



→ **THE SITE OF '30 THE BOND'** was originally the site of the Australian Gas Light company's first gas manufacturing plant in 1871 and as a result there were considerable challenges in decontaminating such a site in an environmentally responsible way.

Eclipse Environmental accepted this challenge and put their expertise in waste water treatment and groundwater remediation to work on the complex task of removal of contaminated groundwater throughout the construction process.

Eclipse installed a fully portable water treatment system on site that was used to dewater and treat the effluent to Sydney Water sewer admittance standards. This was done in a three stage process, firstly using centrifugally assisted settling tanks to separate the heavy solids and tar from the liquid, Secondly, adjusting the pH of the waste liquid to assist in the flocculation process and finally carbon filtration to arrive at the required standard.

The system had to operate 24/7 for over 18 months as groundwater infiltration was about 100 kl per day at peak with no onsite storage capacity.

Eclipse Environmental provides these 'Site Master' systems on a fully maintained rental basis, handling all statutory applications and water sampling to authority requirements.

Eclipse has its own EPA licenced vacuum tankers to remove filtrate sludge off site.

The set up and the number of units required can be adapted depending on the size of the job; From the treatment of small amounts of 'muddy' water, to large scale decontamination such as '30 The Bond' (where over 20 million litres of water was removed). Eclipse has previously gained much experience from the underground railway station at Sydney Airport and Olympics site which also posed complex issues for decontamination.

From the very beginning, the involvement of Eclipse Environmental in the development at '30 The Bond' has helped in establishing strong environmental credentials for the site. The concept of 'Seriously green' from the roots to the roof has ensured not only '30 The Bond's' 5 star rating, but also Eclipse's expertise in remediation.

The Developer, Bovis Lend Lease received praise from the independent EPA auditor for the way in which the site cleanup was expedited and this is due in part to the commitment of Eclipse Environmental and the leading edge technology and practices they put into use.

# ECLIPSE ENVIRONMENTAL

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