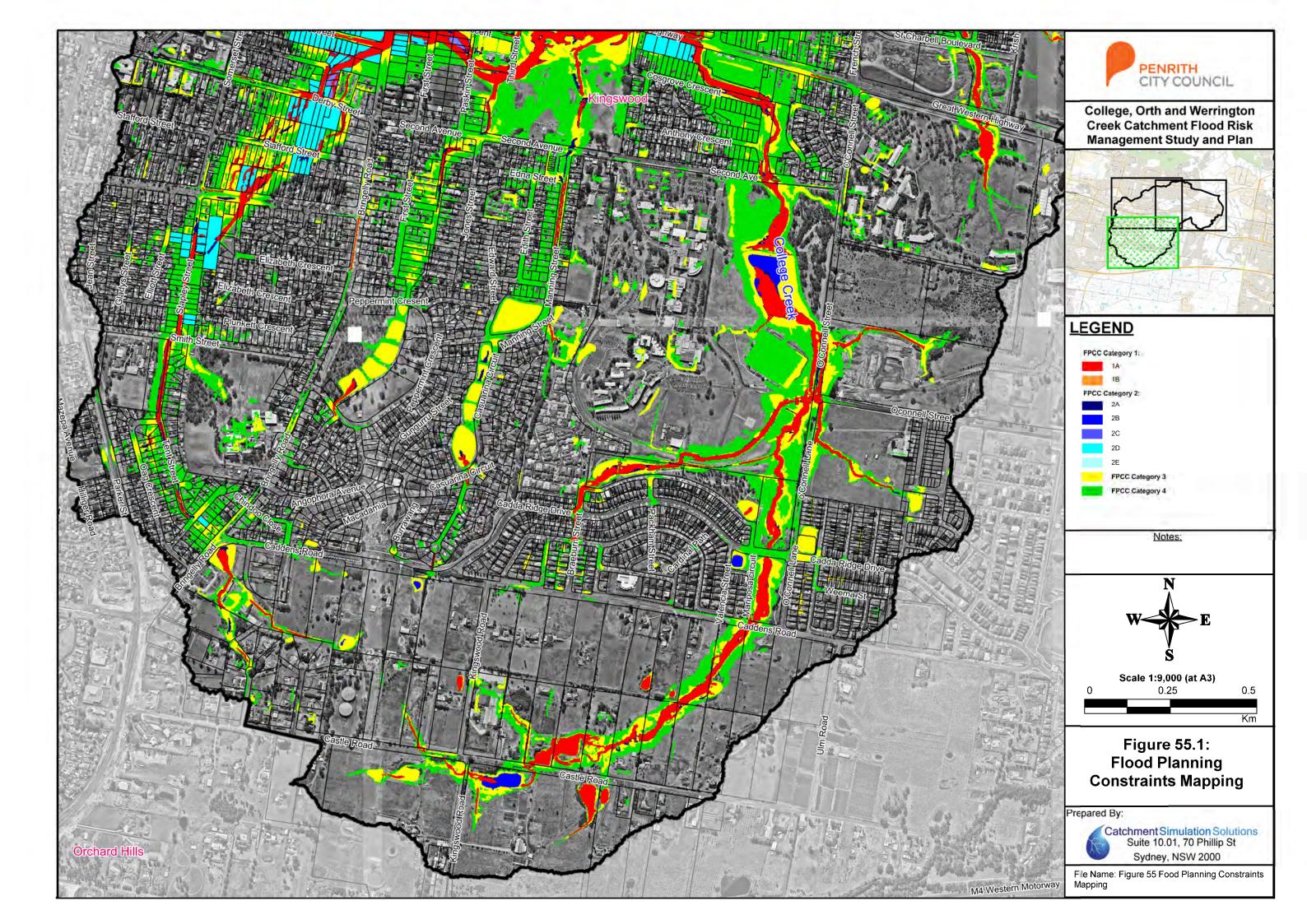


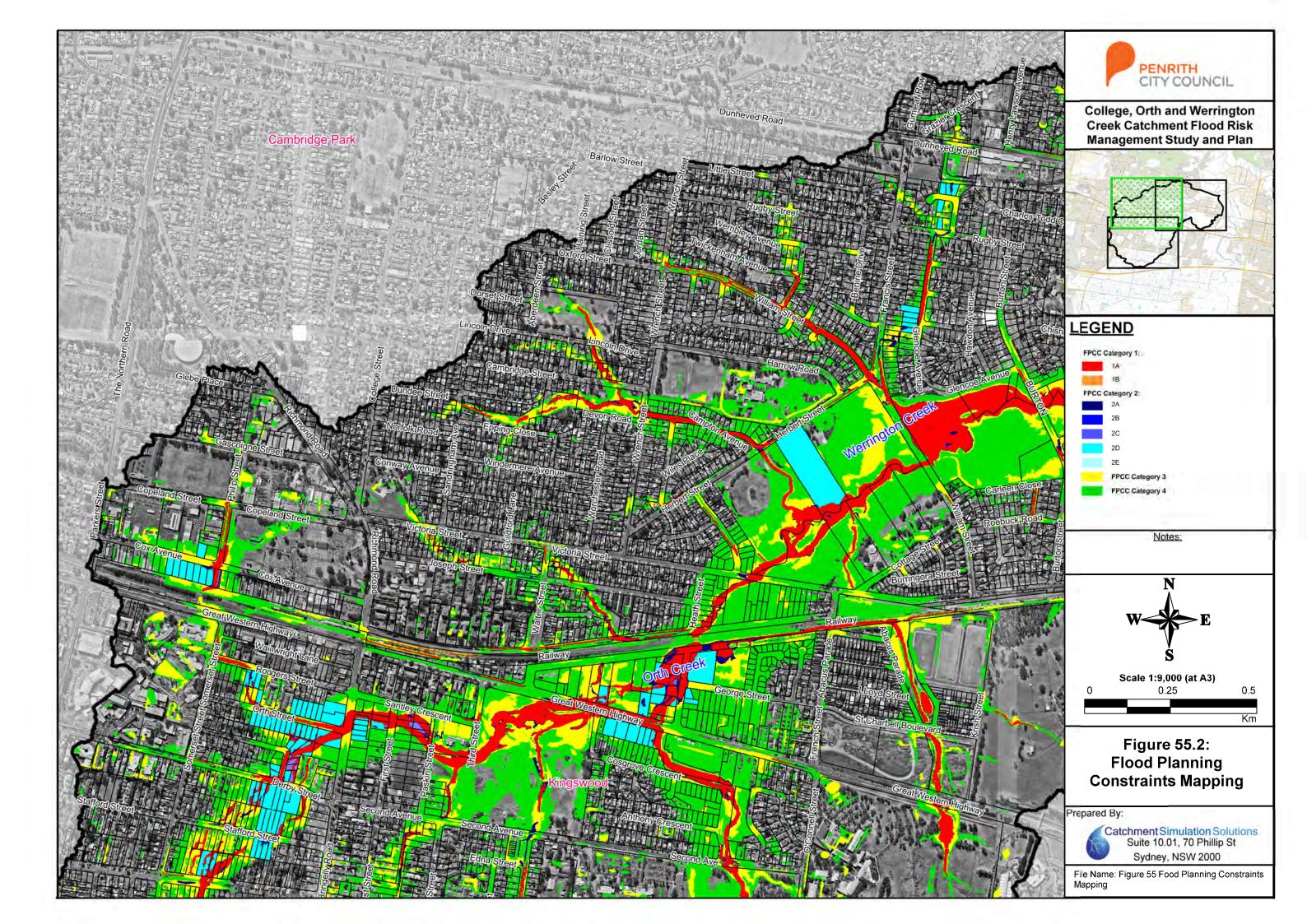


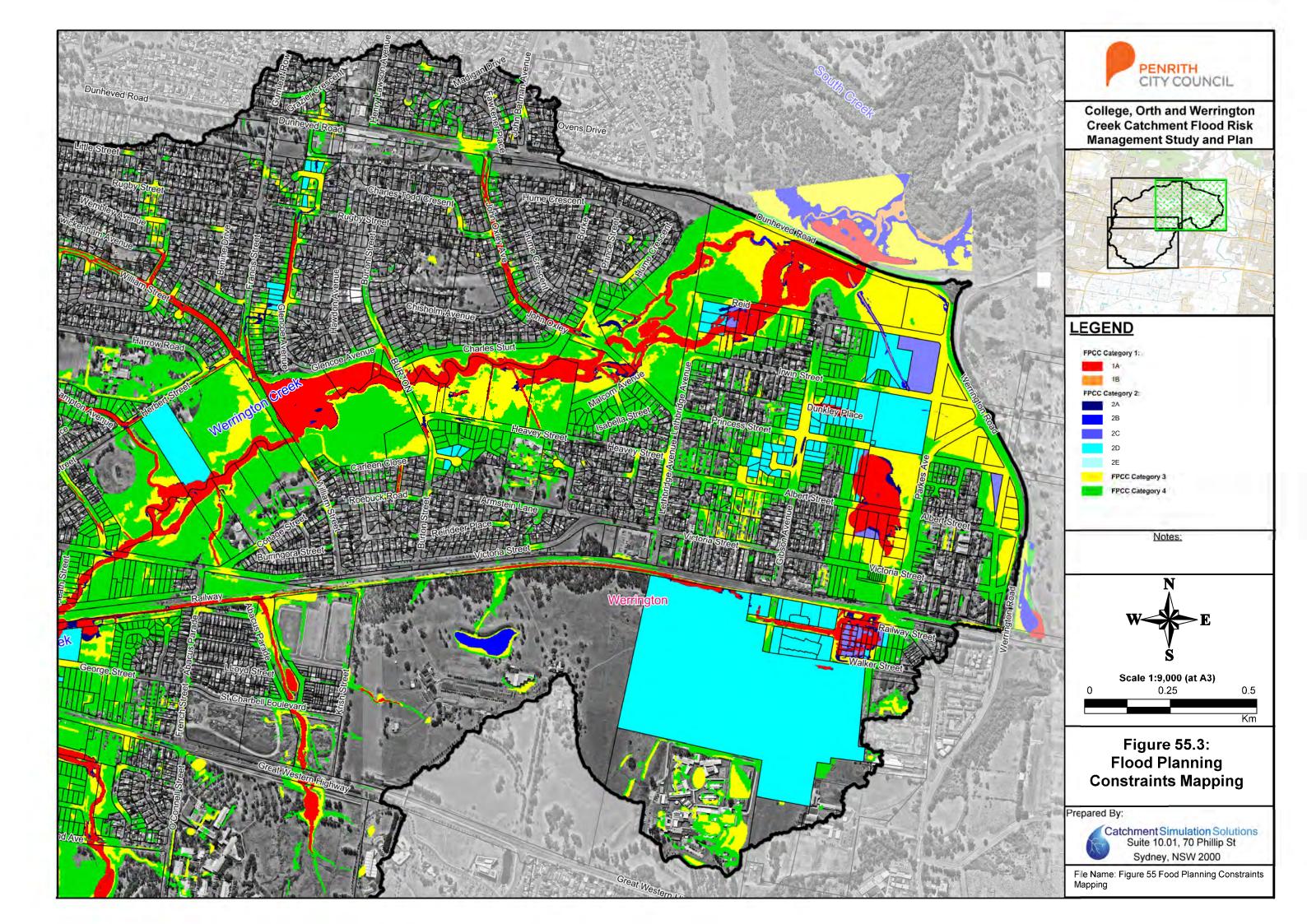


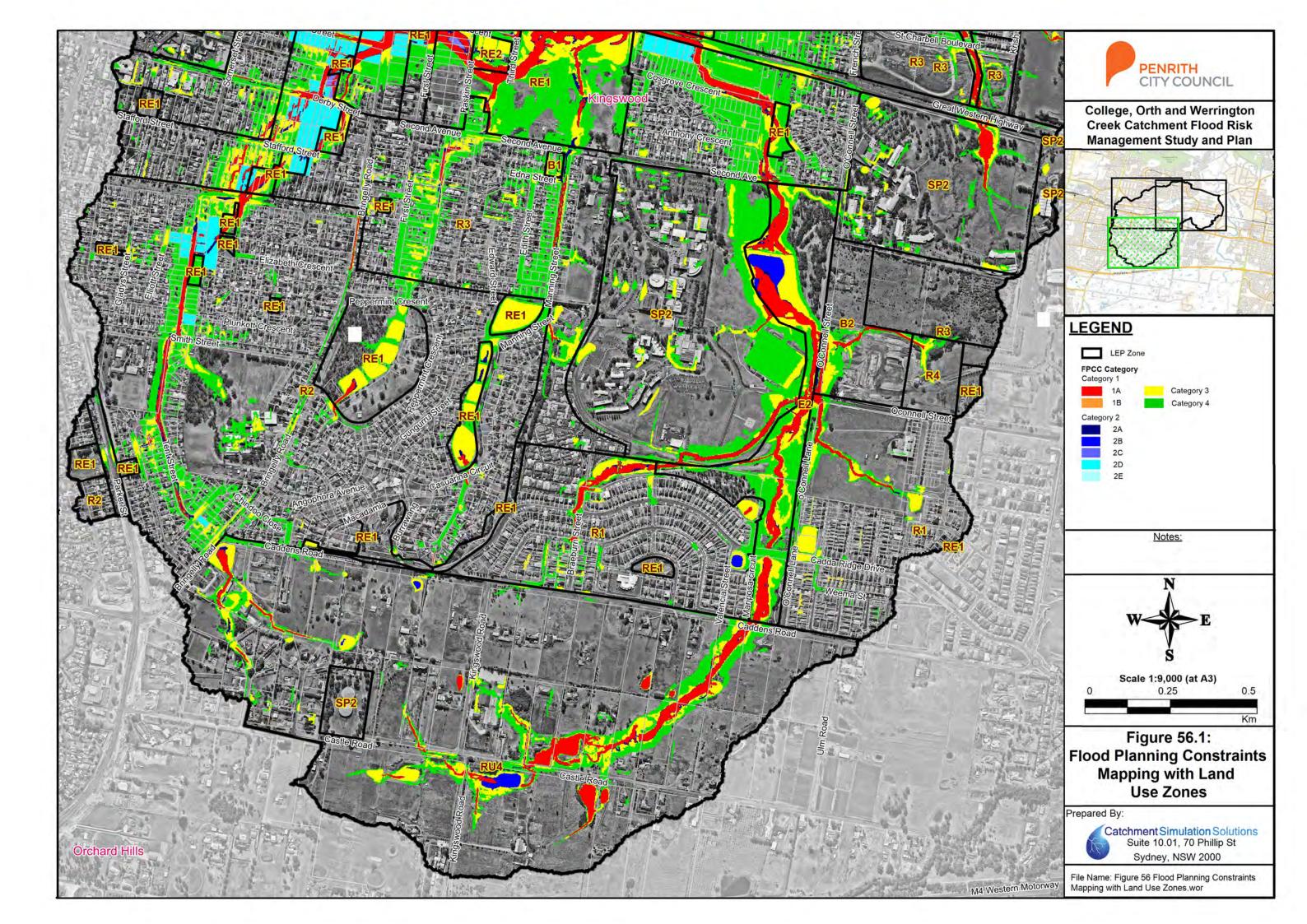


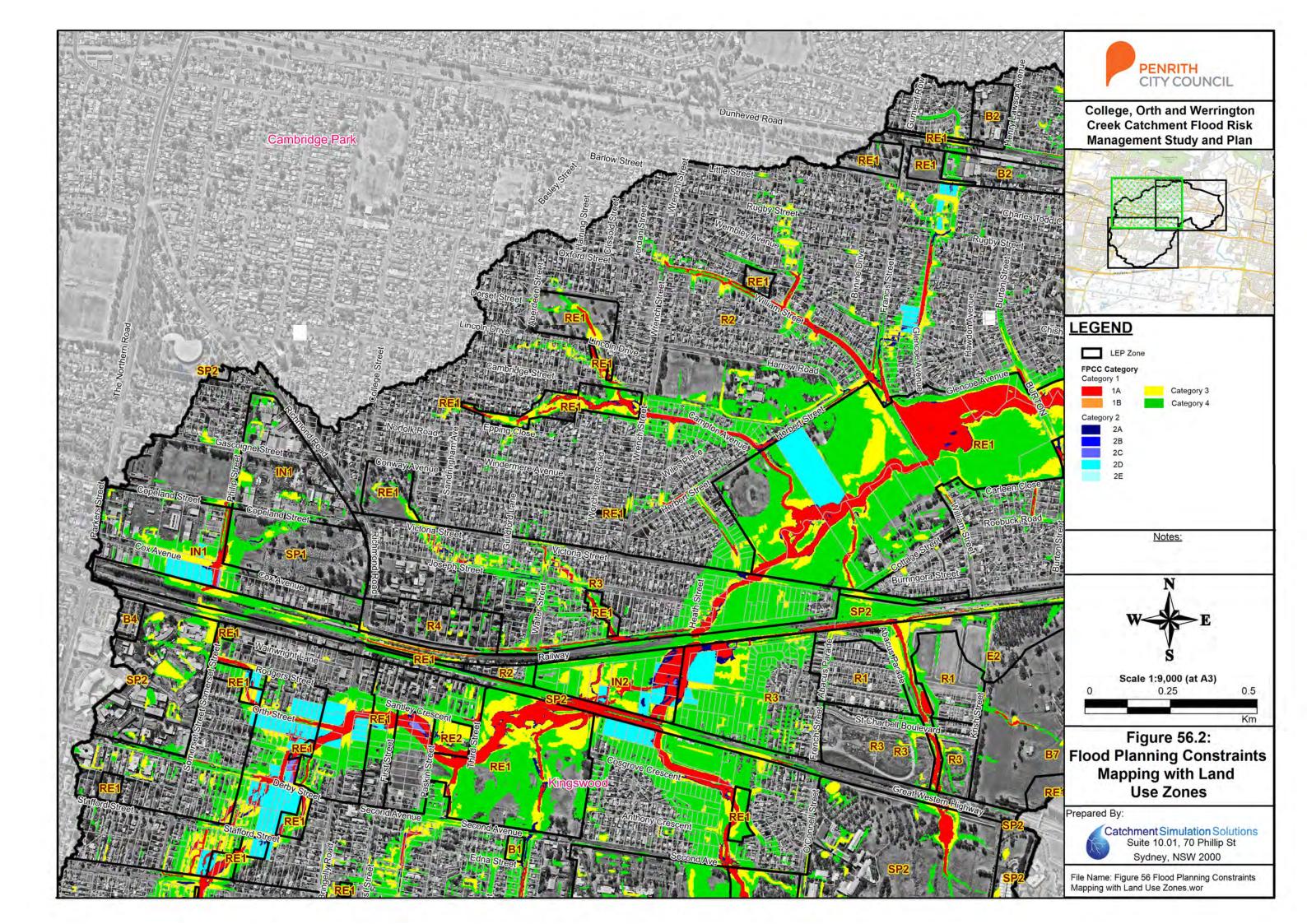


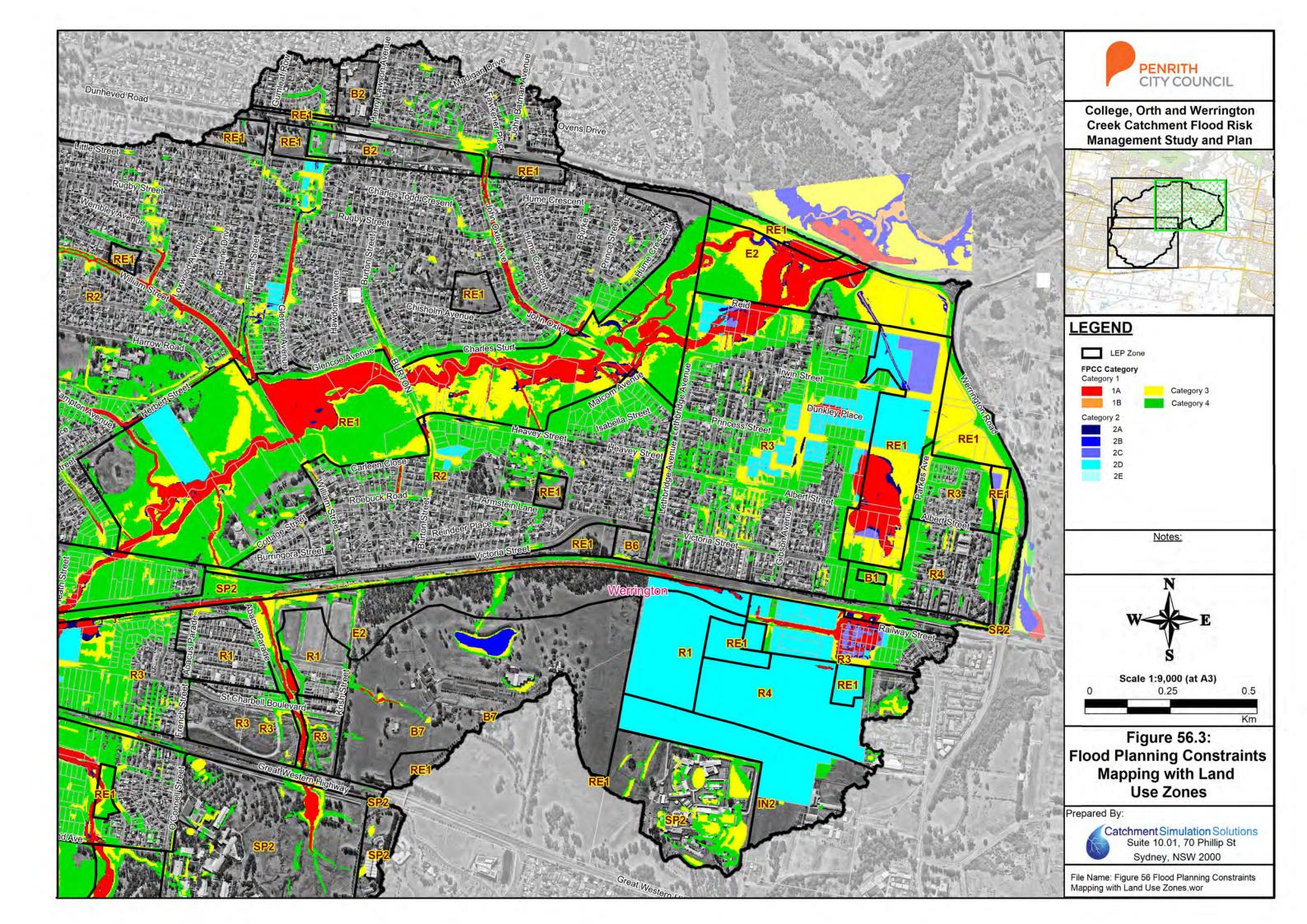


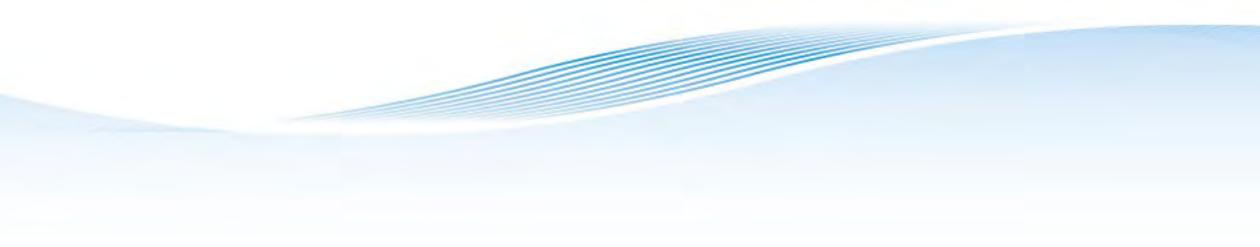




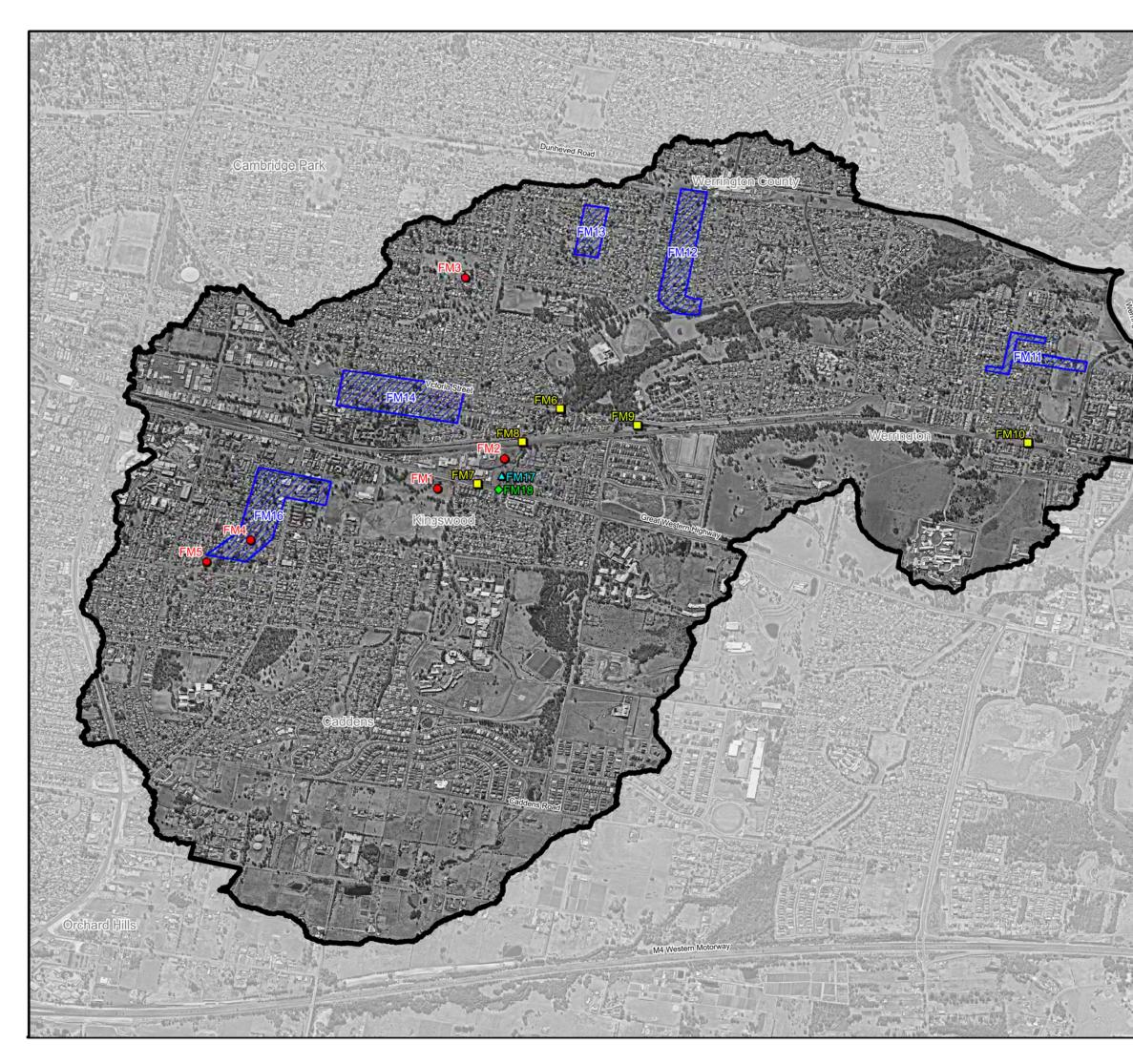


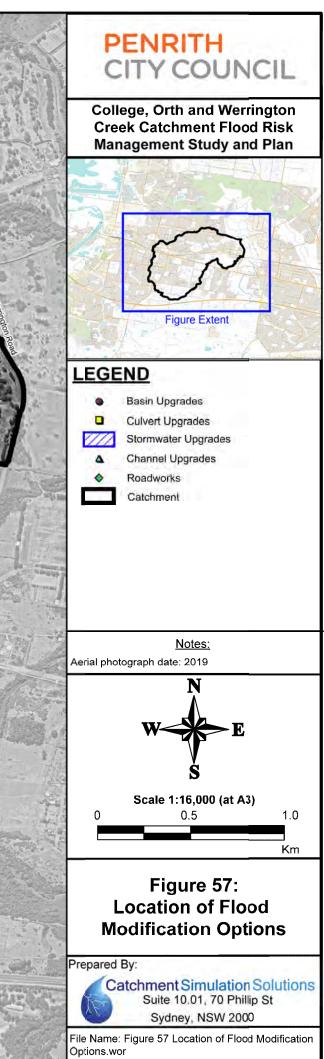


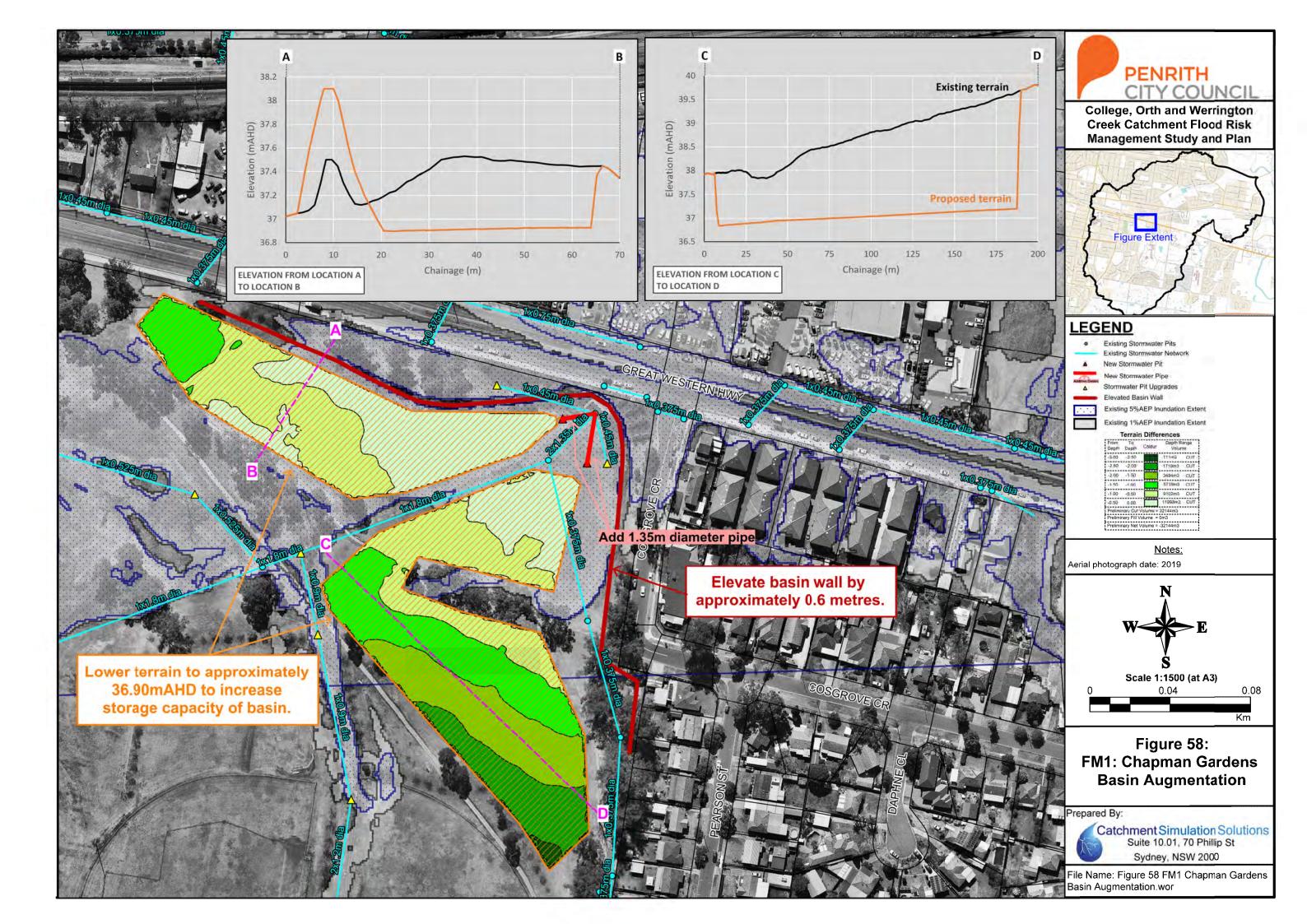


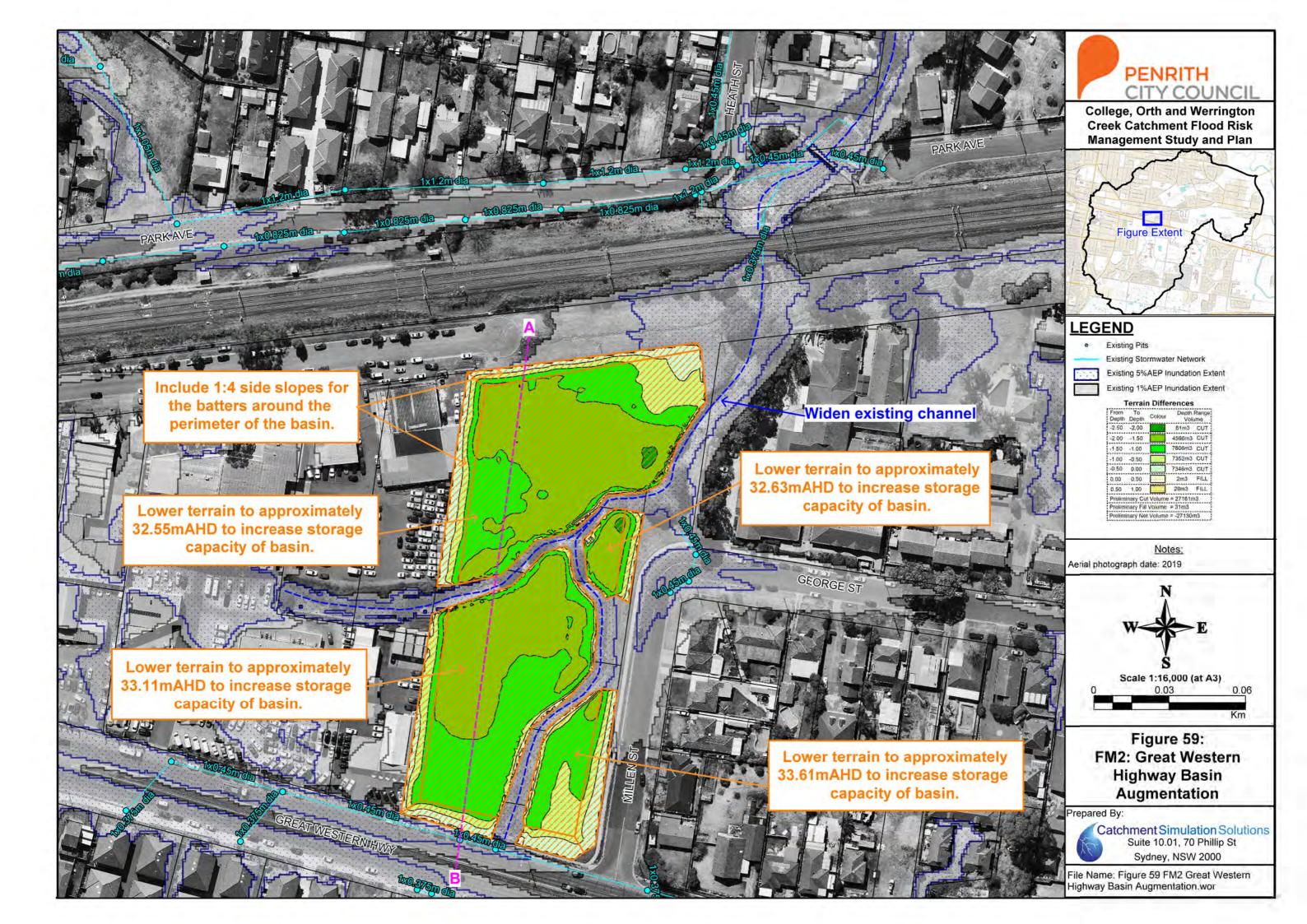


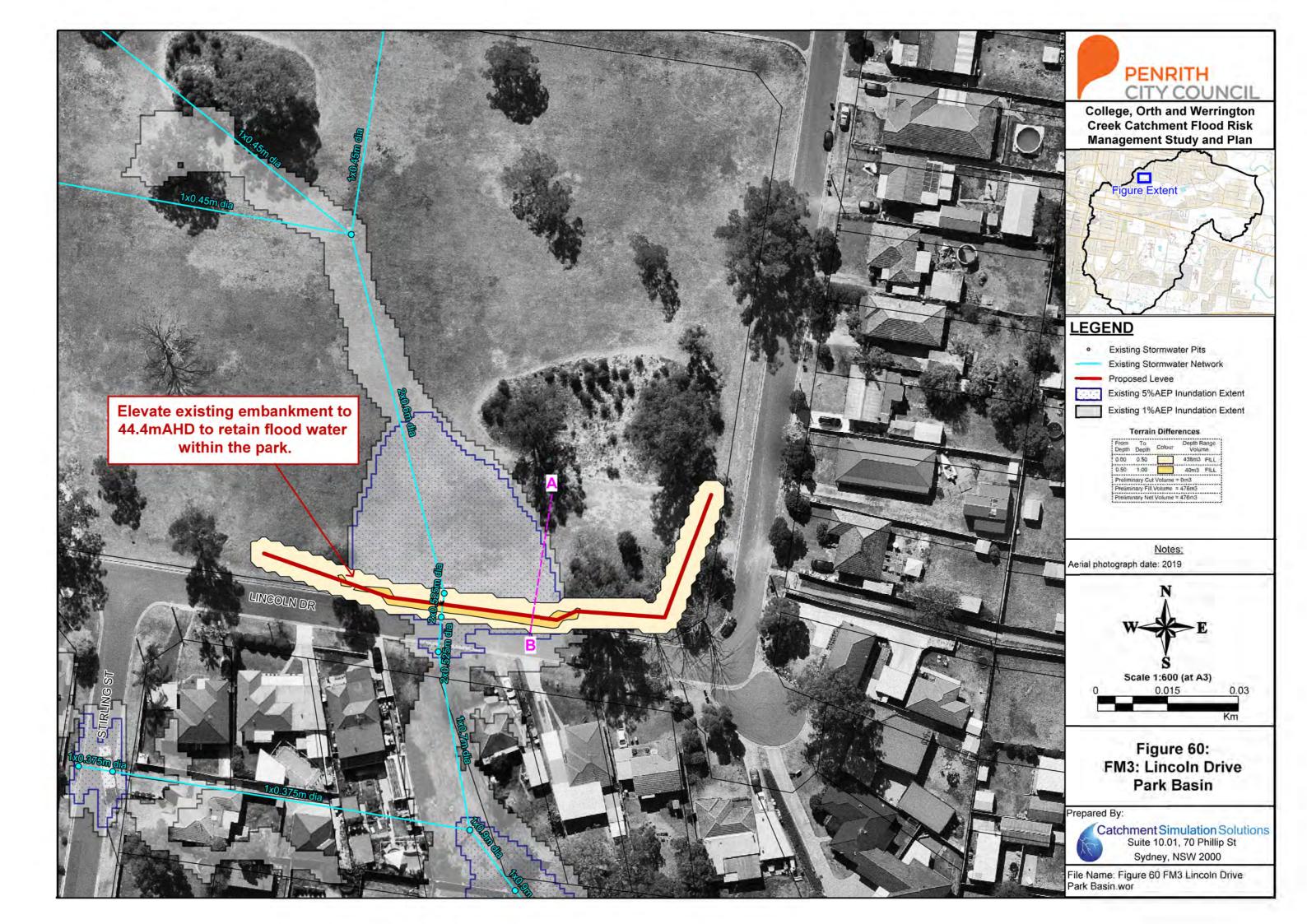
CONCEPT DESIGNS FOR FLOOD RISK MANAGEMENT OPTIONS

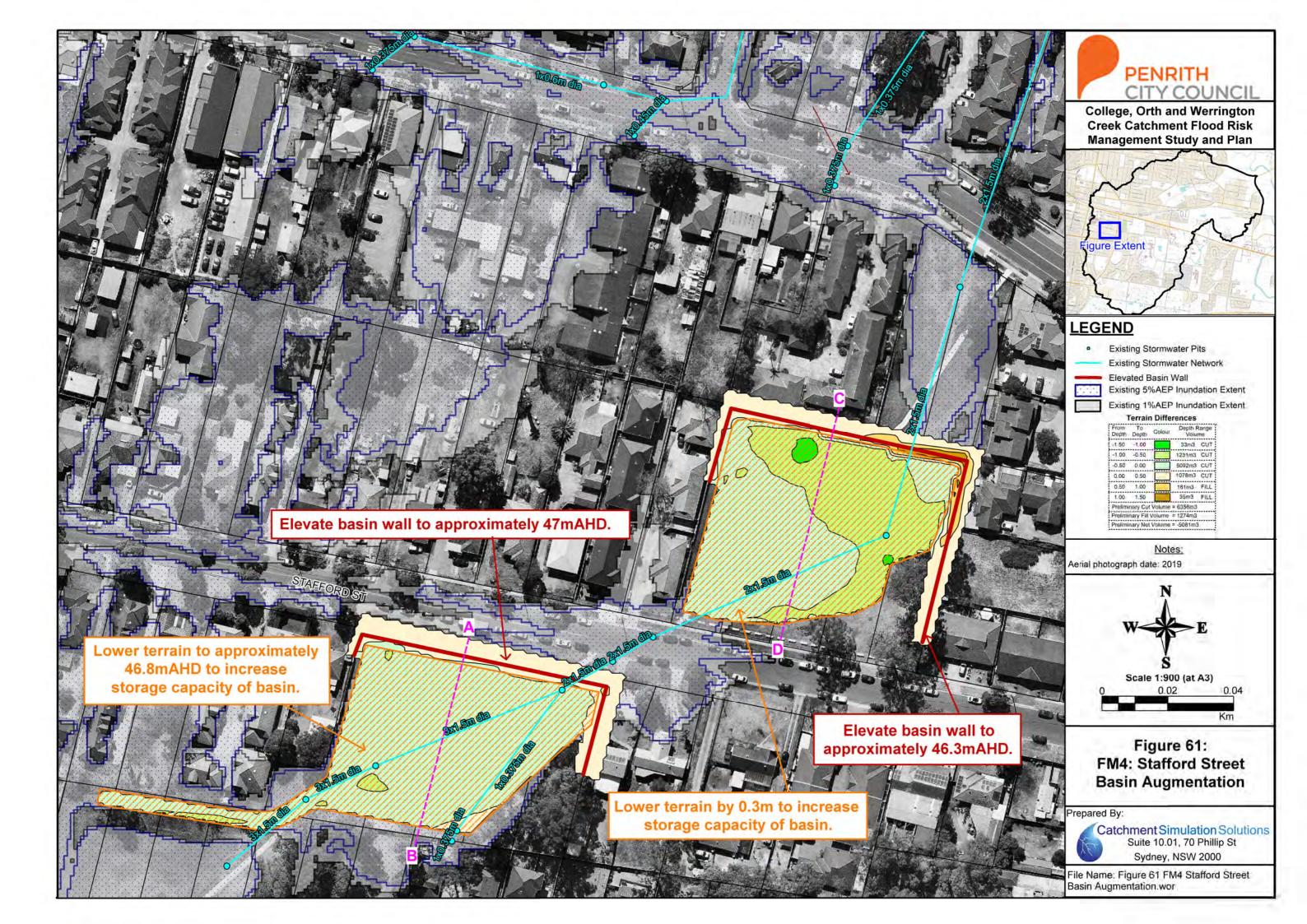


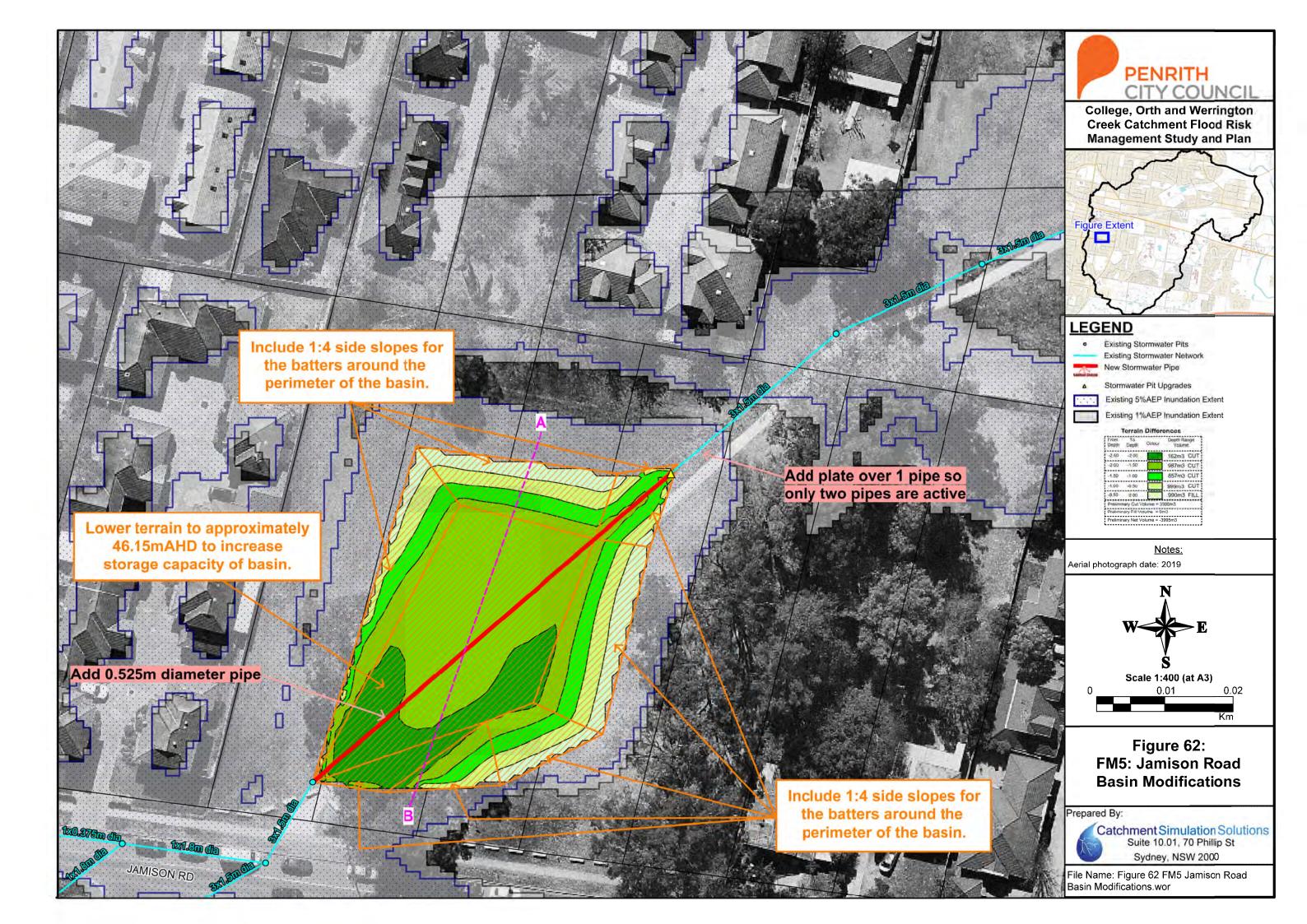






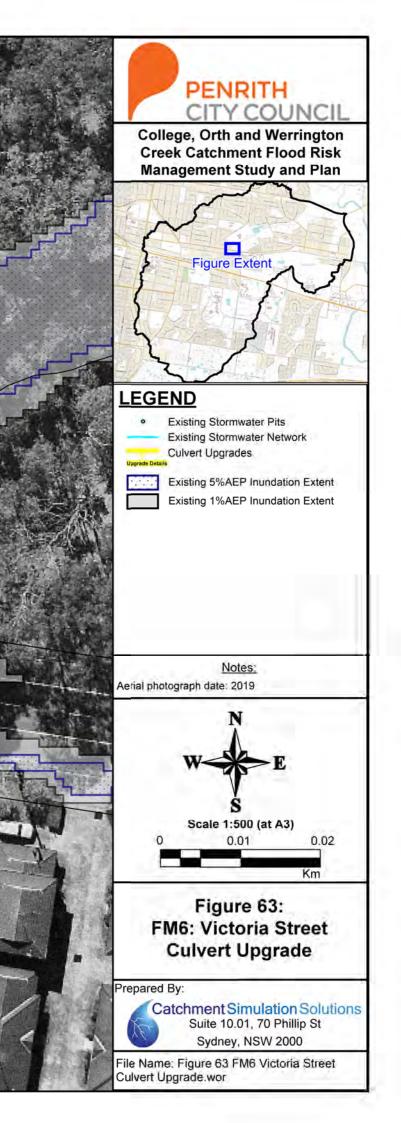


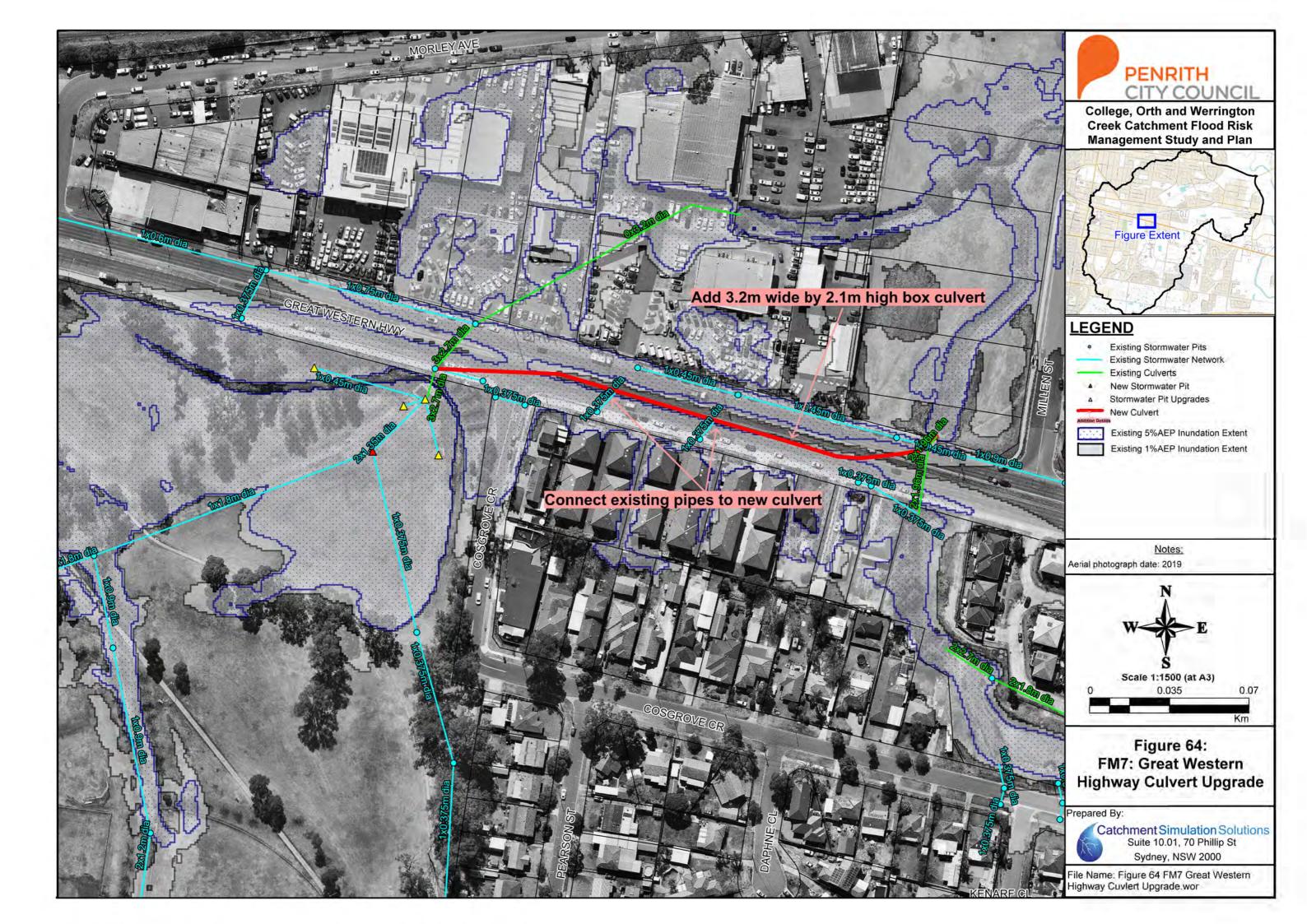


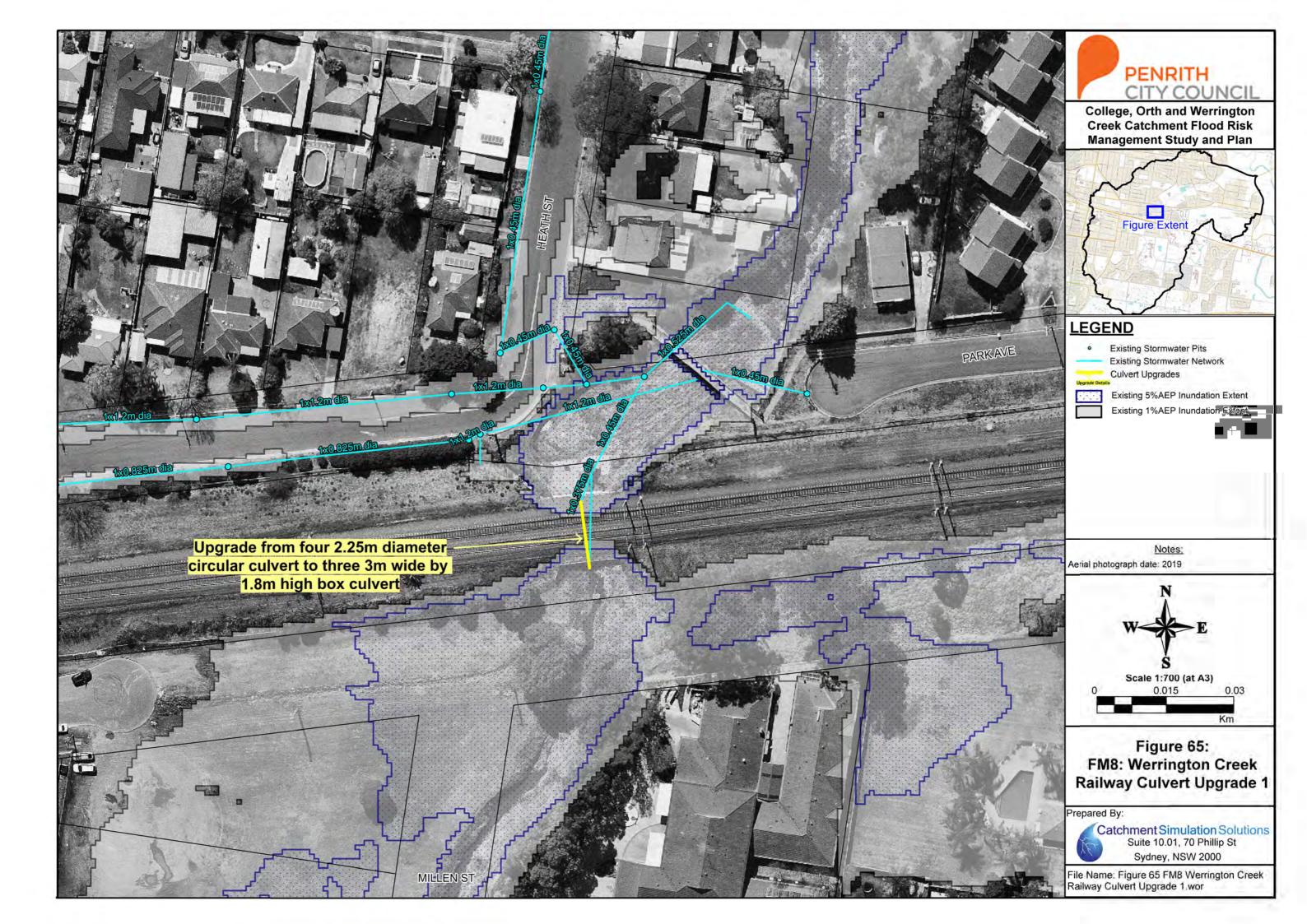


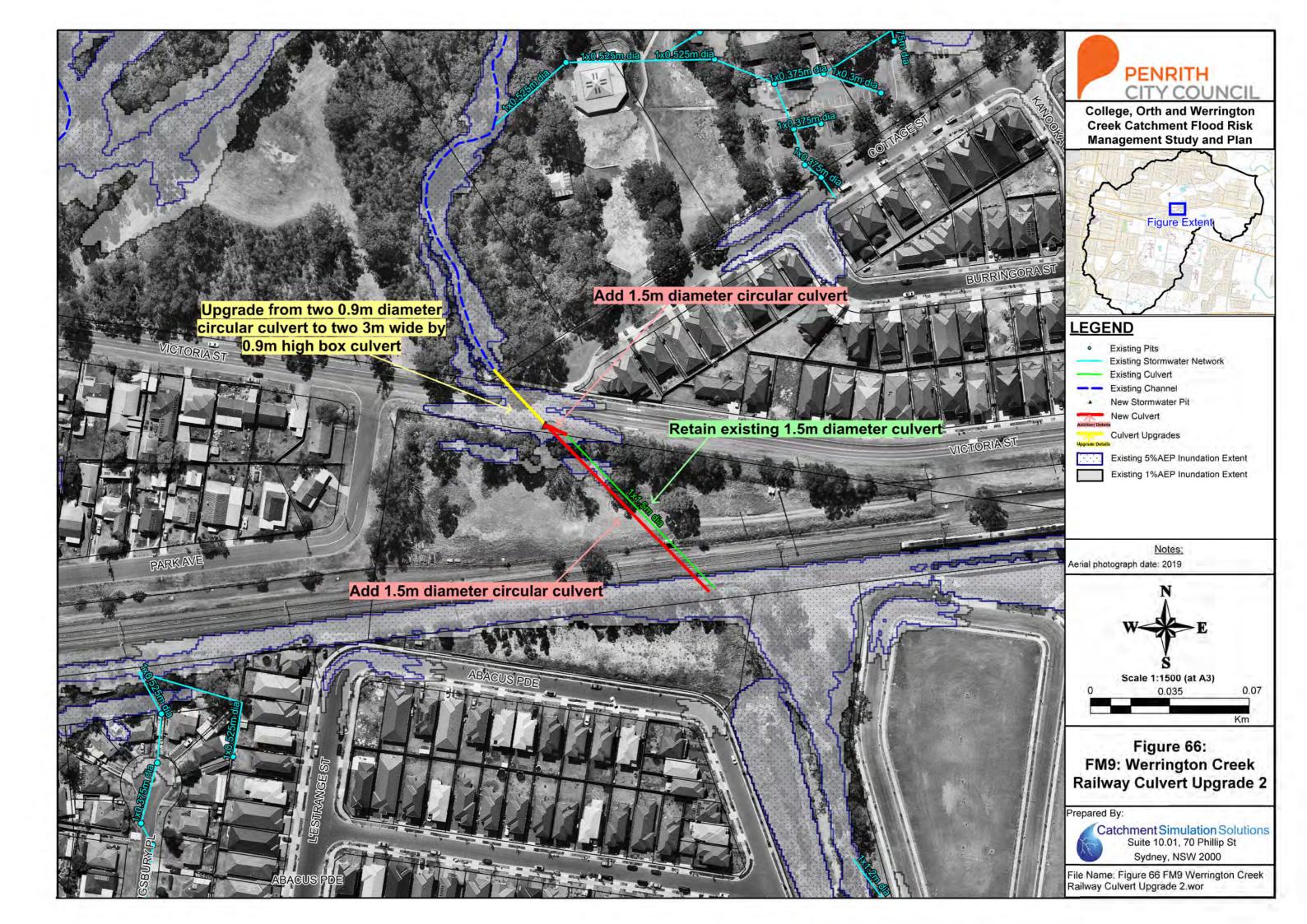
Elevate roadway by approximately 0.2m.

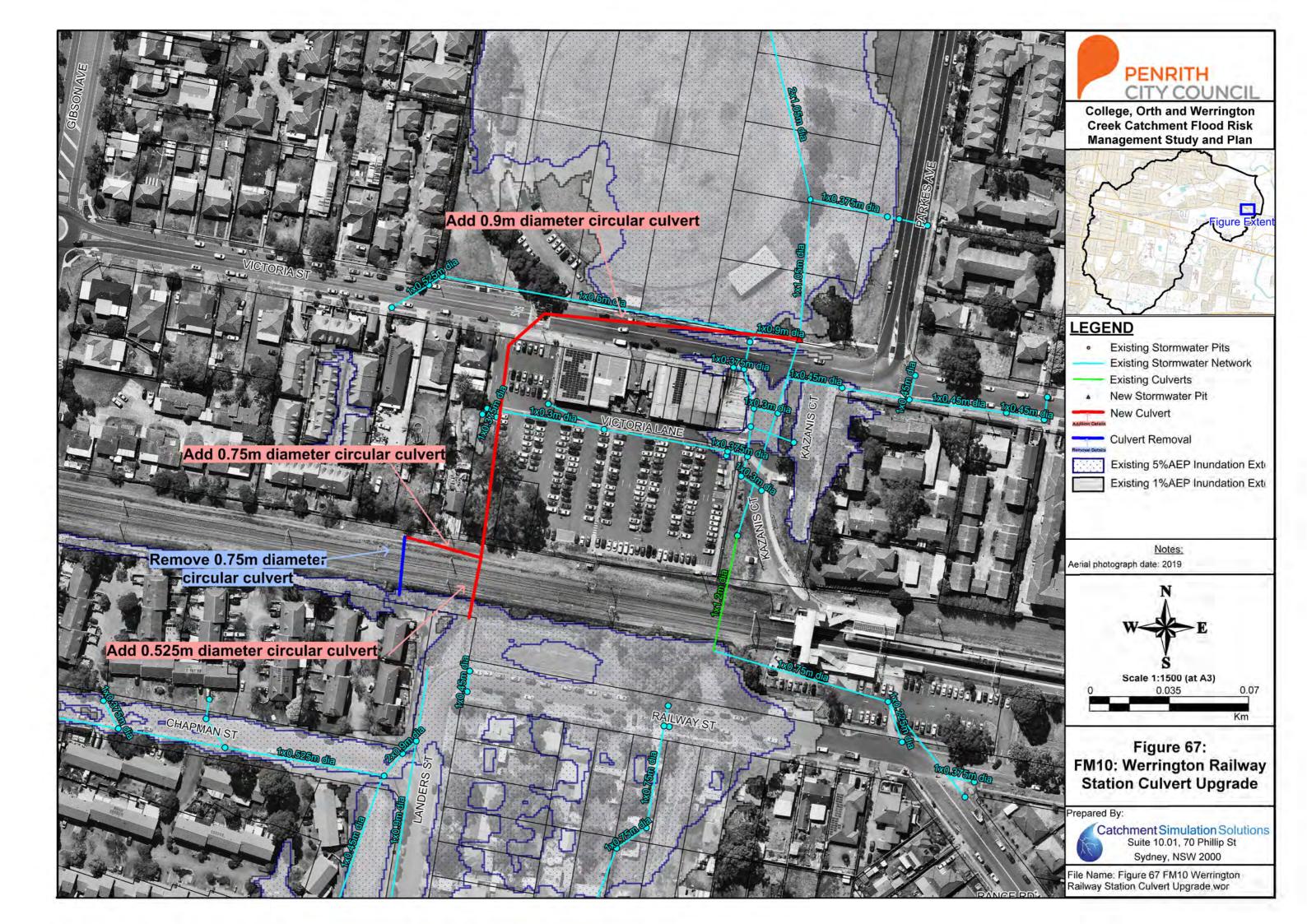
Upgrade from five 3.35m wide by 1.8m high box culverts to six 3.6m wide by 2.1m high box culverts

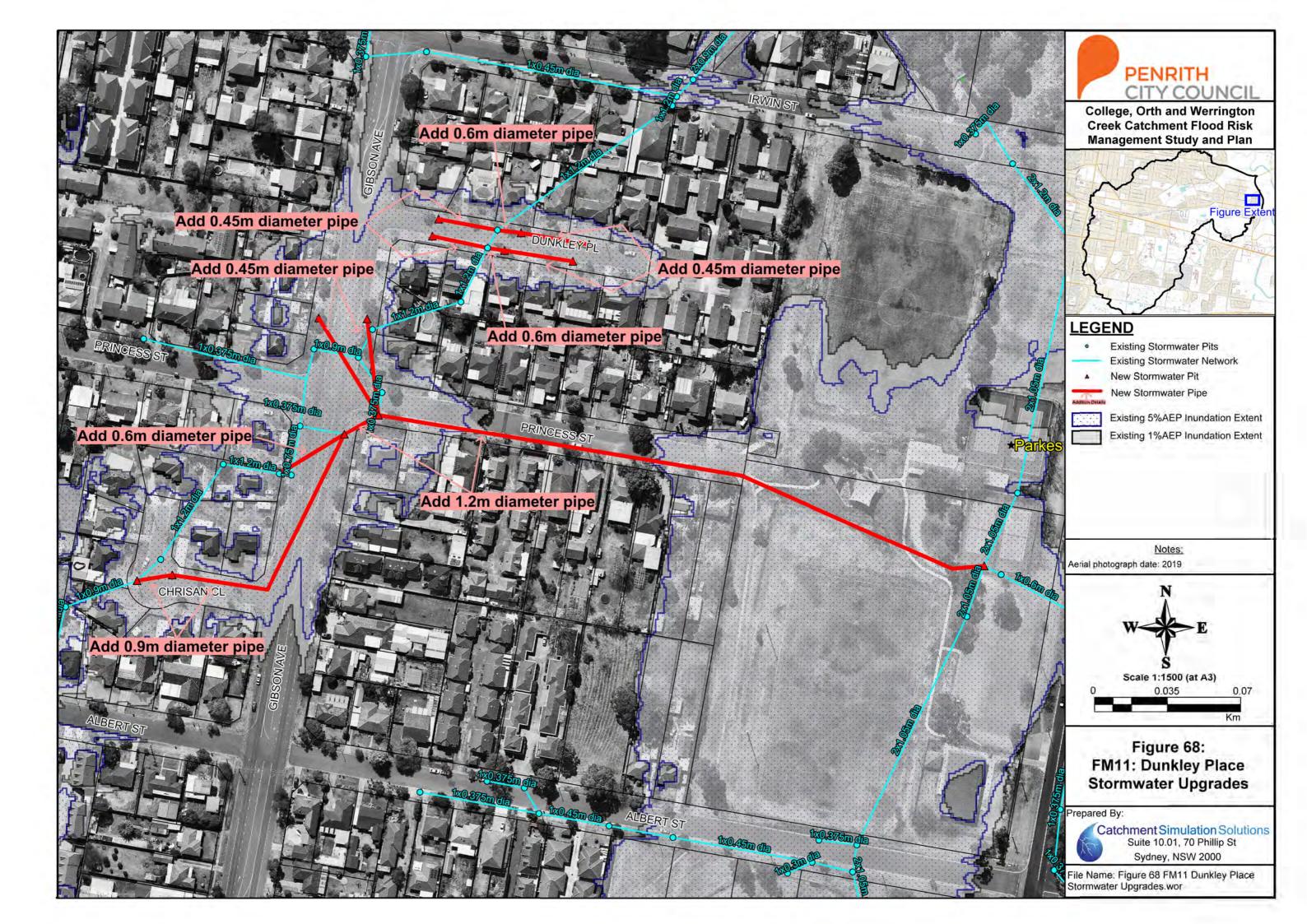












Add 0.6m diameter pipe

Add 0.375m diameter pipe Upgrade from one to two 1.05m diameter pipe

Add 1.05m diameter pipe





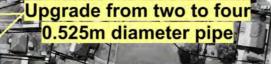
Add 0.375m diameter pipe



Add 1.05m diameter pipe



Upgrade from 0.375m to 0.75m diameter pipe



Upgrade from two to four 0.6m diameter pipe

Upgrade from two to four - 0.75m diameter pipe Add 0.375m diameter pipe



Add 0.375m diameter pipe







