

# CENTRAL INTERCEPTOR BULLETIN

Keith Hay Park site, Arundel Street, 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

Hiwa-i-te-Rangi, our Tunnel Boring Machine (TBM) has now officially passed through the 78-metre-deep shaft at our Keith Hay Park construction site. This shaft is nearly six kilometres from the start of the tunnel at the Māngere Pump Station site. This marks the completion of the deepest section of tunnelling of the main Central Interceptor tunnel.

At its deepest point, the TBM was boring 110 metres underground. Next stop is our May Road site in Mount Roskill, which is 1.6km away. She will reach May Road in August this year. Hiwa-i-te-Rangi travels approximately 15-20 metres per day, depending on the type of earth she is traversing through.

## Site update

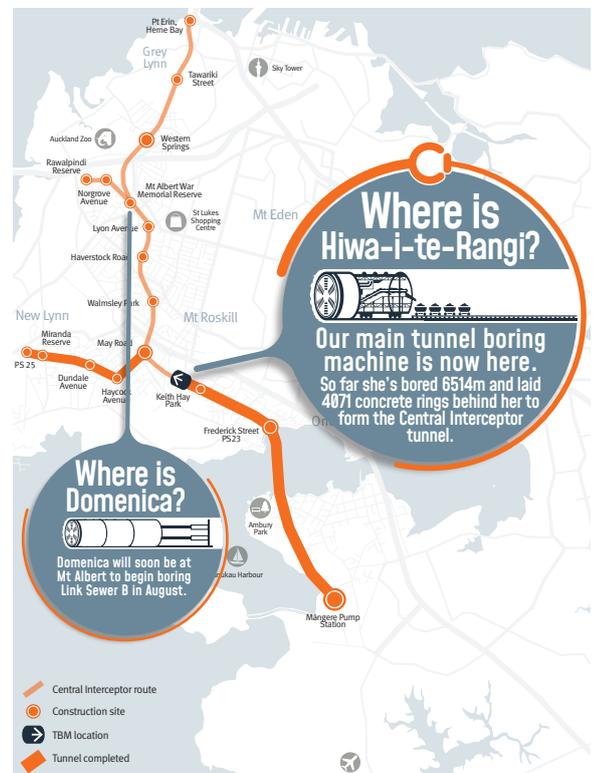
Our Keith Hay Park main construction site is a hive of activity as our team works on different construction activities, including constructing the remaining chambers that will divert wastewater from existing networks into the Central Interceptor tunnel. Chambers are used to collect wastewater from various sources before it is sent to the main shaft.

At our Frost Road satellite site, on the other side of the motorway, the team is completing the interim pit from which we will launch a horizontal directional drilling pipe under state highway 20. From there, we will use a 900mm micro-Tunnel Boring Machine to connect the three recently constructed chambers along the park's western edge.

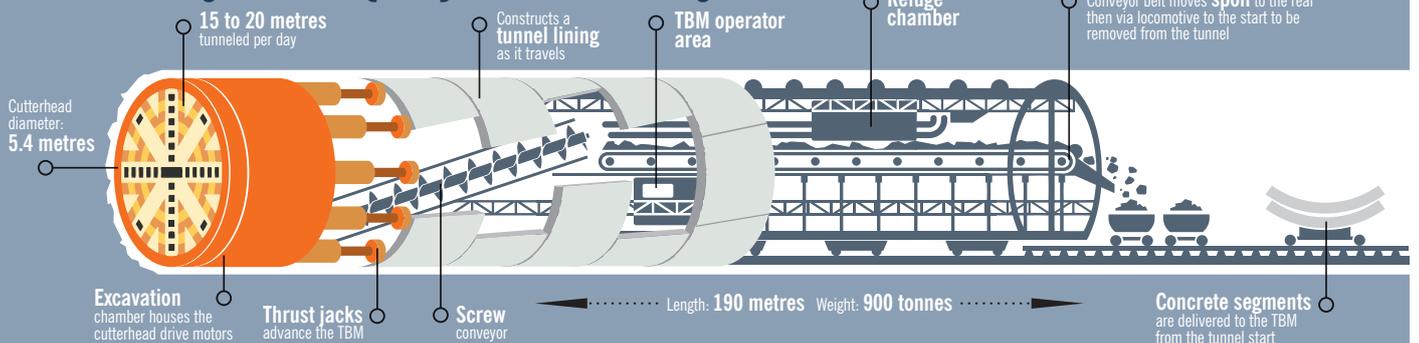
## Tunnel progress

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): Hiwa-i-te-Rangi



The sheet piling works at our Branch 9B sites, within Keith Hay Park near the spiral bridge, are almost complete. Sheet piling is when layers of steel with interlocking edges slot together to create structural support for excavation. We can then excavate the area without the soil falling in. Powerful vibratory hammers push the steel into the ground.

You will notice we are building numerous chambers and manholes around our main shaft at Keith Hay Park. During construction, they are needed for us to install the different pipes and direction changes of the final sewer lines. Once construction is complete, they will be used for inspection and maintenance of the sewer system.



## Auckland weather events

Like many of our neighbours around Keith Hay Park, we were impacted by the Auckland Anniversary weekend floods and subsequent cyclone. After carefully inspecting the site for damage and rectifying any issues, the team was able to continue working. We extend our condolences to those affected by the flooding and the cyclone.

## Any questions?

For up to date information please see our website:

 [www.centralinterceptor.co.nz](http://www.centralinterceptor.co.nz)

You can also email us at:

 [ciproject@ga-jv.com](mailto:ciproject@ga-jv.com)

Or phone:

 **0800 GAJV 02 (0800425802)**

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## Who it takes to build the Central Interceptor

The Central Interceptor project stretches across 16 sites from Māngere to Grey Lynn. Each of these sites has a team of people working on various activities and construction stages. There are numerous jobs on this project, each requiring different skills, backgrounds, experience and qualifications. This regular feature will give some insight into one of the many important roles on the project.

### Quality Engineer

#### What is a quality engineer?

A quality engineer monitors and tests the quality of the products, materials and processes on the project. They ensure that all the documentation and works carried out are compliant with the project's contract, drawings, specifications, standards and procedures. They essentially ensure that everything on site is carried out according to plan.

#### What qualifications do you need for this role?

A degree in engineering and construction experience.

#### What are some of the daily activities of a quality engineer?

Our quality engineers have many responsibilities on the Central Interceptor project. They review documentation, provide support to the construction team, analyse specifications, study construction drawings, carry out audits and address any non-conformances with the site teams and conduct inspections on materials used on site. Just to name a few!

#### What are the challenges of this role?

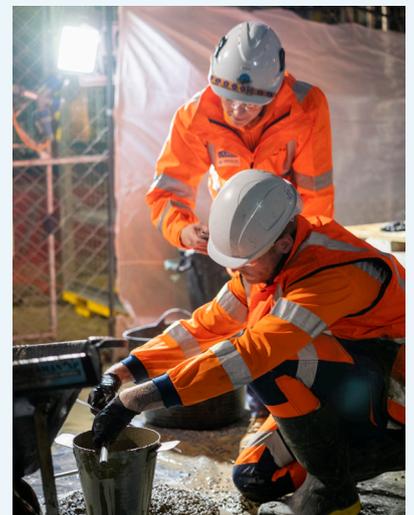
Most of our sites on the CI project share similar construction requirements, such as shafts, chambers, manholes and sewer and stormwater connections. This means that lessons learned from one site can be applied to the others. There are occasions on the project when

the quality of a component may not be up to the required standard and it is the quality engineer who will lead the investigation and ensure the issue is resolved before the work can continue.

Whilst they can be challenging to overcome, these incidents are opportunities to learn and grow from mistakes. They help raise awareness among teams at other sites about potential quality issues and provide insights on how to prevent them in the future.

#### Is there anything about this role that would surprise people?

You might be surprised to know the history of quality assurance starts in World War II, when ammunition had to be tested for performance. Nowadays, the end purpose of QA is to correct potential errors before they affect a project or product before being released.



We encourage you to receive these updates electronically - send us your email, your current mailing address and quote "Sign me up: Keith Hay Park site bulletin" to [ciproject@water.co.nz](mailto:ciproject@water.co.nz)