



ENVIRONMENT
AGENCY

Variation Notice with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

**East Winch Landfill
Middleton Aggregates Ltd
Mill Drove
Blackborough End
Kings Lynn
Norfolk
PE32 1SW**

Variation Notice number

GP3035UD

Permit number

XP3333LX

East Winch Inert Landfill

Permit Number XP3333LX

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 part of 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.

This variation is Agency initiated and is in response to requests by the operator due to inconsistencies.

There are no substantial 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 site is located to the south west of the village of East Winch, approximately 7Km south east of Kings Lynn at National Grid Reference TF6814 1569. East Winch Landfill is owned and operated by Middleton Aggregates Limited and the site has planning permission for Carstone mineral extraction and progressive restoration by way of importation of inert waste only.

The site covers an area of approximately 10.9 hectares (ha) with landfilling progressing in an easterly direction through phases 1 to 5. Current landfilling operations are predominantly taking place in phases 1 and 2. Although the maximum quantity of waste input to the site applied for is 75000 tonnes per year, current input rates are in the order of 30 to 40,000 tonnes per year with an estimated 50 to 60 years of void space remaining. Input rates are however expected to increase in future which will have an impact on the sites life span with regard to available void space.

Environmental impacts from landfill gas generation at the site are anticipated to be limited due to the inert nature of waste inputs at the site. Precautionary monitoring points are however proposed within the waste mass in order to determine whether or not more comprehensive landfill gas management measures will be required.

Similarly, there are no leachate management proposals for the site as the expected low permeability and inert nature of incoming waste streams, controlled by a robust waste acceptance procedure for the site, will not result in unacceptable levels of leachate generation.

The installation of groundwater monitoring boreholes are required as part of the permit requirements to assess background concentrations deriving from the historic landfilled areas or potential perched groundwater.

Status Log of the Permit

Detail	Date	Response Date
Application XP3333LX	Received 08/11/05	
Response to request for information	Request dated 08/02/06	Response dated 27/02/06
Request to extend determination	Request dated 30/06/06	Request accepted 01/07/06
Permit determined	16 August 2006	
Permit varied	14 March 2007	

End of Introductory Note

Variation Notice

Pollution Prevention and Control
(England and Wales) Regulations 2000



**ENVIRONMENT
AGENCY**

Variation Notice

Permit number XP3333LX

Variation Notice number GP3035UD

The Environment Agency in exercise of its powers under regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I. 2000 No. 1973) (as amended), hereby varies the permit BT7183 held by you.

Middleton Aggregates Ltd ("the Operator"), whose registered office is
Mill Drove
Blackborough End
Kings Lynn
Norfolk
PE32 1SW

Company registration number 2007160

to operate an installation at

East Winch Inert Landfill
Mill Drove
Blackborough End
Kings Lynn
Norfolk
PE32 1SW

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

This notice shall take effect from 14 March 2007 at 00:01 hours.

Signed

A rectangular box containing a handwritten signature in black ink, which appears to read "Luke Prazsky".

Luke Prazsky, Team Leader, Strategic Permitting Group, Bedford

Authorised to sign on behalf of the Environment Agency

Date

14 March 2007

SCHEDULE 1 - CONDITIONS TO BE DELETED

No conditions to be deleted.

SCHEDULE 2 - CONDITIONS TO BE AMENDED

The following tables have been amended:

Table S4.2 Trigger levels for emissions into groundwater and monitoring requirements					
Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
GW3, WRG03 and all additional down-gradient groundwater-monitoring boreholes installed under Improvement Conditions 2 and 4.	Ammoniacal-Nitrogen	0.5mg/l	Spot Sample	Monthly for 12 months, then a reduction to quarterly if agreed in writing with the Agency	In accordance with the Environment Agency's Guidance on Monitoring Landfill Leachate, Groundwater and Surface water (2001)
GW3, WRG03 and all additional down-gradient groundwater-monitoring boreholes installed under Improvement Conditions 2 and 4.	Chloride	150mg/l	Spot Sample	Monthly for 12 months, then a reduction to quarterly if agreed in writing with the Agency	
GW3, WRG03 and all additional down-gradient groundwater-monitoring boreholes installed under Improvement Conditions 2 and 4.	List II substance to be agreed with the Agency by way of IC 6a	To be agreed with the Agency by way of IC 6b	Spot Sample	Monthly for 12 months, then a reduction to quarterly if agreed in writing with the Agency	

Table S4.6 Groundwater – other monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
GW1, WRG03 and GW3 as agreed in improvement condition number 2 above and any subsequent groundwater monitoring boreholes agreed in improvement condition number 4 above.	Water Level, pH, Conductivity, Nitrate, Sulphate, COD, BOD, Iron, Manganese, Cadmium, Ammoniacal Nitrogen, Chloride, and alternative List II substance as per IC 6a	Monthly for 12 months, then a reduction to quarterly if agreed in writing with the Agency	To be agreed with EA	List I substances to MRV ¹
	As above and Potassium, Lead, Copper, Zinc, Chromium, Cyanide, Mercury, Nickel, Phenol.	Annually	To be agreed with EA	List I substances to MRV ¹

Note 1: Minimum Reporting Value in accordance with Environment Agency's best practice guidance.

Table S1.3 Improvement Programme Requirements

Reference	Requirement	Date
1	<p>The operator shall submit to the Agency a revised gas monitoring plan (Drwg EW/ESID/05 dated 24/10/2005) which clearly indicates the location and appropriate numbering of the proposed gas monitoring boreholes.</p> <p>The revised monitoring plan shall also include gas monitoring borehole construction proposals and timescales for construction.</p> <p>The Operator shall implement any improvements or measures as approved in writing by the Environment Agency.</p>	16 November 2006
2	<p>The operator shall submit to the Agency revised construction details for the groundwater monitoring borehole/s shown to be installed on drawing EW/ProposedBH/01dated 20/02/2006 for approval in writing by the Agency to confirm that it is satisfied with the construction proposals.</p>	16 November 2006
3	<p>The operator shall install the groundwater monitoring borehole/s as detailed in Improvement Condition 2 above and as approved in writing by the Environment Agency and shall commence monitoring as specified in Table S4.6 of the permit conditions.</p>	16 February 2007
4	<p>The operator shall submit to the Agency, borehole specific trigger levels using the first 12 months data obtained under Table S4.2 and provide a groundwater contingency action plan in accordance with best practice guidance. All monitoring data, methodology and the assessment criteria used to calculate borehole specific trigger levels for all down-gradient groundwater boreholes shall be compiled into a report and submitted to the Agency in writing for agreement. The report shall review the number and spacing of boreholes with regard to determining potential impacts from historic areas, particularly to the West of the site.</p> <p>The Operator shall implement any improvements or measures as approved in writing by the Environment Agency.</p>	16 February 2008
5	<p>The operator shall submit to the Agency site restoration details for approval in writing by the Agency to confirm that it is satisfied with the restoration proposals.</p>	16 November 2006
6a	<p>The operator shall submit in writing to the Agency for approval the name of a List II substance that will be monitored for in groundwater monitoring boreholes. The List II substance chosen shall not have levels recorded above Drinking Water Standards.</p>	1 month from date of variation GP3035UD
6b	<p>The operator shall submit in writing borehole specific trigger levels to the Agency for approval, following 12 consecutive months of monitor for the List II substance agreed with the Agency by way of improvement condition 6a. Once agreed the revised trigger levels shall be read as part of Table S4.2.</p>	13 months from date of variation GP3035UD

SCHEDULE 3 - CONDITIONS TO BE ADDED

No conditions to be added.

END OF VARIATION