



**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

### Contents

|   |          |
|---|----------|
| Introductory note .....                               | ii       |
| <b>Permit</b> .....                                   | <b>1</b> |
| <b>Conditions</b> .....                               | <b>1</b> |
| 1. General .....                                      | 1        |
| 2. Operating conditions .....                         | 5        |
| 3. Records .....                                      | 25       |
| 4. Reporting .....                                    | 26       |
| 5. Notifications .....                                | 28       |
| 6. Interpretation .....                               | 29       |
| Schedule 1 - Notification of abnormal emissions ..... | 31       |
| Schedule 2 - Reporting of monitoring data .....       | 33       |
| Schedule 3 - Forms to be used .....                   | 35       |
| Schedule 4 - Reporting of performance data .....      | 36       |
| Schedule 5 - Site Plan .....                          | 37       |
| Schedule 6 - List of Permitted Wastes .....           | 38       |

# 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 30,000m<sup>2</sup>. 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                      |   |
| <b>Permit determined</b>                      | 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**

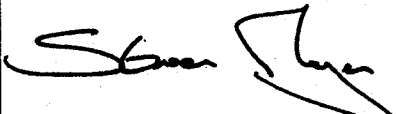
The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973), and Regulation 6 of the Landfill (England and Wales) Regulations 2002 (SI 2002 No.1559) hereby authorises **Newport City Council** ("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 <sup>TH</sup> 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**

| <b>Activity listed in Schedule 1 of the PPC Regulations</b>    | <b>Description of specified activity</b>   | <b>Limits of specified activity</b>   |
|--|--|---|
| 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. |
| <b><i>Associated Activity</i></b>                              |  |   |
| 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   |                                     |
|---|-------------------------------------|
| <b>Artificial Sealing liner (remoulded clay)</b>      |                                     |
| Minimum thickness                                     | 1200mm                              |
| Maximum permeability                                  | $1 \times 10^{-9} \text{ m.s}^{-1}$ |
| Minimum Organic Carbon Fraction                       | 0.2%                                |
| <b>Leachate Collection Layer</b>                      |                                     |
| 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<br><br>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   |
|   | <b>Permitted or not Permitted</b>   |
| 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> March 2007 |
| Wastes which have not been treated, except for:<br>inert wastes for which treatment is not technically feasible; or<br>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 <sup>st</sup> 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 (S.I. 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<br>Boreholes, GP03/08, GW03/24,<br>and GP03/06 as shown on Figure 1,<br>document reference A2/012 Rev A, including<br>any replacements, excluding those peripheral<br>to Area/Phase 1   | Methane<br>Carbon Dioxide |         | Monthly   |
| Peripheral Landfill gas monitoring<br>Boreholes, GP05/14, GP05/15, GP05/16,<br>GP05/17, GP05/18, GP05/20,<br>GP05/21, GP05/22 and GP05/23 as shown<br>on Figure 1, document reference A2/012<br>Rev A, including any replacements,<br>excluding those peripheral to Area/Phase 1,<br>when installed in accordance with Condition<br>2.1.17 | Methane<br>Carbon Dioxide |         | Monthly   |
| Peripheral Landfill gas monitoring<br>Boreholes, on the Area/Phase 2 installation<br>side of the boundary cut off, shown on<br>drawing No. 14739/039/Fig 2 Revision A,<br>document reference A2/063, excluding<br>those peripheral to Area/Phase 1, when<br>installed in accordance with Condition<br>2.1.18                               | Methane<br>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<br>reference/description  | Parameter   | Frequency | Test method   |
|--|---|-----------|---|
| All leachate abstraction<br>points and all additional<br>and replacement<br>abstraction points | Electrical<br>conductivity,<br>Temperature<br>pH<br>Total alkalinity<br>Total hardness<br>Ionic Balance<br>BOD, COD, TON,<br>TOC<br>Ammoniacal – N<br>Chloride, Nitrate,<br>Nitrite, Phosphate,<br>Sulphate<br>Sulphide<br>Arsenic, Boron,<br>Cadmium<br>Chromium<br>Copper, Iron,<br>Lead, Manganese,<br>Mercury, Nickel,<br>Potassium<br>Selenium, Zinc,<br>Benzene<br>Naphthalene<br>Phenol, Cyanide,<br>TPH screen (c10-<br>c40 | Quarterly | In accordance with<br>methods provided in<br>document reference<br>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<br>reference/description  | Parameter  | Frequency | Test method  |
|--|--|-----------|--|
| Boreholes GW03/03/8b,<br>GW03/09, GW03/10a,<br>GW03/13, GW03/14, and<br>additional boreholes installed in<br>accordance with Conditions<br>2.1.11, 2.1.12 and 2.1.13 | Electrical conductivity,<br>Temperature<br>pH<br>Total alkalinity<br>Total hardness<br>Ionic Balance<br>BOD, COD, TON,<br>TOC<br>Ammoniacal – N<br>Chloride, Nitrate<br>Nitrite, Phosphate,<br>Sulphate<br>Sulphide<br>Arsenic, Boron<br>Cadmium<br>Chromium<br>Copper, Iron<br>Lead, Manganese,<br>Mercury, Nickel,<br>Potassium<br>Selenium, Zinc,<br>Benzene<br>Naphthalene<br>Phenol, Cyanide,<br>TPH screen (c10-<br>c40) | Quarterly | In accordance with methods<br>provided in document<br>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 16<sup>th</sup> 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/<br>significant adverse<br>environmental effect      |  |
| Time and date of the emission/<br>significant adverse<br>environmental effect |  |

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

|  |  |
|--|--|
| Measures taken, or intended to<br>be taken, to stop the emission |  |
|--|--|

## Part B

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

|                  |  |
|------------------|--|
| <b>Name*</b>     |  |
| <b>Post</b>      |  |
| <b>Signature</b> |  |
| <b>Date</b>      |  |

\* authorised to sign on behalf of Newport City Council

## PART C

|   |  |
|---|--|
| Nature of significant adverse environmental effect<br>(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  |  |

|                  |  |
|------------------|--|
| <b>Name*</b>     |  |
| <b>Post</b>      |  |
| <b>Signature</b> |  |
| <b>Date</b>      |  |

\* 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<br><br>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<br><br>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<br><br>Landfill gas monitoring points: GP03/08, GW03/24, and GP03/06 shown on Figure 1, document reference A2/012 Rev A<br><br>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<br><br>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<br><br>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**

|   |                    |
|---|--------------------|
| <b>Leachate:</b>                          | <b>Tonnes/year</b> |
| Disposed of off site;                     |                    |
| <b>Surface water and/ or groundwater:</b> |                    |
| Disposed of off site;                     |                    |
| <b>Landfill gas:</b>                      |                    |
| Disposed of by flare.                     |                    |

**Table S4.2: Performance parameters**

|                       | <b>Frequency of assessment</b> | <b>Annual average</b> |   |
|-----------------------|--------------------------------|-----------------------|---|
| 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 |







## **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

|   |
|---|
| <b>Permitted quantities of waste</b>  |
| <b>01 01 wastes from mineral excavation</b>   |
| 01 01 01 wastes from mineral metalliferous excavation   |
| 01 01 02 wastes from mineral non-metalliferous excavation   |
| <b>01 03 wastes from physical and chemical processing of metalliferous minerals</b>   |
| 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  |
| <b>01 04 wastes from physical and chemical processing of non-metalliferous minerals</b>   |
| 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  |
| <b>01 05 drilling muds and other drilling wastes</b>  |
| 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   |
| <b>02 01 Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</b>  |
| 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  |
| <b>02 02 Wastes from the preparation and processing of meat, fish and other foods of animal origin</b>  |
| 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  |
| <b>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</b> |
| 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  |
| <b>02 04 Wastes from sugar processing</b>   |
| 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  |

|   |
|---|
| <b>02 05 Wastes from the dairy products industry</b>  |
| 02 05 01 Materials unsuitable for consumption or processing   |
| 02 05 02 Sludges from on-site effluent treatment  |
| <b>02 06 Wastes from the baking and confectionery industry</b>  |
| 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  |
| <b>02 07 Wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)</b> |
| 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  |
| <b>03 01 Wastes from wood processing and the production of panels and furniture</b>                             |
| 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    |
| <b>03 03 Wastes from pulp, paper and cardboard production and processing</b>                                    |
| 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                         |
| <b>04 01 Wastes from the leather and fur industry</b>   |
| 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   |
| <b>04 02 Wastes from the textile industry</b>   |
| 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]

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

|  |
|--|
| <b>08 03 Wastes from MFSU of printing inks</b>   |
| 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                                   |
| <b>08 04 Wastes from MFSU of adhesives and sealants (including waterproofing products)</b>             |
| 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  |
| <b>09 01 Wastes from photographic industry</b>   |
| 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                |
| <b>10 01 Waste from power stations and other combustion plants (except 19)</b>                         |
| 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   |
| <b>10 02 Wastes from the iron and steel industry</b>   |
| 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  |
| <b>10 03 Wastes from aluminium thermal metallurgy</b>  |
| 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  |
| <b>10 04 Wastes from lead thermal metallurgy</b>   |
| 10 04 10 Wastes from cooling-water treatment other than those mentioned in 10 04 09                    |

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| <b>10 05 Wastes from zinc thermal metallurgy</b>  |
| 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                                       |
| <b>10 06 Wastes from copper thermal metallurgy</b>  |
| 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                       |
| <b>10 07 Wastes from silver, gold and platinum thermal metallurgy</b>                                     |
| 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                       |
| <b>10 08 Wastes from other non-ferrous thermal metallurgy</b>   |
| 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                       |
| <b>10 09 Wastes from casting of ferrous pieces</b>  |
| 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 06 16 Waste crack-indicating agent other than those mentioned in 10 09 15                              |
| <b>10 10 Wastes from casting of non-ferrous pieces</b>  |
| 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                              |
| <b>10 11 Wastes from manufacture of glass and glass products</b>  |
| 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.   |
| <b>10 12</b> | <b>Wastes from manufacture of ceramic goods, bricks, tiles and construction products</b>   |
| 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  |
| <b>10 13</b> | <b>Wastes from manufacture of ceramic goods, bricks, tiles and construction products</b>   |
| 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   |
| <b>11 01</b> | <b>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)</b> |
| 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   |
| <b>11 02</b> | <b>Wastes from non-ferrous hydrometallurgical processes</b>  |
| 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  |
| <b>11 05</b> | <b>Wastes from hot galvanising processes</b>   |
| 11 05 01     | Hard zinc  |
| 11 05 02     | Zinc ash   |
| <b>12 01</b> | <b>Wastes from shaping and physical and mechanical surface treatment of metals and plastics</b>  |
| 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   |
| <b>15 01</b> | <b>Packaging (including separately collected municipal packaging waste)</b>  |
| 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  |             |
| <b>15 02</b>                          | <b>Absorbents, filter materials, wiping cloths and protective clothing</b>                                 |             |
| 15 02 03                              | Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02 |             |
| <b>16 01</b>                          | <b>End-of-life vehicles from different means of transport (including off-road machinery)</b>               |             |
| 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   |             |
| <b>17 01</b>                          | <b>Concrete, bricks, tiles and ceramics</b>  |             |
| 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                    |             |
| <b>17 02</b>                          | <b>Wood, glass and plastic</b>   |             |
| 17 02 01                              | Wood   |             |
| 17 02 02                              | Glass  |             |
| 17 02 03                              | Plastic  |             |
| <b>17 03</b>                          | <b>Bituminous mixtures, and tarred products</b>  |             |
| 17 03 02                              | Bituminous mixtures other than those mentioned in 17 03 01   |             |
| <b>17 04</b>                          | <b>Metals (including their alloys)</b>   |             |
| 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  |             |
| <b>17 05</b>                          | <b>Soil stones and dredging spoil</b>  |             |
| 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   |             |
| <b>17 06</b>                          | <b>Insulation materials and asbestos-containing construction materials</b>                                 |             |
| 17 06 04                              | Insulation materials other than those mentioned in 17 06 01 and 17 06 03                                   |             |
| <b>17 09</b>                          | <b>Other construction and demolition wastes</b>  |             |

[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   |
| <b>18 01</b> | <b>Wastes from natal care, diagnosis, treatment or prevention of disease in humans</b>   |
| 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   |
| <b>18 02</b> | <b>Wastes from research, diagnosis, treatment or prevention of disease involving animals</b>   |
| 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   |
| <b>19 01</b> | <b>Wastes from incineration or pyrolysis of waste</b>  |
| 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  |
| <b>19 02</b> | <b>Wastes from physico/chemical treatments of waste (including dechromation, decyanidation, neutralisation)</b>  |
| 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   |
| <b>19 03</b> | <b>Stabilised/solidified wastes</b>  |
| 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   |
| <b>19 04</b> | <b>Vitrified waste and wastes from vitrification</b>   |
| 19 04 01     | Vitrified waste  |
| <b>19 05</b> | <b>Wastes from aerobic treatment of solid wastes</b>   |
| 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  |
| <b>19 08</b> | <b>Wastes from waste water treatment of solid wastes</b>   |
| 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  |
| <b>19 09</b> | <b>Wastes from the preparation of water intended for human consumption or waste for industrial use</b>   |
| 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]

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| <b>19 10 Wastes from shredding of metal-containing wastes</b>   |
| 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   |
| <b>19 11 Wastes from oil regeneration</b>   |
| 19 11 16 Sludges from on-site effluent treatment other than those mentioned in 19 11 05   |
| <b>19 12 Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified</b> |
| 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          |
| <b>19 13 Wastes from soil and groundwater remediation</b>   |
| 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  |
| <b>20 01 Separately collected fractions (except 15 01)</b>  |
| 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<br>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   |
| <b>20 02 Garden and park wastes (including cemetery waste)</b>  |
| 20 02 01 Biodegradable waste  |
| 20 02 02 Soil and stones  |
| 20 02 03 Other non-biodegradable wastes   |
| <b>20 03 Other municipal wastes</b>   |
| 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