

IMPROVING WATER SUPPLY SECURITY



The Queensland Government embarked on an ambitious program to create a “water grid” to link all major water sources in South East Queensland in a network to vastly improve water supply security to all urban areas of from Brisbane to the Gold Coast.

Project Overview

In 2006, as South East Queensland faced the prospect of entirely depleting the water reserves in the Wivenhoe and Somerset dams, the Queensland Government awarded Iplex contracts to supply 100 kilometers of DN1000 and DN1200 FLOWTITE® GRP pipe.

FLOWTITE® GRP pipe was subject to a series of destructive tests to observe the materials integrity should external damage occur. The tests verified the FLOWTITE® GRP system could operate up to burst pressure of 9 x MAOP with a localised mode of failure.

The FLOWTITE® GRP pipe was selected for a 65km section of the Western Corridor pipeline designed to operate at 1.6 MPa and a 44km section of the Northern

Interconnector designed to operate at 2.5MPa.

The FLOWTITE® pipe was light weight and easy to handle. With the pipe being supplied in 12m lengths the crew were able to achieve rapid production rates of up to 1000m per day.

An innovative curvilinear construction process ensured using a series of shallow angle bends were used to negotiate changes in direction in the pipeline thus eliminating the need for a welded joint system.

As parts of the Western Corridor Recycled Water Scheme and Northern Pipeline Inter-Connector Stage 1 projects, these contracts formed critical elements of the state government’s South East Queensland Water Grid Strategy.

PROJECT

QLD Government
Department of
Infrastructure and
Planning

LOCATION

South East Queensland

PRODUCT

DN1000 & DN1200
FLOWTITE® GRP Pipe

VALUE

~\$100 Million

