

PREMIER 



PROPOSED WINGATE  
GRANGE FARM LANDFILL

## INTRODUCTION

The UK's approach to the management of waste is undergoing fundamental change at present. Increasing levels of recycling and waste treatment have become mandatory and Pollution Prevention Control (PPC) regulations now impose stringent standards on landfill design. The days of vast open landfill operations are over.

Premier Waste Management Limited (PWM) has developed an integrated waste management strategy which includes the highly successful 'Kerb-it' recycling scheme, the development of environmentally friendly Aerobic Digestion Plant to treat municipal waste and the use of compact and highly-engineered landfill designs to accommodate residues which cannot be recycled.



Proposed Restoration Plan

Landfill resources in Durham are increasingly under pressure with seven sites having either recently closed or being close to the end of their operational life. Premier proposes to create a new highly engineered landfill site at Wingate Grange Farm to dispose of the waste that cannot be recycled from PWM's operations. This site will use small containment cell engineering techniques to confine operations to less than 3% of the application site area. Progressive restoration of the site as each cell is completed will ensure minimal environmental impact.

## PREMIER WASTE MANAGEMENT LIMITED

PWM is the North East's largest waste management company and has operated in the area for many years presently employing in excess of 300 staff.

PWM offers a comprehensive range of waste management and recycling services with industry leading developments in recycling, composting and diversion from landfill technologies designed to surpass the requirements of national legislation and regional waste management requirements. This includes:

- Kerbside Collection
- Green Waste Composting
- Aerobic Digestion
- Recycled Products
- 3 Operational Landfill Sites
- 5 Waste Transfer Stations
- Collections Fleet of over 70 vehicles

## PROPOSAL

The proposal at Wingate Grange Farm addresses the extraction of geological resources (clay) to be processed and used in Premier's landfill engineering applications; the disposal of non-hazardous waste; the application of progressive restoration and ultimately the positive regeneration of the local environment through improved agricultural and wildlife habitats.

The site will provide County Durham with residual waste disposal for approximately the next 20 years and through the use of innovative engineering techniques will be as unobtrusive as possible, offering significant improvements over older landfill sites.

Landfill design in recent years has made significant technological and engineering advances, moving away from the "big hole in the ground" to the advanced engineering design being proposed for Wingate Grange Farm Landfill. PWM proposes to create discrete working cells throughout the operation of the site, so each cell is developed individually, infilled with waste and then immediately restored; each cell will last a maximum of two years, and be around the size of four football pitches. At any one time only 2.5-3.0% of the entire site will be operational and should significantly reduce the potential impacts on the local area. The landfill will have a highly engineered lining system to ensure that the surrounding environment is protected from any potential pollution problems.

The progressive restoration and five year aftercare programme post closure of the site will provide the area with an increased level of nature conservation and improved agricultural land. Developments include the provision of additional woodland by planting over 10,500 trees and 2 kilometres of hedgerow, the encouragement of wildlife habitats and the introduction of wetland features to attract further wildlife to the area.

## LOCAL COMMUNITY IMPACT

The whole design of the site is such to minimise the intrusion and impact on the local community.

**Visual impact** will be minimised using perimeter mound screening and utilising the screening characteristics of the established tree planting.

**Traffic**, the entrance to the site will be situated off the A181 trunk road. It is anticipated that a maximum of 75 vehicles will use the site per day or approximately 8 per hour.

**Public walkways**, the site has been designed such that the existing bridleways will remain.

**Noise** limits will be set by the Planning Authority. PWM noise predictions suggest that noise levels will not be intrusive, that measures will be implemented to reduce the affect the sounds such as baffle mounds, acoustic fencing and working practices. Waste vehicle speed limits will be imposed and restricted to daytime working.

**Litter**, control measures such as litter nets, waste placement techniques, avoidance of tipping in windy weather, together with routine litter patrols, will ensure no problems should arise.

**Odours**, these will be controlled by an odour control plan which relies on measures such as waste placement techniques, good coverage of the working face and masking sprays.

All environmental considerations will be regulated by the Environment Agency and through control measures stipulated in the PPC Permit.

## **PLANNING & PPC PERMIT APPLICATIONS**

A Planning Application will be submitted to Durham County Council in the near future for consideration.

In addition to the Planning Application, a separate application for a Pollution Prevention and Control (PPC) Permit will be submitted to the Environment Agency in due course.



### **Premier Waste Management Ltd**

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