

HERNE BAY COLLECTOR BULLETIN

Project update

The Herne Bay Collector project is about to start. This pipeline will pick up wastewater and stormwater from the lower Herne Bay area. It will flow into the Central Interceptor tunnel now lying beneath Point Erin Park and down to Watercare's Māngere Wastewater Treatment Plant for safe treatment. The new infrastructure will significantly reduce overflows into the Waitematā Harbour, improving the water quality on our beaches by the end of 2028.

We will install a 2.1m-diameter tunnel for approximately 1.5km using a micro-Tunnel Boring Machine (mTBM). Construction will take place on different road sections, with the pipeline passing beneath the road at depths ranging from 9m to 22m.

We will also:

- Build a control chamber and plant room in the south-west corner of Point Erin Park (these works will commence later this year)
- Install eight tunnel shafts, along with intercepting shaft connections to existing engineered overflow points (EOPs)
- Install small diameter pipelines along Marine Parade (600mm in diameter) and local connections to the existing engineering overflow points (between 200mm to 450mm in diameter). These will be constructed via open trenching.
- Establish two temporary Construction Support Areas (CSAs) one at Salisbury Reserve and the other in the area beside the Curran Street motorway on-ramp.



Watercare has selected Italian company, Ghella, as its contractor for the first component of the project, the service investigations. The company is currently part of a joint venture for the Central Interceptor project. Ghella brings 150 years of international tunnelling experience to the works. We plan to take around 36-42 months to complete the entire project.

Investigation works

In May, Ghella will begin investigation works, which will take several months. The largest area of work is taking place in the southwestern corner in Point Erin Park.

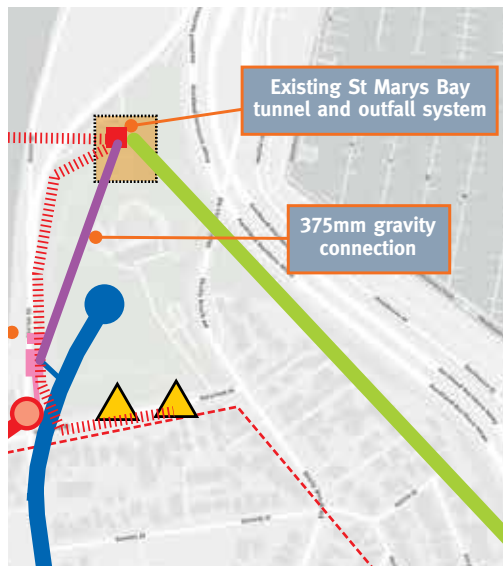
Investigation works include exposing underground services to confirm their location and geotechnical investigations to help us finalise our designs. These will also enable us to determine where we have clashes between utility services and construction activities. Some utility services will need to be relocated following the investigations.

When the investigation works have been completed the work areas will be reinstated. In some cases, reinstatement will be temporary as we will be returning to the area for the main construction works starting later this year.

As we will be using hydro excavation and other large equipment to dig the temporary trenches, we will need to create exclusion zones around our sites for safety. These areas will be fenced off and any appropriate traffic management put in place to ensure the safety of both the public and our workforce.

Traffic management may include stop/go controls or single lanes, areas of no parking as temporary road closures as needed. We will aim to reduce the impact to road users as much as possible and alternative routes around investigation areas will be available. Please obey all traffic signs and directions for everyone's safety.

If our investigation works directly impact your property, we will be in touch with you to discuss the impact and any possible mitigation in advance of work starting. We may knock on your door or leave a note in your letterbox with contact details. While working in your area we aim to be a good neighbour.



Celebrating her final breakthrough March 2025

Hiwa-i-te-Rangi completes her epic journey

On 28 March, Auckland Mayor Wayne Brown gave the order for our TBM to start up for the last time to finish the final few centimetres of her 16.2km journey since being launched from Māngere Wastewater Treatment Plant in July 2021.

At a special celebration event, 250 guests gathered around the 30-metre-deep shaft to watch the action as it was livestreamed onto a large screen. Slowly, the 5.2m diameter cutterhead emerged through billowing dust, chewing its way through the final centimetres of the concrete shaft wall—and into daylight.

Shayne Cunis, Watercare Chief Programme Delivery Officer says the breakthrough is a huge milestone and is testament to the skills of the tunnelling team provided by construction partners, Ghella Abergeldie Joint Venture: "The tunnellers have worked 24 hours per day, six days a week to build the tunnel. This is world class engineering, and it's been completed safely, economically and on time, which is rare for any major infrastructure project.

"The TBM has been through ten shafts, but breakthroughs never get old, and we'll always remember this final one. I am incredibly proud of the 600 staff who've worked on this project. This is a very special day."

Tunnellers have worked 24 hours per day, six days a week to build the tunnel. Hiwa-i-te-Rangi laid eight to 10 rings and travelled around 22 metres per day. The concrete rings are coated with a plastic liner to protect against the corrosive effects of wastewater, to ensure the tunnel lasts 100 years.

She is now being removed from the shaft in sections, by the time this is issued she will be fully removed from the tunnel. Thermal welding on tunnel segment joins will ensure the tunnel is air-tight and services such as locomotive tracks will be removed. Elsewhere, the tunnel will continue to be connected to the existing wastewater network.

Any questions?

For up to date information please see our website:

 www.watercare.co.nz/home/projects-and-updates

You can also email us at:

 hbc@ghella.com

Or phone:

 **0800 GHELLA (0800 443 552)**



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