

Te Moana Water Supply Scheme Upgrade

Progress Report – Issue 3 – 16 August 2022

BACKGROUND

Timaru District Council provides the Te Moana Water Supply Scheme which supplies drinking water to approximately 700 properties. It is a rural, trickle-feed scheme installed in the 1970s. The water supply is not fully compliant with the Drinking Water Standards for New Zealand (DWSNZ) 2008 (Revised 2018) as it is unable to manage turbidity (i.e. silt/cloudiness) or inactivate protozoa. The current intake is outdated and remote from an electricity source, and the supply has reached its capacity. Pipeline upgrades and new booster pump stations are also proposed as part of this project. Together, these upgrades will allow for:

- increased water allocation and potential expansion.
- more reliable water quality and quantity in times of high river flows with stored treated water and standby electricity generation.
- maintained pressure to the higher elevation consumer tanks.

Note: The design and build contract for Te Moana Water Treatment Plant secured Three Waters Stimulus Funding (with co-funding from Te Moana Water Supply) of \$800,000.

OVERVIEW

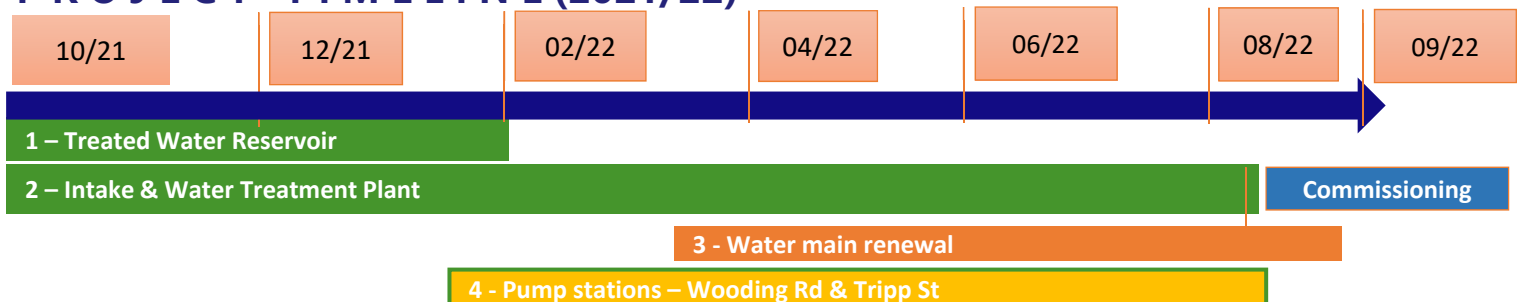
The upgrade of Te Moana Water Supply Scheme was approved in the 2021-2031 Long Term Plan and is now in the **construction phase**. The project comprises three contract work packages and a booster pump station project as listed below:

- Contract 2497 - Pleasant Valley Water Treatment Plant
- Contract 2513 – Pleasant Valley Treated Water Reservoir
- Contract 2473 – Pleasant Valley Te Moana watermain renewal.
- New booster pump stations in Wooding Rd and Tripp St..

RECENT PROGRESS

- Practical completion has been issued for the treated water reservoir.
- Construction of the new Te Moana water treatment plant building is complete and the underground service lines have also been completed. Siteworks are progressing ahead of sealing of the access road and remedial work to the adjoining Hall carpark. Piperack and plant installation is proceeding within the building; mechanical services, pumps and tanks will soon be underway.
- Pleasant Valley watermain renewal is in construction phase; the first section of pipeline has been laid at the bottom of Te Moana Road and is being pressure tested. This project is expected to be complete at end of August.
- Construction of the Wooding Street and Tripp Street booster pump station buildings is completed. Some electrical work is outstanding for Wooding Road. Civil and mechanical works still to commence for Tripp St.

PROJECT TIMELINE (2021/22)



\$3.86M
2021/22 Budget

\$3.39M spent as of 20 July 2022

100% Design
75% Construction
Completed











Te Moana Water Supply Scheme Upgrade







Progress Report – Issue 3 – 16 August 2022

PROJECT TEAM

Project Sponsor: Grant Hall **Project Leads:** Selwyn Chang (reticulation), John Clemens (booster pump stations), Judy Blakemore (water treatment plant) **Project Manager - Water Treatment Plant:** Ian Martin (OCTA)

PROJECT STATUS

| | Water main | Pump Stations | | Water Treatment Plant | | |
|-------------------------------|---|---|---|---|---|---|
| | | Wooding Rd | Tripp St | Intake | Treated Reservoir | Treatment Plant |
| Prelim. Investigations | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Consenting | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Design | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Procurement | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Construction |  |  |  | ✓ | ✓ |  |
| Commissioning |  |  |  |  |  |  |

-  Not started
-  In progress - on schedule
-  In progress - behind
-  Warning
-  Awaiting Sign-Off
-  Completed

PROJECT FINANCIALS

Total LTP 2021-2031 Budget - \$6.55M*

*(inclusive of \$2.692M of reticulation renewals and upgrades from 2022/23 onwards.)

PROJECT RISKS

ECOLOGICAL – There is a potential risk of lizards associated with a small section of the upper part of the pipeline – an ecologist has been engaged and these risks have mostly been mitigated.

MATERIAL – There have been some delays with procuring materials due to international supply of fittings but nearly all materials are now on-site or in a workshop in New Zealand so this risk is mitigated.

COVID-19 – We have experienced some delays due to COVID-19 illness over the last quarter. Remote commissioning is being trialled on another treatment plant project as a backup solution.

RESOURCING – Some constraints on contractor availability as they are stretched across multiple high-priority projects. This is being managed but may cause slight progress delays.

WEATHER – We have experienced some delays due to inclement weather recently as is common during this time of year.

Te Moana Water Supply Scheme Upgrade

Progress Report – Issue 3 – 16 August 2022



Exterior of Te Moana Water Treatment Plant



Interior photos of Te Moana Water treatment plant: piperack and plant installation