

# Flexible Strong Fast Smart

## CASE STUDY

# G James Expansion

### Project Snapshot

**Date**

Ongoing

**Project Name**

G James Expansion

**Client**

Reserve Hydraulic and Civil Pty Ltd

**Products Used**

HardiePipe™ concrete pipes

FlexiPit™ concrete pits

**HardiePipe™**  
CONCRETE PIPES

**FlexiPit™**  
CONCRETE PITS

## Ease of use puts replacement pipes at the cutting edge.

On an ever expanding project, longer lengths, easier cutting, and robust pit solutions all contribute to a pipe product that simply performs better.

**Expanding horizons.**

The G James Glass and Aluminium complex is a vast precinct based at Eagle Farm, Queensland, near Brisbane airport. The site houses many operations, with a number of buildings sprawling across what is effectively 10 city blocks. Such is the sheer scale of the sites that building or rehabilitation works of some kind are always underway.

For the past six years, a major expansion has been taking place throughout the factory buildings, resulting in, amongst other things, the replacement of the existing stormwater lines. The project requires precision, dedication and a product that is flexible to the confined nature of the existing pipe layout.

**The long and the short of it.**

Rick Galloway has been working with James Hardie® HardiePipe™ concrete pipes for nearly 20 years. He and his Reserve Hydraulic team have been involved in various upgrades and refurbishments of the G James factory since 2003. Some stormwater pipes were traditional steel reinforced concrete (SRC). For replacement, HardiePipe™ concrete pipes are well suited to speedy installation, saving time and money.



**James Hardie**  
Concrete Pipes

"I would use HardiePipe™ concrete pipes over SRC every time" says Rick, referring to benefits of working with James Hardie® products. The most obvious difference between the two is their standard lengths. At 4 metres, HardiePipe™ concrete pipe is significantly longer than the traditional 2.44m SRC pipes being replaced. "Every time you put a new pipe in the ground, you pick up 1.6m extra compared to SRC pipes," Rick describes. Pipes are transported in safety crates for safer and smarter handling. "Crating is great when working on a restricted site," says Rick.

**"You can move 15 lengths quickly with a forklift or store pipes away securely."**

The longer length is made possible through a lighter composition which is extremely strong. In accordance with AS4139, HardiePipe™ concrete pipes are designed to meet the same load under saturated conditions compared to that of a dry SRC pipe. This conservative approach, combined with the unique deflection capability, reduces the risk of pipes cracking.

#### Joint venture.

Another key benefit for Rick and his team on this job has been the ease of cutting. With the existing 'footprint' in part determining the path the pipe will take, cutting to measure is essential. The range of HardiePipe™ fittings available allows the pipes to perform a range of functions while being held securely in place. From Rick's perspective, this is crucial when dealing with so many pits and pit entry pieces along the job. "SRC small entry pieces tend to move about or fall out. These are secure and don't move."

The nature of this type of replacement work has a very real possibility of time and budget blowouts. What James Hardie® concrete pipes have enabled is an efficient, cost-effective installation, exhibiting a durability that ensures the new pipes have a lifespan that will stand the test of time.

#### Strong. Fast. Adaptable. Smart.

Our progressive, innovative approach creates high performance, engineered solutions for above and below ground stormwater drainage applications.

Call James Hardie® on the number below to find out all the benefits for your next project.

**"Every time you put a new pipe in the ground, you pick up 1.6m extra compared to SRC pipes"**

Rick Galloway - Director



Ask James Hardie™  
Call 1800 659 850  
[www.jameshardiepipes.com.au](http://www.jameshardiepipes.com.au)

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