

CENTRAL INTERCEPTOR BULLETIN

Tawariki Street site, 42 - 48 Tawariki St, Grey Lynn

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

Site update

We have started the permanent work on manhole 01. This large manhole at the rear of the site will take the wastewater from the Orakei main and divert it into the central interceptor, thus increasing the downstream capacity of the Ōrakei Main Sewer (OMS) when it rains. The team is pouring the last section of the wall and will then move on to the benching.

We are also completing the permanent structures on the Tawariki Lower Sewer (TLS) diversion chamber MH02, including the benching. Benching is like a big channel inside the chamber, which guides the flow through the manhole to the pipe and into the shaft. With all the liners now on site, the team will continue to install them and concrete them into place.

We have also started constructing the plant room. This structure is the control point for the chamber gates and houses associated electrical and mechanical equipment for regulating flows across the new infrastructure. It is the permanent structure you will see in place at the end of the project.



What's next

We will continue installing the Glass Fibre Reinforced Plastic (GRP) liners and the permanent structures inside the manholes and complete the plant room. Once the team was ready, the liners were lifted and lowered into place.

Milestone achievement

We have reached a milestone on the project, installing the permanent Glass Fibre

Reinforced Plastic (GRP) liners into our shaft cascade liners. These GRPs are preassembled as much as possible at the manufacturing plant and then shipped to the site overnight as oversized loads. Once the team was ready, the liners were lifted and lowered into place.

Each liner is made up of two halves, a wet and a dry side. Wastewater goes into the wet half of the shaft, destined for the Central Interceptor, while the dry side is used for access for maintenance and repairs. On the wet side, there is a series of shelves, called cascades, that are built into the shaft walls. These shelves help control the flow and energy of the wastewater as it drops into the tunnel below.

Getting the liners to site required a lot of coordination with transport companies, shipping companies, traffic companies, and our residents to get the liners to site.



Safety is our #1 concern with any heavy lift

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or scan the QR code





It is understandable why the GRP liners have to be moved at night

Liner fun facts

- How tall is each liner = the tallest is **3.3m**, the shortest is **2.4m**
- Weight = heaviest is **32T**, lightest is **17T**
- Diameter = internal **7500mm**
- Made from = **Glass Fibre Reinforced Plastic**
- Where were they made = **RPC technologies, Indonesia**. Made their way to New Zealand in two shipments, and the liners were on site the day after they arrived at port of Auckland
- How many in total = **8 modules + 1 dome cap**



Tawariki St site in August 2025

Any questions?

For up to date information please see our website:

 www.centralinterceptor.co.nz

You can also email us at:

 ciproject@ga-jv.com

Or phone:

 **0800 GAJV 02 (0800425802)**

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Who it takes to build the Central Interceptor

CI stretches across 17 sites from Māngere to Herne Bay. Each of these sites has a team of people working on various activities and construction stages. There is a wide range of jobs on this project, each requiring different skills, backgrounds, experience, and qualifications. This regular feature will give some insight into one of our many important roles.

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.

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: Tawariki site bulletin" to ciproject@water.co.nz