



ENVIRONMENT
AGENCY

Variation Notice with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Llanddulas Landfill Site

3C Waste Limited
Llanddulas Landfill Site
Abergele Road
Llanddulas
Conwy
North Wales
L22 8HP

Variation Notice Number
HP3531XS

Permit Number
BU0800

Llanddulas Landfill Site Permit Number HP3531XS Variation Number HP3531XS

Introductory note

This introductory note does not form a part of the permit

The following notice is issued under regulation 17 of The Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No. 1973 (as amended) (the Regulations) to vary the conditions of a permit issued under the Regulations to operate an installation. The notice comprises schedule 1 containing conditions to be deleted, schedule 2 conditions to be amended and schedule 3 conditions to be added.

The purpose of this variation is to delete and replace condition 1.3.1 in respect of the Financial Provision arrangement between the Operator and the Environment Agency – at the Operators request.

There are no changes to the Installation as a result of this variation.

The non-technical summary from the original permit is repeated here for the sake of clarity.

The main features of the installation are as follows:

The installation is shown on Drawing Number LL1 dated December 2003 entitles "Installation Boundaries" is at Llanddulas, Conwy, North Wales. The installation comprises of a biological leachate treatment plant with a treatment capacity greater than 50 cubic metres per day, three gas engines with a total combined thermal input capacity greater than 3 megawatts together with three main areas for landfilling as follows:

Phase 1 and 3 previously operated in accordance with waste management licence CBC06.

Phase 2 previously operated in accordance with waste management licence CBC08.

Phase 3a included in the Permitted Installation of the site. This area was not previously licensed.

The wastes authorised to be deposited within the installation consist of a specified range of household and non-hazardous industrial and commercial waste with a total quantity of approximately 5.2 million tonnes, including previously deposited waste under the superseded waste management licences. The permit condition 2.1.4 restricts the waste input to no more than 60,000 tonnes per year.

The main potential sources of emissions are:

- Leachate with the implications of pollution to surface and groundwater and nuisance from malodour and
- Migration of landfill gas causing malodorous nuisance and the potential in exceptional circumstances to cause explosion in an enclosed space and
- Fugitive emissions of landfill gas causing a reduction in the local air quality and contributing to greenhouse gases globally and
- Point source emissions of exhaust gases from flares and the gas engines produce exhaust gases that have been subject to a risk assessment in accordance with "Horizontal Guidance Note IPPC H1, integrated pollution Prevention and Control (IPPC), Environmental Assessment and Appraisal of BAT" and dispersion modelling.

A hydro geological risk assessment has been completed to assess the risk of polluting substances discharging to groundwater from the waste.

The base of the landfill is above the groundwater table.

The design and standards of the construction of the engineered protection measures for the installation are based on the results of this groundwater risk assessment.

The new area for engineering, ie: Phase 3 a, will be engineered to encapsulate the waste in low permeability engineered clay and plastic liners on the base and outer sides of the site with additional and engineered fill beneath the lining system. Engineered systems are installed to collect, control and monitor leachate and landfill gas produced by the degradation of the waste. The integrity of the engineered lines and its ability or otherwise to prevent leachate migration into groundwater, is monitored and assessed by carrying out sampling and chemical testing of groundwater and leachate quality respectively from the external groundwater monitoring boreholes and internal leachate monitoring wells. Gauging of leachate and groundwater heads are also part of the monitoring regime. On site leachate is treated in an on site biological treatment plant prior to disposal to sewer.

Landfill gas is actively controlled by pumping, extraction, flaring and or utilisation by combustion in gas engines. Monitoring boreholes outside the liner system are sampled and analysed to check for the presence of landfill gas. This enables a check to be kept on the containment/liner integrity and its ability or otherwise to prevent landfill gas migration. Landfill gas is sampled and analysed within the waste mass.

Landfilling significant quantities of waste can cause additional environmental pollution due to the release of escape of dust, odour, litter and noise and other environmental nuisances such as flies, rodents, gulls or other pests. The Permit conditions require specific mitigation measures and monitoring to be carried out which are documented by the Permit holder.

Status Log of the permit		
Detail	Date	Response Date
Application - BU2853	Received 27/02/2003	Revoked
Application - BU0800	Received 09/06/2003	Applicant agreed that separate applications should be conjoined – see letter dated 30 January 2004, Ref 4D-197-126
Response to request for information 1	Received 30/09/2003	Responses to statutory consultee comments for Phases 2 and 3A
Response to request for information 2	Received 22/07/2003	Reference: 4D-197-126, dated July 2003, comprising 3 documents regarding hydrogeology and stability (2 documents)
Supplementary information	Dated 09/12/2003	List of waste types for acceptance at the Llanddulas Landfill
Request to extend determination	08/10/2003	Extended to 17/10/2003
Request to extend determination	16/10/2003	Extended to 10/11/2003
Request to extend determination	10/11/2003	Extended to 1/12/2003
Permit Determined - BU0800	06/02 2004	
Application for variation - BX7789	Received 8/04/2004	
Permit varied - BX7789	28/04/2004	
Application for Variation - HP3531XS	Received 10/10/2007	
Permit varied - CP3332LG	30/05/2008	
Permit varied - HP3531XS	03/06/2008	

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation		
Holder	Reference Number	Date of issue
3C Waste Limited	WML CBC06	15/01/1992
3C Waste Limited	WML CBC08	03/11/1992
Waste Recycling Group Limited	CG0136801 (surface water discharge consent)	23/11/1992

End of Introductory Note

Variation Notice

Pollution Prevention and Control
(England and Wales) Regulations 2000

Variation Notice

Permit number

BU0800

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HP3531XS

The Environment Agency (the Agency) in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) hereby varies the permit held by you

3C Waste Limited ("the operator")

whose registered office is

**Ground Floor West
900 Pavilion Drive
Northampton Business Park
Northampton
NN4 7RG**

company registration number 2632581

to operate an installation at

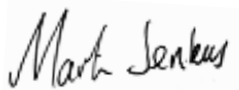
**Llanddulas Landfill Site
Abergele Road
Llanddulas
Conway
North Wales
L22 8HP**

to the extent set out in schedules 1 to 3 of this variation notice .

The notice shall take effect from 3rd June 2008.

Signed

Date

	3 rd June 2008
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Martin Jenkins

Permitting Team Leader

Authorised to sign on behalf of the Agency

SCHEDULE 1 – CONDITIONS TO BE DELETED

The following conditions are deleted

- 1.3.1 The financial provision for meeting the obligations under this permit shall be set out in the Deed of Performance dated 6 February 2004 between the Waste Recycling Group Limited and the Agency. The operator shall accordingly ensure that the Permit is and remains throughout its subsistence listed under Schedule 2 of that Deed as being a Permit to which the Deed relates.

SCHEDULE 2 – CONDITIONS TO BE AMENDED

None

SCHEDULE 3 – CONDITIONS TO BE ADDED

The following conditions are added to the permit

- 1.3.1 The financial provision for meeting the obligations under this Permit shall be as set out in the Deed of Performance dated 17 October 2007 between the Waste Recycling Group Limited and the Agency. The operator shall accordingly ensure that the Permit is and remains throughout its subsistence listed under Schedule 3 of that Deed as being a Permit to which the Deed relates.