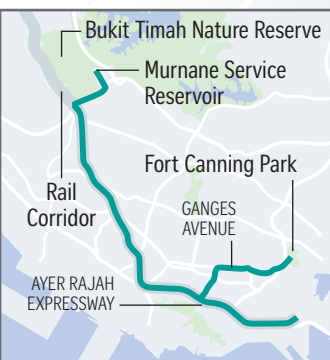


PIPELINE PROJECT IN PUNGGOL

Installation of the first 4km from Punggol Way to Sungei Serangoon started in October 2015 and will be completed by the end of this year.

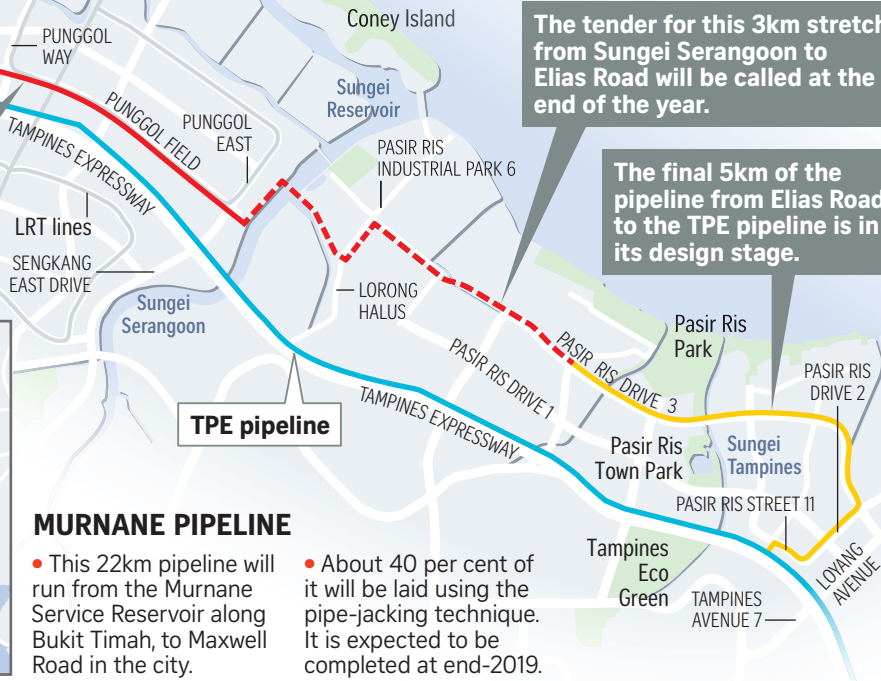


MURNANE PIPELINE

- This 22km pipeline will run from the Murnane Service Reservoir along Bukit Timah, to Maxwell Road in the city.
- About 40 per cent of it will be laid using the pipe-jacking technique. It is expected to be completed at end-2019.

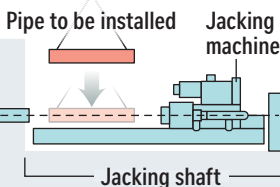
The tender for this 3km stretch from Sungei Serangoon to Elias Road will be called at the end of the year.

The final 5km of the pipeline from Elias Road to the TPE pipeline is in its design stage.



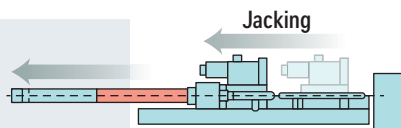
HOW PIPE-JACKING WORKS

Receiving shaft



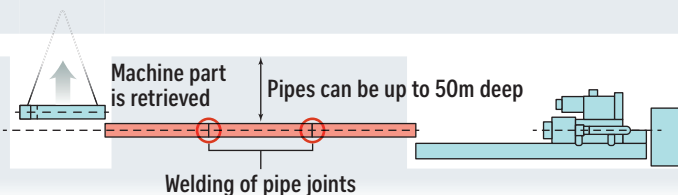
1

- A jacking shaft is dug into the ground and a jacking machine is lowered into it.
- A second shaft, known as the receiving shaft, is dug on another side.



2

- Pipes are lowered down the shaft onto the jacking machine and pushed horizontally through the ground using hydraulic jacks.



3

- When the pipe is fully laid, the front part of the jacking machine will be removed from the receiving shaft. The pipe joints will then be welded and inspected.