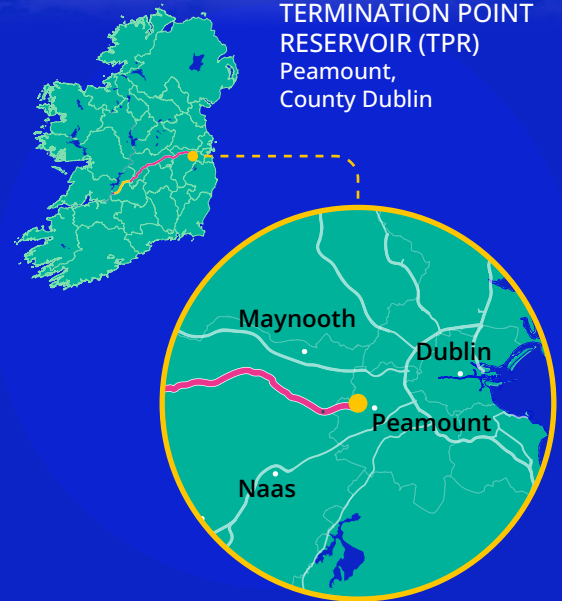


Water Supply Project Eastern and Midlands Region

Infrastructure Sites – Termination Point Reservoir Peamount, County Dublin

Overview

The purpose of the Termination Point Reservoir (TPR) is to store water supplied through the pipeline ready for use. It will act as a balancing tank between the steady output of the Water Treatment Plant and the normal variation in daily demand for water in the Greater Dublin Area. The TPR will be located adjacent to the existing service reservoir and the hospital at Peamount in County Dublin.



What does the Termination Point Reservoir do?

The TPR will have three functions during operation:

- 1** The TPR will store treated water temporarily until it is needed to meet demand.
- 2** It will be used to manage daily variations in demand. For example, peaks in the morning before people go off to work/school and when they return home in the evening.
- 3** The quality of the water will be monitored at the TPR and a water quality monitoring and dosing system will adjust disinfection levels to ensure the water is safe to drink.

The site will not be permanently staffed and operatives will only need to attend site intermittently for routine maintenance and inspection.

Termination Point Reservoir Architectural Visualisation





What does the Termination Point Reservoir site include?

The TPR will include a Reservoir Tank, an associated underground Scour Water and Emergency Overflow Storage Tank, and a Chlorine Control Building. Perimeter fencing, site drainage, buried pipes and a new access road will also be required.

The Reservoir Tank will store the drinking water in a rectangular, reinforced concrete tank. This will be approximately 90m in length, 40m wide and 11m high. This will be permanently covered over and surrounded by an earth embankment. Internally it will be split into three compartments with each compartment holding 25 Megalitres (ML) providing a total capacity of 75ML.

The TPR will have the capacity to store an additional 5ML in the Emergency Overflow Storage Tank.

The Chlorine Control Building will be used to dose the treated water prior to entering the local distribution network and will be approximately 40m long, 40m wide and 8m high.

The permanent land take for the proposed site is approximately 8.1 hectares, including the access road.



How will the Termination Point Reservoir be built?

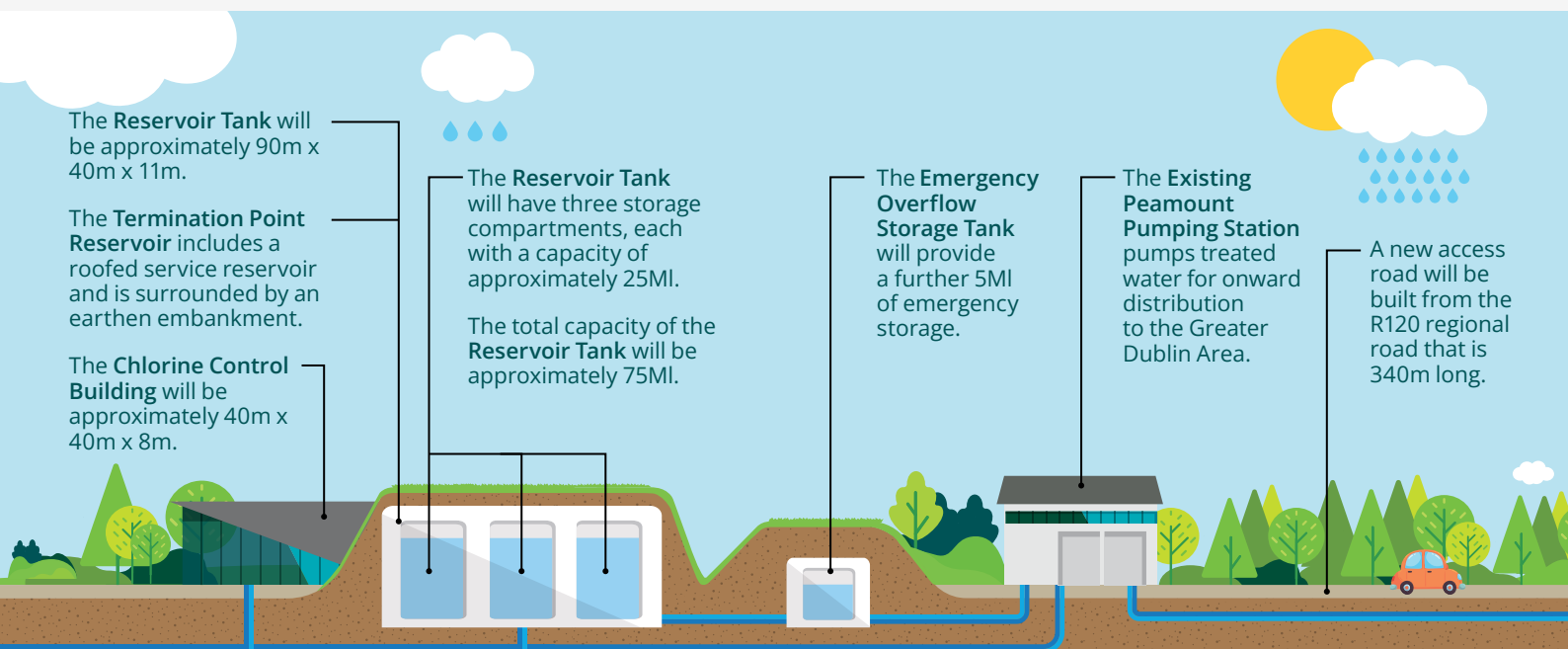
Construction will last approximately 4 years and 10 months between site establishment and demobilisation. The site will also serve as a construction compound during this time.

The proposed construction sequence will include:

- Site preparation works.
- Topsoil stripping.
- Excavation for the Emergency Overflow Storage Tank and earthworks of the reservoir structure.
- Construction of Emergency Overflow Storage Tank and installation of pipework.

- Construction of the reservoir structure and installation of pipework.
- Construction of the Chlorine Control Building.
- Connection to the power supply and connections to existing pipework.
- Site works, landscaping, and boundary treatment.

The extent of the total area of land required temporarily during construction will be approximately 11.1 hectares.



The Reservoir Tank will be approximately 90m x 40m x 11m.

The Termination Point Reservoir includes a roofed service reservoir and is surrounded by an earthen embankment.

The Chlorine Control Building will be approximately 40m x 40m x 8m.

The Reservoir Tank will have three storage compartments, each with a capacity of approximately 25ML. The total capacity of the Reservoir Tank will be approximately 75ML.

The Emergency Overflow Storage Tank will provide a further 5ML of emergency storage.

The Existing Peamount Pumping Station pumps treated water for onward distribution to the Greater Dublin Area.

A new access road will be built from the R120 regional road that is 340m long.

The permanent land take for the TPR site will be approximately 8.1 hectares (including the access road)