

# Ratana Water Supply Upgrade

## Newsletter – September 2016 (Issue 3)

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### Background:

The major upgrade of the Ratana Water Supply system being undertaken by the Rangitikei District Council is now under way. This newsletter provides an update on progress to date and information on what works are still to be carried out and when.

In response to concerns that the water supply was not suitable for consumption the Council applied to the Ministry of Health Drinking Water Capital Assistance Programme in 2008 for funding to identify a new water source for the community. That application was successful, and in 2010 a new bore was drilled to a depth of 185m, tested and developed which included the installation of a screen.

Subsequent to that a further application was made in 2012 for new treatment and storage facilities together with other associated works. This was approved in October 2013.

Water from the new bore is generally of good quality, and is free from microbiological contaminants but requires treatment to reduce its hardness and ammonia content in line with the requirements of the Drinking Water Standards New Zealand 2008. A new water treatment facility including specialist treatment plant, process building and treated water storage reservoir is required.

### Scheme Progress Update:

Works completed to date:

- Extensive earthworks involving the excavation of 2,000m<sup>3</sup> to create the site for the storage reservoir and treatment facility.
- Installation of a 200 mm bore to a depth of 185 m to provide a flow of 5 l/s and up to 14 l/s during peak times.
- 766m<sup>3</sup> reservoir to provide 24 hours storage of treated water storage.
- Over 2000 m of PVC and PE pipe to transport water from the bore to the plant and into the township of Ratana.

Construction on the water treatment facility is due to commence early October, with the first stage being the construction of the process building by KiwiSpanNZ from Whanganui. Once complete, Filtration Technology from Auckland will supply the specialist treatment plant to soften the water and remove the ammonia. All physical works are expected to be completed by end of January and the scheme commissioned early March 2017.

### Ratana Water Supply Upgrade – Key Facts

Project cost (total)	\$1.672 million
Government contribution	\$1.034 million
Water source	200 mm bore at a depth of 185m
New treatment plant capacity	350m <sup>3</sup> /day, Increasing to 500m <sup>3</sup> /day during major events.
New reservoir capacity	766m <sup>3</sup>
Total length of new pipelines	2,200 metres
Completion date	Mid 2017



Above: Construction of the 766m<sup>3</sup> green glass coated steel tank.



Above: Installing valves and fire hydrants on Kaitere Street.



Above: Installation of the PE water pipe and service conduits to the bore.

### Rangitikei District Council Contact

For further information contact Rob Smith, Project Engineer or Joanna Saywell, Asset Manager Utilities on 06 323 0000.