



TBMs Beatrice and Daphne arriving into the Burwood North site

Tunnelling update – Sydney Metro West Central Tunnelling Package

June 2024

The NSW Government is delivering Sydney Metro West – a new underground metro railway which will double rail capacity between Parramatta and the Sydney CBD, link new communities to rail services and support employment growth and housing supply.

Stations have been confirmed at Westmead, Parramatta, Sydney Olympic Park, North Strathfield, Burwood North, Five Dock, The Bays, Pyrmont and Hunter Street in the Sydney CBD. Two potential station locations are being investigated west of Sydney Olympic Park, including one at Rosehill Gardens which could support a significant increase in housing.

Sydney Metro has been granted planning approval to construct twin underground rail tunnels between Westmead and Hunter Street in the Sydney CBD for Sydney Metro West.

Acciona Ferroviaria Joint Venture (AFJV) has been awarded the contract to deliver 11 kilometres of twin metro rail tunnels between The Bays and Sydney Olympic Park and excavate five new metro stations.

Tunnelling overview

The two tunnel boring machines (TBMs) Beatrice and Daphne have passed the 65 per cent mark since they started their excavation journey from The Bays Station site in 2023. The two machines recently broke through at the Burwood North site and are making their way to North Strathfield. Tunnelling will continue 24 hours a day, seven days a week with each TBM expected to excavate an average 225 metres per week.

Cross passages are short safety tunnels that connect the two metro tunnels every 240 metres along the tunnel alignment. There are 41 cross passages between The Bays and Sydney Olympic Park and about 50 per cent of these smaller connecting tunnels have been excavated.

The TBMs have excavated over 1.2 million tonnes of material to date (around 196 Olympic size swimming pools). All excavated materials are transferred via conveyor belts within the tunnels to a storage shed at The Bays Stations and then removed by trucks for reuse at various other site across greater Sydney.



Eastern Creek Precast Facility

Eastern Creek precast facility

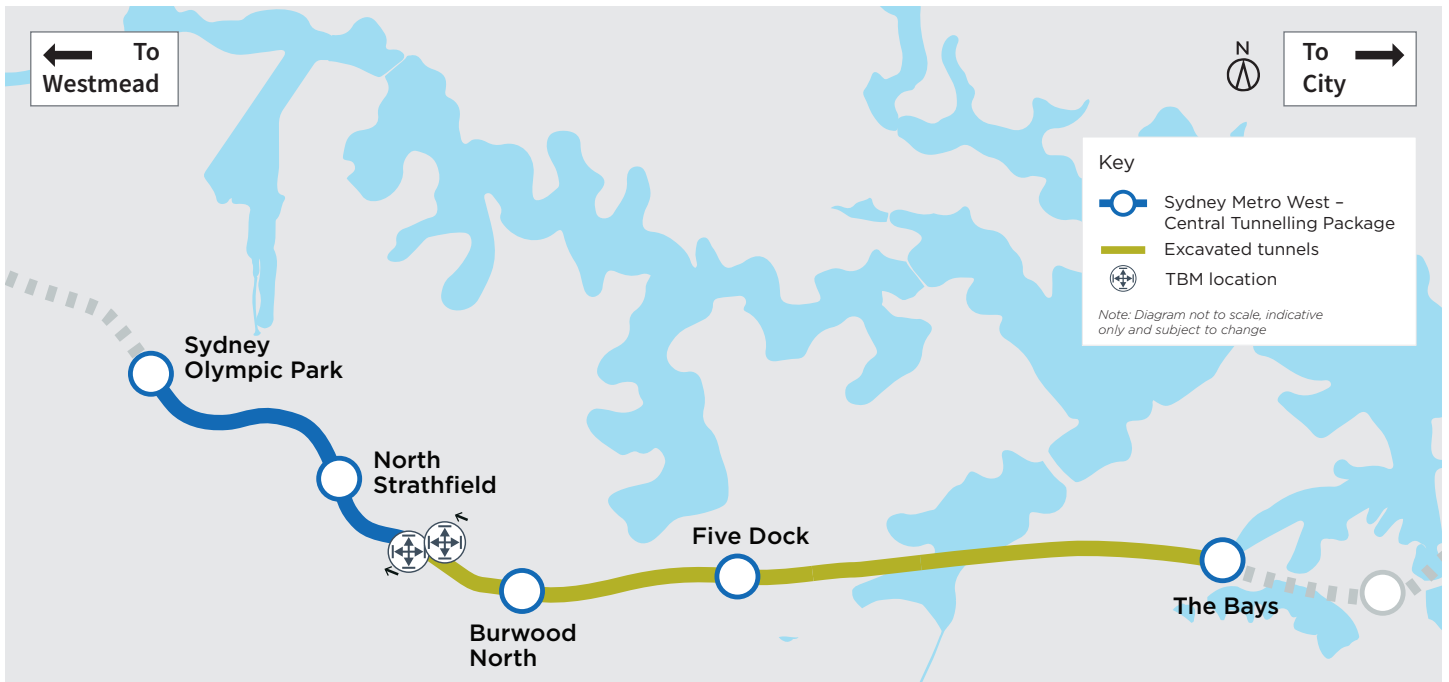
The Central Tunnelling Package (CTP) precast facility started concrete segment production in November 2022. By mid 2024 the facility will have produced 72,771 concrete segments and will finish production for the CTP. To date 47,160 segments have been used to line the twin tunnels between The Bays and Sydney Olympic Park. The remaining segments will be stored at the precast facility until they are ready to be installed.

Vibration and ground-borne noise

Residents above and close to the tunnel alignment may experience some vibration and ground-borne noise. Levels of impact will vary based on geology, construction type of the building and individual sensitivities.

Expected vibrations are far lower than what could cause cosmetic damage. Ground-borne noise results from vibrations transmitted through the ground regenerating as a low frequency rumbling noise in buildings. Like vibration, ground-borne noise becomes noticeable as the TBM approaches and then goes under or past properties. It normally takes about two days for a TBM to pass under a property.

Regular monitoring will be undertaken to ensure noise and vibration is within the expected levels. For further information, you can read our Tunnelling Detailed Noise and Vibration Impact Statement (DNVIS) available at acciona.com.au/sydney-metro-west-ctp.



Project alignment map

An interactive map is available where you can enter a property address to see the approximate distance to the tunnels. To view the interactive map visit caportal.com.au/tfnsw/sydmetrowest/map. To follow the progress of the Sydney Metro West tunnel boring machines visit sydnymetro.info/sydney-metro/journey-sydney-metro-west-tunnel-boring-machines



To view the interactive map visit here



To follow the progress of the Sydney Metro TBMs visit here

Contact us

If you have any questions or would like more information please contact our project team:

1800 612 173 Community infoline open 24 hours
metrotunnelsAFJV@transport.nsw.gov.au

Sydney Metro West
 PO Box K659, Haymarket NSW 1240



Translating and interpreting service

If you need help understanding this information, please contact the Translating and Interpreting Service on 131 450 and ask them to call us on 1800 612 173.



Access information in over 100 languages.

Download **Sydney Metro Connect** from the App store or get it on Google Play.