

## Spiroflow Solution Helps Waste Management Company Treat 50,000 Tons of Waste Each Year

### Customer Requirements

**Waste Recycling Group (WRG)** is one of the leading waste management service companies in the UK. Each year they receive, recycle and dispose of more than 15 million tons of household, commercial and industrial waste.

At their Ecclesfield, Sheffield site, WRG treats between 50,000 and 60,000 tons of waste per year rendering it harmless to the environment and enabling its safe disposal. Because of the diversity of waste products delivered to this site, and available from their other sites across the UK, the company was able to apply some imaginative chemistry using one waste to neutralize another whenever possible. Much of the material is delivered in single trip Bulk Bags. They needed a Bulk Bag Discharger to empty the bags and a method of transferring the discharged product to their cavernous blending tank.

### Spiroflow Solution

A Spiroflow Bulk Bag Discharger and Aero Mechanical Conveyor are used to empty lime-like powders from single trip Bulk Bags and to convey them 26' vertically and 16' horizontally to a seriously large holding tank where the powders are used to neutralize the acidity of liquid waste. The solids are then separated out and sent to a landfill and the harmless water is returned to the local water company.

The Spiroflow T4 Bulk Bag Discharger is designed to cut open the bottom of the single trip Bulk Bags. In addition to the flexible, primary seal, where the lower edges of the Bulk Bag sit, there is an additional seal about 8" above. The space between the 2 seals is connected to a sizable dust extraction system. The main purpose of this is to capture any dust generated when the bottom is automatically cut as the bag is lowered into place and before the full weight of the bag makes contact with the primary seal.

Near total evacuation of the bulk bags is ensured by using timed vibration at the end of the emptying cycle. Vibration is also activated by way of a level probe should the normally free-flowing contents of the Bulk Bags become problematic due to high moisture content or compaction during storage.

When asked why WRG chose Spiroflow equipment, Operations Manager Paul Southgate confirms, "I had used Spiroflow successfully over a number of years in a previous position and therefore I turned to them for assistance with this job and have been well pleased with the equipment and their after sales support."



Spiroflow Aero Mechanical Conveyor transfers product from the Bulk Bag Discharger to a very large mixing Tank



Spiroflow Bulk Bag Discharger inside it's weatherproof housing. Note: The plastic strip curtain is held aside for photographic purposes.