

## **EXISTING SITE CONDITIONS**

The existing multi-storey car park sits within the floodplain of Parramatta River and is subjected to inundation of floodwaters during river flood events. This car park is accessible to the public.

The site also experiences flooding from the Parramatta CBD Catchment that joins Phillip Street and subsequently flows into Dirrabarri Lane to release flood water into the Parramatta River. This is known as 'overland' flooding.

## PUBLIC SAFETY AND PROTECTION OF THE COLLECTION

Flood risk has been a key consideration throughout the design development process, in line with Parramatta Council's Development Control Plan requirements for Parramatta CBD buildings.

Revised flood modelling and analysis confirms the Powerhouse Parramatta will be a safe building for people to visit and for the Collection to be exhibited.

It is unlikely that flood waters would enter the ground floor of the Museum.

## **DESIGNING FOR FLOOD RESILIENCE**

Powerhouse Parramatta has been designed to withstand large and rare flood events.

Powerhouse Parramatta exceeds the City of Parramatta Council requirement to be above the '1 in 100 year' flood level. For example, even in a '1 in 1000' year river flood, the ground floor would remain 500mm (half a metre) above flood waters. The majority (80%) of exhibition spaces as well as the emergency power supplies are well above any possible flood levels.





