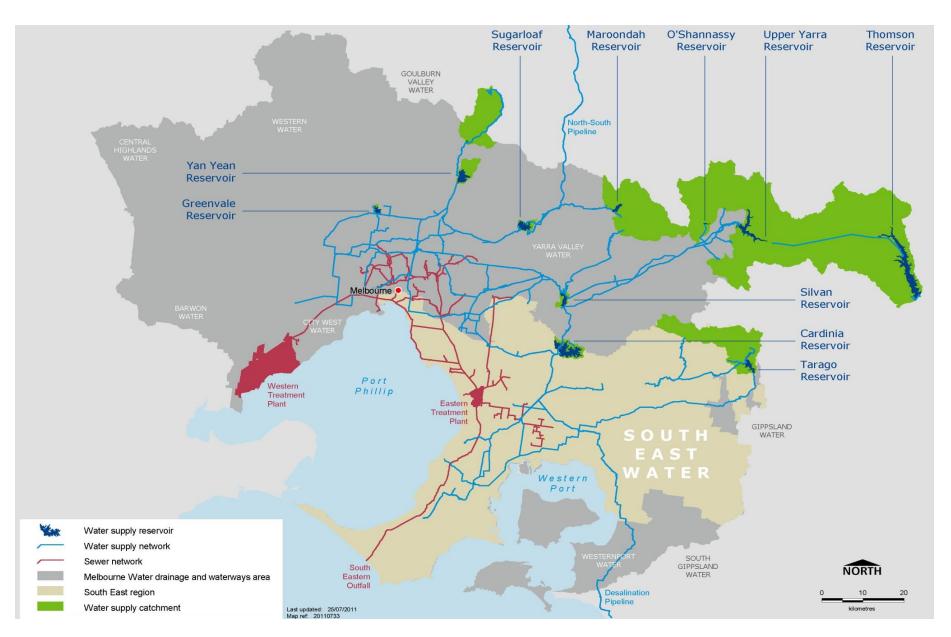
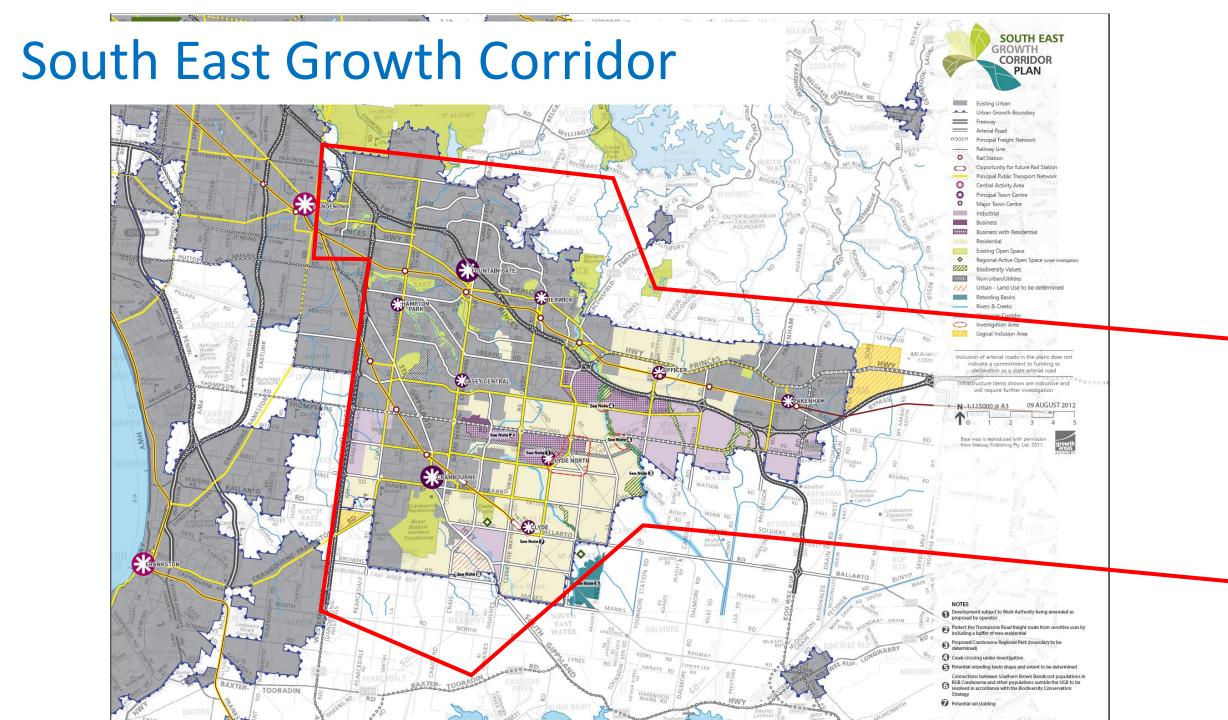
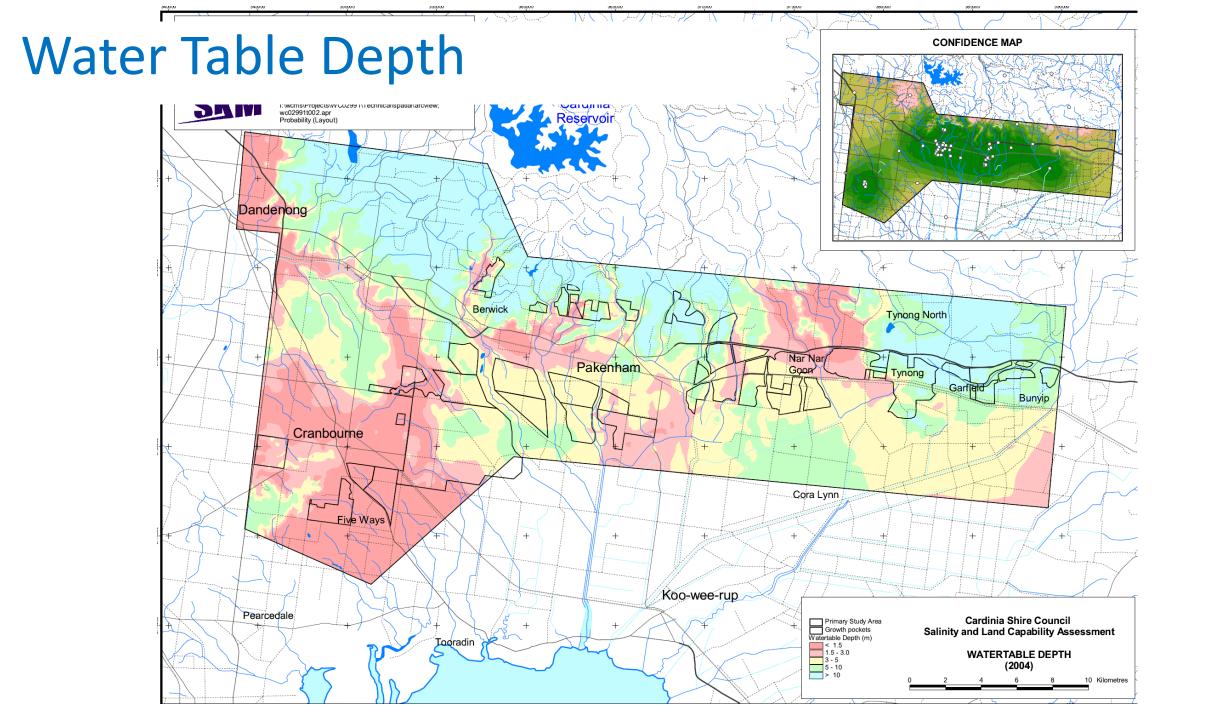
#### SE Water Service Area









Impact on recharge from development from development from developments.

Reduced permeable areas

Paduced vegetation and

- Reduced vegetation and transpiration
- Garden watering & irrigation during summer
- WSUD infiltration pushing water into the ground
- Base stream flows tend to rise with development



Figure 5 Average monthly baseflow calculated from recharge (Figure 2).

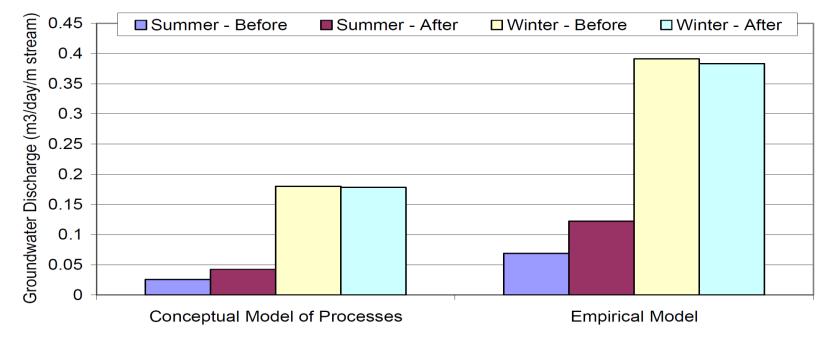
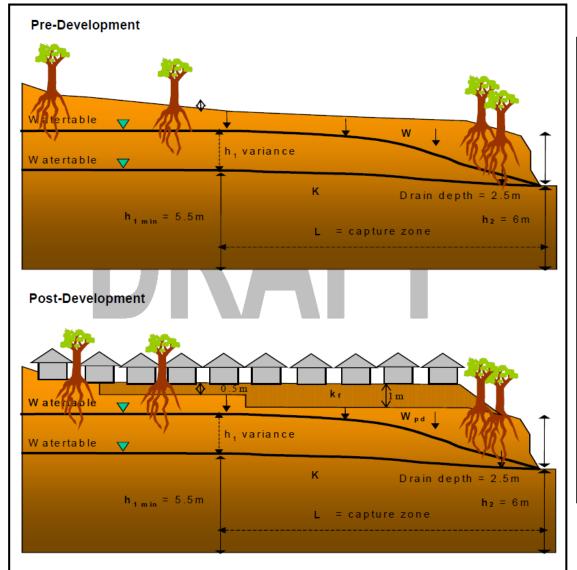


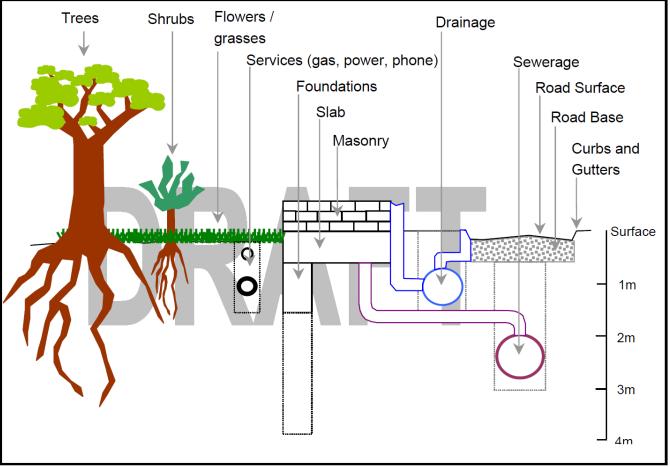
Figure 6. Groundwater discharge or stream baseflow generation rates on the Western Port Plains (m3/day/(m length of stream)). Discharge rates are shown for summer and winter before and after urban development using both discharge modeling approaches.

# Interaction with groundwater

Figure 2 Conceptual model – Pre and Post Development

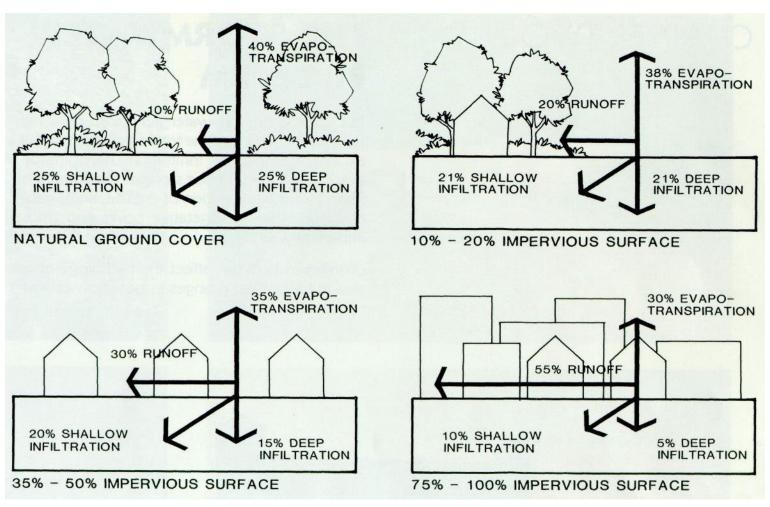


■ Figure 2 Summary of key elements of urban development that may interact with groundwater



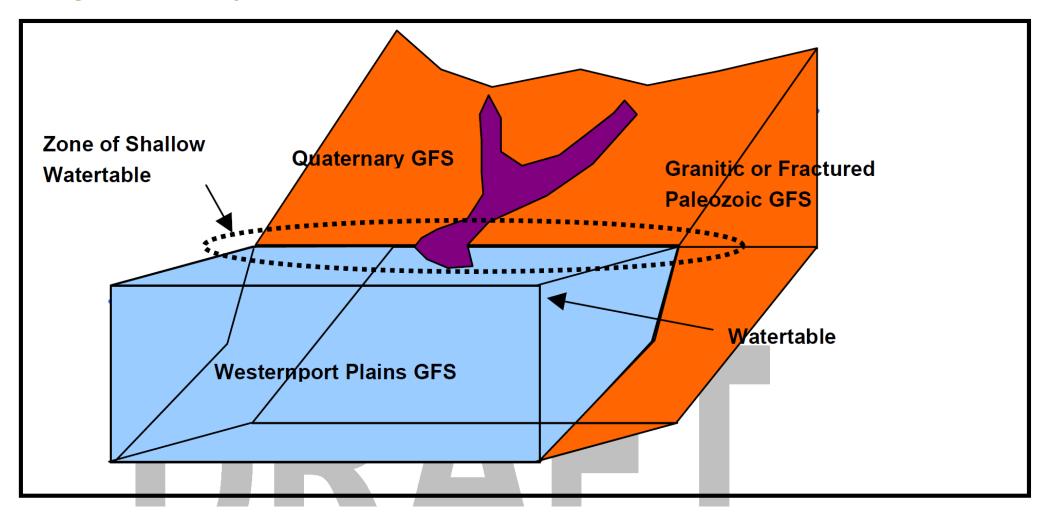
#### **Questions for Research**

- What is the impact of development on groundwater?
- WSUD and groundwater recharge?
- How to manage in shallow saline areas?
- Risks to urban infrastructure and fauna?
- What is the seasonal variation?



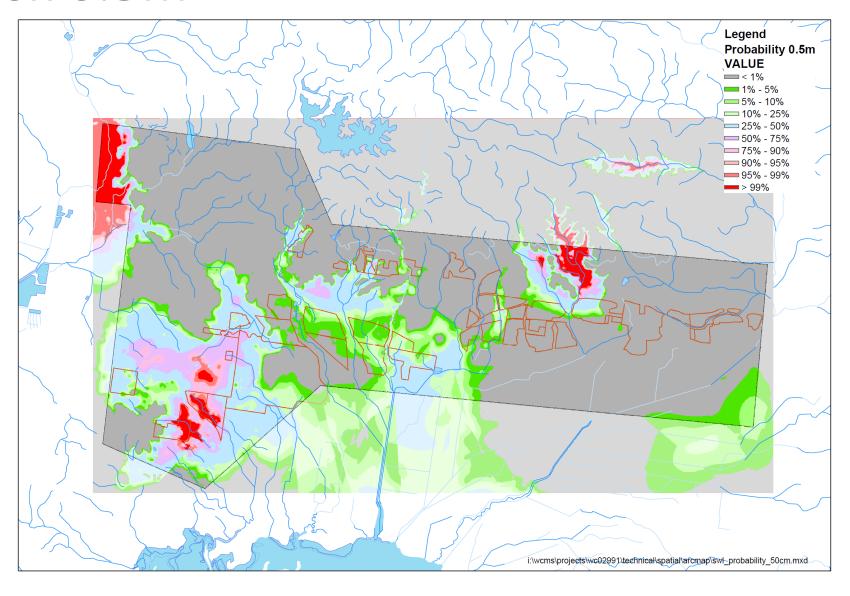
Is the model right??

#### ■ Figure 11 Conceptual model – Berwick –Pakenham zone

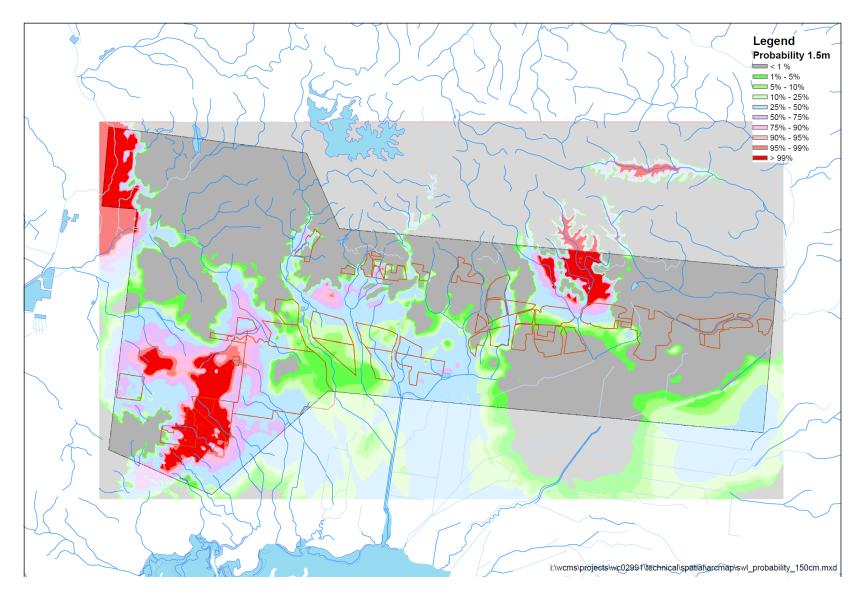


TDS 6000 to 8000 ppm

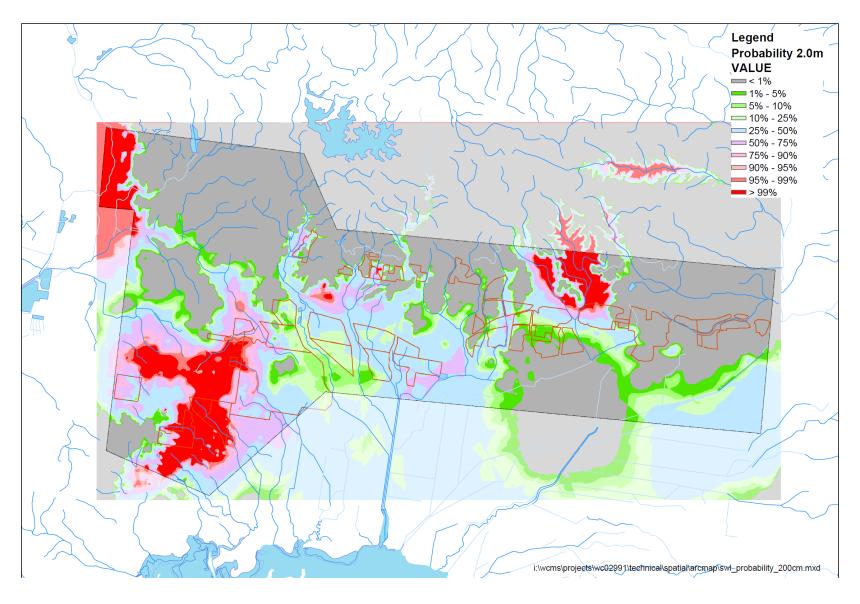
# Saline Risk 0.5m



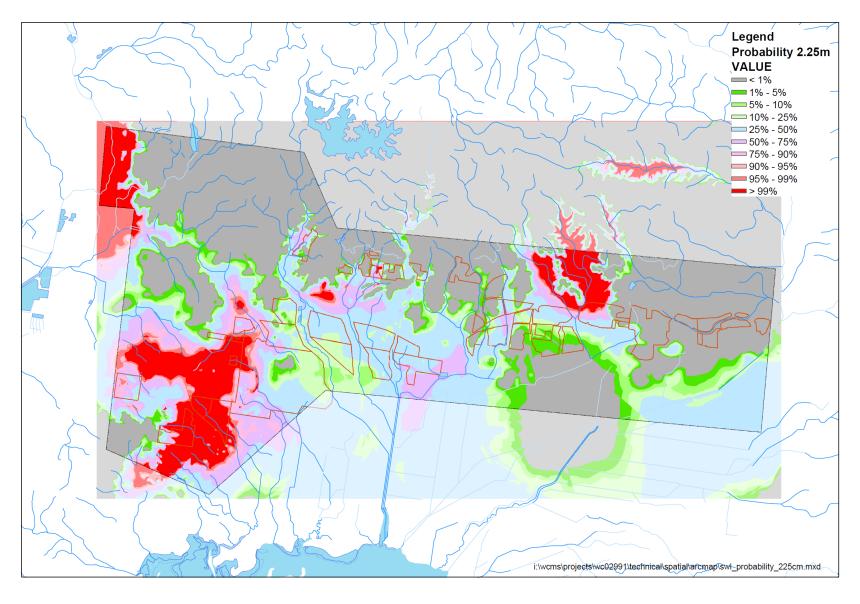
# Saline Risk 1.5m



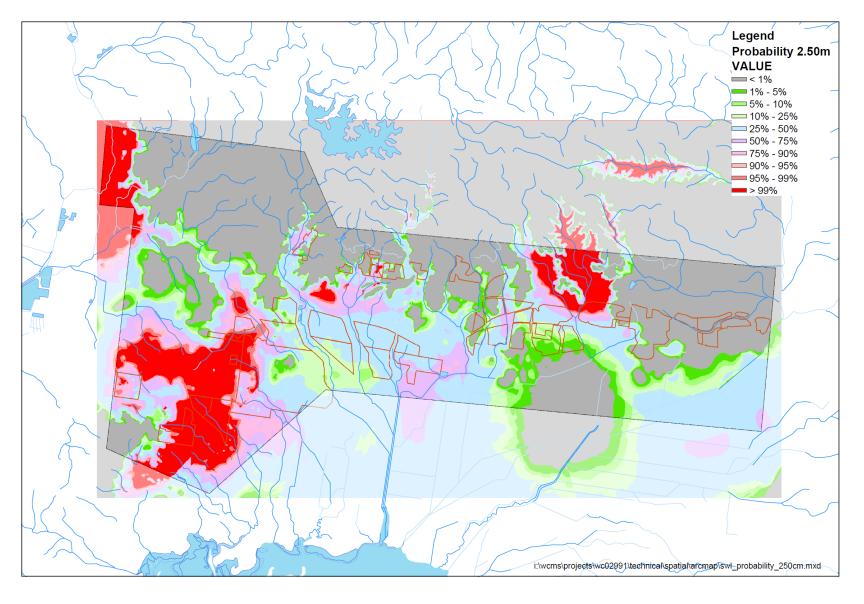
## Saline Risk 2.0m



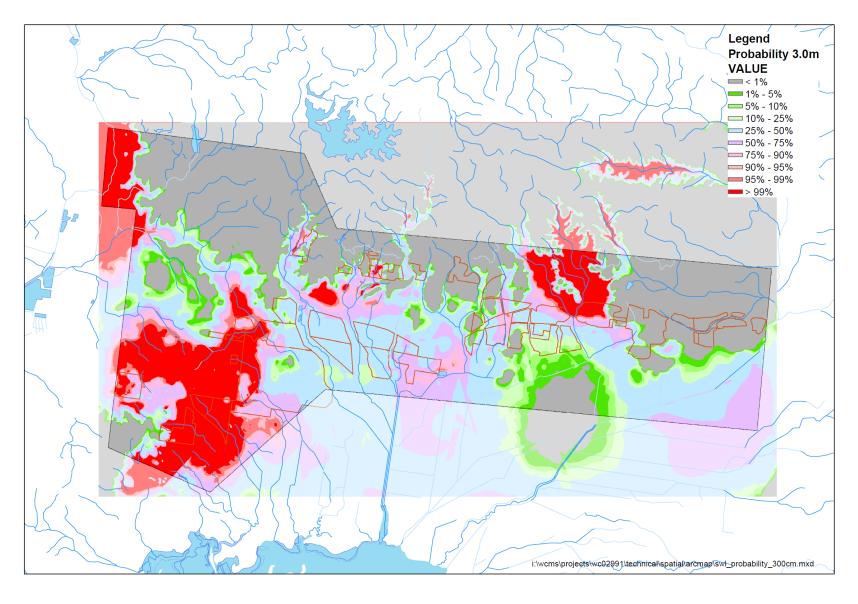
## Saline Risk 2.25m



## Saline Risk 2.5m



# Saline Risk 3.0m



## Saline Risk 3.25m

