

CENTRAL INTERCEPTOR BULLETIN

PS23 site, 39 Frederick Street and Hoskins Avenue, Hillsborough

We're building the Central Interceptor, a super-sized wastewater tunnel to reduce overflows, creating a better environment for you to enjoy.

Milestone Achievement

In August 2021, Hiwa-i-te-Rangi, our Tunnel Boring Machine (TBM) was launched from our Māngere Pump Station construction site and sent on her way toward Pump Station 23 (PS23) on Frederick Street.

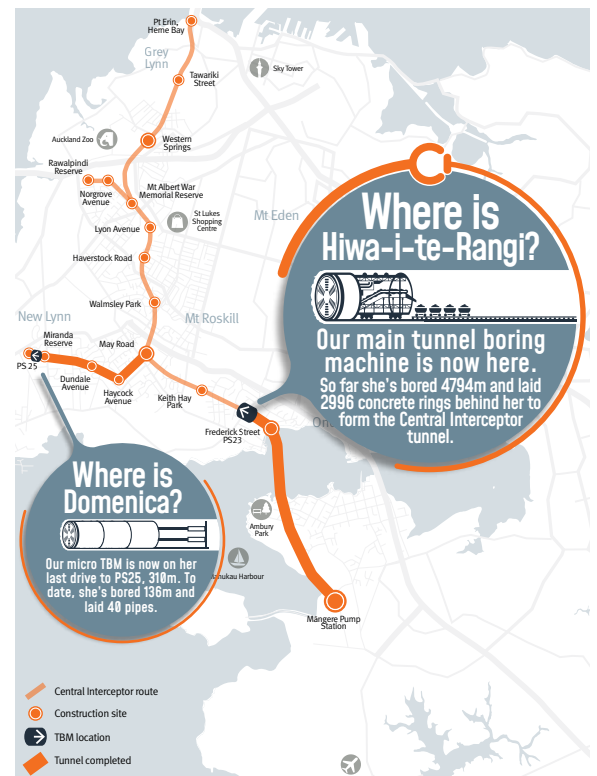
After tunneling more than 4100 metres, she arrived at PS23 in Hillsborough at the beginning of December 2022. This was not only the longest drive on the project but also the riskiest as undersea tunnelling is a rarity in New Zealand. Hiwa-i-te-Rangi bored 1500 metres across the Manukau Harbour approximately 30m below the seabed in just 11 weeks. This first breakthrough on the main Central Interceptor tunnel route is another huge milestone to add to our achievements. The next stop for our TBM is our Keith Hay Park construction site in Mount Roskill, approximately 1800 metres away.



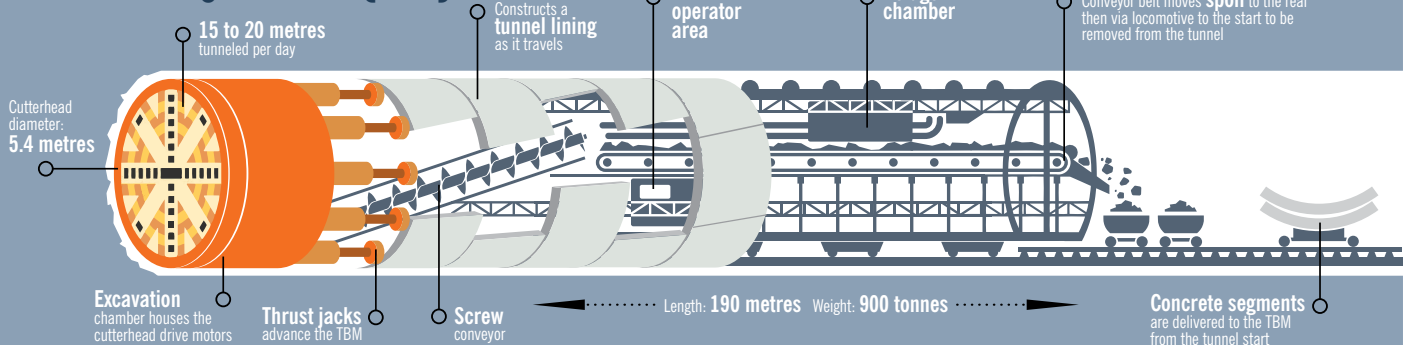
Tunnel progress

Check out our website which now has a weekly update of the TBM's progress. <https://www.watercare.co.nz/Central-interceptor/Constructing-the-Central-Interceptor>.

You can also follow us on Facebook, or Instagram.



Tunnel Boring Machine (TBM)



Site update

2022 was a busy year for the team at Pump Station 23. We finished excavating the 28 metre deep shaft and welcomed the arrival of Hiwa-i-te-Rangi (TBM) in December. Before the TBM broke through at PS23, we installed oversized glass reinforced plastic (GRP) liners into the shaft. We had the liners delivered under pilot vehicle during the night to reduce the impact on other road users. We secured the liners on-site in the dark and then installed them into the shaft once the sun had come up.

Our staff coordinated with local and international companies and key stakeholders to make sure this went as smoothly as possible over the two-night delivery. This is the second of nine sites on the project that will use liners and the knowledge gained from this delivery will be used to ensure that the rest of the deliveries go smoothly. A lot of planning over the past few months has gone into achieving this successful outcome – kudos to everyone involved.



Hoskins update

Works at our Hoskins Avenue site in Taylors Bay has been progressing slowly due to unexpected ground conditions, pipes not being positioned as expected and groundwater infiltrating the excavation zone. Despite these challenges, the existing contractor has finished connecting our new pipes to the existing infrastructure and relocated a manhole. A new contractor will now be engaged to undertake the remaining works.

Emergency rescue

We are installing an emergency exit at PS23, so our TBM operating team will no longer have to walk back to our Māngere site and the current tunnel entrance.

We are currently working to provide a temporary connection between the tunnel and the shaft. If an emergency was to occur, the workers inside the tunnel can travel back to PS23 and exit via a ladder structure within the shaft.



Any questions?

For up to date information please see our website:

 www.centralinterceptor.co.nz

You can also email us at:

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Or phone:

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We encourage you to receive these updates electronically - send us your email, your current mailing address and quote "Sign me up: PS23 site bulletin" to ciproject@water.co.nz