



Odour Control System Solves Problem for Rowley Landfill

Rowley Landfill Site, Burnley

peace'mak'er, n.

- One who makes peace or reconciles parties at variance
- Allays agitation, calms

Testimonial

"The OCS Safecover and Peacemaker filter-scrubber unit has exceeded our expectations. It's a genuine and very effective 'fit and forget' system. Definitely one of my better buys" says a delighted Mr Ian Thomson

Contact

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Land filling at Rowley Landfill Site, on the outskirts of Burnley, commenced in the 1950's and has continued uninterrupted until the present day. Operated by the SITA Group, who acquired the site from Lancashire Waste Services, the site accepts domestic, commercial and inert trade waste from all over the North West.

In 1999 a leachate treatment plant was installed in the site compound to treat the leachate collected from within the site. The tank treating leachate from the new area of the site was identified as a potential odour source.

The site manager, Ian Thomson, then investigated the odour abatement methods currently available calling in specialists Odour Control Systems Ltd. (OCS). He knew that the company's cover, collect and odour treatment systems were being used successfully at other water treatment and landfill sites. He also knew that OCS had the resources and expertise to provide a full turnkey service including system design, manufacture, civils, commissioning and maintenance.

Following a site survey, OCS recommended tackling the smell source by fitting a Safecover GRP cover linked to a Peacemaker 400 filter-scrubber unit by a short run of ductwork. The proposal was accepted, an order was placed and since commissioning not one smell complaint has been received.

Good odour control starts with a well sealed, close fitting cover to the smell source. OCS Safecover structural GRP covers, combine the strength and toughness of a steel cover with outstanding corrosion and chemical resistance.

Individually designed and manufactured to fit the required shape, Safecovers are strong enough to support personnel loading and can therefore also be used as a walkway or working platform. The covers are flush with the top of the tank or sump and thus do not increase the volume of air required to be extracted, keeping fan and duct sizes to a minimum.

Interconnecting ductwork and air extraction fans create a partial vacuum to the covered odour source, drawing foul air to the Peacemaker filter-scrubber. Available in four standard sizes, each Peacemaker is of a modular design and comprises: a foul air inlet chamber; lower air diffusion plate and odour oxidisation media chamber; middle air diffusion plate and upper odour polishing media chamber.



Foul air is drawn into the Peacemaker's inlet chamber and diffused via the lower diffuser which maximises its distribution across and through the dry impregnated media granules held in the odour oxidising chamber.

The impregnate is chlorine dioxide, which is stabilised within the media. This powerful oxidising agent rapidly oxidises most odorous compounds. Products of reaction are odourless and environmentally sound.

From the lower oxidising chamber, air is drawn into the upper polishing chamber, which contains adsorptive media, which further removes any remaining odorous compounds. Independent tests have proved that the Peacemaker will effectively remove 100% hydrogen sulphide and mercaptan compounds even at very high peak loadings.

Peacemakers and Safecover collect and treat systems are manufactured entirely in-house at Odour Control Systems, Hawarden and Doncaster factories and are now recognised as the industry's preferred method of odour control. Media life and system performance are both guaranteed for a contracted period.

In conclusion, Ian Thomson is delighted. "The OCS Safecover and Peacemaker filter-scrubber unit has exceeded our expectations. It's a genuine and very effective 'fit and forget' system. Definitely one of my better buys."

preserving the environment

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