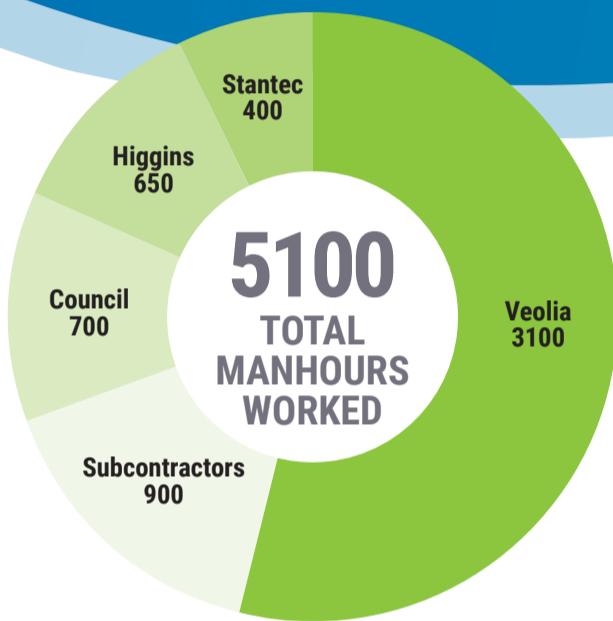


Porangahau and Te Paerahi Water Treatment

#theBIG-WaterStory

In 2020, Central Hawke's Bay District Council delivered a key flagship project of #thebigwaterstory to the communities of Porangahau and Te Paerahi. The newly opened water treatment plant and storage additions, improve drinking water quality by removing iron, and reducing hardness significantly, the upgrade also adds much needed storage (approx. 250,000 litres) to the treated water supply to deal with the summer demands. During the upgrade we were able to add an environmental improvement by installing a new pumped discharge pipeline from the plant to the wastewater network some 700 metres away.



PERFORMANCE

| | |
|-----------------|--|
| Iron | Reduced from 0.137 g/m ³ to below detectable limits |
| Hardness | Halved from 268g CaCO ₃ /m ³ to 142 g CaCO ₃ /m ³ (still refining) |
| UVT | 95% |
| FAC | Automatically controlled to 0.6-0.8 mg/l |

STORAGE CAPACITY
BEFORE
312,000L
AFTER
562,000L

PRODUCTION CAPACITY

BEFORE
9m³/hour
AFTER
Nominal: **24m³/hour**
Maximum: **30m³/hour**

*1cm³ = 1000 litres

EQUIPMENT INSTALLED



TIMELINE OF PROJECT ACTIVITIES



RESILIENCE ADDED

- Standby generator for power supply
- Uninterruptible power supply (ups) for control
- Comprehensive online monitoring instruments, warning and alarming, remote visibility enable early interventions

6 FACEBOOK POSTS

750 FLYERS DELIVERED

3 DESIGN WORKSHOPS

6 TRAFFIC MANAGEMENT AUDITS

22 WEBSITE UPDATES

4 NEW WATER RESERVOIRS

16 STAKEHOLDER UPDATES

2 COMMUNITY MEETINGS

3 DHB/DRINKING WATER ASSESSOR AUDITS

2 CONTAINERS INSTALLED

700m DISCHARGE PIPELINE

1 NEW DISCHARGE PUMP

250,000 LITRES OF EXTRA STORAGE