



Two metro trains are parked in the completed stabling yard of the Marrickville facility.

Marrickville train testing underway

After six years of work at the southern dive of the twin Sydney Metro City & Southwest tunnels, train testing has begun and construction at the Marrickville site is nearing completion.

Trains stabling yard now ready for use

Construction of the Sydney Metro Trains Facility South has now been completed and the overhead wires above the tracks have been energised.

Together with a larger depot at Rouse Hill, the Marrickville facility will be used for stabling, cleaning and performing light maintenance on a fleet of new driverless trains needed to service the new City & Southwest line.

To build the facility, over 500 workers laid 9 new tracks using almost 8 kilometres of rail and 18,000 tonnes of rock ballast to form the trackbed. They also installed 1.4 kilometres of overhead wiring and 1.6 kilometres of electrical cables.

The Marrickville site includes an administration building and carpark, a security and fire control room building, a covered store building and a maintenance workshop.

Work on the southern dive building at Marrickville, which sits above where the trains will enter and exit the tunnels, will be finished late this year - with hundreds of items of equipment already being tested and commissioned.

Sustainable onsite water harvesting

Groundwater pumped to Marrickville from locations throughout the 31 kilometres of City & Southwest tunnels will be treated and recycled onsite using a new state-of-the-art water treatment and storage facility.

Additionally, rainwater will be collected from the large buildings on site and stored in tanks ready for operational uses, such as garden irrigation and train washing.

Overall, water harvesting and recycling will render the Marrickville trains facility 100% percent self-sufficient for all non-drinking water needs.



The overhead wire supplies 1500 Volts DC to the train below.

How are the metro trains powered?

The driverless metro trains get their traction power via an overhead wire mounted above the centre of the tracks.

The 31 kilometres of tunnels and seven underground stations between Chatswood and Sydenham are fed by six substations that convert a 33,000 Volt incoming supply from Ausgrid into lower voltages, including the 1500 Volts DC used to power the electric trains.

To slow down, the trains use a hi-tech braking system that returns some power back into the rail network, reducing the amount of electricity needed for each train to operate.

The tunnels and stations are ventilated by 72 large ventilation fans which circulate fresh air.

Six-month lookahead

Activity (subject to change)	June	July	Aug	Sept	Oct	Nov
● Train testing in the stabling yard and tunnels	●	●	●	●	●	●
● Mechanical & electrical tunnels commissioning	●	●	●			
● Tunnel cross passages commissioning	●	●	●			
● Tunnel ventilation system commissioning	●	●	●			
● Southern dive services building fit-out	●	●	●			
● Landscaping	●	●	●			



A metro train being tested in the stabling yard at Marrickville.

Train testing under way

In May, a metro train travelled from Chatswood beneath Sydney Harbour and the CBD to emerge from the tunnels at Marrickville and arrive at Sydenham Station.

Train testing is happening throughout the 31 kilometres of tunnels and in the metro train stabling yard at Marrickville, where up to 16 metro trains can be accommodated at once.

The first stage of testing is at low speed, with trains in the tunnels driven at a maximum speed of 25kms per hour.



The completed administration building at the Marrickville facility.

Have your say

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

1800 171 386 Community infoline open 24 hours

sydneymetro@transport.nsw.gov.au

Sydney Metro City & Southwest

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 171 386.