

# MOUNT ISA SEWERAGE AUGMENTATION STAGE 2



## CLIENT

Mount Isa City Council

## LOCATION

Mount Isa, Queensland

## TYPE OF CONTRACT

Head Contract / Design & Construct

## VALUE

\$14.1 million

## CONSTRUCTION PERIOD

July 2013 to January 2014

## CONTACT

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## OVERVIEW

With Mount Isa City Council sewerage infrastructure already at capacity, the Council was in urgent need of upgrading its sewerage infrastructure to cope with the additional demands of new developments proposed for the southern part of the city, primarily driven by the expansion of the Xstrata mineral mine.

Much of the existing sewerage infrastructure required significant upgrading to cope with this new demand, especially given the age of the existing infrastructure and existing significant infiltration issues. As there was also no provision within the trunk reticulation system for any significant emergency storage, it was imperative that the infrastructure was augmented and upgraded to enable development in the southern part of the city, provide greater operational flexibility and to protect the environment.

Rob Carr Pty Ltd was engaged by Mount Isa City Council to manage, construct and deliver the entire project. Rob Carr Pty Ltd self performed the all the major portions of work which involved the construction of approximately 8km of trunk sewer rising mains, the construction of a major new sewage pumping station (PS01) adjacent to an existing pumping station, modifications to an existing pumping station (PS04), including construction of an emergency storage tank and changes to the pump controls, construction of a new pumping station (PS18) and construction of 0.8km of gravity sewer reticulation systems in two separate areas as well as 2 microtunnels.

Much of the work was constructed through varying ground conditions with a major portion of the pipeline excavated through rock. The work involved construction of the pipeline through central portions of the town as well as brownfield and greenfield areas.

## PROJECT SCOPE

- 2.7km of DN525/600 GRP rising main PS01 - STP
- 3.5km of DN300 DICL rising main PS04 to PS01
- 0.3km of DN250 mPVC rising main PS18 to PS04
- 0.8km of DN180 PE100 rising main PS11 to PS18
- 0.4km of DN225/300 uPVC gravity to PS18
- 0.4km of DN150 uPVC gravity in Industrial Ave
- New Pump Station PS01 replacing ex PS01
- New 100kL storage tank at PS01
- Relocation of existing generator PS01 to PS18
- New stand by generator at PS01
- New 70kL storage tank at PS04
- Upgrade existing controls at Pump Station PS04
- New 40kL storage tank at PS11
- New Pump Station PS18 and 40kL storage tank
- Electrical control and telemetry systems
- Flowmeter, Air and Scour Valves installations
- Access roads, paving and fencing
- Testing and Commissioning of all works

## PROJECT HIGHLIGHTS



Construction of project completed 5 months ahead of original schedule



Detailed safety and environmental management including quality control and testing.



High level of logistical coordination with major stakeholders.



Collaborative coordination achieving project delivery 5 months ahead of schedule.



Construction of pipelines, waste water pump stations and storage.



Multiple bypass, sewer diversions and live connections to existing



Construction of pipelines, waste water pump stations and storage.



Detailed traffic control, Community interest



## MOUNT ISA SEWERAGE AUGMENTATION STAGE 2 CONTINUED

