

# CENTRAL INTERCEPTOR BULLETIN

Māngere Pump Station site, Greenwood Rd, Māngere

## Plant arrives for diaphragm wall construction

We have just established our site offices, ready for four years of construction activities at Māngere.

The cranes, rigs and other equipment for constructing the diaphragm wall (D wall) and pump station shafts have also recently arrived on site.

The most impressive is a large new yellow and black crane known as a “hydrofraise” (pictured). It has large rotating cutter heads which dig deep underground – up to 46m. It evacuates the soil quickly in one go, using the cutter head to break up the ground while evacuating the spoil. Each excavated section is then filled with reinforced steel and concrete to create the pump station and shaft wall.

The hydrofraise creates each panel in a ring to complete the main wall of the pump station. Early next year, work will begin to dig down inside the concrete wall to create the shaft. From here, the tunnel boring machine will be lowered and launched in 2021 to start tunnelling north towards May Road in Mt Roskill.

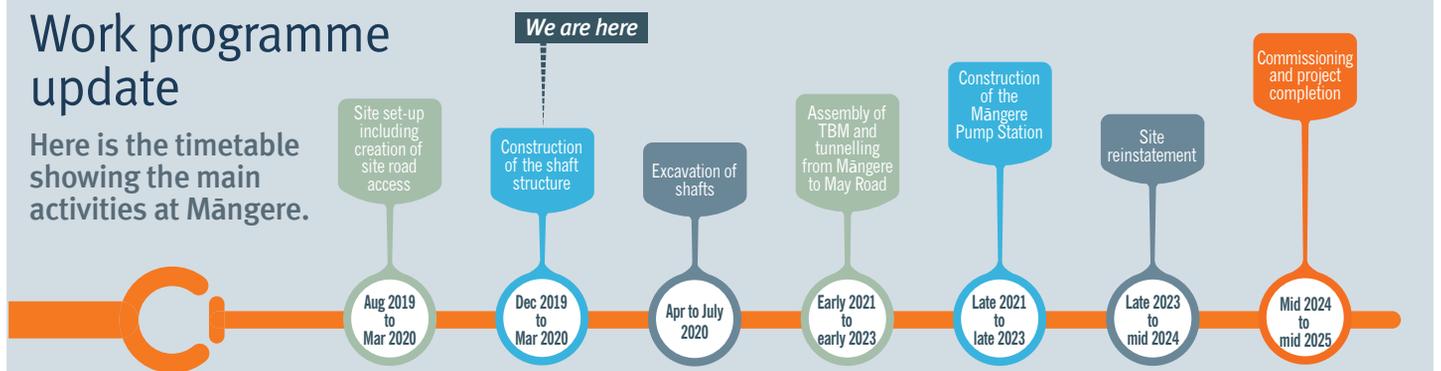
Our engineers are particularly excited by this innovative technology. Bojan Jovanovic, Watercare’s site engineer, says: “It is a very carefully planned operation. It uses the latest technology which is a first of this scale in New Zealand. It means the wall is created quicker and more efficiently, and still has the quality to last into the future.”



The hydrofraise cutterhead being readied for operation

## Work programme update

Here is the timetable showing the main activities at Māngere.



# Locals tell us what they want for their environment

Over the next two months, we will install fencing and signage around the site perimeter. The signage features local residents telling us what's important to them: we've responded with how the Central Interceptor will help.



A sneak peek at the some of the panels

## Central Interceptor teams commemorate St Barbara's Day

On 4 December, Watercare staff were invited to Māngere construction site to join our contractor, Ghella Abergeldie Joint Venture (GAJV), to remember the patron saint of tunnellers and miners. The team dedicated three statuettes of St Barbara which will now be on view at three project sites, including May Rd.

Pictured with his statuette is Jason Giacomazzi, GAJV construction manager for Māngere.



## Keeping you safe around the site



We will shortly be removing the temporary traffic management signs on Greenwood Road. The 50km speed limit for Greenwood Road will remain in place until it is safe to return the road to the normal limit. Trucks will use both the Greenwood Road entrance and the existing wastewater treatment plant access road to come and go from the site.

## Extending the hours of operation



For the next four months the contractor will be operating for 24 hours, Monday to Friday and between 8am and 6pm on Saturday. The extended hours will enable the contractor to stabilise the excavation by undertaking continuous concrete pours. CCTV investigations of the existing Western Interceptor wastewater lines will also take place during periods of low flow. Any noise will be managed in accordance with Council requirements.

## Quieter for the Festive Season

From 23 December, there will be limited activity on site with full works commencing again in early January 2020.

We wish you all a joyful Christmas and happy New Year.

