

# Odour from Green Waste Composting

Greenaway Green Waste Services, from Strubby in Lincolnshire, applied for planning permission to East Lindsey District Council to operate a green waste composting process. Acting on the advice of the local Environmental Health Officer, the Planning Authority required a quantitative odour impact assessment as part of the application. The scale of the operations is relatively small, with less than 1,000m<sup>3</sup> of material to be held on the site at any time. The Environment Agency advised that the process would be exempt from the requirements to register the facility under the Waste Management Regulations.

The Airshed conducted the assessment based on a range of reported odour emission rates for composting processes to determine the potential odour footprint.

The likely impact was predicted using ADMS 4.0.3. A model sensitivity analysis was conducted for a range of meteorological data, emission factors, surface roughness and receptor height.

This indicated that odour from the process was unlikely to cause significant loss of amenity at receptors around the proposed facility, provided good management practices were adopted. The results for the model run indicated that the worst case odour concentration was less than 3 OUE/m<sup>3</sup> 1 hour annual 98<sup>th</sup>ile for all the scenarios considered.

The most important controls to prevent or minimise odour include strict controls on the receipt of incoming waste and adequate process supervision. These will be set out in an Odour Management Plan to be approved by the Planning Authority and the Environment Agency.

The Airshed also conducted a simple noise impact assessment for the scheme. The Airshed also advised Greenaway about reasonable planning conditions for the development.

