

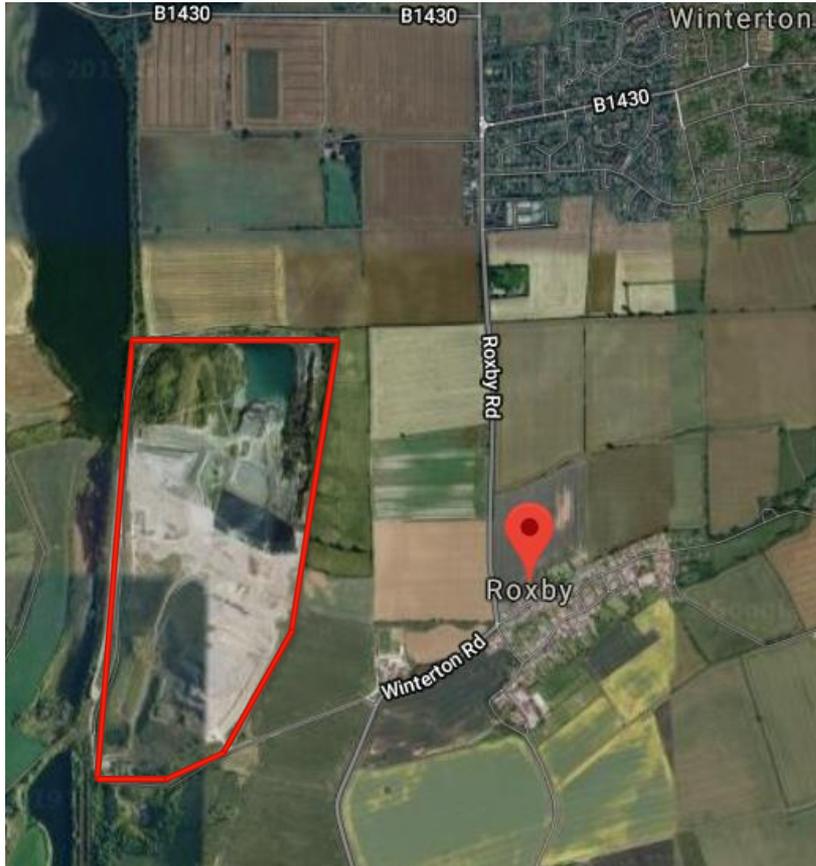
Roxby Landfill and Rail Sidings

Jan 2020



Biffa[®]

Roxby - Location



- ▶ Biffa's Roxby landfill site is located approximately 6km NNE of Scunthorpe. The site is a former open cast ironstone quarry that is being restored by infilling the former quarry with non-hazardous wastes to restore the landscape to be in-keeping with the surrounding area which is arable farmland.
- ▶ The nearest residential areas are Roxby Village 500m to the East and Winterton Town approximately 2 km to the North East. The closest dwellings to the Site are Bagmoor and Sheffield Farms 500m to the west and Alps College 425m East South-East.

Roxby - Layout



Site Boundary

Gas Compound 2

Area to be plastic capped

Disposal Area

Site Offices

Gas Compound 1

- Final restoration to country parkland
- Biffa will hold the permit for 60 years post completion

Roxby - Rail Siding “The Flying Dustman”



- ▶ Roxby Landfill Site is an interesting facility as it is almost unique in that it benefits from a rail link which enables waste to be sustainably transported to the landfill site over long distances by rail.
- ▶ This allows the landfill inputs to be maximised without placing a strain on the local highway network that would otherwise be associated with a landfill site of this size as normally all waste inputs to landfill sites are via HGV's.
- ▶ To put this into context just one train load of waste is the equivalent of up to 66 HGV loads and the site currently receives two train loads per day.

- ▶ Regular Site Liaison Meetings (6 Monthly)
 - ▶ County Councillors
 - ▶ District Councillors
 - ▶ Environment Agency
 - ▶ Planning Authority
 - ▶ Residents invited by Councillors as requested
- ▶ Open – door policy
 - ▶ Residents or local interested parties are welcome to visit the site (pre-arranged)

Roxby – Landfill Gas



- ▶ Roxby produces 9MW of electricity which would power ~ 14,000 homes
- ▶ Gas is collected via an extensive network of wells and connection pipework
- ▶ Landfill gas is still a major contributor to the UK's renewable energy sources, to put that into context it would power all the households in a city the size of Glasgow.

Roxby – Odour Management

▶ Regular Site Activity

- ▶ Daily Off-site Odour surveys by various staff
- ▶ Weekly FID (Methane) surveys of the site –deficiencies identified are actioned for repair
- ▶ Weekly Skype Calls with Ops management, Landfill Gas team and environmental compliance team
- ▶ Monthly Operations meetings to plan gas extraction infrastructure and tipping operations
- ▶ Meetings with Environment Agency/Biffa/ x 3 per annum
- ▶ Environmental Trackers x 3 per annum

▶ Reactive

- ▶ All complaints are reviewed in detail and discussed with EA and site staff
- ▶ Extra site visits and support following any material issues



Roxby– Update & Progress

- ▶ Routine engineering works planned to be undertaken in November 2019 were disrupted by the recent heavy rainfall in Lincolnshire that led to more difficult operating conditions than usual at our Roxby site. To overcome the delays and issues the extreme weather conditions created, extra measures have been put in place to address this, in the form of an action plan submitted and agreed with the Environment Agency who have visited the site several times over the past month and remain in regular dialogue with site staff. A meeting was also held with councillors from all local parishes and the Environment Agency to discuss these actions and ongoing plans at Roxby Landfill Site on the 16th December 2019. Following this meeting an update of actions undertaken to date and planned were provided to all Parish Councillors for dissemination to their constituents.

- ▶ In November and early December 2019 a total 74 gas extraction pin wells were installed and placed under extraction. A further 80 pin wells were subsequently installed along the eastern and northern perimeters of the site once the above mentioned issues were highlighted in December 2019, with an additional 500m of horizontal gas pipework placed in the operational area. Site staff continue to balance the extraction from the gas system daily to guarantee that the wells perform as efficiently as possible. To ensure these works were completed before the Christmas break additional teams of contractors were mobilised.
- ▶ A further 100 pin wells are planned to be installed, with works to start week commencing 13th January 2020. This work also incorporates 16 deep seated gas wells to target gas production deeper within the waste mass, which, along with the shallow pin wells allows the gas extraction system to target multiple levels within the waste mass, therefore increasing the overall extraction of landfill gas and the sustainable generation of electricity for the National Grid

Roxby– Progress Update

- ▶ During these works we will endeavour to control any odours with the installation of additional portable de odouriser units and enhancing the static perimeter mobile system. All the drilled sections will also be capped and sealed at the end of each operational day to minimise any associated odour escape.
- ▶ Further capping works are planned to commence once preparation works are complete and all the planned additional gas infrastructure is installed and operational. This will comprise 25,000m² temporary LLDPE plastic liner, installed to the same specification as permanent capping, with installation planned to start week commencing 14th February. An additional 15,000m² of permanent LLDPE plastic capping is planned to start being deployed week commencing 6th March 2020. The placement of all capping is weather dependant but the initial timescale for the deployment of this permanent capping is 4 weeks, with progressive improvements expected from the start.

Roxby– Making a Complaint

- ▶ We appreciate that it may not be easy to describe an odour when making a complaint, however the level of detail we receive assists us in targeting any potential issues. As such the following information is helpful to us and if it can be included when you complain may assist in helping us to target an issue if the odour is linked back to site:
 - ▶ Time / Date the odour was detected
 - ▶ Location of Odour
 - ▶ Description of Odour
 - ▶ Odour Intensity (0 to 6)
 - ▶ Odour Extent (0 to 5)

Odour Intensity		Odour Extent	
0	No Detectable Odour	0	No detectable Odour
1	Very Faint odour (barely detectable, stand still and face wind)	1	Local and impersistent (only detectable during brief periods)
2	Faint odour (easily detectable while walking)	2	Impersistent as above (detected away from site boundary)
3	Distinct Odour	3	Persistent, but localised
4	Strong odour (bearable but offensive-will clothes smell?)	4	Persistent and pervasive
5	Very strong odour (don't want to be here)	5	Persistent and widespread
6	Extremely Strong Odour		