



**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

Newport City Council
Docks Way Area 2 Landfill
Docks Way
Maes Glas
Newport
Gwent
NP20 2NS

Permit number

DP3733BK

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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)(a) in Part 1 to Schedule 1 of the PPC Regulations, to the extent authorised by the Permit: i.e.

- (a) The disposal of waste in a landfill receiving more than 10 tonnes of waste in any day or with a total capacity of more than 25,000 tonnes, excluding disposals in landfills taking only inert waste.

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:

Docks Way Area 2 Landfill Site is located approximately 2.5km south of Newport, Gwent. The installation incorporates the landfill and a waste reception area with access roads.

The landfill is located on low lying former wasteland between the estuary of the River Ebbw and Newport Docks. Part of this land has been reclaimed from original course of the River Ebbw by a river diversion which has realigned the river to the west of the site. Docks Way Landfill Area 1, which is an existing landfill lies immediately to the north of this area and will be separated from Area 2 by an engineered cut-off barrier.

The installation has accepted no waste materials, though it is included as part of the existing Waste Management Licence area, EAWML/30058.

It is proposed to develop the landfill in a progressive manner with five principal cells dividing the 16 Ha site into cells of generally 30,000m². Each cell is a fully engineered containment cell with a natural geological barrier and an artificial sealing liner comprising a re-compacted mineral liner. No groundwater control systems are required as an unsaturated zone lies beneath the proposed formation. Leachate will be collected in a piped drainage blanket and abstracted for off-site treatment.

Surface water is collected from the installation in a series of interceptor drains which discharge into the River Ebbw.

Landfill gas will be managed at the site by means of future connection to the two gas engines (operated by Novera Energy Generation No2 Limited, under permit no LP3135SB) and a backup flare, which will require the operator to obtain a variation to this Permit. Whilst gas modelling requires connection to the extant flare in 2008 and the first gas engine in 2009, sacrificial 'Pin' wells will be installed within 12 months for temporary gas collection and disposal.

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
Newport City Council - Waste Management Licence	EAWML30058	03/06/1987

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
Newport City Council – Exemption from waste management licensing	WU1/001118	Paragraphs 12(i) & 12(ii)
Newport City Council – Exemption from waste management licensing	WU/001120	Paragraph 17
Newport City Council – Exemption from waste management licensing	WU/001119	Paragraphs 21(i) & 21(ii)

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.

Status Log

Detail	Dates	
Application DP3733BK	Received 9 November 2004	
Response to request for further information	Received 13 April 2005	Letter, dated 13 April 2005, and enclosures providing a response to the Schedule 4 Notice, dated 02 February 2005
Provision of further information by applicant	Received 26 April 2005	Erratum Notice reference Report No. A2/063
Request to extend determination	N/A	
Permit determined	14 October 2005	

End of Introductory Note.

Permit

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



**ENVIRONMENT
AGENCY**

Permit

Permit number
DP3733BK

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 **Newport City Council** ("the Operator"),

Of/ whose Registered Office (or principal place of business) is
**Civic Centre
Newport
Gwent
NP20 4UR**

to operate an installation at
**Docks Way (Area 2) Landfill
Docks Way
Maes Glas
Newport
Gwent
NP20 2NS**

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

The landfill authorised by this Permit is for the disposal of non-hazardous waste.

Signed	Date
	14 TH October 2005

Steven Morgan
Regulatory Waste Team Leader
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 5.2 Part A(1)(a): The disposal of waste in a landfill.	Landfill for non-hazardous waste (landfill classification under the Landfill Regulations 2002)	Receipt, handling, storage and disposal of non-hazardous wastes, consisting of the types and quantities specified in condition 2.1.2, as an integral part of landfilling.
<i>Associated Activity</i>		
Leachate Management	Storage of leachate in a facility, prior to off site disposal	Leachate arising from the Permitted landfill
Water discharges to controlled waters	Discharge of site drainage from the landfill.	From surface water management system to point of entry to controlled waters

- 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 green 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. There are no improvement conditions.

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 disposal of wastes shall take place in any part of the Permitted Installation
- identified for non hazardous waste

where waste deposit commences after the issue of this Permit unless:

- 1.6.1.1 at least 4 weeks prior to the commencement of construction of that part the operator has submitted to the Agency in writing the detailed design, material specifications, stability assessment and the construction quality assurance (CQA) programme for the pre-operational engineering of the:

- barriers,
- liners,
- leachate collection layer
- leachate abstraction system
- landfill gas management systems
- separation bund/ layer
- pipework (including but not restricted to pipework spacing)
- surface water drainage system
- boundary cut off, on drawing reference 14739/039/Fig 2 Rev A, dated 12/04/05

for that part and that it is confirmed in writing by the Agency that these are in conformance with the relevant specifications set out in section 2 of Part B of the Application and Table 1.6.1.1, including a system for validating that the standards given in Table 1.6.1.1 will be met, document reference A2/011 Rev A, any other specification agreed in writing by the Agency and any subsequent agreed change to the specification(s); and

Table 1.6.1.1	
Artificial Sealing liner (remoulded clay)	
Minimum thickness	1200mm
Maximum permeability	$1 \times 10^{-9} \text{ m.s}^{-1}$
Minimum Organic Carbon Fraction	0.2%
Leachate Collection Layer	
Minimum thickness of continuous unbroken gravel layer	500mm
Minimum Hydraulic Conductivity	$1 \times 10^{-4} \text{ m.s}^{-1}$
Pipework Spacing	Maximum 50 m

- 1.6.1.2 the operator has notified the Agency in writing of any changes in the detailed design, material specifications, stability assessment and the CQA programme that are to be made during the construction and in advance of those changes being made the Agency has agreed in writing that these are acceptable in relation to the relevant specifications set out in Part B of the Application, document reference A2/011 Rev A, any other specification agreed in writing by the Agency and any subsequent agreed changes under 1.6.1.1; and
- 1.6.1.3 the pre-operational engineering and infrastructure as listed in 1.6.1.1, have been completed and validated in accordance with the documented CQA procedures, and
- 1.6.1.4 the operator has submitted the validation report in writing to the Agency; and
- 1.6.1.5 the Agency has inspected the relevant part to ensure that it complies with the relevant conditions of the landfill permit, and has confirmed in writing that it has no objection to that part becoming operational.
- 1.6.1.6 a comprehensive assessment of strength gain due to clay consolidation has been made for the entire installation, submitted to the Agency and the Agency has agreed it in writing. The assessment shall consider drainage path lengths in the underlying strata and shall conclude with a table of maximum filling height during each operational year, including a full height/time graph.
- 1.6.1.7 a written method statement for the preparation and backfilling of the abandoned river channels has been submitted to the Agency and the Agency has agreed it in writing. The method statement shall detail how the works will be undertaken in a manner that will not compromise the very low factor of safety against uplift from groundwater pressure in the underlying gravels. Details shall be submitted for dewatering, de-silting and the placement and compaction of clay fill materials.
- 1.6.2 At least 4 weeks prior to the commencement of installation of a tank or other such containment, including associated structures and pipework, for the storage of leachate prior to off site disposal the operator shall submit to the Agency in writing the detailed design, material specifications and the construction quality assurance (CQA) programme for the installation of the tank or other such containment.
- 1.6.3 No leachate shall be stored in the tank or other such containment until:
- 1.6.3.1 the installation as listed in 1.6.2, has been completed and validated in accordance with the documented CQA procedures, and
- 1.6.3.2 the operator has submitted the validation report in writing to the Agency; and
- 1.6.3.3 the Agency has inspected the relevant part to ensure that it complies with the relevant conditions of the landfill permit, and has confirmed in writing that it has no objection to the tank or other containment becoming operational.

1.7 Off-site Conditions

- 1.7.1 The following off-site conditions apply:

- 1.7.1.1 No disposal of wastes shall take place in any part of the Permitted Installation unless the boundary cut off, shown on drawing reference 14739/039/Fig 2 Rev A, dated 12/04/05 has been installed, and the requirements of Conditions 1.6.1.1 to 1.6.1.5 inclusive have been met.
- 1.7.1.2 The boundary cut off components, on drawing reference 14739/039/Fig 2 Rev A, dated 12/04/05 shall be maintained to ensure that it is fit for purpose in the short, medium and long term. Maintenance records shall be kept.
- 1.7.1.3 Within 2 months of date of Permit issue, the gas monitoring boreholes on the Area/Phase 2 installation side of the boundary cut off, shown on drawing No. 14739/039/Fig 2 Revision A, document reference A2/063, shall be installed in line with Agency written approval.

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	The response to questions, 2.1, 2.2, 2.3, 2.4 and 2.5 in Part B of the Application Form and document reference A2/001, excluding drawing reference 14739/007/SK07 and document reference A2/004 Document reference A2/051: Section 22 – extracts from Working Plant [sic Plan] – amenity management and monitoring and control of mud and debris	9 November 2004
Letter, dated 13 April 2005, providing a response to the Schedule 4 Notice, dated 2 February 2005	Letter and attachments, document containing responses to each question, document references A2/001 Rev A, A2/002 Rev A, A2/003 Rev A, A2/004 Rev A, A2/011, A2/012 Rev A, A2/063, A2/064, A2/065, A2/066, A2/067, A2/068, A2/070.	13 April 2005
Erratum Notice	Reference Report No. A2/063 – entire notice	26 April 2005
Drawing reference Number FIGURE 1 title Docksway Landfill Masterplan Area 2 dated 10/08/05 showing the definitive installation boundary	All	15 August 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	Re-permitted Landfill
	Permitted or not Permitted
Hazardous	Not Permitted
Non-hazardous	Permitted
Stable non-reactive hazardous	Not Permitted
Asbestos and construction materials containing asbestos	Not Permitted
Gypsum (and other high sulphate bearing waste)	Not Permitted
Inert	Permitted
Liquid wastes (including waste waters but excluding sludge).	Permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
Waste which in the conditions of landfill is explosive, corrosive, oxidising, highly flammable or flammable.	Not permitted unless non-hazardous when permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
Hospital and other clinical infectious wastes from medical or veterinary establishments.	Not permitted unless non-hazardous when permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
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 unless non-hazardous when permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
Whole used tyres (other than tyres used as engineering materials, bicycle tyres and tyres with an outside diameter of more than 1400mm).	Permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007

[Table continued overleaf]

Table 2.1.2 : Wastes accepted for disposal	
Waste Category or Type	Re-permitted Landfill
	Permitted or not Permitted
Shredded used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm.	Permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
Any waste which does not fulfil the relevant waste acceptance criteria.	Permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
Waste which has been diluted or mixed solely to meet the relevant waste acceptance criteria.	Permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
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.	Permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007

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 1,190,000 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
Hazardous Waste	0
Non-hazardous Waste	90,000
Stable, non-reactive hazardous waste	0
Inert Waste	13,500
Inert Waste for restoration of closed areas	0

- 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.
- 2.1.8 No condition applies.
- 2.1.9 Within 6 months of Permit issue The Operator shall submit to the Agency contingency plans for use in the event of flooding Incidents at the site. In drawing up the contingency plan the operator shall undertake an assessment of the flooding risk, to be based on a quantitative assessment based on flood river levels for the River Ebbw, relative to the proposed landfill perimeter bund height, and assessment of the strength and design of the perimeter bunds to resist deterioration in integrity during flood events.
- 2.1.10 In accordance with Condition 1.6.1.6, the rate of filling shall not exceed the waste height/time limit identified in the assessment agreed in writing by the Agency.
- 2.1.11 Within 2 months of Permit issue the Operator shall submit to the Agency a justified proposal for installation of additional groundwater monitoring boreholes, with maximum borehole separation of 100m, to reflect the variation in groundwater flow direction across the installation caused by tidal influences, with reference to Agency guidance document 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water' LFTGN02. This shall include borehole location(s) and borehole design specification.
- 2.1.12 In accordance with Condition 2.1.11, within 6 months of date of Permit issue the groundwater monitoring boreholes shall be installed in line with Agency written approval.
- 2.1.13 In accordance with Conditions 2.1.11 and 2.1.12, after installation each groundwater quality borehole shall be monitored quarterly. Within 18 months of Permit issue groundwater quality monitoring data from each of the installed boreholes for the 12 month period shall be submitted in writing to the Agency.
- 2.1.14 In the event of a catastrophic failure of the landfill liner, the Operator shall ensure that any excess leachate generated is managed by increasing the leachate pumping rate, and/or the rate at which leachate is exported from the site via tankers.
- 2.1.15 Landfill gas shall be collected as soon as reasonably practicable and in any case within 12 months of waste disposal commencing.
- 2.1.16 Up to date plans of available gas monitoring boreholes shall be submitted to the Agency with interim environmental monitoring reports.
- 2.1.17 Within 12 months of Permit issue the Operator shall submit in writing to the Agency a Landfill Gas Action Plan if landfill gas trigger levels for peripheral monitoring boreholes, specified in Condition 2.10.11 and Table 2.10.11 are exceeded. The Action Plan shall identify the actions that shall be taken and the timescales to complete them.
- 2.1.18 The Landfill Gas Action Plan submitted as required by Condition 2.1.17 shall be implemented from the date of approval in writing by the Agency and throughout the operational life of the installation.

- 2.1.19 Within 3 months of Permit issue the Operator shall submit to the Agency documented Operation and Maintenance procedures which contain each of the following elements, relating specifically to the Area 2 Landfill:
- a) Procedure for identifying, reviewing and prioritising items or elements of the installation for which a preventative maintenance regime is appropriate.
 - b) A preventative maintenance programme covering all plant, whose failure could lead to impact on the environment, including regular inspection of major 'non-productive' items such as tanks, pipework, retaining walls, bunds and filters.
 - c) A maintenance system including auditing of performance against requirements arising from items (a) and (b) and reporting the result of audits to top management.
- 2.1.20 The Operation and Maintenance procedures submitted as required by Condition 2.1.19 shall be implemented from the date of approval in writing by the Agency and throughout the operational life of the installation.
- 2.1.21 Within 3 months of Permit issue, a training system for all relevant staff shall include prevention of accidental emissions and action to be taken if accidental emissions occur. This training system shall be available for inspection by an authorised officer of the Agency.
- 2.1.22 Prior to disposal of liquid waste in the landfill, the Operator shall submit in writing to the Agency a management procedure for depositing liquid waste to ensure that the stability of the installation is not compromised.
- 2.1.23 The management procedure for disposal of liquid waste submitted as required by Condition 2.1.22 shall be implemented from the date of approval in writing by the Agency until the date imposed in Table 2.1.2.

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 No emission from the Permitted Installation shall be made to or destined for water until Water Quality Discharge Consents have been issued by the Agency.
- 2.2.2.4 No condition applies.
- 2.2.2.5 No condition applies.
- 2.2.2.6 No condition applies.

Emissions to sewer

- 2.2.2.7 There are no specific controls imposed on emissions to sewer in this Part of the Permit.
- 2.2.2.8 No condition applies.

2.2.2.9 No emission 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 parameter(s) and monitoring point(s) set out in Table 2.2.8 shall not be exceeded and the control levels in Table 2.2.9 shall apply:

Table 2.2.8: The trigger levels for emissions into Groundwater			
Parameters with frequency of monitoring	Monitoring Points as shown on Figure 1, Document A2/012 Rev A		
	GW03/10a	GW03/013	GW03/14
TPH (c10-c40) (mg/l) – quarterly	0.01	2.4	2.9
Arsenic (mg./l) – quarterly	13.75	12.5	8.75
Ammoniacal N (mg./l) – quarterly	28.5	169.5	131.5
Benzene (ug./l) – quarterly	1.0	1.0	1.0
Mercury (ug./l) – quarterly	0.01	0.01	0.01
Naphthalene (ug./l) – quarterly	1.25	1.25	1.25
Nickel (mg/l) – quarterly	3.75	23.75	32.5
Phenol (mg/l) - quarterly	0.013	0.375	0.025
Potassium (mg/l) – quarterly	129.5	62.0	133.0
Xylene (ug./l) – quarterly	3.00	3.00	3.00

*Within 2 months of Permit issue, the Operator may submit to the Agency revised trigger levels for specified determinands for approval in writing. Once approved, Table 2.2.8 shall be read as if it contained the trigger levels approved under this condition.

Table 2.2.9: The control levels for emissions into Groundwater			
Parameters with frequency of monitoring*	Monitoring Point s as shown on Figure 1, Document A2/012 Rev A		
	GW03/10a	GW03/013	GW03/14
Arsenic (mg./l) – quarterly	12.1	11.0	7.7
Ammoniacal N (mg./l) – quarterly	24.9	149.0	115.6
Nickel (mg/l) – quarterly	3.3	20.9	28.6
Phenol (mg/l) – quarterly	0.011	0.33	0.022
Potassium (mg/l) – quarterly	113.85	54.45	117.2

*Quarterly monitoring frequency, provided an assessment of control levels is undertaken each time the analysis is performed. Otherwise monthly monitoring.

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 by 30 April 2009, unless by that date the operator has submitted to the Agency a written review of the Hydrogeological 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 and A2/002 Rev A. 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 not 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 landfill gas, 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) and sewer 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 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
- leachate storage in sealed containers

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

- 2.2.6.2 All emissions to air from the installation shall be free from offensive odour as perceived by an Authorised Officer of the Agency outside the installation boundary except that the Operator shall not be taken to have breached this condition if the Operator has ensured that all appropriate measures are taken or where that is not practicable, to reduce, such odorous emissions.

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 14 October 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
 - (c) the estimated costs for the closure and after-care of the landfill site for a period of at least 60 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 The Operator shall produce a report on the energy consumed at the Permitted Installation over the previous calendar year, by 31 January each year, providing the information listed in Table S4.2 at Schedule 4.
- 2.7.2 The Operator shall maintain and update annually an energy management system which shall include, in particular, the monitoring of energy flows and targeting of areas for improving energy efficiency.
- 2.7.3 The Operator shall design, maintain and operate the Permitted Installation so as to secure energy efficiency, taking into account relevant guidance including the Agency's Energy Efficiency Horizontal Guidance Notes as from time to time amended. Energy efficiency shall be secured in particular by:
- ensuring that the appropriate operating and maintenance systems are in place;
 - ensuring that all plant is adequately insulated to minimise energy loss or gain;
 - ensuring that all appropriate containment methods, (e.g. seals and self-closing doors) are employed and maintained to minimise energy loss;
 - ensuring employing appropriate basic controls, such as simple sensors and timers, to avoid unnecessary discharge of heated water or air;
 - where building services constitute more than 5% of the total energy consumption of the installation, identifying and employing the appropriate energy efficiency techniques for building services, having regard in particular to the Building services part of the Agency's Energy Efficiency Horizontal Guidance Notes; and
 - maintaining and implementing an energy efficiency plan which identifies energy saving techniques that are applicable to the activities and their associated environmental benefit and prioritises them, having regard to the appraisal method in the Agency's Energy Efficiency Horizontal Guidance Notes.

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 2.8.1 of the Application and in response to the Schedule 4 Notice. 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 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 2.2.8 and 2.2.9 (groundwater), 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 applies.

2.10.3 No condition applies.

Noise

2.10.4 No condition applies.

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 No condition applies.

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. Trigger levels where not set in Table 2.10.11 shall be submitted in writing to the Agency within 6 months of the date of issue of this permit for approval. Once approved, Table 2.10.11 shall be read as if it contained the trigger levels approved under this condition.

Table 2.10.11 Landfill gas trigger levels

Monitoring point reference/description	Parameter	Trigger	Frequency
Peripheral Landfill gas monitoring Boreholes, GP03/08, GW03/24, and GP03/06 as shown on Figure 1, document reference A2/012 Rev A, including any replacements, excluding those peripheral to Area/Phase 1	Methane Carbon Dioxide		Monthly
Peripheral Landfill gas monitoring Boreholes, GP05/14, GP05/15, GP05/16, GP05/17, GP05/18, GP05/20, GP05/21, GP05/22 and GP05/23 as shown on Figure 1, document reference A2/012 Rev A, including any replacements, excluding those peripheral to Area/Phase 1, when installed in accordance with Condition 2.1.17	Methane Carbon Dioxide		Monthly
Peripheral Landfill gas monitoring Boreholes, on the Area/Phase 2 installation side of the boundary cut off, shown on drawing No. 14739/039/Fig 2 Revision A, document reference A2/063, excluding those peripheral to Area/Phase 1, when installed in accordance with Condition 2.1.18	Methane Carbon Dioxide		Monthly

- 2.10.12 From date of Permit issue the Operator shall undertake monitoring of landfill gas surface emissions for areas of the installation that have been capped or intermediately capped, as specified in Agency document ' LFTGN07 - Guidance for monitoring landfill gas surface emissions'.

Leachate

- 2.10.13 No disposal of wastes shall take place in each of Cells 1 to 5, inclusive, unless:

- a) Prior to the commencement of construction of that cell the operator has submitted to the Agency in writing the detailed design of the position and construction of not less than two identified monitoring boreholes and one identified leachate abstraction point for that cell (for cells of up to and including 5Ha in area) and that this has then been agreed in writing with the Agency.
- b) The leachate abstraction point and two identified monitoring boreholes, referenced in condition (a) have been installed.

2.10.14 With reference to Condition 2.10.13, a plan, drawn to scale shall be submitted to the Agency, within 1 month of installation, showing the locations of all leachate monitoring boreholes each uniquely identified.

2.10.15 The leachate levels within the installation shall be monitored from the date of the monitoring point installation at monthly intervals at the locations identified in accordance with condition 2.10.14. The head of leachate shall not be permitted to exceed 2 metres above the base of any cell.

2.10.16 The Operator shall carry out monitoring of leachate quality at the monitoring points and for the parameters listed in Table 2.10.16 to the frequencies and methods described in that Table.

Table 2.10.16 Leachate monitoring

Monitoring point reference/description	Parameter	Frequency	Test method
All leachate abstraction points and all additional and replacement abstraction points	Electrical conductivity, Temperature pH Total alkalinity Total hardness Ionic Balance BOD, COD, TON, TOC Ammoniacal – N Chloride, Nitrate, Nitrite, Phosphate, Sulphate Sulphide Arsenic, Boron, Cadmium Chromium Copper, Iron, Lead, Manganese, Mercury, Nickel, Potassium Selenium, Zinc, Benzene Naphthalene Phenol, Cyanide, TPH screen (c10- c40	Quarterly	In accordance with methods provided in document reference A2/012 Rev A

All leachate abstraction points and all additional and replacement abstraction points	Full List I screen	Annually	In accordance with Appendix 6 of EA Guidance document LFTGN01
All leachate abstraction points and all additional and replacement abstraction points	Leachate volume	Monthly	
All leachate monitoring points and all additional and replacement monitoring points	Leachate level above base of landfill (m)	Monthly	In accordance with EA Guidance document LFTGN02
All leachate monitoring points and all additional and replacement monitoring points	Depth to monitoring point base (m)	Quarterly	In accordance with EA Guidance document LFTGN02

Groundwater

2.10.17 The Operator shall carry out monitoring of groundwater quality at the monitoring points and for the parameters listed in Table 2.10.17 to the frequencies and methods described in that Table. These monitoring requirements are in addition to those specified in Table 2.2.8.

Table 2.10.17 Groundwater monitoring

Monitoring point reference/description	Parameter	Frequency	Test method
Boreholes GW03/03/8b, GW03/09, GW03/10a, GW03/13, GW03/14, and additional boreholes installed in accordance with Conditions 2.1.11, 2.1.12 and 2.1.13	Electrical conductivity, Temperature pH Total alkalinity Total hardness Ionic Balance BOD, COD, TON, TOC Ammoniacal – N Chloride, Nitrate Nitrite, Phosphate, Sulphate Sulphide Arsenic, Boron Cadmium Chromium Copper, Iron Lead, Manganese, Mercury, Nickel, Potassium Selenium, Zinc, Benzene Naphthalene Phenol, Cyanide, TPH screen (c10- c40)	Quarterly	In accordance with methods provided in document reference A2/012 Rev A

Boreholes GW03/03/8b, GW03/09, GW03/10a, GW03/13, GW03/14 and additional boreholes installed in accordance with Conditions 2.1.11, 2.1.12 and 2.1.13	Full List I screen	Annually	In accordance with Appendix 6 of EA Guidance document LFTGN01
Boreholes GW03/03/8b, GW03/09, GW03/10a, GW03/13, GW03/14 and additional boreholes installed in accordance with Conditions 2.1.11, 2.1.12 and 2.1.13	Groundwater Levels (mAOD)	Monthly	In accordance with EA Guidance document LFTGN02
	Depth to monitoring point base (m)	Annually	

2.10.18 No condition applies.

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	9 November 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.

2.13.2 No condition applies.

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 nine 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 or Part C 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.

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.

"Authorised Officer" means any person authorised by the Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in Section 108(4) of that Act.

"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 para 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 para 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 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 (LFTGN05) or Guidance for Monitoring Landfill Gas Engine Emissions (LFTGN08)
- 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.

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 Newport City Council

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 Newport City Council

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.

<u>Table Reference</u>	<u>Parameter types and media</u>	<u>Reporting frequency</u>
2.2.8	Trigger levels for emissions into groundwater and monitoring Groundwater monitoring points: GW03/10a, GW03/13, GW03/14, GW03/03/8b and GW03/09 shown on drawing reference: Figure 1, document reference A2/012 Rev A, including any replacements Groundwater monitoring points (to be installed in accordance with Conditions 2.1.11, 2.1.12, 2.1.13)	Quarterly
2.10.11	External landfill gas monitoring Landfill gas monitoring points: GP03/08, GW03/24, and GP03/06 shown on Figure 1, document reference A2/012 Rev A Landfill gas monitoring points (to be installed in accordance with Condition 2.1.17): GP05/14, GP05/15, GP05/16, GP05/17, GP05/18, GP05/20, GP05/21, GP05/22 and GP05/23 shown on Figure 1, document reference A2/012 Rev A, including any replacements Landfill gas monitoring points on the Area/Phase 2 side of the boundary cut off (to be installed in accordance with Condition 2.1.18) shown on drawing No. 14739/039/Fig 2 Revision A, document reference A2/063	Monthly
2.10.16	Leachate composition All leachate abstraction points and all additional and replacement leachate abstraction points.	Quarterly

Specified reporting frequencies shall begin from the date of issue of this permit.

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

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
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.	

Media/parameter	Form Number	Date of Form
Trigger levels for emissions into groundwater and monitoring	None Provided. Reporting format to be agreed in writing with the Agency.	
Emission limits to land and monitoring (External landfill gas monitoring)	None Provided. Reporting format to be agreed in writing with the Agency.	
Trigger head levels for leachate gauging.	None Provided. Reporting format to be agreed in writing with the Agency.	
Leachate composition monitoring	None Provided. Reporting format to be agreed in writing with the Agency.	
Notification of abnormal emissions	Schedule 1 - Notification of abnormal emissions	
Waste/Raw Material Return	R1	25/04/03
Waste Summary	WMS1	25/04/03
Landfill Body	None provided. Reporting format to be agreed in writing with the Agency.	
Energy	E1	
Minor Operational Changes	MOC1	

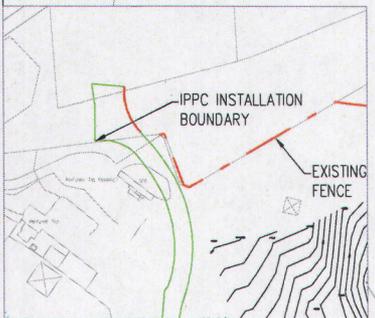
Schedule 4 - Reporting of performance data

Table S4.1: Annual Production/Treatment	
Leachate: Disposed of off site;	Tonnes/year
Surface water and/ or groundwater: Disposed of off site;	
Landfill gas: Disposed of by flare.	

Table S4.2: Performance parameters			
	Frequency of assessment	Annual average	
Potable water use	Annually		Cu m/tonne of waste disposed
Energy used	Annually		MW of electricity/tonne of biodegradable waste disposed
Non potable water use	Annually		Cu m/tonne of waste disposed
Energy generated	Annually		MW of electricity/tonne of biodegradable waste disposed



- KEY**
- IPCC INSTALLATION BOUNDARY
 - BOREHOLES
 - ▨ MEAN HIGH WATER
 - CREST OF FLOOD BUND
 - CUT OFF TRENCH



Clay cut off alignment
Area 2 boundary

Rev	Revision	Drawn	Date	Chk

DRAFT

**DOCKSWAY LANFILL SURVEY
NEWPORT**

Client:
NEWPORT CITY COUNCIL

Drawn by:
pba

PETER BRETT ASSOCIATES - CONSULTING ENGINEERS
THE CROSSING TUNNERS ROBERTS T1 461
140 FLEET STREET, PO BOX 1000, NEWPORT, SOUTH WALES NP23 5TA

Scale: 1:1000
Date: 11/06/09
Drawing No: 11/06/09

FIGURE 1

Schedule 5 - Site Plan

The Installation boundary is indicated in green on Drawing N° FIGURE 1 entitled "Docksway Landfill Masterplan Area 2", dated 10/08/05.

Schedule 6 - List of Permitted Wastes

Permitted quantities of waste
01 01 wastes from mineral excavation
01 01 01 wastes from mineral metalliferous excavation
01 01 02 wastes from mineral non-metalliferous excavation
01 03 wastes from physical and chemical processing of metalliferous minerals
01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07
01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 07
01 04 wastes from physical and chemical processing of non-metalliferous minerals
01 04 08 waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09 waste sand and clays
01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07
01 04 11 waste from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12 tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 04 13 wastes from stone cutting and sawing other than those mentioned in 01 04 07
01 05 drilling muds and other drilling wastes
01 05 04 freshwater drilling muds and wastes
01 05 07 Barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
01 05 08 Chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
02 01 Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 01 Sludges from washing and cleaning
02 01 02 Animal tissue waste
02 01 03 Plant-tissue waste
02 01 04 Waste plastics (except packaging)
02 01 06 Animal faeces, urine and manure, [inc spoiled straw], effluent, collected separately and treated off-site
02 01 07 Wastes from forestry
02 01 09 Agrochemical waste other than those mentioned in 02 01 08
02 01 10 waste metal
02 02 Wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 01 Sludges from washing and cleaning
02 02 02 Animal- tissue waste
02 02 03 Materials unsuitable for consumption or processing
02 02 04 Sludges from on-site effluent treatment
02 03 Wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 01 Sludges from washing, cleaning, peeling, centrifuging and separation
02 03 02 Wastes from preserving agents
02 03 03 Wastes from solvent extraction
02 03 04 Materials unsuitable for consumption or processing
02 03 05 Sludges from on-site effluent treatment
02 04 Wastes from sugar processing
02 04 01 Soil from cleaning and washing beet
02 04 02 Off-specification calcium carbonate
02 04 03 Sludges from on-site effluent treatment

02 05 Wastes from the dairy products industry
02 05 01 Materials unsuitable for consumption or processing
02 05 02 Sludges from on-site effluent treatment
02 06 Wastes from the baking and confectionery industry
02 06 01 Materials unsuitable for consumption or processing
02 06 02 Wastes from preserving agents
02 06 03 Sludges from on-site effluent treatment
02 07 Wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01 Wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02 Wastes from spirits distillation
02 07 03 Wastes from chemical treatment
02 07 04 Materials unsuitable for consumption or processing
02 07 05 Sludges from on-site effluent treatment
03 01 Wastes from wood processing and the production of panels and furniture
03 01 01 Waste bark and cork
03 01 05 Sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03 Wastes from pulp, paper and cardboard production and processing
03 03 01 Waste bark and wood
03 03 02 Green liquor sludge (from recovery of cooking liquor)
03 03 05 De-inking sludges from paper recycling
03 03 07 Mechanically separated rejects from pulping of waste paper and cardboard
03 03 08 Wastes from sorting of paper and cardboard destined for recycling
03 03 09 Lime mud waste
03 03 10 Fibre rejects, fibre-, filler- and coating sludges from mechanical separation
03 03 11 Sludges from on-site effluent treatment other than those mentioned in 03 03 10
04 01 Wastes from the leather and fur industry
04 01 01 Fleshings and lime split wastes
04 01 02 Liming waste
04 01 04 Tanning liquor containing chromium
04 01 05 Tanning liquor free of chromium
04 01 06 Sludges, in particular from on-site effluent treatment containing chromium
04 01 07 Sludges, in particular from on-site effluent treatment free of chromium
04 01 08 Waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
04 01 09 Wastes from dressing and finishing
04 02 Wastes from the textile industry
04 02 09 Wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 10 Organic matter from natural products (for example grease, wax)
04 02 15 Wastes from finishing other than those mentioned in 04 02 14
04 02 17 Dyestuffs and pigments other than those mentioned in 04 02 16
04 02 20 Sludges from on-site effluent treatment other than those mentioned in 04 02 19
04 02 21 Wastes from unprocessed textile fibres
04 02 22 Wastes from processed textile fibres

[Table continued overleaf]

05 01 Waste from petroleum refining
05 01 10 Sludges from on-site effluent treatment other than those mentioned in 05 10 09
05 01 13 Boiler feedwater sludges
05 01 14 Wastes from cooling columns
05 01 16 Sulphur-containing wastes from petroleum desulphurisation
05 01 17 Bitumen
05 06 Wastes from the pyrolytic treatment of coal
05 06 04 Waste from cooling columns
05 07 Wastes from natural gas purification and transportation
05 07 02 Wastes containing sulphur
06 03 Wastes from the manufacture, formulation, supply and use (MFSU) of salts and their solutions and metallic oxides
06 03 16 Metallic oxides other than those mentioned in 06 03 15
06 05 Sludges from on-site effluent treatment
06 05 03 Sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06 Wastes from the manufacture, formulation, supply and use (MFSU) of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 03 Wastes containing sulphides other than those mentioned in 06 06 02
06 09 Wastes from the manufacture, formulation, supply and use (MFSU) of phosphorus chemicals and phosphorus chemical processes
06 09 02 Phosphorus slag
06 09 04 Calcium-based reaction wastes other than those mentioned in 06 09 03
06 11 Wastes from the manufacture of inorganic pigments and opacifiers
06 11 01 Calcium-based reaction wastes from titanium dioxide production
06 13 Wastes from inorganic chemical processes not otherwise specified
06 13 03 Carbon black
07 01 Wastes from the Manufacture, Formulation, Supply and Use (MFSU) of Basic Organic Chemicals
07 01 12 Sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02 Wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 01 12 Sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 13 Waste plastic
07 02 15 Wastes from additives other than those mentioned in 07 02 14
07 02 17 Wastes containing silicones other than those mentioned in 07 02 16
07 03 Wastes from MFSU of organic dyes and pigments (except 06 11)
07 03 12 Sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 04 Wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 12 Sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 06 Wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 12 Sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07 Wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 12 Sludges from on-site effluent treatment other than those mentioned in 07 07 11
08 01 Wastes from MFSU and removal of paint and varnish
08 01 14 Sludges from paint or varnish other than those mentioned in 08 01 13
08 01 16 Aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
08 01 18 Wastes from paint or varnish removal other than those mentioned in 08 01 17
08 01 20 Aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
08 02 Wastes from MFSU of other coatings (including ceramic materials)
08 02 01 Waste coating powders
08 02 02 Aqueous sludges containing ceramic materials
08 02 03 Aqueous suspensions containing ceramic materials

08 03 Wastes from MFSU of printing inks
08 03 07 Aqueous sludges containing ink
08 03 08 Aqueous liquid waste containing ink
08 03 13 Waste ink other than those mentioned in 08 03 12
08 03 15 Ink sludges other than those mentioned in 08 03 14
08 03 18 Waste printing toner other than those mentioned in 08 03 17
08 04 Wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09
08 04 12 Adhesive and sealant sludges other than those mentioned in 08 04 11
08 04 14 Aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
08 04 16 Aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15
09 01 Wastes from photographic industry
09 01 07 Photographic film and paper containing silver or silver compounds
09 01 08 Photographic film and paper free of silver or silver compounds
09 01 10 Single-use cameras without batteries
09 01 12 Single-use cameras containing batteries other than those mentioned in 09 01 11
10 01 Waste from power stations and other combustion plants (except 19)
10 01 01 Bottom ash, slag and boiler dust (except boiler dust mentioned on 10 01 04)
10 01 02 Coal fly ash
10 01 03 Fly ash from peat and untreated wood
10 01 05 Calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07 Calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15 Bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 17 Fly ash from co-incineration other than those mentioned in 10 01 16
10 01 19 Wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 21 Sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 23 Aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 01 24 Sands from fluidised beds
10 01 25 Wastes from fuel storage and preparation of coal-fired power plants
10 01 26 Wastes from cooling-water treatment
10 02 Wastes from the iron and steel industry
10 02 01 Wastes from the processing of slag
10 02 02 Unprocessed slag
10 02 08 Solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10 Mill scales
10 02 12 Wastes from cooling-water treatment other than those mentioned in 10 02 11
10 02 14 Sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15 Other sludges and filter cakes
10 03 Wastes from aluminium thermal metallurgy
10 03 02 Anode scraps
10 03 05 Waste alumina
10 03 16 Skimmings other than those mentioned in 10 03 15
10 03 18 Carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 20 Flue-gas dust other than those mentioned in 10 03 19
10 03 22 Other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21
10 03 24 Solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26 Sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28 Wastes from cooling water treatment
10 03 30 Wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04 Wastes from lead thermal metallurgy
10 04 10 Wastes from cooling-water treatment other than those mentioned in 10 04 09

10 05 Wastes from zinc thermal metallurgy
10 05 01 Slags from primary and secondary production
10 05 04 Other particulates and dust
10 05 09 Wastes from cooling-water treatment other than those mentioned in 10 05 08
10 05 11 Dross and skimmings other than those mentioned in 10 05 10
10 06 Wastes from copper thermal metallurgy
10 06 01 Slags from primary and secondary production
10 06 02 Dross and skimmings from primary and secondary production
10 06 04 Other particulates and dust
10 06 10 Wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07 Wastes from silver, gold and platinum thermal metallurgy
10 07 01 Slags from primary and secondary production
10 07 02 Dross and skimmings from primary and secondary production
10 07 03 Solid wastes from gas treatment
10 07 04 Other particulates and dust
10 07 05 Sludges and filter cakes from gas treatment
10 07 08 Wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08 Wastes from other non-ferrous thermal metallurgy
10 08 04 Particulates and dust
10 08 09 Other slags
10 08 11 Dross and skimmings other than those mentioned in 10 08 10
10 08 13 Carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14 Anode scrap
10 08 16 Flue-gas dust other than those mentioned in 10 08 15
10 08 18 Sludges and filter cakes from flue gas treatment
10 08 20 Wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09 Wastes from casting of ferrous pieces
10 09 03 Furnace slag
10 09 06 casting cores and moulds which have not undergone purging other than those mentioned in 10 09 05
10 09 08 casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 10 Flue-gas dust other than those mentioned in 10 09 09
10 09 12 Other particulates other than those mentioned in 10 09 11
10 09 14 Waste binders other than those mentioned on 10 09 13
10 09 16 Waste crack-indicating agent other than those mentioned in 10 09 15
10 10 Wastes from casting of non-ferrous pieces
10 10 03 Furnace slag
10 10 06 Casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 08 Casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 10 Flue-gas dust other than those mentioned in 10 10 09
10 10 12 Other particulates other than those mentioned in 10 10 11
10 10 14 Waste binders other than those mentioned in 10 10 13
10 10 16 Waste crack-indicating agent other than those mentioned in 10 10 15
10 11 Wastes from manufacture of glass and glass products
10 11 03 Waste glass-based fibrous materials
10 11 05 Particulates and dust
10 11 10 Waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 12 Waste glass other than those mentioned in 10 11 11

10 11 14	Glass-polishing and-grinding sludge other than those mentioned in 10 11 13
10 11 16	Solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18	Sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 11 20	Solid wastes from on-site effluent treatment other than those mentioned in 10 11 19.
10 12	Wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	Waste preparation mixture before thermal processing
10 12 03	Particulates and dust
10 12 05	Sludges and filter cakes from gas treatment
10 12 06	Discarded moulds
10 12 08	Waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10	Solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12	Wastes from glazing other than those mentioned in 10 12 11
10 12 13	Sludges from on-site effluent treatment
10 13	Wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 13 01	Wastes preparation mixture before thermal processing
10 13 04	Wastes from calcination and hydration of lime
10 13 06	Particulates and dust (except 10 13 12 and 10 13 13)
10 13 07	Sludges and filter cakes from gas treatment
10 13 10	Wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11	Wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 13	Solid wastes from gas treatment other than those mentioned in 10 13 09 and 10 13 10
10 13 14	Waste concrete and concrete sludge
11 01	Wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)
11 01 10	Sludges and filter cakes other than those mentioned in 10 01 09
11 01 14	Degreasing wastes other than those mentioned in 11 01 13
11 02	Wastes from non-ferrous hydrometallurgical processes
11 02 03	Wastes from the production of anodes for aqueous electrolytical processes
11 02 06	Waste from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 05	Wastes from hot galvanising processes
11 05 01	Hard zinc
11 05 02	Zinc ash
12 01	Wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 01	Ferrous metals filing and turnings
12 01 02	Ferrous metal dust and particles
12 01 03	Non-ferrous metal filings and turnings
12 01 04	Non-ferrous metal dust and particles
15 01	Packaging (including separately collected municipal packaging waste)
15 01 01	Paper and cardboard packaging
15 01 02	Plastic packaging
15 01 03	Wooden packaging

[Table continued overleaf]

Table A Permitted quantities of waste	[continued]
15 01 04	Metallic packaging
15 01 05	Composite packaging
15 01 06	Mixed packaging
15 01 07	Glass packaging
15 01 09	Textile packaging
15 02	Absorbents, filter materials, wiping cloths and protective clothing
15 02 03	Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16 01	End-of-life vehicles from different means of transport (including off-road machinery)
16 01 03	End-of-life tyres
16 01 06	End-of-life vehicles, containing neither liquids nor other hazardous components
16 01 12	Brake pads other than those mentioned in 16 01 11
16 01 16	Tanks for liquefied gas
16 01 17	Ferrous metal
16 01 18	Non-ferrous metal
16 01 19	Plastic
16 01 20	Glass
16 01 22	Components not otherwise specified
17 01	Concrete, bricks, tiles and ceramics
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles and ceramics
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	Wood, glass and plastic
17 02 01	Wood
17 02 02	Glass
17 02 03	Plastic
17 03	Bituminous mixtures, and tarred products
17 03 02	Bituminous mixtures other than those mentioned in 17 03 01
17 04	Metals (including their alloys)
17 04 01	Copper, bronze, brass
17 04 02	Aluminium
17 04 03	Lead
17 04 04	Zinc
17 04 05	Iron and steel
17 04 06	Tin
17 04 07	Mixed metals
17 04 11	Cables other than those mentioned in 17 04 10
17 05	Soil stones and dredging spoil
17 05 04	Soil and stones other than those mentioned in 17 05 03
17 05 06	Dredging spoil other than those mentioned in 17 05 05
17 05 08	Track ballast other than those mentioned in 17 05 07
17 06	Insulation materials and asbestos-containing construction materials
17 06 04	Insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 09	Other construction and demolition wastes

[Table continued overleaf]

17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
18 01	Wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 04	Wastes whose collection and disposal is not subject to special requirements in order to prevent infection for example dressings, plaster casts, linen, disposable clothing, diapers)
18 01 07	Chemicals other than those mentioned in 18 01 06
18 02	Wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 03	Wastes whose collection and disposal is not subject to special requirements in order to prevent infection
18 02 06	Chemicals other than those mentioned in 18 02 05
19 01	Wastes from incineration or pyrolysis of waste
19 01 02	Ferrous materials removed from bottom ash
19 01 12	Bottom ash and slag other than those mentioned in 19 01 11
19 01 18	Pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	Sands from fluidised beds
19 02	Wastes from physico/chemical treatments of waste (including dechromation, decyanidation, neutralisation
19 02 03	Premixed wastes composed only of non-hazardous wastes
19 02 06	Sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 10	Combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 03	Stabilised/solidified wastes
19 03 05	Stabilised wastes other than those mentioned in 19 03 04
19 03 07	Stabilised wastes other than those mentioned in 19 03 06
19 04	Vitrified waste and wastes from vitrification
19 04 01	Vitrified waste
19 05	Wastes from aerobic treatment of solid wastes
19 05 01	Non-composted fraction of municipal and similar wastes
19 05 02	Non-composted fraction of animal and vegetable waste
19 05 03	Off-specification compost
19 08	Wastes from waste water treatment of solid wastes
19 08 01	Screenings
19 08 02	Waste from desanding
19 08 05	Sludges from treatment of urban waste water
19 08 12	Sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14	Sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09	Wastes from the preparation of water intended for human consumption or waste for industrial use
19 09 01	Solid waste from primary filtration and screenings
19 09 02	Sludges from water clarification
19 09 03	Sludges from decarbonation
19 09 04	Spent activated carbon
19 09 05	Saturated or spent ion exchange resins
19 09 06	Solutions and sludges from regeneration of ion exchangers

[Table continued overleaf]

19 10 Wastes from shredding of metal-containing wastes
19 10 01 Iron and steel waste
19 10 02 Non-ferrous waste
19 10 04 Fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 06 Other fractions other than those mentioned in 19 10 05
19 11 Wastes from oil regeneration
19 11 16 Sludges from on-site effluent treatment other than those mentioned in 19 11 05
19 12 Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01 Paper and cardboard
19 12 02 Ferrous metal
19 12 03 Non-ferrous metal
19 12 04 Plastic and rubber
19 12 05 Glass
19 12 07 Wood other than that mentioned in 19 12 06
19 12 08 Textiles
19 12 09 Minerals (for example sand, stones)
19 12 10 Combustible waste (refuse derived fuel)
19 12 12 Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13 Wastes from soil and groundwater remediation
19 13 02 Solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04 Sludges from soil remediation other than those mentioned in 19 13 03
19 13 06 Sludges from groundwater remediation other than those mentioned in 19 13 05
20 01 Separately collected fractions (except 15 01)
20 01 01 Paper and cardboard
20 01 02 Glass
20 01 08 Biodegradable kitchen and canteen waste
20 01 10 Clothes
20 01 11 Textiles
20 01 25 Edible oil and fat
20 01 28 Paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 30 Detergents other than those mentioned in 20 01 29
20 01 32 Medicines other than those mentioned in 20 01 31
20 01 34 Batteries and accumulators other than those mentioned in 20 01 33
20 01 36 Discarded electrical and electronic equipment other than those mentioned in 20 01 21 20 01 23 and 20 01 35
20 01 38 Wood other than that mentioned in 20 01 37
20 01 39 Plastics
20 01 40 Metals
20 01 41 Waste from chimney sweep
20 02 Garden and park wastes (including cemetery waste)
20 02 01 Biodegradable waste
20 02 02 Soil and stones
20 02 03 Other non-biodegradable wastes
20 03 Other municipal wastes
20 03 01 Mixed municipal waste
20 03 02 Waste from markets

[Table continued overleaf]

20 03 03 Street-cleaning residues
20 03 04 Septic tank sludge
20 03 06 Waste from sewage cleaning
20 03 07 Bulky wastes.

END OF PERMIT