Parramatta River Conceptual Model **Wet Weather**

Sydney **WAT ₹R**

Modified sub-catchments



Stormwater infiltration rates are low, resulting in large runoff volumes.

Stormwater travels rapidly along concrete lined channels.

· Large volumes of sediment, nutrients and contaminants are transported

Natural sub-catchments



· Stormwater infiltration rates are higher, reducing runoff.

Stormwater flows are slowed in water holes and deeper section of natural creeks. Lower volumes of sediment, nutrients and contaminants are transported



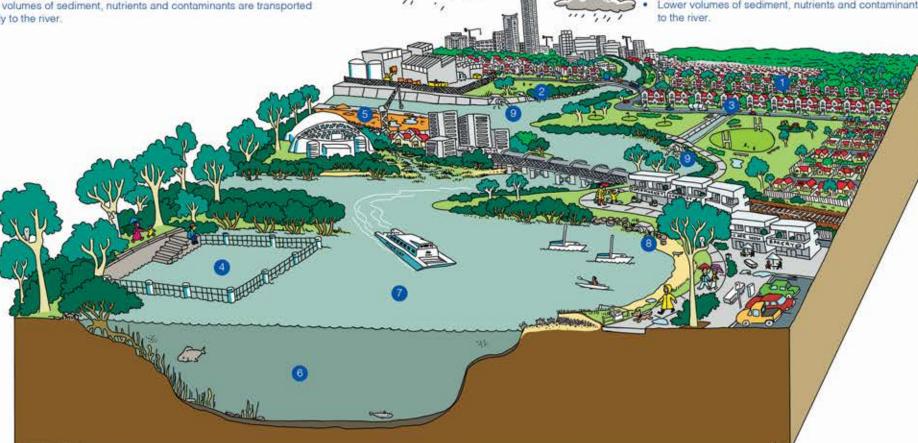
Contaminants, organic matter and sediments accumulate around stormwater outlets, creating pollution hot spots.

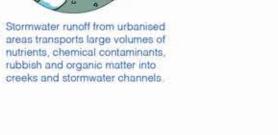


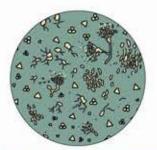
High nutrient loads from stormwater runoff may lead to algal blooms.



High stormwater flows transport microbial and chemical contaminants along the river.







Levels of microbial and chemical contaminants in the water are elevated during wet weather, making it unsuitable for swimming.



Poor management of sand, soil and other materials on building sites results in sediments, nutrients and contaminants washing into the river.



Increased sediment loads create turbidity, impacting the health of aquatic organisms and affecting water clarity.

Stormwater enters the wastewater

system through infiltration and

illegal stormwater connections

result wastewater is discharged contributing nutrients and microbial

(eg roof downpipes). As a

contaminants to the river.

Animal faeces from parks,

washed into waterways.

properties and bushland are