



May 2022

Prospect South to Macarthur Update

Sydney Water has a long-term plan to increase resilience in our network and to extend the city's water capacity and supply.

As part of the Prospect to Macarthur (ProMac) project we are upgrading the existing reservoirs at Liverpool and Cecil Park as well as building two new reservoirs at Oran Park to allow for a total of 100 ML of additional reservoir capacity. That's the equivalent of about 50 Olympic-sized swimming pools!

We are also building a new water pumping station at Harrington Park to provide drinking water services for 84,000 new homes in the South West Growth Area and Western Sydney Aerotropolis Growth Area – even during the hottest and driest days.

Oran Park Reservoirs update

Our contractor Ferrycarrig has completed 90 per cent of the pipeline installation, laying more than 700 metres of pipe underground to connect the new reservoirs into the existing water main.

Made of steel and lined with concrete and bitumen, our new pipes range from 1067 to 914 millimetres in diameter and vary in length from 6.5 to 13 metres.

The pipes are expected to operate under pressure of 1400 kilopascals as they transport water around the network. Once the Harrington Park Pump Station is complete, our steel pipes will connect to the Oran Park Reservoirs and form part of the network that runs through the pumping station.

Work is also continuing at the Oran Park Reservoir to install the valves which will support pressure going into the pipes, once operational.

The valves are put together using a bolt torquing method, with the bolts tightened in the sequence of

50 per cent, 75 per cent, 90 per cent and 100 per cent strength. They will then be torqued again at 100 per cent strength, after 24 hours, to ensure the pipes are water-tight!

Once secured, the valves are tested by filling them up with water and adding pressure to the system. The valve is then left with the added pressure over a required period to ensure there are no loose bolts or leaks.

Oran Park Reservoir will have approximately 13 valves installed across the pipeline alignment.



One of the valves undergoing pressure testing.

Once the pipeline is installed, Ferrycarrig will:

- clean and pressure test the pipeline ready for commissioning
- continue civil works on the southern access road, including stormwater drainage, constructing kerb and laying asphalt.

Harrington Park pumping station update

Since our last newsletter update, we have worked to achieve several project milestones while continuously maintaining the site during wet weather conditions.

As part of the construction activities, we have:

- completed bulk earthworks for the pumping station foundation ready for the piling installation
- removed excess spoil from site to minimise the impact of dust within our local community
- successfully installed 29 piles into the foundation of the pumping station
- commenced installation of steel reinforcement and form work
- safely delivered six 900mm pipes ready to be installed once the pumping station foundation work is complete
- installed steel reinforcement and form work
- poured concrete for the foundation of the pumping station
- Completed watermain connection works during a 72-hour shutdown.

Work will continue in the upcoming months to install steel reinforcement and prepare form work for upcoming concrete pours.



Steel form work set into the concrete foundation.

Project milestone highlight

Our principal contractor Downer has achieved the first concrete pour of the Harrington Park pumping station foundation; a much awaited milestone for the project, which will set the pace for the completion of the foundation and the installation of pre-cast concrete walls.

Leading up to the milestone, a great deal of preparation work was undertaken to ensure the foundation was ready. This included installation of steel reinforced piles and formwork, which would form part of the foundation.

Considering the rain events over the first three months of the new year, the team weathered the storm and successfully commenced the concrete pour on Wednesday 20 April 2022. The trucks arrived on site and were ready to get to work at approximately 2:30pm.



Concrete pour at Harrington Park pumping station.

With not a cloud in sight, Downer pulled together to complete the first layer of concrete as the sun set.



Managing impacts on the community and environment

Our Principal Contractor, Downer has implemented the following measures to reduce impacts of construction on the local community:

- minimising vehicle and heavy machinery movements where possible
- planning deliveries during operational hours from 7 am to 6 pm Monday to Friday and 8 am to 1 pm Saturday
- notifying the community when out of hours work is required
- switching off machinery when not in use
- installing sprinkler systems to minimise dust where possible
- a 'wash down' system for vehicles and machinery leaving site to minimise any dirt or mud tracking on to The Northern Road.

The crews are reminded to take extra care when entering and exiting site and to be mindful of pedestrians and cyclists that use the footpath.

Protecting our workers and the community

Principal Contractor Downer continues to implement all necessary measures to ensure construction activities are carried out safely. We are constantly working to reduce any risks to our people, the community and the environment.

Crews attend prestart and toolbox meetings every morning as a daily reminder of the potential risks and how to best eliminate or reduce these risks.

The safety team also carries out regular inspections to identify improvement opportunities and controls that can be implemented.

Other work in the area

High Voltage power works

This month our contractor Gremalco is continuing work to install 5 kilometres of underground electrical cable along The Northern Road to connect the new pumping station in Harrington Park to the Oran Park Zone Substation.

Gremalco have completed all trenching work and installed 80 per cent of the new electrical cables. As part of this work, we will dig pits to haul cable underground.

This portion of work is expected to be completed by June 2022.

Once finalised, we will work with Camden Council to complete permanent restoration of the footpaths.

Thank you

We would like to take this opportunity to thank you for your patience and understanding during this important work.

If you have any feedback on our work, we'd love to hear from you.

To know more about ProMac:

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Se vi serve un interprete, telefonate al numero indicato sopra.

통역사가 필요하시면 위의 번호로 전화하십시오.

Nếu quý vị cần thông dịch viên, hãy gọi đến số trên đây.