ENVIRONMENT AGENCY

Template Permit for the Landfill Sector

Permit with introductory note

Pollution Prevention and Control (England and Wales) Regulations 2000
Landfill (England and Wales) Regulations 2002

Rookery Farm Landfill Site
Raymond Brown Eco-Bio Limited
Botley Road
Swanwick
Fareham
Hampshire
SO31 1BL

Permit number

MP 3239 BR

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Introductory note

This introductory note does not form a part of the Permit

The following Permit is issued under Regulation 6 of the Landfill (England and Wales) Regulations 2002 (S.I.2002 No.1559) ("the Landfill Regulations") and Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No.1973), as amended, ("the PPC Regulations") to operate an installation carrying out activities covered by the description in Section 5.2 A(1)(b) in Part 1 to Schedule 1 of the PPC Regulations, to the extent authorised by the Permit: i.e.

The disposal of waste in any other landfill to which the Landfill Regulations apply.

There may be some activities on the installation to which BAT applies because they are not Landfill activities. Therefore, in some sections of the Permit conditions require the Operator to use Best Available Techniques (BAT), in each of the aspects of the management of the installation, to prevent and where that is not practicable to reduce emissions. The conditions do not explain what is BAT. In determining BAT, the Operator should pay particular attention to the appropriate Horizontal guidance and other relevant guidance.

A non-technical description of the installation is given in the Application, but the main features of the installation are as follows:

Rookery Farm landfill site is located approximately 0.5 km west of Swanwick, Hampshire at NGR SU 511 092. Access to the main highway network is provided by the A3051 which passes to the east of the site and provides a link to the M27. The installation area comprises an area of approximately 18 hectares. Landfilling operations comprise the progressive infilling and levelling of approximately 14.87 hectares of agricultural land with imported material and final restoration to agricultural land.

The site lies within an area of mixed land use, including residential, industrial and commercial premises and agricultural and recreational areas. It is bounded to the south by the M27 motorway and to the east by Botley Road. To the north it is bounded for the most part by agricultural land and otherwise, towards the north-west corner, by the rear gardens of residential properties fronting Swanick Lane, a narrow road leading off Botley Road. The western boundary comprises further agricultural land.

The site represents the head of a spring fed valley, draining to the south-west. The buildings of Rookery Farm and a small pond lie towards the northern boundary. A stream running out of the pond has been diverted to the north of the landfill area.

Planning permission for the site was granted in 1987and Waste Management Licence No. EAWML 19941 was issued in May 1995 permitting the disposal of inert wastes at the site. It is proposed to continue infilling inert wastes at the site. The waste to be accepted under the permit, which includes soils, clays and materials from construction and demolition projects, will be subject to waste acceptance criteria to ensure that only inert material, as defined by the Landfill Regulations 2002, is disposed of at the site. The estimated remaining void at the installation is approximately 1.0 million m^3. The site is expected to operate for another 15-20 years.

There is no engineered liner but the landfilled wastes are confined at the base and sides of the site by low permeability in situ London Clay. Site investigation data and information from literature infer that at least 75 m of clay remains beneath the base of the site. Permeability tests show this clay to have a maximum permeability of 1×10^{-9} m/s. The site is operated in a series of cells numbered 1 to 5. Cell 1 has ceased taking waste and has been restored or is currently being restored. The current working area is Cell 2. The maximum annual waste input will be 99,450 tonnes.

A Hydrogeological Risk Assessment (HRA) has been completed to assess the risk of polluting substances discharging to groundwater from the waste. The HRA concludes that the site is considered to be compliant with the relevant sections of the Landfill Regulations 2002 and the Groundwater Regulations 1998. The HRA proposes monitoring schedules for surface water and groundwater. Leachate monitoring is not required at Rookery Farm, since the site will only accept strictly inert waste.

Rainwater entering the site is currently pumped via a series of wells along the southern embankment to the top of the site, where it disperses into a pond. The surface water management system consists of a number of streams/ditches around the site.

As the site only accepts inert waste, landfill gas will not be produced.

Solent Maritime cSAC lies approximately 1.4 km to the west and north west of the installation boundary and Solent and Southampton Water SPA lies approximately 1.5 km to the south of the installation. Accordingly, an Appendix 11 form has been completed for the site.

Upper Hamble Estuary and Woods and Lincegrove & Hackett's Marshes SSSIs are located at distances of 1338 m and 1758 m from the installation, respectively. Accordingly a CROW Assessment Appendix 4 form was completed.

To give a Notification under condition 5.1.1, the Operator should use the Incident Hotline telephone number (0800 80 70 60) or any other number notified in writing to the Operator by the Agency for that purpose.

Status Log

Detail	Dates	
Application MP3239BR	Received 09/11/04	
Response to request for information	Request dated 12/05/05	Response (part 1) dated 01/06/05
Response to request for information	Request dated 12/05/05	Response (part 2) dated 04/08/05
Permit determined	*09-11-05*	

End of Introductory Note.

Note that the Permit requires the submission of certain information to the Agency (see Sections 4 and 5). In addition, the Agency has the power to seek further information at any time under regulation 28 to the PPC Regulations provided that it acts reasonably.

Other PPC Permits relating to this installation		
Permit holder	**Permit Number**	**Date of Issue**
Not Applicable		

Superseded Licences/Authorisations/Consents relating to this installation		
Holder	**Reference Number**	**Date of Issue**
Raymond Brown Eco Bio Limited	EAWML 19941 – Part I	11/05/95

Other non-PPC activities may take place on the site of this installation which are not regulated under this Permit or any other PPC Permit. These are listed in the Table below. These activities include:

Other existing Licences/Authorisations/Registrations relating to this site		
Holder	**Reference Number**	**Date of Issue**
Raymond Brown Eco Bio Limited	EAWML 19941 – Part II	11/05/95

Public Registers

Considerable information relating to Permits including the Application is available on public registers in accordance with the requirements of the PPC Regulations. Certain information may be withheld from public registers where it is commercially confidential or contrary to national security.

Variations to the Permit

This Permit may be varied in the future (by the Agency serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, it must submit a formal Application. The Status Log within the Introductory Note to any such Variation Notice will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the Permit

Before this Permit can be wholly or partially surrendered, an Application to surrender the Permit has to be made by the Operator. For the application to be successful, the Operator must be able to demonstrate to the Agency that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the Permit or part of the Permit

Before the Permit can be wholly or partially transferred to another person, an Application to transfer the Permit has to be made jointly by the existing and proposed holders. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the installation or will not comply with the conditions of the transferred Permit. As the Permit authorises the carrying out of a specified waste management activity, the transfer will only be allowed if the proposed holder is also considered to be "a fit and proper person" as required by the PPC Regulations.

Talking to us

Please quote the Permit Number if you contact the Agency about this Permit.

To give a Notification under condition 5.1.1, the Operator should use the Incident Hotline telephone number (0800 80 70 60) or any other number notified in writing to the Operator by the Agency for that purpose.

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Permit determined		

End of Introductory Note.

ENVIRONMENT AGENCY

Permit

Permit number
MP3239BR

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973), and Regulation 6 of the Landfill (England and Wales) Regulations 2002 (SI 2002 No.1559) hereby authorises **Raymond Brown Eco-Bio Limited** ("the Operator"),

whose Registered Office (or principal place of business) is
160 Christchurch Road
Ringwood
Hampshire
BH24 3AR

Company registration number 03601649

to operate an installation at
Rookery Farm Landfill Site
Botley Road
Swanwick
Fareham
Hampshire
SO31 1BL

to the extent authorised by and subject to the conditions of this Permit.

The landfill authorised by this Permit is for the disposal of inert waste

Signed	Date
P Butler	9/11/2005

Paul Butler

Authorised to sign on behalf of the Agency

Conditions

1. General

1.1 Permitted Activities

1.1.1 The Operator is authorised to carry out the activities and the directly associated activities specified in Table 1.1.1.

Table 1.1.1

Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
Section 5.2Part A (1) (b)The disposal of waste in a landfill.	Landfill for inert waste (landfill classification under the Landfill Regulations 2002)	Receipt, handling, storage and disposal of inert wastes, consisting of the types and quantities specified in Table 2.1.2, as an integral part of landfilling.
Associated Activity		
Water discharges to controlled waters	Discharge of site drainage from the landfill.	From surface water management system via the settlement pond to point of entry to controlled waters
Fuel, oil and chemical storage	Storage of fuel, oil and chemicals for operation of plant and equipment	From storage tank/ bowser to point of discharge/ disposal off site.
Storage of non-conforming waste	Storage of non-compliant waste e.g. paper plastic, wood and metal.	A skip or similar container shall be made available for non-conforming waste. The skip shall be removed from site once full and taken to a licensed facility for disposal, or recovery where appropriate.

1.1.2. Where waste on site is subjected to activities that are not subject to the permit but are controlled under the Waste Management Licensing Regulations 1994 then the area of the installation on which these activities take place shall be clearly identified and such waste shall be kept separate from the waste activities authorised by this permit. A record shall be kept of where such activities are conducted.

1.2 Site

1.2.1 The activities authorised under condition 1.1.1 shall not extend beyond the Site, being the land shown edged in red on the Site Plan at Schedule 5 to this Permit.

1.3 Overarching Management Condition

1.3.1 Without prejudice to the other conditions of this Permit, the Operator shall implement and maintain a written management system and organisational structure and allocate resources that are sufficient to achieve compliance with the limits and conditions of this Permit.

1.4 Improvement Programme

1.4.1. **The Operator shall complete the improvements specified in Table 1.4.1 by the date specified in that table and shall send written notification of the date of completion of each requirement to the Agency on submission or within 14 days of the completion of each such requirement.**

Table 1.4.1: Improvement programme requirements

Reference	Requirement	Date
1a	The Operator shall calculate and submit to the Agency for approval, a report identifying and justifying control and trigger levels for carbon dioxide and methane from perimeter boreholes R100/006, R100/007 and R100/008, calculated in accordance with the Environment Agency document 'Guidance on the Management of Landfill Gas' (September 2004).	Within 3 months of issue of the Permit.
1b	The Operator shall provide to the Agency for approval, proposals for the installation of appropriate in-waste gas monitoring boreholes, in accordance with the Environment Agency document 'Guidance on the Management of Landfill Gas' (September 2004).	Within 1 month of issue of the Permit.
1c	Following submission of this information, the Operator shall undertake any measures agreed in writing by the Agency	To the timescale indicated in the agreement
2	The Operator shall undertake and submit to the Agency for their approval, a quantitative particulate matter risk assessment. If deemed necessary, based on the results of the assessment, they shall develop a Particulate Matter Monitoring and Action Plan, in accordance with the Agency guidance 'Monitoring of Particulate Matter in Ambient Air around Waste Facilities' (M17).	Within 8 months of issue of the Permit.
3a	The Operator shall calculate and submit to the Agency for approval, a report identifying and justifying control and trigger levels for surface water, for the parameters listed in Permit Table 2.10.13, calculated in accordance with the Environment Agency's document' Monitoring Landfill Leachate, Groundwater and Surface Water'. The control and trigger levels should be based on at least the 12 data sets for each monitoring location.	Within 6 months of issue of the Permit.
3b	The Operator shall provide a revised compliance action plan for surface water quality.	Within 6 months of issue of the Permit.
4	The Operator shall provide and submit to the Agency for approval, a Stability Risk Assessment for the site in accordance with the Environment Agency's template for producing Stability Risk Assessments and with reference to the Environment Agency's guidance document "Stability of Landfill Lining Systems". No waste shall be deposited in any area where waste deposit has not yet commenced, after the issue of this Permit, until this improvement condition has been satisfied.	Within 1 month of issue of the Permit.

5a	The Operator shall calculate and submit to the Agency for approval, a report identifying and justifying control and trigger levels for ammoniacal nitrogen, chloride and nickel in groundwater, calculated in accordance with the Environment Agency's document' Monitoring Landfill Leachate, Groundwater and Surface Water'. The control and trigger levels should be based on at least 12 data sets for each monitoring location.	Within 10 months of issue of the Permit.
5b	The Operator shall provide a revised compliance action plan for groundwater quality.	Within 10 months of issue of the Permit.
6	The Operator shall submit to the Agency for their approval, proposals for the installation of replacement perimeter groundwater/gas monitoring boreholes, for R100/008 and R100/007, for use once landfilling progresses to Cells 3 and 4.	Within 1 month of issue of the Permit.

1.4.2. Where the Operator fails to comply with any requirement by the date specified in Table 1.4.1 it shall send written notification of such failure to the Agency within 14 days of such date.

1.5 Minor Operational Changes

1.5.1 The Operator shall seek the Agency's written agreement to any minor operational changes under condition 2.1.1 of this Permit by sending to the Agency: written notice of the details of the proposed change including an assessment of its possible effects (including waste production) on risks to the environment from the Permitted Installation; any relevant supporting assessments and drawings; and the proposed implementation date.

1.5.2 Any such change shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation in accordance with that change, and relevant provisions in the Application shall be deemed to be amended.

1.5.3 When the qualification "unless otherwise agreed in writing" is used elsewhere in this Permit, the Operator shall seek such agreement by sending to the Agency written notice of the details of the proposed method(s) or techniques.

1.5.4 Any such method(s) or techniques shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation using that method or technique and relevant provisions in the Application (and the Site Protection and Monitoring Programme, as the case may be) shall be deemed to be amended.

1.6 Pre-Operational Conditions

1.6.1 No condition applies

1.7 Off-site Conditions

1.7.1 There are no off-site conditions.

2. Operating conditions

2.1 Landfilling Controls

2.1.1 The Permitted Installation shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Table 2.1.1, or as otherwise agreed in writing by the Agency in accordance with conditions 1.5.1 and 1.5.2 of this Permit.

Table 2.1.1: Operating techniques

Description	Parts	Date Received
Application	All	09/11/2004
Response to request for further information; letter dated 01 June 2005.	All	02/06/2005

2.1.2 The non-landfill activities of the Permitted Installation shall, subject to the other conditions of this Permit, be operated using the techniques and in the manner described in the Site Protection and Monitoring Programme submitted under condition 4.1.7 of this Permit (as amended from time to time), or as otherwise agreed in writing by the Agency.

2.1.3 Wastes shall only be accepted for disposal on the site if they are listed in Schedule 6, all relevant waste acceptance procedures have been completed and the waste is in the 'category or type' permitted in table 2.1.2 below;

Table 2.1.2 : Wastes accepted for disposal	
Waste Category or Type	**Permitted or not Permitted**
Hazardous	Not Permitted
Non-hazardous	Not Permitted
Inert	Permitted
Liquid wastes (including waste waters but excluding sludge).	Not Permitted
Waste which in the conditions of landfill is explosive, corrosive, oxidising, highly flammable or flammable.	Not permitted
Hospital and other clinical infectious wastes from medical or veterinary establishments.	Not permitted
Chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown.	Not permitted
Whole used tyres (other than tyres used as engineering materials, bicycle tyres and tyres with an outside diameter of more than 1400mm.	Not permitted
Shredded used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm.	Not Permitted
Any waste which does not fulfil the relevant waste acceptance criteria.	Not Permitted
Waste which has been diluted or mixed solely to meet the relevant waste acceptance criteria.	Not Permitted
Wastes which have not been treated, except for: inert wastes for which treatment is not technically feasible; or it is waste other than inert waste and treatment would not reduce its quantity or the hazards which it poses to human health or the environment.	Not Permitted

And

2.1.2.1 The operator of the landfill shall visually inspect the waste at the entrance to the landfill and at the point of the deposit and shall satisfy himself that it conforms to the description provided in the documentation submitted by the holder. Any waste which does not conform with the description provided, shall be refused and the Agency notified in accordance with condition 5.1.1

2.1.2.2 All waste approved under condition 2.1.2 shall be characterised in accordance with Regulations to meet Waste Acceptance Criteria and Procedures. The operator shall provide written confirmation to the Agency, in the quarterly report required by condition 4.1.8, that such characterisation has been undertaken. Any information provided under this condition shall be included within the annual report required by condition 4.1.3.

2.1.2.3 The operator shall ensure that where representative samples are taken for analysis they are taken in accordance with Regulations, to meet Waste Acceptance Criteria and Procedures. The samples taken shall be retained for at least one month and results of any analysis for at least one year.

2.1.3 The operator on accepting each delivery of waste shall provide a written receipt to the person delivering it.

2.1.4 The operator shall ensure that the landfill is secured to prevent free access to the site and the gates of the landfill must be locked outside operating hours.

2.1.5 The total quantity of waste that shall be deposited in the landfill shall not exceed 1,050,000 tonnes.

2.1.6 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in Table 2.1.3 below.

Table 2.1.3 Annual Waste Input Limits

Category	Limit Tonnes/ Year
Inert Waste	99,450

2.1.7 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, origin, date of delivery, the identity of the producer (or in the case of municipal waste (as defined by the Landfill Regulations), the collector) of any waste that is received for disposal or recovery at the Permitted Installation.

2.2 Emissions

2.2.1 Emissions to Air, (excluding Odour, Noise or Vibration) from Specified Points

2.2.1.1 Part 2.2.1 of this Permit shall not apply to releases of odour, noise or vibration.

2.2.1.2 There are no specific controls imposed upon emissions to air in Part 2.2.1 of this Permit. Controls on such emissions are included in Parts 2.2.4, 2.2.6 and 2.2.7.

2.2.1.3 No condition applies.

2.2.2 Emissions to water (other than groundwater), from specified points

2.2.2.1 This Part 2.2.2 of this Permit shall not apply to releases of odour, noise or vibration or to releases to groundwater.

Emissions to Water (other than to Sewer)

2.2.2.2. Conditions 2.2.2.3-6 shall not apply to emissions to sewer.

2.2.2.3 Emissions to water from the emission point(s) specified in Table 2.2.4 shall only arise from the source(s) specified in that Table.

Table 2.2.4: Emission point to water

Emission Point Reference and/or location description	Source	Receiving Water
R100/005, shown on Drawing No. RB-EB/ROO/PPC/DESID/08.	Surface water collection system (including water pumped from dewatering wells).	Channel in the southwest corner of the site, which discharges under the motorway into an unnamed stream.

2.2.2.4 The limits for the emissions to water for the parameter(s) and emission point(s) set out in Table 2.2.5 shall not be exceeded.

Table 2.2.5 : Emission limits to water and monitoring

Emission point reference	Parameter	Limit	Monitoring frequency
R100/005, shown on Drawing No. RB-EB/ROO/PPC/DESID/08.	Suspended solids	45 mg/l	Quarterly
	Ammoniacal nitrogen	1 mg/l	Quarterly
	Chloride	125 mg/l	Quarterly
	Oil and grease	No visible traces	Quarterly
	Nickel	50 µg/l	Quarterly
	Arsenic	50 µg/l	Quarterly
	Cadmium	5 µg/l	Quarterly
	Antimony	5 µg/l	Quarterly
	Mercury	1 µg/l	Quarterly
	pH		Quarterly

2.2.2.5 Where a substance is specified in Table 2.2.5 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration

2.2.2.6 No condition applies

Emissions to sewer

2.2.2.7 No emissions from the permitted installation shall be made to sewer.

2.2.3. Emissions to groundwater

2.2.3.1 No emission from the Permitted Installation shall give rise to the introduction into groundwater of any substance in List I (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).

2.2.3.2 No emission from within the Permitted Installation shall give rise to the introduction into groundwater of any substance in List II (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)) so as to cause pollution (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).

2.2.3.3. For substances other than those in List I or II (as defined in the Groundwater Regulations 1998 (SI 1998 No.2746)), the Operator shall ensure that all appropriate measures are taken to prevent or where that is not practicable to reduce emissions to groundwater from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application.

2.2.3.4 The trigger levels for emissions into groundwater for the parameters and monitoring points set out in Table 2.2.8 shall not be exceeded.

Table 2.2.8 Groundwater monitoring and Trigger Levels

Monitoring point reference/description	**Parameter**	**Frequency**	**Trigger Level** [1]
Boreholes R100/006, R100/007 and R100/008, shown on Drawing No. RB-EB/ROO/PPC/DESID/08.	Water level	Quarterly	None set
	Ammoniacal nitrogen		0.15 mg/l
	Chloride		35 mg/l
	Nickel		20 mg/l
	pH		None set
	Electrical conductivity		
	Temperature		
	Sodium		
	Potassium		
	Alkalinity		
	Calcium		
	Manganese		
	Magnesium		
	Sulphate		
	Nitrate		
	Nitrite		
	TON		
	Iron		
	Zinc		
	Cadmium		
	Lead		
	Chromium		
	Copper		
	List I suite	Annually	Minimum Reporting Values (MRVs)

(1) Once approved through Condition 1.4.1 Improvement Programme Items5a and 5b, Table 2.2.8 shall be read as if it contained the values approved in accordance with those improvement conditions.

2.2.3.5 Subject to the terms of this condition, the activities of disposal, or tipping for the purpose of disposal, of waste, that are authorised by this landfill permit shall cease 3½ years from date of issue of this Permit, unless by that date the operator has submitted to the Agency a written review of the Hydrogeologocal Risk Assessment submitted as part of the original Application for the permit.

The Risk Assessment review shall include a review of the responses in Section 1.2.1 to 1.2.10 of Part B of that original application. The written review shall show whether at the specified date, the level of risk to groundwater meets the terms of the Groundwater Regulations 1998.

Within six months of receipt of the written review the Agency shall reply in writing to the operator either confirming that the above requirements have been met and authorising continuation of disposal activities or that activities of disposal or tipping for the purpose of disposal of waste authorised by this permit shall cease until the operator can show that, the level of risk to groundwater meets the terms of the Groundwater Regulations 1998.

In the event that the continuation of activities is authorised in accordance with this condition beyond 4 years following the date of granting of this Permit, they shall cease on every fourth anniversary thereafter, unless, by each of those dates, the operator has submitted to the Agency a further written review of the Hydrogeological Risk Assessment which shows that, at the specified dates, the level of risk to groundwater meets the terms of the Groundwater Regulations.

The reviews submitted to the Agency shall include the results of any investigations and reviews carried out, and, in particular, reviews of the following aspects of the Hydrogeological Risk Assessment:

Recommendations of the essential technical precautions which must be taken, paying particular attention to the nature and concentration of the substances present in the matter being disposed of or tipped, the characteristics of the receiving environment and the proximity of the water catchment areas, in particular those for drinking, thermal and mineral water;

Recommendations of the technical precautions necessary:

i In the case where groundwater is considered to be permanently unsuitable for other uses, to ensure that no substance in list I can reach other aquatic ecosystems or harm other ecosystems, to ensure that the presence of any list I substance once discharged into the groundwater will not impede exploitation of ground resources and to prevent pollution of groundwater by list II substances; and

ii in the case where groundwater is <u>not</u> considered to be permanently unsuitable for other uses, to prevent any discharges into groundwater of substances in list I and to prevent any pollution of groundwater by substances in list II.

2.2.4 Fugitive emissions of substances to air

2.2.4.1 The Operator shall ensure that all appropriate measures are taken to prevent or where that is not practicable to reduce fugitive emissions of substances to air from the Permitted Installation in particular from:

- open surfaces, unfilled, operational and filled landfill surfaces
- storage areas
- buildings
- pipes, valves and other transfer systems

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.4.2 The Operator shall use all appropriate measures so as to prevent or where that is not practicable to reduce emissions of, litter and particulate matter from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.5 Fugitive emissions of substances to water and sewer

2.2.5.1 Subject to condition 2.2.5.2 below, the Operator shall ensure that all appropriate measures are taken to prevent or where that is not practicable to reduce fugitive emissions of substances to water (other than Groundwater) from the Permitted Installation in particular from:

- all structures under or over ground
- surfacing
- bunding
- storage areas

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.5.2 There shall be no release to water that would cause a breach of an EQS established by the UK Government to implement the Dangerous Substances Directive 76/464/EEC.

2.2.6 Odour

2.2.6.1 The Operator shall ensure that all appropriate measures, including BAT, are taken to prevent or where that is not practicable to reduce odorous emissions from the Permitted Installation, in particular by:

- controlling operational activities to minimise the generation of odour
- limiting the use of odorous materials
- restricting odorous activities
- controlling the storage conditions of odorous materials
- optimising the performance of abatement systems
- timely monitoring, inspection and maintenance
- employing, where appropriate, an approved odour management plan

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.7 Emissions to Land

2.2.7.1 This Part 2.2.7 of this Permit shall not apply to emissions to groundwater.

2.2.7.2 No emission from the Permitted installation shall be made to land.

2.2.7.3 The Operator shall notify the Agency, as soon as reasonably practicable, of any information concerning the state of the Site which affects or updates that provided to the Agency as part of the Site Report submitted with the application for this Permit

2.3 Management and Fit and Proper Person

2.3.1 A copy of this Permit and those parts of the application referred to in this Permit shall be available, at all times, for reference by all staff carrying out work subject to the requirements of the Permit.

Training

2.3.2 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.

2.3.3 All staff shall be fully conversant with those aspects of the Permit conditions which are relevant to their duties and shall be provided with adequate professional technical development and training and written operating instructions to enable them to carry out their duties.

2.3.4 The Operator shall maintain a record of the skills and training requirements for all staff whose tasks in relation to the Permitted Installation may have an impact on the environment and shall keep records of all relevant training.

Maintenance

2.3.5 All plant and equipment used in operating the Permitted Installation, the failure of which could lead to an adverse impact on the environment, shall be maintained in good operating condition.

2.3.6 The Operator shall maintain a record of relevant plant and equipment covered by condition 2.3.5 and for such plant and equipment:

2.3.6.1 a written or electronic maintenance programme; and

2.3.6.2 records of its maintenance.

Incidents and Complaints

2.3.7 The Operator shall maintain and implement written procedures for:

2.3.7.1 taking prompt remedial action, investigating and reporting actual or potential non-compliance with operating procedures or emission limits and if such event occur;

2.3.7.2 investigating incidents, (including any malfunction, breakdown or failure of plant, equipment or techniques, down time, any short term and long term remedial measures and near misses) and prompt implementation of appropriate actions; and

2.3.7.3 ensuring that detailed records are made of all such actions and investigations.

2.3.8 The Operator shall record and investigate complaints concerning the Permitted Installation's effects or alleged effects on the environment. The record shall give the date and nature of complaint, time of complaint, name of complainant (if given), a summary of any investigation and the results of such investigation and any actions taken.

Fit and Proper Person

2.3.9 Where Regulation 4 of the Regulations applies to a relevant activity/ associated activity carried on at the Permitted Installation, as authorised under condition 1.1.1:

2.3.9.1 Any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence shall be submitted to the Agency in writing within 5 working days of the change in management. Technically competent management and technical competence shall be as prescribed under Section 74 of the Environmental Protection Act 1990.

2.3.9.2 In the event of the Operator and/or any relevant person being convicted of any relevant offence and which is in addition to any already notified to the Agency, then full details shall be provided to the Agency within 14 days of conviction, whether or not the conviction is subsequently appealed. Such details shall include , in respect of each relevant person (as defined in section 74(7) of the Environmental Protection Act 1990 or any subsequent amendments to that section), the nature of the offence, the place and date of conviction, any sentence, and any fine or other penalty imposed; and

2.3.9.3 In the event that the Operator and/or any relevant person lodges an appeal against any such conviction, the Operator shall notify the Agency of this within 14 days of the lodging. The Operator shall notify the Agency of the results of that appeal, within 14 days of the appeal being decided; and

2.3.9.4 The financial provision for meeting the obligations under this Permit set out in the Agreement made between the Operator and the Agency dated 9 November 2005 shall be maintained by the Operator throughout the subsistence of this Permit and the Operator shall produce evidence of such provision whenever required by the Agency.

2.3.10 The operator shall ensure that the charges it makes for the disposal of waste in the landfill covers all of the following

(a) the costs of setting up and operating the landfill;

(b) the costs of the financial provision required by condition 2.3.9.4; and

(a) the estimated costs for the closure and after-care of the landfill site for a period of at least 10 years from its closure.

2.4 Efficient use of raw materials

2.4.1 The Operator shall:

2.4.1.1 maintain the raw materials table or description submitted in response to Section 2.4 of the Application and in particular consider on a periodic basis whether there are suitable alternative materials to reduce environmental impact;

2.4.1.2 carry out periodic waste minimisation audits and water use efficiency audits. If such an audit has not been carried out in the 2 years prior to the issue of this Permit, then the first such audit shall take place within 2 years of its issue. The methodology used and an action plan for increasing the efficiency of the use of raw materials or water shall be submitted to the Agency within 2 months of completion of each such audit and a review of the audit and a description of progress made against the action plan shall be submitted to the Agency at least every 4 years thereafter; and

2.4.1.3 ensure that incoming water use is directly measured and recorded.

2.5 Waste Storage and Handling

2.5.1 No condition applies except as covered by the requirements in 2.1.1 [for the landfill part of the permitted installation]

2.5.2 The Operator shall design, maintain and operate all facilities for the storage and handling of waste within the non-landfill parts of the permitted installation such that there are no releases to water or land during normal operation and that emissions to air and the risk of accidental release to water or land are minimised.

2.6 Waste recovery or disposal

2.6.1 Waste produced at the Permitted Installation shall be recycled or recovered unless technically and/or economically impossible.

2.6.2 No condition applies

2.6.3 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, composition, origin, destination (including whether this is a recovery or disposal operation) and where relevant removal date of any waste that is produced at the Permitted Installation.

2.7 Energy Efficiency

2.7.1 No condition applies.

2.8 Accident prevention and control

2.8.1 The Operator shall maintain and implement when necessary the accident management plan submitted or described in response to Section 2.3.4 of the Application. The plan shall be reviewed at least every 2 years or as soon as practicable after an accident, whichever is the earlier, and the Agency notified of the results of the review within 2 months of its completion.

2.9 Noise and Vibration

2.9.1 The Permitted Installation shall be designed, operated and maintained using BAT for the non-landfill parts of the installation, so as to avoid reasonable cause for annoyance from noise or vibration, in particular by:

- equipment maintenance e.g. fans, pumps, motors, conveyors and mobile plant;
- use and maintenance of appropriate attenuation e.g. silencers, barriers, enclosures;
- timing and location of noisy activities and vehicle movements;
- periodic checking of noise emissions, either qualitatively or quantitatively; and
- maintenance of building fabric.

Provided always that the techniques used by the operator shall be no less effective than those described in the application, where relevant

2.10 On Site Monitoring

2.10.1 The Operator shall maintain and implement an emissions monitoring programme which ensures that emissions are monitored from the specified points, for the parameters listed in and to the frequencies and methods described in Tables 2.2.5 (water), 2.2.8 (groundwater), 2.10.11 (landfill gas), 2.10.12 (leachate level) and 2.10.13 (surface water) unless otherwise agreed in writing, and that the results of such monitoring are assessed. The programme shall ensure that monitoring is carried out under an appropriate range of conditions.

2.10.2 No condition.

2.10.3 No condition.

Noise

2.10.4 No condition.

Monitoring - General

2.10.5 The Operator shall notify the Agency at least 14 days in advance of undertaking monitoring and/ or spot sampling, where such notification has been requested in writing by the Agency.

2.10.6 The Operator shall maintain records of all monitoring taken or carried out (this includes records of the taking and analysis of samples instrument measurements (periodic and continual), calibrations, examinations, tests and surveys) and any assessment or evaluation made on the basis of such data.

2.10.7 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme in condition 2.10.1 of this Permit shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing.

2.10.8 There shall be provided:

2.10.8.1 safe means of access to enable sampling/monitoring to be carried out in relation to the emission points specified in Schedule 2 to this Permit, when required by the Agency unless otherwise specified in that Schedule; and

2.10.8.2 safe means of access to other sampling/monitoring points when required by the Agency.

2.10.9 The Operator shall carry out the on-going monitoring identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, unless otherwise agreed in writing by the Agency.

2.10.10 The Operator shall, within 6 months of the issue of this Permit, in accordance with and using the format given in the Land Protection Guidance:

2.10.10.1 collect the site reference data identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, and

2.10.10.2 report that site reference data to the Agency unless otherwise agreed in writing by the Agency.

Landfill Gas

2.10.11 The Operator shall carry out monitoring of the parameters listed in Table 2.10.11 at the specified monitoring points and at least at the frequencies specified in that table.

Table 2.10.11 Landfill gas monitoring and trigger levels

Monitoring point reference/description	Parameter	Trigger Level	Frequency
Perimeter Boreholes R100/006, R100/007 and R100/008, identified on Drawing No. DESID/08 'Environmental Management', any replacement perimeter boreholes installed in accordance with Condition 1.4.1 Improvement Item 6 and internal gas monitoring boreholes to be provided in accordance with Condition 1.4.1 Improvement Programme Item 1b.	Methane (% v/v)	1 % v/v (1)	Monthly
	Carbon Dioxide (% v/v)	1.5 % v/v (1)	Monthly
	Oxygen (% v/v)	N/A	Monthly
	Atmospheric Pressure (mb)	N/A	Monthly
	Temperature (°C)	N/A	Monthly
	Differential Pressure (mb)	N/A	Monthly
	Meteorological data	N/A	Monthly

(1) Above background concentrations; trigger levels to be provided in accordance with Condition 1.4.1 Improvement Programme Item 1a. Once approved through Condition 1.4.1 Improvement Programme Items1a, Table 2.10.11 shall be read as if it contained the values approved in accordance with that improvement condition.

Leachate

2.10.12 The leachate levels within the installation shall be monitored at monthly intervals at the locations identified in Table 2.10.12. The head of leachate shall not be permitted to exceed 1 metre above the base of the cells during the operational phase.

Table 2.10.12 Leachate monitoring

Monitoring point reference/description	Parameter	Frequency
5 dewatering wells located along southern flank of waste, as shown on Drawing No. RB-EB/ROO/PPC/DESID/08 'Environmental Management'.	Leachate level	Monthly

Surface Water

2.10.13 The Operator shall carry out monitoring of surface water quality at the monitoring points and for the parameters listed in Table 2.10.13 to the frequencies described in that Table.

2.10.14 The surface water trigger levels detailed in Table 2.10.14 shall apply.

Table 2.10.13 Surface water monitoring and trigger levels

Monitoring point reference/description	Parameter	Trigger Level	Frequency
Surface water monitoring points R100/001, R100/002, R100/003 and R100/004, as shown on Drawing No. RB-EB/ROO/PPC/DESID/08 'Environmental Management'.	pH Temperature Flow rate Electrical conductivity COD Dissolved oxygen Ammoniacal nitrogen Chloride Nickel Suspended solids	To be provided in accordance with Condition 1.4.1 Improvement Programme Item 3a.	Quarterly
Pond located on the north eastern boundary of the installation, as shown on Drawing No. RB-EB/ROO/PPC/DESID/08 'Environmental Management'.	As above, plus suspended solids	Not applicable	Quarterly

Note: Trigger levels for surface water monitoring point R100/005 are as detailed in Table 2.2.5.

2.11 Closure, Aftercare and Decommissioning

2.11.1 The Permitted Installation shall, subject to the conditions of this Permit, be managed and controlled as described in the documentation specified in Table 2.11.1, or as otherwise agreed in writing by the Agency.

Table 2.11.1: Closure, Aftercare and Decommissioning techniques

Description	Parts	Date Received
Application	The response to questions 2.11 in Part B of the application form and Section 9 of the Regulatory Specification.	09/11/2004

2.11.2 Where the above Table refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the later document(s) shall prevail to the extent of such conflict.

2.11.3 In respect of activities on the installation which are not Listed in Section 5.2 Part 1 A(1)(a) or (b) of Schedule 1 of the PPC Regulations, the Operator shall maintain and operate these activities so as to prevent or minimise any pollution risk, including the generation of waste, on closure and decommissioning in particular by:

- attention to the design of new plant or equipment;
- the maintenance of a record of any events which have, or might have, impacted on the condition of the site along with any further investigation or remediation work carried out.; and
- the maintenance of a site closure plan to demonstrate that the installation can be decommissioned avoiding any pollution risk and returning the site of operation to a satisfactory state.

2.11.4 Notwithstanding condition 2.11.1 of this Permit, the Operator shall carry out a full review of the Site Closure Plan at least every 4 years.

2.11.5 The Operator shall implement the site closure plan on receipt of a notice from the Agency approving definitive closure of the landfill or part thereof.

2.11.6 The Operator shall give at least 30 days written notice to the Agency before implementing the site closure plan in respect of any non-landfill activities.

2.12 Multiple Operator installations

2.12.1 This is not a multi-Operator installation

2.13 Transfer to effluent treatment plant

2.13.1 No transfer from the Permitted Installation shall be made to effluent treatment plant.

3 Records

3.1.1 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the Permitted Installation shall:

- be made available for inspection by the Agency at any reasonable time
- be supplied to the Agency on demand and without charge
- be legible
- be made as soon as reasonably practicable
- indicate any amendments which have been made and shall include the original record wherever possible; and
- be retained at the Permitted Installation, or other location agreed by the Agency in writing, for a minimum period of 4 years from the date when the records were made, unless otherwise agreed in writing.

4 Reporting

4.1.1 All reports and written and or oral notifications required by this Permit and notifications required by Regulation 16 of the PPC Regulations shall be made or sent to the Agency using the contact details notified in writing to the Operator by the Agency.

4.1.2 The Operator shall, unless otherwise agreed in writing, submit reports of the monitoring and assessment carried out, as follows:

- in respect of the parameters and emission and monitoring points specified in Schedule 2.
- for the reporting periods specified in Schedule 2 and using the forms specified in Table S3 to Schedule 3;
- giving the information from such results and assessments as may be required by the forms specified in those Tables; and
- to the Agency within 28 days of the end of the reporting period.

4.1.3 The Operator shall submit to the Agency a report on the performance of the Permitted Installation over the previous year, by 31 January each year, providing the information listed in Tables S4.1-2 of Schedule 4, assessed at any frequency specified therein.

4.1.4 The Operator shall review fugitive emissions, having regard to the application of the most appropriate measures to prevent pollution, on an annual basis, or such other period as shall be agreed in writing by the Agency, and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them within 3 months of the end of such period.

4.1.5 Where the Operator has a formal environmental management system applying to the Permitted Installation which encompasses annual improvement targets the Operator shall, not later than 31 January in each year, provide a summary report of the previous year's progress against such targets.

4.1.6 The Operator shall, within 6 months of receipt of written notice from the Agency, submit to the Agency a report assessing whether all appropriate preventive measures continue to be taken against pollution at the installation. The report shall consider any relevant published technical guidance current at the time of the notice which is either supplied with or referred to in the notice, and shall assess the costs and benefits of applying techniques described in that guidance, or otherwise identified by the Operator, that may provide environmental improvement

4.1.7 The Operator shall, within two months of the date of this permit, submit a detailed Site Protection and Monitoring Programme, in accordance with and using the appropriate template format given in the Land Protection Guidance. The Operator shall implement and maintain the Site Protection and Monitoring Programme (SPMP) submitted under this condition, and shall carry out regular reviews of it at a minimum frequency of every 2 years. The results of such reviews and any changes made to the SPMP shall be reported to the Agency within 1 month of the review or change.

4.1.8 The Operator shall review the monitoring results for waste characterisation, landfill gas, leachate, surface and groundwater against the relevant emission limits, assessment limits, control and trigger levels specified in the permit on a three monthly basis and shall submit a summary report of this review, to the Agency within one month of the end of each three month period.

4.1.9. The Operator shall review all monitoring data required by this permit on an annual basis and shall submit a summary report to the Agency within three months of the end of each year.

4.1.10 The Operator shall submit to the Agency a report setting out the types and quantities of waste disposed of at the landfill on a three monthly basis i.e. for the periods 1 April - 30 June; 1 July - 30 September; 1 October - 31 December and 1 January - 31 March, such report to be received within 1 month from the end of each period.

5 Notifications

5.1.1 The Operator shall notify the Agency without delay of:

5.1.1.1 the detection of an emission of any pollutant which exceeds any limit or criterion in this Permit specified in relation to the pollutant;

5.1.1.2 the detection of any fugitive emission which has caused, is causing or may cause significant pollution; unless the quantity emitted is so trivial that it would be incapable of causing significant adverse environmental effect;

5.1.1.3 the detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution;

5.1.1.4 any accident which has caused, is causing or has the potential to cause significant pollution;

5.1.1.5 the refusal to accept or rejection of incoming waste at the landfill, and

5.1.1.6 the detection of any significant adverse environmental effects

5.1.2 The Operator shall submit written confirmation to the Agency of any notification under condition 5.1.1, by sending:

5.1.2.1 information listed in Part A of Schedule 1 to this Permit within 24 hours of such notification; and

5.1.2.2 the more detailed information listed in Part B of that Schedule as soon as practicable thereafter; and such information shall be in accordance with that Schedule.

5.1.3 The Operator shall give prior written notification to the Agency of the following events and in the specified timescales:

5.1.3.1 as soon as practicable prior to the permanent cessation of the landfill disposal operations,

5.1.3.2 as soon as practicable prior to the cessation of the operation of the landfill disposal operations, for a period likely to exceed 1 month

5.1.3.3 at least 14 days prior to the resumption of the landfill disposal operations after a cessation

5.1.4 The Operator shall notify the Agency, as soon as practicable, of any information concerning the state of the site which affects or updates that provided to the Agency as part of the Site Report submitted with the application for this Permit.

5.1.5 The Operator shall notify the following matters to the Agency in writing within 14 days of their occurrence:

5.1.5.1 where the Operator is a registered company:

- any change in the Operator's trading name, registered name or registered office address;
- any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary)
- any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up;

5.1.5.2 where the Operator is a corporate body other than a registered company:

- any change in the Operator's name or address;
- any steps taken with a view to the dissolution of the Operator.

5.1.5.3 In any other case:

- the death of any of the named Operators (where the Operator consists of more than one named individual);
- any change in the Operator's name(s) or address(es);
- any steps taken with a view to the Operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case them being in a partnership, dissolving the partnership;

this Permit. It shall include any future amendments or superseding legislation

"Range of conditions" refers to environmental conditions, such that monitoring for example, for landfill gas is undertaken at a variety of atmospheric pressures (including when it is falling), water monitoring is undertaken in low and high flow conditions and at different times of the year, etc...

"Sewer" means sewer within the meaning of section 219(1) of the Water Industry Act 1991.

"Staff" includes employees, directors or other officers of the Operator, and any other person under the Operator's direct or indirect control, including contractors.

"Year" means calendar year ending 31 December.

6.1.2 Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

6.1.3 Unless otherwise stated, any references in this Permit to concentrations of substances in emissions into air means; the standards included in Environment Agency Guidance for Monitoring Enclosed Landfill Gas Flares or Guidance for Monitoring Landfill Gas Engine Emissions

6.1.4 Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the document(s) with the most recent date shall prevail to the extent of such conflict.

6 Interpretation

6.1.1 In this Permit, the following expressions shall have the following meanings:

"Application" means the application for this Permit, together with any response to a notice served under Schedule 4 to the PPC Regulations and any operational change agreed under the conditions of this Permit.

"background concentration" means such concentration of that substance as is present in:

- water supplied to the site; or
- where more than 50% of the water used at the site is directly abstracted from ground or surface water on site, the abstracted water; or
- where the Permitted Installation uses no significant amount of supplied or abstracted water, the precipitation onto the site, or
- groundwater quality up-gradient of the installation
- surface water quality up-gradient of the site

"BAT" means best available techniques means the most effective and advanced stage of development of activities and their methods of operation which indicates the practical suitability of particular techniques to prevent and where that is not practicable to reduce emissions and the impact on the environment as a whole. For these purposes: "available techniques" means "those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonably accessible to the operator"; "best" means "in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole" and "techniques" "includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned." . In addition, Schedule 2 of the PPC Regulations has effect in relation to the determination of BAT.

"Characterisation" as set out in Schedule 1 paragraph 5(5) of the of the Landfill (E&W) Regulations 2002 (SI:2002, No 1559) (as amended) and means gathering all necessary information for the safe disposal of the waste in the long term. The information required is at least that given in Schedule 1 paragraph 5(1) and 5(2) of the 2002 Regulations. Samples of waste to be characterised must be obtained using a sampling plan in accordance with PrEN 14899 and Agency Guidance on the Sampling and Testing of Wastes to meet Waste Acceptance Procedures

"Fugitive emission" means an emission to air or water (including sewer) from the Permitted Installation which is not controlled by an emission or background concentration limit under conditions 2.2.1.3, 2.2.2.4, 2.2.2.5, 2.2.2.8 or 2.2.2.9 of this Permit"

"Groundwater" means all water which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

"Interim Hazardous" means a landfill classified as hazardous until 16th July 2004

"The Landfill Regulations" means the Landfill (England and Wales) Regulations SI 2002 No. 1559, as amended by SI 2004 No 1375 and words and expressions defined in the Landfill Regulations shall have the same meanings when used in this Permit, save to the extent that they are specifically defined in this Permit. It shall include future amendments or superseding legislation

"Monitoring" includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

"Permitted Installation" means the activities and the limits to those activities described in Table 1.1.1 of this Permit.

"PPC Regulations" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 (as amended) and words and expressions defined in the PPC Regulations shall have the same meanings when used in this Permit save to the extent they are specifically defined in

Schedule 1 - Notification of abnormal emissions and significant adverse environmental effects

This page outlines the information that the Operator must provide to satisfy conditions 5.1.1 and 5.1.2 of this Permit.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part C refers specifically to the requirement to notify the Agency of any significant environmental effect as required by the Landfill Regulations and should be used instead of Part B to report such to the Agency.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the PPC Regulations.

Part A

Permit Number	
Name of Operator	
Location of Installation	
Location of the emission/ significant adverse environmental effect	
Time and date of the emission/ significant adverse environmental effect	

Substance[s] emitted	**Media**	**Best estimate of the quantity or the rate of emission**	**time during which the emission took place**
	e.g. air		
	e.g. groundwater		

Measures taken, or intended to be taken, to stop the emission	

Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission	
The dates of any unauthorised emissions from the installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Raymond Brown Eco-Bio Limited

PART C

Nature of significant adverse environmental effect (e.g. Groundwater Pollution, LFG escape)	
Immediate measures taken to prevent further effects from this source	
Further measures taken, **or intended to be taken, to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the significant adverse environmental effect**	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Raymond Brown Eco-Bio Limited

Schedule 2 - Reporting of monitoring data

Parameters, for which reports shall be made, in accordance with conditions 4.1.2 and 4.1.3 of this Permit, are listed below.

Table S2: Reporting of monitoring data

Table Reference	Parameter Types and Media	Reporting Period
Table 2.2.8	Groundwater Monitoring and Trigger Levels	Quarterly
Table 2.10.11	Landfill Gas Monitoring and Trigger Levels	Quarterly
Table 2.10.12	Leachate Monitoring	Quarterly
Table 2.10.13	Surface Water Monitoring and Trigger Levels	Quarterly

Annually
Calculation of remaining capacity in cubic metres accounting for settlement
Record of the structure and composition of the landfill body
Surveying of the settling behaviour of the landfill during the operating and after care phases
Volume and composition of waste deposited in the previous 12 months

Quarterly
Quantity of waste deposited
Ambient air monitoring

Monthly
Leachate levels as mAOD
Basal elevation as mAOD
Waste volume

1. Stable, permanent survey control stations shall be established and maintained for the control of all survey work around the site. The stations shall be referenced to Ordnance Survey National Grid co-ordinates, the grid alignment to be within +/-1 metre and levels referenced to Ordnance Datum. The accuracy of horizontal control shall not be less than 1:20 000. The level values of adjacent stations shall agree to less than or equal to 0.005 metres. No waste shall be accepted at the site until a schedule of descriptions, co-ordinates and level values of all control stations, together with details of Bench Marks used, has been submitted in writing to the Agency.

2. A topographic survey shall be carried out immediately before the start of filling of each phase or cell, at annual intervals (unless otherwise agreed in writing by the Agency), and at the completion of restoration. The scale shall adequately show surveyed features and be at least 1:1250. The surveys shall be sufficient to produce plans that include all roads, structures, boundaries, monitoring points and all other relevant site features. The results of the survey shall be presented as a plan, including the immediate neighbouring landform or an indication of that landform. Plan positions of ground features to be shown to within 1 metre. Spot levels to 0.01m shall be shown at significant landform changes to a density to adequately indicate the true landform, no greater than 50 metre interval in open areas of even gradient, closer when indicating embankments, stockpiles, etc.

Schedule 3 - Forms to be used

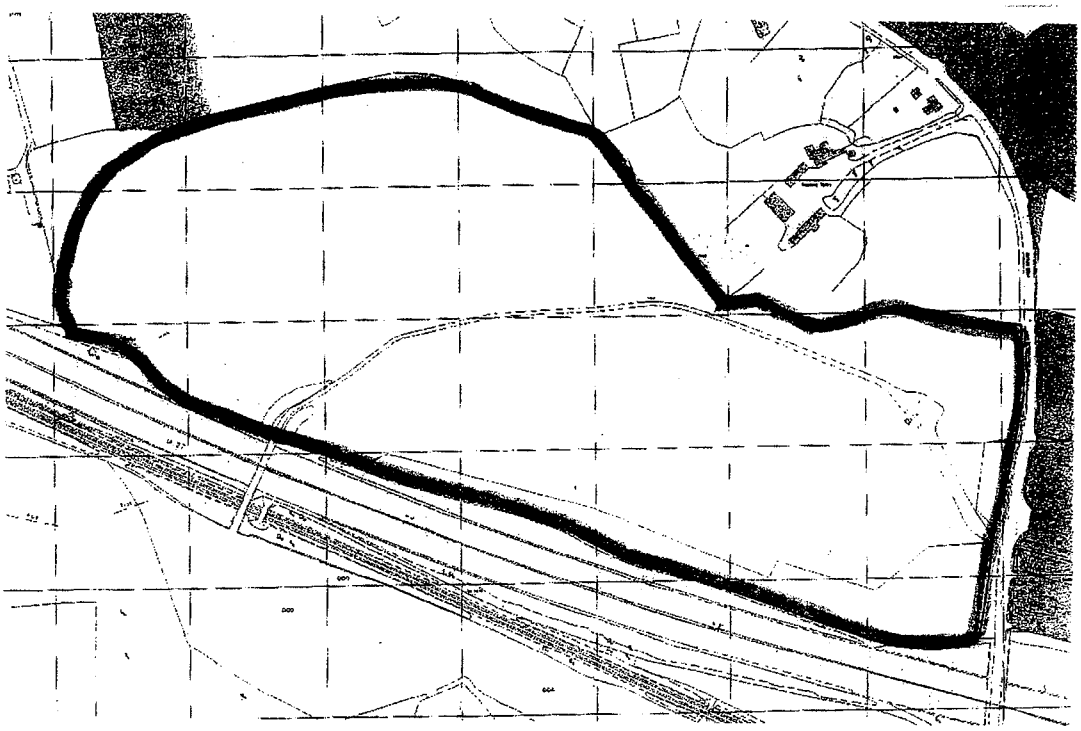
Table S3:Reporting Forms		
Media/parameter	**Form Number**	**Date of Form**
Controlled Water	W1	25/04/03
Surface Water	None Provided. Reporting format to be agreed in writing with the Agency	
Groundwater	None Provided. Reporting format to be agreed in writing with the Agency.	
Landfill Gas	None Provided. Reporting format to be agreed in writing with the Agency.	
Waste/Raw Material Return	WPPCS1	
Waste Summary	None provided. Reporting format to be agreed in writing with the Agency.	
Landfill Body	None provided. Reporting format to be agreed in writing with the Agency.	

Schedule 4 - Reporting of performance data

Table S4.1: Annual Production/Treatment	
Leachate: **Disposed of off site;** **Disposed of to any onsite effluent treatment plant.**	**Tonnes/year** **N/A**
Surface water and/ or groundwater: **Disposed of off site;** **Disposed of to any onsite effluent treatment plant.**	**N/A**
Landfill gas: **Disposed of by flare;** **Burnt in gas engine;** **Utilised by brickworks.**	**N/A**

Table S4.2: Performance parameters			
	Frequency of assessment	**Annual average**	
Potable water use	Annually		Cu m/tonne of waste disposed
Non potable water use	Annually		Cu m/tonne of waste disposed

Schedule 5 - Site Plan



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Schedule 6 - List of Permitted Wastes

EWC Code	Description	Physical Description
101103	Waste glass based fibrous materials	Solid
150107	Glass packaging	Solid
170101	Concrete	Solid
170102	Bricks	Solid
170103	Tiles and ceramics	Solid
170107	Mixtures of concrete, bricks, tiles and ceramics	Solid
170202	Glass	Solid
170504	Soil and stones	Solid
191205	Glass	Solid
200202	Soil and stones	Solid

END OF PERMIT