

# Humeceptor™ STC 27 provides 24 hr, year round protection to Mullum Mullum Creek

**Principal**  
**Southern Recycling**

**Location**  
**Heatherdale Road,**  
**Ringwood VIC**

**Local Government**  
**Authority**  
**City of Maroondah**

**Consulting Engineers**  
**Davis, Naismith &**  
**McGovern Pty Ltd**

**Contractor**  
**Southern Recycling**

**Product Used**  
**STC 27**

**Date of installation**  
**February, 2006**

**Catchment Area**  
**3.6 hectares**

**Estimated long term**  
**Total Suspended Solids**  
**Removal Efficiency<sup>(1)</sup>:**  
**81%**

**Total Petroleum**  
**Hydrocarbon removal**  
**efficiency**  
**> 98 percent**

**Hydrocarbon Storage**  
**Capacity**  
**4,290 litres**

**Percent of Total Annual**  
**Run-off Treated**  
**92.3**

**Ratio of operating**  
**volume to contributing**  
**catchment**  
**7.6 m<sup>3</sup> per ha**

(1) Assuming particle size  
distribution with 60% of solids  
less than 150µm.

Southern Recycling is one of the largest privately owned scrap metal recyclers and processors of scrap and secondary metals in Australia, with plants in Melbourne, Sydney, Adelaide and Tasmania. The company specialises in the recycling and processing of metals, plastics and various metal bearing sludges and drosses into value added end- products for subsequent use by a wide range of industries.

The company's Victorian plant is located at Ringwood adjacent to the East-Link freeway that is presently under construction. Located downstream of the site is Mullum-Mullum Creek, an ecologically sensitive tributary of the iconic Yarra River. The site operates with a schedule 4 Licence issued by the Victorian Environmental Protection Authority (EPA).

Under this licence, the Victorian EPA required that stormwater from the site be treated to remove key pollutants such as total suspended solids, hydrocarbon based contaminants and associated pollutants such as heavy metals. In terms of total suspended solids, the objective under the Victorian Best Practice Environmental Management Guidelines is the retention of 80% of the mass load.

Southern Recycling in conjunction with their consulting engineer chose the **Humeceptor™** device as a perfect solution to their stormwater management needs. This decision was based firstly on the proven ability of the **Humeceptor™** device to achieve the required objectives. Secondly, the small below ground footprint of the **Humeceptor™** device provides an ideal solution for a busy and active industrial site where space and hardstand area are important considerations. Other important considerations for the company was that the **Humeceptor™** device is fast, easy and economical to install as it arrives to site in a limited number of modular components which is easy for any capable contractor to install. Finally, the use of Kor'N'Seal boots on the product was an attractive feature (as pictured below), since it provides a flexible water tight connection between the drainage system and the device, thus preventing the potential for hydrocarbon based contaminants to leach into adjacent subsoil areas over subsequent years of operation.

