



WALLEYS LANDFILL, SILVERDALE

Red Industries acquired Walleys Landfill in November 2016. The site accepts non-hazardous wastes in accordance with our permit. Walleys Landfill is operated to the highest standards and complies with all legal and governmental policies and regulations. Our team of experts carefully manage and monitor the site through a set of tight controls and procedures. We work to minimise any impact on the environment now and for the future of the site.

We are committed to our environmental obligations. Our management team make long-term decisions for the future.

Walleys Landfill will be filled and restored to provide **nature conservation grassland & woodland areas.**



We are accredited to three BSI standards.



Gas is turned into energy in a specialist facility on site. In 2018:



15,374 MW/H GENERATED

POWER GENERATED FROM LANDFILL GAS

5,522 TONNES METHANE COMBUSTED

AREA MAINTENANCE

We have procedures in place to minimise the chance of debris leaving our site.

Wheel wash station through which vehicles pass prior to leaving the site.

Drivers are spoken to about checking their vehicles and wheels before leaving the site to remove any debris.

We have continued to voluntarily litter pick the local areas around our site. We have employed an additional team member to assist with this.

SITE IMPROVEMENTS

We are committed to operating at the highest standards and continue to invest in our facilities.

Replaced sodium hydroxide with magnesium hydroxide as the neutralising agent in the leachate treatment plant. Magnesium hydroxide is better for the environment and better for biomass.

Additional bore holes installed and network improved to increase gas extraction.

Obtained a recycling permit for the site.

Progressive preparations for site restoration.

MORE THAN

£950,000

awarded to local community projects since the fund began in July 2017. Funding is kept locally - projects must be within 3 miles of our Silverdale or Burslem sites.

Funding is awarded to help improve facilities in the local area. Applications are reviewed four times per year and the aim is to spend all the funding available. Community centres, scout groups, football clubs, heritage centres, cricket clubs, churches, play parks and more have benefited from the fund.

We've helped 28 organisations with 35 projects, including:

All Saints Church, Hanley - funding for heating and seating as part of a larger restoration project.

Red Street Community Centre - replacement security and safety fencing around the perimeter of the site.

Silverdale Parish Council - funding towards the restoration and erection of the pit wheel as a tribute to the people who lived and worked around the colliery.

Ilkley Place Play Area - grant towards the installation of outdoor gym equipment in the park.

Newcastle & Hartshill Cricket Club - refurbishment of changing and toilet facilities to improve disabled access and facilities.



Overview of the Odour Management Plan at Walleys Landfill

Waste odour management at our site is an integral aspect of operational management procedures, which are part of Red Industries' Integrated Management System (which is externally certified to ISO9001:14001 and OHSAS 18001).

Our Odour Management Plan ensures that:

- Odour control is integrated into the routine site management;
- Odour is primarily controlled through good housekeeping and operational procedures, and operator competence training;
- The control measures are taken to primarily prevent or, where not reasonably practicable, to reduce emissions to air that can result in odour events outside the Site boundary.

ODOUR CONTROLS

In our Odour Management Plan we set out how odours are managed and controlled at Walleys Landfill. Below are some of the controls we use:

Waste Materials

All waste is subject to our stringent procedures for pre-acceptance assessment, receipt, and acceptance of waste materials - inherently malodorous wastes and high sulphate bearing wastes do not pass the pre-acceptance procedure and are not brought into the site. Any waste arriving at site is verified at the weighbridge and tipping facility - should any wastes be in breach of pre-acceptance criteria, or be particularly odorous, they may be rejected, the customer contacted for more information, or other measures deemed appropriate by the Site Manager.

Waste is compacted, covered over both throughout the day and at the end of the day, and temporary caps put in place in completed areas. Wherever possible, measures will be taken to ensure previously placed waste is not disturbed, exposed or moved.

Landfill Gas Management

Landfill gas odour is typically associated with trace components in the gas, such as sulphides and mercaptans. Collection and treatment of the gas is the primary means of destroying trace gases and thus controlling the odour. The gas extraction system at the Site comprises an extensive abstraction network connected to the gas utilisation plant. The gas treatment approach is on an engine-led basis, with the capacity of the engines optimised (and new engines added as necessary) to ensure that the maximum sustainable gas flow from the landfill is maintained at all times.

Leachate Management

Landfill leachate is a liquid produced as a result of infiltration of rainwater and decomposition of the waste. Leachate can emanate an odour due to presence of hydrogen, nitrogen, sulphurs and other chemicals produced in the waste degradation process. At Walleys Landfill, leachate is extracted and treated on-site. A leachate abstraction network is installed in each cell, and leachate wells are raised in line with infilling progress. Leachate wells and pipework are adequately sealed and are connected to the gas abstraction network (where possible) to prevent a potential for odour release.

Odour Suppression

The Site maintains an odour suppression spray system located along the site perimeter. The system is designed to use odour masking or neutralising agents, as airborne odour controllers, typically giving out a 'fresh linen' smell.

ODOUR MONITORING

We regularly monitor the site and surrounding areas for odours. Odour inspection is part of daily management of the Site.

All operatives wear hydrogen sulphide (H₂S) monitors.

A 'Sniff Testing Survey' is carried out at least once a week - the surveyor walks slowly along the site boundary to see if any odours can be detected.

ODOUR COMPLAINT ACTION PLAN

Odour complaints are taken seriously and investigated. Complaints are usually received through the Environment Agency (0800 80 70 60) and passed on to the Site Manager:

- Complaints are logged/ recorded and details noted.
- The Site Manager will carry out a review of waste operations and environmental controls (landfill gas and leachate) at the Site prior to and at the time of the complaint to determine any potential odour source.
- Meteorological conditions are reviewed through the Site's access to real time weather data, for example checking if wind direction and speed are in the direction of the complainant.
- An odour survey may also be carried out at the complaint location where information is passed to the Site within 12 hours of odour detection.

Should an odour be substantiated as originating from the landfill, remedial actions are carried out as set out in the Odour Management Plan.