

GMK industrial development Gregory Hills, Sydney

Case study – StormTrap® system



Asset owner chooses precast StormTrap® system over steel tank

Humes was approached by the asset owner of a large industrial warehouse project in Sydney. Humes was requested to design and supply a robust and trafficable on-site stormwater detention system with a total volume of 400,000 litres.

The approach was made at the '11th hour', after it was identified that the specified option originally proposed had inherent safety and design life risks, which would expose personnel to unnecessary risk, both during construction and during operation.

Humes offered a fully trafficable StormTrap® system to replace the proposed four barrel steel pipe tank which was not designed for truck loading, despite being directly adjacent to a gross pollutant trap that required maintenance by a vacuum truck. The StormTrap® solution also provided a 50 year design life against only 20 years offered by the steel pipe, which would have meant two complete reconstructions of the tank over the same period at considerable cost.

The client as the asset owner recognised the value, design life, peace of mind, and safety in a precast concrete solution designed for SM1600 traffic loadings.

The 400,000L StormTrap® system consisted of fifty modules which were installed in just seven working hours over two days. Backfill of the system was able to commence immediately after installation, with no construction delays.

The asset owner was pleased with the outcome. "We were particularly impressed having brought Humes in at the '11th hour' for them to be able to initially meet, assess the previous design, offer alternatives, tender, finalise design, gain approvals, manufacture then deliver and us have it installed in under twelve weeks" - Glenn Fordham, Director, Fordham Industrial Enterprises.

Project

GMK industrial development
Gregory Hills, Sydney

Principal

Fordham Industrial Enterprises

Product supplied

400,000L StormTrap® system –
DoubleTrap™ model



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