

# WALLEYS QUARRY

## PRESS INFORMATION

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### Monitoring

Walleys Quarry is a highly engineered, specialist non-hazardous landfill facility which is operated and monitored under a rigour EPR permit, issued by the Environment Agency. As may be anticipated, such a facility is subject to a stringent and extensive regime of monitoring, covering a variety of components and concentrations within liquid and gas phase materials which are interacting with the landfill. In summary the monitoring regime covers:

**Leachate:** Leachate is a liquor which accumulates in the basal regions of the landfill cells, these being clay-engineered containment systems designed for this process. Whilst the leachate at Walleys Quarry is extracted and treated onsite, the levels of the leachate within the facility are regularly measured and recorded.

**Ground Water:** Groundwater wells are installed around the perimeter of the Walleys Quarry landfill facility. These are generally installed at two depths, to ensure the different strata underlying the facility can be monitored. At regular intervals these are subject to monitoring of both the underlying groundwater and the gas composition within the headspace above the groundwater level. In addition, the groundwater pumped from depth under the specialist engineered lining system is regularly sampled prior to discharge.

**Surface Water:** Surface waters are regular sampled and tested to ensure that they can be discharged in compliance with the approved discharge points.

**Landfill Gas:** Landfill gas is produced through a naturally occurring bacterial process which happens within the waste mass as oxygen becomes depleted as waste is compacted and covered. Gases produced, which are contained and captured through the engineering practices undertaken on site are regularly and routinely monitored. This allows the extraction of landfill gas to be balanced, ensuring it is extracted by the on-site Gas Utilisation Plant at the rate of production and therefore limiting the potential for residual gases and in particular Oxygen being introduced to the waste mass.

**Point Sources:** There are several points at which ground, and surface waters may be discharged from the facility, provided that the conditions within the permit are met. The discharge of ground and surface waters is a necessary process to ensure that they are managed and to control their build up, both underneath and around the landfill facility.

## **ENDS**

For press information please contact [press@walleysquarry.co.uk](mailto:press@walleysquarry.co.uk)

### **Notes to editors:**

Website: <https://www.walleysquarry.co.uk>

### **About Walleys Quarry:**

Walleys Quarry in Newcastle-Under-Lyme, Staffordshire is a landfill site, offering safe disposal of waste that cannot otherwise be re-used or recycled.