



**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

Biffa Waste Services Limited
Trecatti Landfill Site
Fochriw Road
Merthyr Tydfil
Mid Glamorgan
CF48 4AB

Permit number

RP3733PC

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Introductory note

This introductory note does not form a part of the Permit

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

Trecatti landfill is located to the immediate north-east of Merthyr Tydfil and approximately 3km west of Rhymney at National Grid Reference SO 082077. It is located within an area of historic open-cast coal and ironstone working and lies to the north-west of the Gelligaer and Merthyr Common. The site is immediately surrounded by common land that includes vegetated colliery spoil tips and is used for rough grazing. The nearest residential area is Dowlais Top which lies approximately 200 metres to the north-west of the landfill. Access to the site is from the unclassified Fochrlw Road to the east. The main watercourses present in the vicinity are the River Taff and Rhymney River, which flow in a general southerly direction 3.5km west and 2.1km east of the site respectively.

The permitted installation includes all areas of the existing and proposed landfill and site infrastructure in addition to the landfill gas utilisation and leachate treatment plants as directly associated listed activities. The following non-listed directly associated activities are also included as part of the permitted installation: discharge of treated leachate to sewer; discharge of surface water drainage to a controlled watercourse; and gas flaring.

Merthyr Tydfil Borough Council commenced landfilling at Trecatti in 1986 and operated the site up until 1992 when the management transferred to Biffa Waste Services Limited. The site was licensed at that time to receive domestic, commercial and industrial wastes including difficult and special wastes. Engineered containment principles were introduced at Trecatti from 1993 in Phase 1 within the northwestern corner. Subsequent landfilling took place within Phase 2, which then formed the basal containment for Phases 2A, 3A, and 4A. Phase 2A also forms the basal containment for all the remaining 7 Phases to be developed.

Trecatti Landfill has been constructed above the regional groundwater table of the Coal Measures strata and therefore no permanent groundwater management system is required. However, temporary under-liner drainage systems have been installed beneath the Phases developed to date due to the presence of perched groundwater. Leachate accumulating within the site is abstracted and treated at the on-site treatment plant, which will in the future be supplemented by a further treatment plant. Landfill gas is collected and pumped to an on-site gas management plant which should eventually be capable of producing approximately 4MW electricity. Surplus gas is flared off.

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
Biffa Waste Services Limited	Waste management licence reference number EAWML/30105	21/07/93
Biffa Waste Services Limited	Waste management licence reference number EAWML/30280	20/05/03
Biffa Waste Services Limited	Consent to discharge trade effluent (to watercourse) reference number AF4012101	13/01/97

Other existing Licences/Authorisations/Registrations relating to this site		
Holder	Reference Number	Date of issue
Biffa Waste Services Limited	Trade effluent discharge consent (to sewer) reference number TE456	14/04/93

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

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 RP3733PC	Received 07/05/04	
Response to request for information	Schedule 4 Notice dated 21/07/04	Response dated 01/09/04
Response to request for information, (note: subject to commercial confidentiality as it relates to the expenditure plan)	Letter dated 15/10/04	Response dated 20/10/04
Permit determined	09/03/05	

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
RP3733PC

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 (S.I.2002 No.1559) hereby authorises **Biffa Waste Services Limited** ("the Operator"),

of/whose Registered Office (or principal place of business) is
**Coronation Road
Cressex
High Wycombe
Buckinghamshire
HP12 3TZ**

Company registration number **946107**

to operate an installation at
**Trecatti Landfill Site
Fochrlw Road
Merthyr Tydfil
Mid Glamorgan
CF48 4AB**

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, stable non-reactive hazardous and asbestos waste.

Signed

Date

	9/3/2005
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Paul Butler – Waste Permitting Team Leader, Bedford Strategic Permitting Group

Authorised to sign on behalf of the Agency

Conditions

1. General

1.1 Permitted Activities

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

Table 1.1.1

Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
Section 5.2, Part A(1)(a), the disposal of waste in a landfill.	Landfill for non-hazardous waste (landfill classification under the Landfill Regulations 2002)	Receipt, handling, storage and disposal of non-hazardous, stable non-reactive hazardous and asbestos wastes, consisting of the types and quantities specified in condition 2.1.3, as an integral part of landfilling
Section 5.3, Part A(1)(c)(i), biological treatment	Treatment of leachate in an existing facility with a capacity of >50 tonnes / day pre-disposal	Leachate arising from the Permitted landfill including storage integral to the treatment process
Section 5.3, Part A(1)(c)(i), biological treatment	Treatment of leachate in a proposed facility with a capacity of >50 tonnes/ day pre-disposal	Leachate arising from the Permitted landfill including storage integral to the treatment process
Section 1.1, Part A(1)(b)(iii), burning of waste as a fuel	Utilisation of landfill gas for energy recovery in an appliance with a net rated thermal input of >3MW, but < 50 MW	Landfill gas arising from the Permitted landfill
Non-listed directly associated activity		
Landfill gas management	Flaring	Landfill gas arising from the Permitted landfill
Treated leachate discharge to foul sewer	Discharge of treated leachate from the existing and proposed listed biological treatment plant.	From leachate treatment plant to point of entry to sewer
Fuel Storage	Storage of fuel for operation of plant and equipment	From fuel storage tank to point of discharge / disposal off site.
Surface water discharge to controlled water	Discharge of surface water drainage from the landfill.	From surface water management system to point of entry to controlled water

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

Table 1.4.1: Improvement programme requirements		
Ref.	Requirement	Date
1a	The Operator shall install 3 additional leachate abstraction/monitoring wells in the 'Merthyr Waste' area at the locations and to the construction shown on Drawing ESID7b, entitled 'Leachate Management Construction Details' and dated 31/08/04 submitted in response to the Schedule 4 Further Information Notice dated 21/07/04.	Within 18 months of Permit issue date.
1b	A CQA report documenting the installation of the leachate abstraction/monitoring wells required by improvement condition 1a shall be submitted to the Agency in writing.	No less than one month following the installation of the leachate abstraction/monitoring wells required by improvement condition 1a.
2a	The Operator shall install a minimum of 4 additional leachate abstraction/monitoring wells in Phases 1 and 2 at the locations shown on Drawing ESID7b, entitled 'Leachate Management Construction Details' and dated 31/08/04 submitted in response to the Schedule 4 Further Information Notice dated 21/07/04.	Within 18 months of issue date of Permit.
2b	A report detailing the design and construction of the leachate abstraction/monitoring wells required by improvement condition 2a and the documentation to record the installation shall be submitted to the Agency in writing.	No less than one month prior to the installation of the leachate abstraction/monitoring wells boreholes required by improvement condition 2a.
2c	Following submission of the report required by improvement condition 2b, the Operator shall undertake any measures approved in writing by the Agency.	To the timescales indicated in the approval.
3a	The Operator shall submit a report to the Agency detailing how the leachate control level of a 5 metre head is to be achieved within 24 months of the date of grant of this Permit.	Within 6 months of Permit issue date.
3b	Following submission of the report required by improvement condition 3a, the Operator shall undertake any measures approved in writing by the Agency.	To the timescales indicated in the approval.
4a	The Operator shall install 3 additional groundwater monitoring boreholes at the locations shown on Drawing ESID 11, entitled 'Local Hydrogeology and Hydrology' and dated 04/05/04 submitted as part of the Application.	Within 6 months of Permit issue date, unless otherwise agreed in writing by the Agency.

Table 1.4.1 (Continued): Improvement programme requirements

Ref.	Requirement	Date
4b	A report detailing the design and construction of the groundwater monitoring boreholes required by improvement condition 4a and the documentation to record the installation shall be submitted to the Agency in writing.	No less than one month prior to the installation of the groundwater monitoring boreholes required by improvement condition 4a.
4c	Following submission of the report required by improvement condition 4b, the Operator shall undertake any measures approved in writing by the Agency.	To the timescales indicated in the approval.
5a	In addition to the boreholes required by improvement condition 4a, the Operator shall install: <ul style="list-style-type: none"> • groundwater monitoring boreholes at nominal spacings of 100m on the downgradient installation boundary and to a minimum depth of 5 metres below the rest groundwater level; and • groundwater monitoring boreholes on the upgradient installation boundary and to a minimum depth of 5 metres below the rest groundwater level. 	<p>Within 18 months of Permit issue date.</p> <p>Within 18 months of Permit issue date.</p>
5b	A report detailing the number, location, design and construction of the groundwater monitoring boreholes required by improvement condition 5a and the documentation to record the installation shall be submitted to the Agency in writing.	No less than one month prior to the installation of the groundwater monitoring boreholes required by improvement condition 5a.
5c	Following submission of the report required by improvement condition 5b, the Operator shall undertake any measures approved in writing by the Agency.	To the timescales indicated in the approval.
6a	The Operator shall assess the effectiveness of all existing landfill gas boreholes, gas extraction systems and pipework and: <ul style="list-style-type: none"> • repair any leaking pipework and cap any freely venting landfill gas monitoring boreholes and leachate wells; and • replace all defective boreholes, remove any accumulated condensate. 	<p>Within 1 month of Permit issue date.</p> <p>Within 1 month of Permit issue date.</p> <p>Within 4 months of Permit issue date, unless otherwise agreed in writing by the Agency.</p>
6b	A report detailing the works undertaken in accordance with improvement condition 6a shall be submitted to the Agency in writing.	No more than one month following completion of the works required by improvement condition 6a.
7	The Operator shall reduce the extent of the uncovered operational working areas and install as appropriate, temporary or final capping over filled areas and extend gas extraction pipework into these areas in order to minimise both the egress of landfill gas and the ingress of rainwater.	Within 9 months of Permit issue date, unless otherwise agreed in writing by the Agency.
8	The Operator shall install 21 additional landfill gas monitoring boreholes at the locations shown on Drawing ESID8 dated 04/05/04 and entitled 'Landfill Gas Management' submitted as part of the Application and in accordance with the construction specification detailed in Item 10 in the response to the Schedule 4 Further Information Notice dated 21/07/04, (Document reference 4B-034-108, August 2004).	Within 10 months of Permit issue date, unless otherwise agreed in writing by the Agency.
9a	Using 6 months monitoring data from the gas monitoring boreholes installed under improvement condition 8 above, a report proposing compliance limits for methane and carbon dioxide in accordance with best practice shall be submitted for each borehole to the Agency in writing.	No more than 8 months following the installation of the landfill gas monitoring boreholes required by improvement condition 8.
9b	Following submission of the report required by improvement condition 9a, the Operator shall undertake any measures approved in writing by the Agency.	To the timescales indicated in the approval.

Table 1.4.1 (Continued): Improvement programme requirements

Ref.	Requirement	Date
10	The Operator shall install and commission the additional landfill gas engines and backup gas flares in accordance with Landfill Gas Risk assessment submitted as part of the Application.	To the timescale indicated in Table LFGR6 of the Landfill Gas Risk Assessment submitted as part of the Application.
11a	The Operator shall submit in writing to the Agency a particulates monitoring and action plan, (in accordance with the methods given in Agency guidance 'M17 - Monitoring of particulate matter in ambient air around waste facilities'), that shall include, but need not be restricted to, a monitoring methodology, monitoring points and an action plan that details measures to be taken should an emission limit for particulates specified in Table 2.2.9 be reached.	Within 3 months of Permit Issue date.
11b	Following submission of the particulates monitoring and action plan required by improvement condition 11a, the Operator shall undertake any measures approved in writing by the Agency.	To the timescales indicated in the approval.
12	The Operator shall increase the stack height of the existing gas engines from 6m to 8m in accordance with the response dated 1 st September 2004 (SLR Document reference: 4B-034-108) to the Schedule 4 Further Information Notice dated 21/07/04.	Within 12 months of Permit issue date, unless otherwise agreed in writing by the Agency.
13a	The Operator shall submit in writing to the Agency a revised surface water monitoring plan, (in accordance with the methods given in Agency guidance 'LFTN02 - Guidance on Monitoring of Landfill, Leachate, Groundwater and Surface Water' that shall include, but need not be restricted to a monitoring methodology, at least one upstream and one downstream monitoring point of the surface water discharge made in accordance with condition 2.2.2 of this Permit and proposed downstream trigger levels.	Within 6 months of Permit issue date.
13b	Following submission of the revised surface water monitoring plan required by improvement condition 13a, the Operator shall undertake any measures approved in writing by the Agency.	To the timescales indicated in the approval.
14a	The Operator shall submit in writing to the Agency an asbestos fibres monitoring and action plan that shall include, but need not be restricted to, a monitoring methodology (in accordance with the methods given in Agency guidance 'M17 - Monitoring of particulate matter in ambient air around waste facilities'), location of monitoring points and an asbestos fibres action plan that details measures to be taken should an emission limit for asbestos fibres specified in Table 2.2.9 be reached.	Prior to the acceptance of asbestos wastes.
14b	Following submission of the asbestos fibres monitoring and action plan required by improvement condition 14a, the Operator shall undertake any measures approved in writing by the Agency.	To the timescales indicated in the approval.
15a	The Operator shall carry out an assessment and submit a report to the Agency on the trace gases present within the landfilled waste and the trace gases found within borehole BH5, (as shown on Drawing Number ESID 8, entitled 'Landfill Gas Management' and dated 04/05/04 submitted as part of the Application), in order to identify appropriate indicator gases and compliance levels within this borehole to identify the escape of landfill gas.	Within 6 months of Permit issue date.
15b	Following submission of the report required by improvement condition 15a, the Operator shall undertake any measures approved in writing by the Agency.	To the timescales indicated in the approval.

Table 1.4.1(Continued): Improvement programme requirements

Ref.	Requirement	Date
16a	The Operator shall submit in writing to the Agency a Hydrogen Sulphide monitoring and action plan, that shall include, but need not be restricted to, a monitoring methodology, monitoring points, emission limits and an action plan that details measures to be taken should the emission limit be reached.	Within 1 month of Permit issue date.
16b	Following submission of the report required by improvement condition 16a, the Operator shall undertake any measures approved in writing by the Agency.	To the timescales indicated in the approval.
17a	Following a review of 12 months monitoring data, a report detailing proposed bespoke groundwater trigger and control levels for Ammoniacal Nitrogen and Chloride in each of the downgradient groundwater monitoring boreholes required by improvement condition 4a and 5a shall be submitted in writing to the Agency.	Within 14 months of the date of groundwater monitoring borehole installation.
17b	Following submission of the report required by improvement condition 17a, the Operator shall undertake any measures approved in writing by the Agency.	To the timescales indicated in the approval.

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

1.5 Minor Operational Changes

- 1.5.1 The Operator shall seek the Agency's written agreement to any minor operational changes under condition 2.1.1 of this Permit by sending to the Agency: written notice of the details of the proposed change including an assessment of its possible effects (including waste production) on risks to the environment from the Permitted Installation; any relevant supporting assessments and drawings; and the proposed implementation date.
- 1.5.2 Any such change shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation in accordance with that change, and relevant provisions in the Application shall be deemed to be amended.
- 1.5.3 When the qualification "unless otherwise agreed in writing" is used elsewhere in this Permit, the Operator shall seek such agreement by sending to the Agency written notice of the details of the proposed method(s) or techniques.
- 1.5.4 Any such method(s) or techniques shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation using that method or technique and relevant provisions in the Application (and the Site Protection and Monitoring Programme, as the case may be) shall be deemed to be amended.

1.6 Pre-Operational Conditions

1.6.1 No disposal of wastes shall take place in any part of the Permitted Installation:

- identified for non hazardous waste; or
- identified for stable non-reactive hazardous waste; or
- identified for asbestos wastes; or
- identified for gypsum or other high sulphate bearing wastes

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 and the construction quality assurance (CQA) programme for the pre-operational engineering of the:

- groundwater under-drainage system;
- barriers;
- liners;
- leachate collection layer;
- leachate abstraction system;
- landfill gas extraction and management systems;
- separation bund / layer;
- pipework; and
- surface water drainage system

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, as subsequently amended and supplemented by the response dated 1st September 2004 (SLR Document reference: 4B-034-108) to the Schedule 4 Further Information Notice dated 21st July 2004 or any other specification agreed in writing by the Agency and any subsequent agreed change to the specification(s); and

1.6.1.2 the Operator has notified the Agency in writing of any changes in the detailed design, material specifications 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 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.

1.7 Off-Site Conditions

- 1.7.1 In addition to the off-site requirements contained in conditions 2.10.5 to 2.10.10, the following off-site condition applies:

Off-site monitoring – fugitive emissions to groundwater

- 1.7.1.1 Unless otherwise agreed in writing by the Agency, the Operator shall maintain and implement a monitoring programme which ensures that fugitive emissions are monitored at the specified points, for the parameters listed in and to the frequencies described in Table 1.3.1 and that the results of such monitoring are assessed. The programme shall ensure that monitoring is carried out under an appropriate range of conditions.

Table 1.3.1: Groundwater monitoring parameters, points and frequency

Monitoring point reference/description	Parameter	Monitoring frequency
The groundwater monitoring boreholes once installed under improvement conditions 4a to 5c.	Water level	Monthly
	Ammoniacal Nitrogen	Quarterly
	Chloride	Quarterly
	Cadmium	Quarterly
	Mecoprop	Quarterly
	Toluene	Quarterly
	Xylene	Quarterly
	Napthalene	Quarterly
	Electrical conductivity	Quarterly
	pH	Quarterly
	Total alkalinity	Quarterly
	Magnesium	Quarterly
	Potassium	Quarterly
	Total sulphates	Quarterly
	Calcium	Quarterly
	Sodium	Quarterly
	Nitrates	Quarterly
	Nitrites	Quarterly
	Phosphates	Quarterly
	TON	Quarterly
	Manganese	Quarterly
	Iron	Quarterly
	Chromium	Quarterly
	Copper	Quarterly
	Lead	Quarterly
	Zinc	Quarterly
	Nickel	Quarterly
The groundwater monitoring boreholes once installed under improvement conditions 4a to 5c that are down-hydraulic gradient.	List 1 screen	Annual

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	<ul style="list-style-type: none"> The response to questions, 2.1, 2.2, 2.3, 2.4 and 2.5 in part B of the Application Forms; the response to questions raised to the Schedule 4 Further Information Notice dated 21st July 2004; the response to draft condition 2.1.5 insofar as it provides a revised response to question B2.1.1; and the email from Biffa Waste Services Limited confirming that the Application should include the European Waste Code 16 01 03 as a permitted waste type; <p>with the following exclusions:</p> <ul style="list-style-type: none"> original response to question B2.1.1 insofar as it has been superseded by the response dated 16/02/05; and response to question B2.1.5; and response to question B2.2.36 insofar as it applies to monitoring of the surface water discharge; and response to question B2.2.65 insofar as particulate monitoring is not carried out in accordance with Agency guidance 'M17 - Monitoring of particulate matter in ambient air around waste facilities'; and response to question B2.2.31 insofar as it applies to the leachate head control and trigger levels; and the proposed methane trigger level for landfill gas boreholes 1-3 as detailed in Table LFGRA21 of the Landfill Gas Risk Assessment; and response to question B3.1.10 insofar as the proposed CO emission level for the future landfill gas flares (Haase HTN) as detailed in Table LFGRA23 of the Landfill Gas Risk Assessment; and Table 2.10.1 of the generic part B form insofar as it applies to the daily frequency for the monitoring of suspended solids; and the paragraph titled <i>Perimeter Borehole Location and Spacing</i> of section 3.3.2 of the Landfill Gas Risk assessment submitted as part of the Application; and section 3.3.3 of the Landfill Gas Risk Assessment submitted as part of the Application; and Drawing ESID 4a, entitled 'Site Layout and Waste Deposition' and dated 04/05/04 insofar as it has been superseded by Drawing ESID 4a Rev. 1, entitled 'Site Layout and Waste Deposition' dated 27/08/04; and Drawing ESID7b, entitled 'Leachate Management Construction Details' and dated insofar as it has been superseded by Drawing ESID7b Rev.1 dated 04/05/04. 	<p>7th May 2004</p> <p>1st September 2004</p> <p>16th February 2005</p> <p>8th March 2005</p>

- 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.
- 2.1.3.1 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.

- 2.1.3.2 Wastes described with a European Waste Catalogue code ending with "99" shall not be permitted, unless a written description of any waste type proposed to be accepted under such a code has been submitted to and approved of in writing by the Agency and the waste accords with that description

Table 2.1.2: Wastes accepted for disposal	
Waste Category or Type	Permitted or not Permitted
Hazardous	Not Permitted
Non-hazardous	Permitted
Stable non-reactive hazardous	Permitted Interim year: Provided that It is deposited in a separate cell from the biodegradable non-hazardous waste
Asbestos and construction materials containing asbestos	Permitted Provided that Before 15 July 2005 they are deposited in accordance with best practice guidance After 16 July 2005 they are deposited in a separate cell from the biodegradable non-hazardous waste and stable non-reactive hazardous wastes
Gypsum (and other high sulphate bearing waste)	Permitted Provided that: Before 15 July 2005 it is deposited in accordance with best practice guidance After 16 July 2005 they are deposited in a separate cell from the biodegradable non-hazardous waste and stable non-reactive hazardous wastes
Inert	Permitted
Liquid wastes (including waste waters but excluding sludge).	Permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
Waste which in the conditions of landfill is explosive, corrosive, oxidising, highly flammable or flammable.	Not permitted unless non-hazardous when permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
Hospital and other clinical infectious wastes from medical or veterinary establishments.	Not permitted unless non-hazardous when permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
Chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown.	Not permitted unless non-hazardous when permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
Whole used tyres (other than tyres used as engineering materials, bicycle tyres and tyres with an outside diameter of more than 1400mm).	Permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007

Table 2.1.2 (Continued): Wastes accepted for disposal	
Shredded used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm.	Permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
Any waste which does not fulfil the relevant waste acceptance criteria.	Permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
Waste which has been diluted or mixed solely to meet the relevant waste acceptance criteria.	Permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007
Wastes which have not been treated, except for: Inert wastes for which treatment is not technically feasible; or it is waste other than inert waste and treatment would not reduce its quantity or the hazards which it poses to human health or the environment.	Permitted until a date to be specified in Regulations and if no date so specified no later than 31 st March 2007

and

- 2.1.2.1 The Operator of the landfill shall visually inspect the waste at the entrance to the landfill and at the point of the deposit and shall satisfy himself that it conforms to the description provided in the documentation submitted by the holder. Any waste which does not conform with the description provided, shall be refused and the Agency notified in accordance with condition 5.1.1
- 2.1.2.2 All waste approved under condition 2.1.2 shall be characterised in accordance with Regulations to meet Waste Acceptance Criteria and Procedures. The Operator shall provide written confirmation to the Agency, in the quarterly report required by condition 4.1.8, that such characterisation has been undertaken. Any information provided under this condition shall be included within the annual report required by condition 4.1.3.
- 2.1.2.3 The Operator shall ensure that where representative samples are taken for analysis they are taken in accordance with Regulations, to meet Waste Acceptance Criteria and Procedures. The samples taken shall be retained for at least one month and results of any analysis for at least one year.
- 2.1.3 The Operator on accepting each delivery of waste shall provide a written receipt to the person delivering it.
- 2.1.4 The Operator shall ensure that the landfill is secured to prevent free access to the site and the gates of the landfill must be locked outside operating hours.
- 2.1.5 The total quantity of waste that shall be deposited in the landfill shall not exceed 8,500,000 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.

Table 2.1.3: Annual waste input limits	
Category	Limit Tonnes/ Year
Hazardous waste	Not permitted
Non-hazardous waste and inert waste, (combined total)	625,000
Stable, non-reactive hazardous waste and asbestos (combined total)	25,000

- 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 The Operator shall record the precise disposal location of any hazardous waste.

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 Emissions to air from the emission points in Table 2.2.1 shall only arise from the source(s) specified in that Table.

Table 2.2.1: Emission points to air		
Emission point reference or description	Source	Location of emission point
Existing landfill gas flare	Combustion gas arising from the flaring of landfill gas	As identified in Detail C on Drawing Number ESID6, entitled 'Installation Infrastructure and Security' dated 05/05/04 submitted as part of the Application.
Proposed landfill gas flare(s) ¹	Combustion gas arising from the flaring of landfill gas	At a location and emission height that has been previously agreed in writing by the Agency
Existing landfill gas engines	Exhaust gases arising from the utilisation of landfill gas	Gas management compound identified in Detail A on Drawing ESID6, entitled 'Installation Infrastructure and Security' and dated 05/05/04 submitted as part of the Application.
Proposed landfill gas engine(s) ¹	Exhaust gases arising from the utilisation of landfill gas	At a location and emission height that has been previously agreed in writing by the Agency

¹ Once installed in accordance with improvement condition 10

2.2.1.3 The limits for emissions to air for the parameter(s) and emission point(s) set out in Table 2.2.2 shall not be exceeded.

Table 2.2.2: Emission limits to air and monitoring				
Emission point reference	Parameter	Emission limit (mg/m ³)	Monitoring frequency	Monitoring method
Existing gas flare	Nitrogen oxides (NO _x)	150	Annually	Chemiluminescence
Existing gas flare	Carbon monoxide (CO)	100	Annually	Non-dispersive Infra red analysis
Existing gas flare	Total volatile organic compounds (VOC's)	10	Annually	Extractive sampling and FID analysis
Existing gas flare	Non-methane volatile organic compounds (NMVOC's)	5	Annually	Extractive sampling onto sorbent, extraction by CS ₂ , analysis by GC with appropriate detector
Existing gas flare	Sulphur dioxide (SO ₂)	No limit set	Annually	UV fluorescence
Proposed gas flare(s) ¹	Nitrogen oxides (NO _x)	150	Annually	Chemiluminescence
Proposed gas flare(s) ¹	Carbon monoxide (CO)	50	Annually	Non-dispersive Infra red analysis
Proposed gas flare(s) ¹	Total volatile organic compounds (VOC's)	10	Annually	Extractive sampling and FID analysis
Proposed gas flare(s) ¹	Non-methane volatile organic compounds (NMVOC's)	5	Annually	Extractive sampling onto sorbent, extraction by CS ₂ , analysis by GC with appropriate detector
Proposed gas flare(s) ¹	Sulphur dioxide (SO ₂)	No limit set	Annually	UV fluorescence
Existing gas engines	Nitrogen oxides (NO _x)	650	Quarterly	Extractive sampling and chemiluminescence
Existing gas engines	Carbon Monoxide (CO)	1500	Quarterly	Extractive sampling and non-dispersive Infra red analysis
Existing gas engines	Total Volatile Organic Compounds (VOC's)	1750	Annually	Extractive sampling and FID analysis
Existing gas engines	Non Methane Volatile Organic Compounds (NMVOC's)	150	Annually	Extractive sampling onto sorbent, extraction by CS ₂ , analysis by GC with appropriate detector
Existing gas engines	Sulphur dioxide (SO ₂)	No limit set	Annually	UV fluorescence

¹ Once installed in accordance with improvement condition 10

Table 2.2.2 (Continued): Emission limits to air and monitoring

Emission point reference	Parameter	Emission limit (mg/m ³)	Monitoring frequency	Monitoring method
Proposed gas engine(s) ¹	Nitrogen oxides (NO _x)	500	Quarterly	Chemiluminescence
Proposed gas engine(s) ¹	Carbon Monoxide (CO)	1400	Quarterly	Extractive sampling and non-dispersive Infra red analysis
Proposed gas engine(s) ¹	Total Volatile Organic Compounds (VOC's)	1000	Annually	Extractive sampling and FID analysis
Proposed gas engine(s) ¹	Non Methane Volatile Organic Compounds (NMVOC's)	75	Annually	Extractive sampling onto sorbent, extraction by CS ₂ , analysis by GC with appropriate detector
Proposed gas engine(s) ¹	Sulphur dioxide (SO ₂)	No limit set	Annually	UV fluorescence

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

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

Emissions to Water (other than to Sewer)

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

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

Table 2.2.4: Emission point to water

Emission Point Reference and/or location description	Source	Receiving Water
National Grid Reference SO 07530 07670 as shown marked on Drawing ESID6, entitled 'Installation Infrastructure and Security' and dated 05/05/04 submitted as part of the Application	Site drainage and uncontaminated groundwater from beneath composite liner via balancing lagoon system	Nant Dowlais

¹ Once installed in accordance with improvement condition 10

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

Table 2.2.5: Emission limits to water and monitoring

Emission point reference	Parameter	Limit (Including Reference Period)	Monitoring frequency	Monitoring method
National Grid Reference SO 07530 07670 as shown marked on Drawing ESID6, entitled 'Installation Infrastructure and Security' and dated 05/05/04, submitted as part of the Application	Volume	8985 cubic metres per day	Daily	-
	Rate of discharge	150 litres per second	Continuous	-
	Suspended solids	100 mg/l	Monthly	Measured after drying at 105 °C
	COD	120 mg/l	Monthly	As determined after 2 hours reflux with sulphuric acid and potassium dichromate at 105 °C
	Ammoniacal nitrogen	5mg/l	Monthly	-
	Chloride	No limit set	Monthly	-
	pH	6-8	Monthly	-
	Oil and grease	None visible	Monthly	-
	BOD	No limit set	Monthly	-
	Electrical conductivity	No limit set	Monthly	-

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

2.2.2.6 Once approved under improvement condition 13b of this Permit, Table 2.2.5 shall be read as if it contained the additional monitoring points, their monitoring frequency, methodology and parameters, and any limits approved in accordance with that improvement condition.

Emissions to sewer

2.2.2.7 Emissions to sewer from the specified emission points in Table 2.2.6 shall only arise from the sources specified in that Table.

Table 2.2.6: Emission points to sewer

Emission point reference or description	Source	Sewer
Emission from installation at National Grid Reference E: 308620 N: 207800 (marked as 'Treated Effluent Discharge Point' on Drawing ESID7a, entitled 'Leachate Management Plan' and dated 21/04/04) to sewer at the point marked 'X' on the plan attached to Consent Number TE456 as detailed in ESID Appendix 4 submitted as part of the Application	Existing and proposed leachate treatment plants as identified on Drawing ESID7a, entitled 'Leachate Management Plan' and dated 21/04/04 submitted as part of the Application	Dwr Cymru Cyfyngedig – Welsh Water Ltd public sewer

2.2.2.8 The limits for the emissions to sewer for the parameter(s) and emission point(s) set out in Table 2.2.7 shall not be exceeded.

Table 2.2.7: Emission limits and monitoring frequency to sewer

Emission point reference	Substance / Parameter	Limit (including Reference Period)	Monitoring frequency	Monitoring method
Point marked 'X' on the plan attached to Consent Number TE456 as detailed in ESID Appendix 4 submitted as part of the Application	Rate of discharge	18 m ³ per hour	Daily ¹	-
	Volume of discharge	432 m ³ in any one day of 24 hours	Daily ¹	-
	Ammoniacal nitrogen	40 mg/l	Daily ¹	-
	Total suspended solids	400 mg/l	Weekly	-
	Grease or oil	None	Daily ¹	-
	pH	6.0 to 11.0	Batch testing prior to release to sewer	-
	Temperature	43 °C	Monthly	-
	Petroleum spirit	Nil	Monthly	-

¹ Monday to Saturday Inclusive

Table 2.2.7 (Continued): Emission limits and monitoring frequency to sewer

Emission point reference	Substance / Parameter	Limit (including Reference Period)	Monitoring frequency	Monitoring method
	Antimony	Individually or in total 2.0 mg/l	Monthly	-
	Arsenic			
	Beryllium			
	Chromium			
	Cobalt			
	Copper			
	Lead			
	Molybdenum			
	Nickel			
	Selenium			
	Silver			
	Tin			
	Titanium			
	Vanadium			
	Zinc			
	Cyanide and compounds which produce hydrogen cyanide upon acidification	1.0 mg/l	Monthly	-
	Sulphide and compounds which produce hydrogen sulphide upon acidification (as S)	2.0 mg/l	Monthly	-
	Sulphate (as SO ₄)	1000 mg/l	Monthly	-
	Chemical oxygen demand	2000 mg/l	Monthly	After one hour quiescent

- 2.2.2.9 Where a substance is specified in Table 2.2.7 but no limit is set for it, the concentration of such substance in emissions to sewer from the relevant emission point shall be no greater than the background concentration.

2.2.3 Emissions to groundwater

- 2.2.3.1 No emission from the Permitted Installation shall give rise to the introduction into groundwater of any substance in List I (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).
- 2.2.3.2 No emission from within the Permitted Installation shall give rise to the introduction into groundwater of any substance in List II (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)) so as to cause pollution (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).
- 2.2.3.3 For substances other than those in List I or II (as defined in the Groundwater Regulations 1998 (SI 1998 No.2746)), the Operator shall ensure that all appropriate measures are taken to prevent or where that is not practicable to reduce emissions to groundwater from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application.

2.2.3.4 The trigger levels for emissions into groundwater for the parameter(s) and monitoring point(s) set out in Table 2.2.8 shall not be exceeded

Table 2.2.8: The trigger and control levels for certain substances and monitoring points for emissions into groundwater

Monitoring point reference or description	Substance	Trigger levels	Control levels
The downgradient groundwater monitoring boreholes installed under improvement conditions 4a to 5c	Ammoniacal Nitrogen	1.50 mg/l	1.25 mg/l
	Chloride	250 mg/l	210 mg/l
	Cadmium	0.10 µg/l	None specified
	Mecoprop	0.04 µg/l	None specified
	Toluene	4.00 µg/l	None specified
	Xylene	3.00 µg/l	None specified
	Napthalene	1.00 µg/l	None specified

2.2.3.5 Once approved under improvement condition 17b of this Permit, Table 2.2.5 shall be read as if it contained the trigger and control limits approved in accordance with that Improvement condition.

2.2.3.6 Subject to the terms of this condition, the activities of disposal, or tipping for the purpose of disposal, of waste, that are authorised by this landfill Permit shall cease 3½ years from date of issue of this Permit, unless by that date the Operator has submitted to the Agency a written review of the 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. 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.
- 2.2.4.3 The limits for particulate matter emissions into air for the parameters and monitoring points set out in Table 2.2.9 shall not be exceeded.

Table 2.2.9: Particulate and asbestos fibre emission limits into air

Parameters and frequency of monitoring	Emission limit at Site boundary	Monitoring point
Asbestos fibres – frequency to be agreed in accordance with Improvement conditions 14a and 14b	0.001 asbestos fibres/ml	To be agreed in accordance with Improvement conditions 14a and 14b
Particulates PM ₁₀ – 6 monthly, unless otherwise agreed by the Agency in writing	Not to exceed 50 µg/m ³ more than 35 times per year when measured as a 24 hour mean concentration or 40 µg/m ³ when measured as an annual mean	To be agreed in accordance with improvement conditions 11a and 11b
Total inhaleable dust – 6 monthly, unless otherwise agreed by the Agency in writing	250 µg/m ³ measured as an 8-hour mean	To be agreed in accordance with improvement conditions 11a and 11b

- 2.2.4.4 Once approved under improvement conditions 11b and 14b of this Permit, Table 2.2.9 shall be read as if it contained the monitoring points and methodology approved in accordance with that improvement condition.

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 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 to prevent 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 9th March 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 2.3.4 of the Application. The plan shall be reviewed at least every 2 years or as soon as practicable after an accident, whichever is the earlier, and the Agency notified of the results of the review within 2 months of its completion.

2.9 Noise and Vibration

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

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

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

2.10 On-Site Monitoring

2.10.1 The Operator shall maintain and implement an emissions monitoring programme which ensures that emissions are monitored from the specified points, for the parameters listed in and to the frequencies and methods described in Tables 2.2.2 (air), 2.2.5 (water), 2.2.7 (sewer), 2.2.8 (groundwater), 2.2.9 (particulates and asbestos fibres), 2.2.10 (landfill gas to land), 2.2.11 (landfill gas to air) and 2.2.12 (leachate) 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.

Off-site and On-site Monitoring – General

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

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

2.10.7 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme in conditions 1.7.1.1 and 2.10.1 of this Permit shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing.

2.10.8 There shall be provided:

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

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

- 2.10.9 The Operator shall carry out the on-going monitoring identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, unless otherwise agreed in writing by the Agency.
- 2.10.10 The Operator shall, within 6 months of the Issue of this Permit, in accordance with and using the format given in the Land Protection Guidance:
- 2.10.10.1 collect the site reference data identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, and
- 2.10.10.2 report that site reference data to the Agency unless otherwise agreed in writing by the Agency.

Landfill Gas

Monitoring for fugitive emissions of subsurface landfill gas to land

- 2.10.11 The levels for fugitive emissions of landfill gas to land for the parameter(s) and monitoring point(s) set out in Table 2.10.11 shall not be exceeded.

Table 2.10.11: Monitoring for fugitive emissions of landfill gas to land and compliance levels			
Fugitive emission monitoring point reference as shown on Drawing Number ESID 8, entitled 'Landfill Gas Management' and dated 04/05/04 submitted as part of the Application	Parameter	Monitoring frequency	Level
BH1, BH2 and BH3	Methane	Monthly	1.0 % (v/v)
	Carbon dioxide	Monthly	10% (v/v)
BH4	Methane	Monthly	3 % (v/v)
	Carbon dioxide	Monthly	10% (v/v)
BH5	Methane	Monthly	13 % (v/v) unless otherwise specified in accordance with improvement conditions 15a and 15b
	Carbon dioxide	Monthly	17% (v/v)
All 21 no. peripheral landfill gas monitoring boreholes once installed in accordance with improvement condition 8	Methane	Monthly	To be agreed under improvement condition 9a and 9b of this Permit,
All 21 no. peripheral landfill gas monitoring boreholes once installed in accordance with improvement condition 8	Carbon dioxide	Monthly	To be agreed under improvement condition 9a and 9b of this Permit,

- 2.10.12 Once approved under improvement conditions 9a and 9b of this Permit, Table 2.10.11 shall be read as if it contained the gas compliance levels approved in accordance with that improvement condition.

Monitoring for fugitive emissions of landfill gas to air

- 2.10.13 The levels for fugitive emissions of landfill gas to air for the parameter(s) and monitoring point(s) set out in Table 2.2.13 shall not be exceeded.

Table 2.2.13: Monitoring for fugitive emissions of landfill gas to air and compliance level

Emission point reference / description	Parameter	Level (including reference period)	Monitoring frequency	Monitoring method
Perimeter walkover survey	Flammable Gases	50 ppm	Monthly	FID survey carried out in accordance with Agency Draft Guidance 'Monitoring Landfill Gas Surface Emissions'
Permanently capped areas	Methane	0.001 mg/m ² /second	Quarterly, unless otherwise agreed in writing by the Agency	Flux box / FID survey carried out in accordance with Agency Draft Guidance 'Monitoring Landfill Gas Surface Emissions', unless otherwise agreed in writing by the Agency
Temporarily capped areas	Methane	0.1 mg/m ² /second	Quarterly, unless otherwise agreed in writing by the Agency	Flux box / FID survey carried out in accordance with Agency Draft Guidance 'Monitoring Landfill Gas Surface Emissions', unless otherwise agreed in writing by the Agency

Leachate

- 2.10.14 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 Table 2.2.12. Unless otherwise agreed by the Agency in writing, the head of leachate shall not be permitted to exceed 5 metres above the base of Phase 1, 2A, 3A or the Merthyr Waste Area after 24 months of the date of issue of this Permit.
- 2.10.15 The Operator shall carry out monitoring of leachate quality at the monitoring points and for the parameters listed in Table 2.2.12 to the frequencies and methods described in that Table.

Table 2.2.12: Leachate monitoring

Monitoring point reference/description	Parameter	Frequency	Test method
All existing and proposed vertical leachate level monitoring wells, (once installed in accordance with improvement conditions 1a to 2c), as identified on Drawing ESID7a, dated 21/04/04 and entitled 'Leachate Management Plan' submitted as part of the Application	Electrical conductivity	Quarterly	-
	Chloride	Quarterly	-
	Ammoniacal Nitrogen	Quarterly	-
	pH	Quarterly	-
	Total alkalinity	Quarterly	-
	Magnesium	Quarterly	-
	Potassium	Quarterly	-
	Total sulphates	Quarterly	-
	Calcium	Quarterly	-
	Sodium	Quarterly	-
	BOD	Quarterly	-
	COD	Quarterly	-
	TOC	Quarterly	-
	TON	Quarterly	-
	Manganese	Quarterly	-
	Iron	Quarterly	-
	Chromium	Quarterly	-
	Copper	Quarterly	-
	Lead	Quarterly	-
	Zinc	Quarterly	-
All existing and proposed vertical leachate level monitoring wells, (once installed in accordance with improvement conditions 1a to 2c), as identified on Drawing ESID7a, dated 21/04/04 and entitled 'Leachate Management Plan' submitted as part of the Application	Nickel	Quarterly	-
	Mecoprop	Quarterly	-
	Toluene	Quarterly	-
	Xylene	Quarterly	-
	Napthalene	Quarterly	-
	Cadmium	Quarterly	-
All existing and proposed vertical leachate level monitoring wells, (once installed in accordance with improvement conditions 1a to 2c), as identified on Drawing ESID7a, dated 21/04/04 and entitled 'Leachate Management Plan' submitted as part of the Application	List 1 screen	Annual	As per Table HRA7 of the Hydrogeological Risk Assessment submitted as part of the Application

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 2.5 in Part B of the application form	7 th May 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 Transfers to effluent treatment plant(s) shall occur only from the point(s) specified in Table 2.13.1 and transfers from those points shall arise only from the source(s) and shall be released only to the treatment plant(s) specified in that Table.

Table 2.13.1 Transfer points to effluent treatment plants

Transfer point description/identifier	Source	Effluent Treatment Plants
Unless otherwise agreed in writing by the Agency, the leachate pumping main identified on Drawing ESID7b, entitled 'Leachate Management Construction Details' and dated 31/08/04, submitted in response to the Schedule 4 Further Information Notice dated 21/07/04.	Unless otherwise agreed in writing by the Agency, leachate from leachate extraction points identified on Drawing ESID7b, entitled 'Leachate Management Construction Details' and dated 31/08/04, submitted in response to the Schedule 4 Further Information Notice dated 21/07/04.	Existing and proposed on-site leachate treatment plants

3 Records

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

4 Reporting

- 4.1.1 All reports and written and or oral notifications required by this Permit and notifications required by Regulation 16 of the PPC Regulations shall be made or sent to the Agency using the contact details notified in writing to the Operator by the Agency.
- 4.1.2 The Operator shall, unless otherwise agreed in writing, submit reports of the monitoring and assessment carried out, as follows:
- in respect of the parameters and emission and monitoring points specified in Schedule 2.
 - for the reporting periods specified in Schedule 2 and using the forms specified in Table S3 to Schedule 3;
 - giving the information from such results and assessments as may be required by the forms specified in those Tables; and
 - to the Agency within 28 days of the end of the reporting period.
- 4.1.3 The Operator shall submit to the Agency a report on the performance of the Permitted Installation over the previous year, by 31 January each year, providing the information listed in Tables S4.1-2 of Schedule 4, assessed at any frequency specified therein.
- 4.1.4 The Operator shall review fugitive emissions, having regard to the application of the most appropriate measures to prevent pollution, on an annual basis, or such other period as shall be agreed in writing by the Agency, and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them within 3 months of the end of such period.
- 4.1.5 Where the Operator has a formal environmental management system applying to the Permitted Installation which encompasses annual improvement targets the Operator shall, not later than 31 January in each year, provide a summary report of the previous year's progress against such targets.
- 4.1.6 The Operator shall, within 6 months of receipt of written notice from the Agency, submit to the Agency a report assessing whether all appropriate preventive measures continue to be taken against pollution at the installation. The report shall consider any relevant published technical guidance current at the time of the notice which is either supplied with or referred to in the notice, and shall assess the costs and benefits of applying techniques described in that guidance, or otherwise identified by the Operator, that may provide environmental improvement
- 4.1.7 The Operator shall, within two months of the date of this Permit, submit a detailed Site Protection and Monitoring Programme, in accordance with and using the appropriate template format given in the Land Protection Guidance. The Operator shall implement and maintain the Site Protection and Monitoring Programme (SPMP) submitted under this condition, and shall carry out regular reviews of it at a minimum frequency of every 2 years. The results of such reviews and any changes made to the SPMP shall be reported to the Agency within 1 month of the review or change.
- 4.1.8 The Operator shall review the monitoring results for waste characterisation, landfill gas, leachate, surface and groundwater against the relevant emission limits, assessment limits, control and trigger levels specified in the Permit on a three monthly basis and shall submit a summary report of this review, to the Agency within one month of the end of each three month period.
- 4.1.9. The Operator shall review all monitoring data required by this Permit on an annual basis and shall submit a summary report to the Agency within three months of the end of each year.

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

5 Notifications

- 5.1.1 The Operator shall notify the Agency without delay of:
- 5.1.1.1 the detection of an emission of any pollutant which exceeds any limit or criterion in this Permit specified in relation to the pollutant;
 - 5.1.1.2 the detection of any fugitive emission which has caused, is causing or may cause significant pollution; unless the quantity emitted is so trivial that it would be incapable of causing significant adverse environmental effect;
 - 5.1.1.3 the detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution;
 - 5.1.1.4 any accident which has caused, is causing or has the potential to cause significant pollution;
 - 5.1.1.5 the refusal to accept or rejection of incoming waste at the landfill, and
 - 5.1.1.6 the detection of any significant adverse environmental effects
- 5.1.2 The Operator shall submit written confirmation to the Agency of any notification under condition 5.1.1, by sending:
- 5.1.2.1 Information listed in Part A of Schedule 1 to this Permit within 24 hours of such notification; and
 - 5.1.2.2 the more detailed information listed in Part B of that Schedule as soon as practicable thereafter; and such information shall be in accordance with that Schedule.
- 5.1.3 The Operator shall give prior written notification to the Agency of the following events and in the specified timescales:
- 5.1.3.1 as soon as practicable prior to the permanent cessation of the landfill disposal operations,
 - 5.1.3.2 as soon as practicable prior to the cessation of the operation of the landfill disposal operations, for a period likely to exceed 1 month
 - 5.1.3.3 at least 14 days prior to the resumption of the landfill disposal operations after a cessation
- 5.1.4 The Operator shall notify the Agency, as soon as practicable, of any information concerning the state of the site which affects or updates that provided to the Agency as part of the Site Report submitted with the application for this Permit.
- 5.1.5 The Operator shall notify the following matters to the Agency in writing within 14 days of their occurrence:
- 5.1.5.1 where the Operator is a registered company:
 - any change in the Operator's trading name, registered name or registered office address;
 - any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary)
 - any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up;
 - 5.1.5.2 where the Operator is a corporate body other than a registered company:
 - any change in the Operator's name or address;
 - any steps taken with a view to the dissolution of the Operator.
 - 5.1.5.3 In any other case:
 - the death of any of the named Operators (where the Operator consists of more than one named individual);
 - any change in the Operator's name(s) or address(es);
 - any steps taken with a view to the Operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case them being in a partnership, dissolving the partnership;

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 site; or
- surface water quality up-gradient of the site; or
- for the purposes of condition 2.2.4, air quality up-wind of the site

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

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

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

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

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

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

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

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

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

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

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

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

"Year" means calendar year ending 31 December.

- 6.1.2 Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.
- 6.1.3 Unless otherwise stated, any references in this Permit to concentrations of substances in emissions into air means; the standards included in Environment Agency Guidance for Monitoring Enclosed Landfill Gas Flares or Guidance for Monitoring Landfill Gas Engine Emissions
- 6.1.4 Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the document(s) with the most recent date shall prevail to the extent of such conflict.

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

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

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

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

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

Part A

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

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

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

Part B

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Biffa Waste Services Limited

PART C

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Biffa Waste Services Limited

Schedule 2 - Reporting of monitoring data

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

Table S2: Reporting of monitoring data			
Parameter	Emission point	Reporting period	Period begins
Nitrogen oxides	Existing gas flare	Every 12 months	1st April 2005
	Proposed gas flare	Every 12 months	Once installed in accordance with improvement condition 10
	Existing gas engines	Every 3 months	1st April 2005
	Proposed gas engines	Every 3 months	Once installed in accordance with improvement condition 10
Carbon monoxide	Existing gas flare	Every 12 months	1st April 2005
	Proposed gas flare	Every 12 months	Once installed in accordance with improvement condition 10
	Existing gas engines	Every 3 months	1st April 2005
	Proposed gas engines	Every 3 months	Once installed in accordance with improvement condition 10
Total volatile organic compounds	Existing gas flare	Every 12 months	1st April 2005
	Proposed gas flare	Every 12 months	Once installed in accordance with improvement condition 10
	Existing gas engines	Every 3 months	1st April 2005
	Proposed gas engines	Every 3 months	Once installed in accordance with improvement condition 10
Non-methane volatile organic compounds	Existing gas flare	Every 12 months	1st April 2005
	Proposed gas flare	Every 12 months	Once installed in accordance with improvement condition 10
	Existing gas engines	Every 3 months	1st April 2005
	Proposed gas engines	Every 3 months	Once installed in accordance with improvement condition 10
Sulphur dioxide	Existing gas flare	Every 12 months	1st April 2005
	Proposed gas flare	Every 12 months	Once installed in accordance with improvement condition 10
	Existing gas engines	Every 3 months	1st April 2005
	Proposed gas engines	Every 3 months	Once installed in accordance with improvement condition 10
Hydrogen sulphide	In accordance with improvement conditions 16a and 16 b	In accordance with improvement conditions 16a and 16 b	In accordance with improvement conditions 16a and 16 b

Table S2 (Continued): Reporting of monitoring data

Parameter	Emission point	Reporting period	Period begins
Methane	Landfill gas monitoring boreholes ¹	Every month	1st April 2005
	From flux box survey specified in Table 2.2.11 of this Permit	Every 3 months, unless otherwise agreed in writing by the Agency	1st April 2005
Flammable gas	From perimeter survey specified in Table 2.2.11 of this Permit	Every month, unless otherwise agreed in writing by the Agency	1st April 2005
Carbon dioxide	Landfill gas monitoring boreholes ¹	Every month	1st April 2005
Volume of discharge	Discharge to watercourse ²	Every month	1st April 2005
	Discharge to sewer ³	Every month	1st April 2005
Rate of discharge	Discharge to watercourse ²	Every month	1st April 2005
	Discharge to sewer ³	Every month	1st April 2005
Suspended solids	Discharge to watercourse ²	Every month	1st April 2005
	Discharge to sewer ³	Every month	1st April 2005
COD	Discharge to watercourse ²	Every month	1st April 2005
	Discharge to sewer ³	Every month	1st April 2005
	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
Ammoniacal nitrogen	Discharge to watercourse ²	Every month	1st April 2005
	Discharge to sewer ³	Every month	1st April 2005
	Groundwater monitoring borehole ⁵	Every 3 months	1st April 2005
	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
Chloride	Discharge to watercourse ²	Every month	1st April 2005
	Groundwater monitoring borehole ⁵	Every 3 months	1st April 2005
	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
pH	Discharge to watercourse ²	Every month	1st April 2005
	Discharge to sewer ³	Every month	1st April 2005
	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Oil and grease	Discharge to watercourse ²	Every month	1st April 2005
	Discharge to sewer ³	Every month	1st April 2005

¹ as specified in Table 2.2.10 of this Permit² at National Grid Reference SO 07530 07670 as shown marked on Drawing ESID6 dated 05/05/04 and entitled 'Installation Infrastructure and Security' submitted as part of the Application³ from installation at National Grid Reference E: 308620 N: 207800, marked as 'Treated Effluent Discharge Point' on Drawing ESID7a, entitled 'Leachate Management Plan' and dated 21/04/04 submitted as part of the Application³ from installation at National Grid Reference E: 308620 N: 207800, marked as 'Treated Effluent Discharge Point' on Drawing ESID7a, entitled 'Leachate Management Plan' and dated 21/04/04 submitted as part of the Application.⁴ as specified in Table 2.2.12 of this Permit.⁵ as specified in Table 1.3.1 of this Permit.

Table S2 (Continued): Reporting of monitoring data

Parameter	Emission point	Reporting period	Period begins
Temperature	Discharge to sewer ³	Every month	1st April 2005
Petroleum spirit	Discharge to sewer ³	Every month	1st April 2005
Antimony	Discharge to sewer ³	Every month	1st April 2005
Arsenic	Discharge to sewer ³	Every month	1st April 2005
Beryllium	Discharge to sewer ³	Every month	1st April 2005
Chromium	Discharge to sewer ³	Every month	1st April 2005
	Leachate monitoring boreholes ¹	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Cobalt	Discharge to sewer ³	Every month	1st April 2005
Copper	Discharge to sewer ³	Every month	1st April 2005
	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Lead	Discharge to sewer ³	Every month	1st April 2005
	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Molybdenum	Discharge to sewer ³	Every month	1st April 2005
Nickel	Discharge to sewer ³	Every month	1st April 2005
	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
Selenium	Discharge to sewer ³	Every month	1st April 2005
Silver	Discharge to sewer ³	Every month	1st April 2005
Tin	Discharge to sewer ³	Every month	1st April 2005
Titanium	Discharge to sewer ³	Every month	1st April 2005
Vanadium	Discharge to sewer ³	Every month	1st April 2005
Zinc	Discharge to sewer ³	Every month	1st April 2005
Cyanide and compounds which produce hydrogen cyanide upon acidification	Discharge to sewer ³	Every month	1st April 2005

¹ as specified in Table 2.2.10 of this Permit.² at National Grid Reference SO 07530 07670 as shown marked on Drawing ESID6 dated 05/05/04 and entitled 'Installation Infrastructure and Security' submitted as part of the Application.³ from installation at National Grid Reference E: 308620 N: 207800, marked as 'Treated Effluent Discharge Point' on Drawing ESID7a, entitled 'Leachate Management Plan' and dated 21/04/04 submitted as part of the Application.⁴ as specified in Table 2.2.12 of this Permit.⁵ as specified in Table 1.3.1 of this Permit.

Table S2 (Continued): Reporting of monitoring data

Parameter	Emission point	Reporting period	Period begins
Sulphide and compounds which produce hydrogen sulphide upon acidification (as S)	Discharge to sewer ³	Every month	1st April 2005
Sulphate (as SO ₄)	Discharge to sewer ³	Every month	1st April 2005
Cadmium	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
Mecoprop	Groundwater monitoring point	Every 3 months	1st April 2005
	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
Toluene	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
Xylene	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
Napthalene	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
Electrical conductivity	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Total alkalinity	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Magnesium	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Potassium	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Total sulphates	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Calcium	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005

¹ as specified in Table 2.2.10 of this Permit.

² at National Grid Reference SO 07530 07670 as shown marked on Drawing ESID6 dated 05/05/04 and entitled 'Installation Infrastructure and Security' submitted as part of the Application.

³ from installation at National Grid Reference E: 308620 N: 207800, marked as 'Treated Effluent Discharge Point' on Drawing ESID7a, entitled 'Leachate Management Plan' and dated 21/04/04 submitted as part of the Application.

⁴ as specified in Table 2.2.12 of this Permit.

⁵ as specified in Table 1.3.1 of this Permit.

Table S2 (Continued): Reporting of monitoring data

Parameter	Emission point	Reporting period	Period begins
Sodium	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
BOD	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
TOC	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
TON	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Manganese	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Iron	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Zinc	Leachate monitoring boreholes ⁴	Every 3 months	1st April 2005
	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
List 1 screen	Leachate monitoring boreholes ⁴	Every 12 months	1st April 2005
	Groundwater monitoring point ⁵	Every 12 months	1st April 2005
Nitrates	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Nitrites	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Phosphates	Groundwater monitoring point ⁵	Every 3 months	1st April 2005
Fibres	In accordance with the asbestos fibres monitoring plan approved in accordance with condition 2.2.4.3	Every 3 months unless otherwise specified in the asbestos fibres monitoring plan approved in accordance with condition 2.2.4.3	Prior to acceptance of asbestos bearing wastes
Particulates PM ₁₀	In accordance with the particulates monitoring plan approved in accordance with improvement condition 12b	Every 6 months unless otherwise agreed by the Agency in writing	1st April 2005
Total inhaleable dust	In accordance with the particulates monitoring plan approved in accordance with improvement condition 12b	Every 6 months unless otherwise agreed by the Agency in writing	1st April 2005

Once approved under improvement condition 13b of this Permit, Table S2 shall be read as if it contained the monitoring points, parameters and reporting period approved in accordance with that improvement condition.

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

¹ as specified in Table 2.2.10 of this Permit.

² at National Grid Reference SO 07530 07670 as shown marked on Drawing ESID6 dated 05/05/04 and entitled 'Installation Infrastructure and Security' submitted as part of the Application.

³ from installation at National Grid Reference E: 308620 N: 207800, marked as 'Treated Effluent Discharge Point' on Drawing ESID7a, entitled 'Leachate Management Plan' and dated 21/04/04 submitted as part of the Application.

⁴ as specified in Table 2.2.12 of this Permit.

⁵ as specified in Table 1.3.1 of this Permit.

Quarterly
Quantity of waste deposited
Ambient air monitoring

Monthly
Leachate levels as mAOD
Basal elevation as mAOD
Waste volume

1. Stable, permanent survey control stations shall be established and maintained for the control of all survey work around the site. The stations shall be referenced to Ordnance Survey National Grid co-ordinates, the grid alignment to be within ± 1 metre and levels referenced to Ordnance Datum. The accuracy of horizontal control shall not be less than 1:20 000. The level values of adjacent stations shall agree to less than or equal to 0.005 metres. No waste shall be accepted at the site until a schedule of descriptions, co-ordinates and level values of all control stations, together with details of Bench Marks used, has been submitted in writing to the Agency.
2. A topographic survey shall be carried out immediately before the start of filling of each phase or cell, at annual intervals (unless otherwise agreed in writing by the Agency), and at the completion of restoration. The scale shall adequately show surveyed features and be at least 1:1250. The surveys shall be sufficient to produce plans that include all roads, structures, boundaries, monitoring points and all other relevant site features. The results of the survey shall be presented as a plan, including the immediate neighbouring landform or an indication of that landform. Plan positions of ground features to be shown to within 1 metre. Spot levels to 0.01m shall be shown at significant landform changes to a density to adequately indicate the true landform, no greater than 50 metre interval in open areas of even gradient, closer when indicating embankments, stockpiles, etc.

Schedule 3 - Forms to be used

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

Schedule 4 - Reporting of performance data

Leachate: Disposed of off site; Disposed of to any onsite effluent treatment plant.	Tonnes/year
Surface water and/ or groundwater: Disposed of off site; Disposed of to any onsite effluent treatment plant.	
Landfill gas: Disposed of by flare; Burnt in gas engine; Utilised by brickworks.	

	Frequency of assessment	Annual average	
Potable water use	Annually		Cu m/tonne of waste disposed
Energy used	Annually		MW of electricity/tonne of biodegradable waste disposed
Non potable water use	Annually		Cu m/tonne of waste disposed
Energy generated	Annually		MW of electricity/tonne of biodegradable waste disposed
Waste Hazard Score (from H1)	Annually		
Waste Disposal Score (from H1)	Annually		

Extract from Drawing No. ESID2, entitled 'Environmental Site Setting' and dated 05/05/04



Schedule 6 - List of Permitted Wastes

01 Wastes Resulting from Exploration, Mining, Quarrying, and Physical and Chemical Treatment of Minerals

01 01 wastes from mineral excavation

01 01 01 wastes from mineral metalliferous excavation

01 01 02 wastes from mineral non-metalliferous excavation

01 03 wastes from physical and chemical processing of metalliferous minerals

01 03 05* other tailings containing dangerous substances

01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05

01 03 07* other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals

01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07

01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 07

01 04 wastes from physical and chemical processing of non-metalliferous minerals

01 04 07* wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals

01 04 08 waste gravel and crushed rocks other than those mentioned in 01 04 07

01 04 09 waste sand and clays

01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07

01 04 11 wastes from potash and rock salt processing other than those mentioned in 01 04 07

01 04 12 tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11

01 04 13 wastes from stone cutting and sawing other than those mentioned in 01 04 07

01 05 drilling muds and other drilling wastes

01 05 04 freshwater drilling muds and wastes

01 05 07 barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06

01 05 08 chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06

02 Wastes from Agriculture, Horticulture, Aquaculture, Forestry, Hunting and Fishing, Food Preparation and Processing

02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing

02 01 01 sludges from washing and cleaning

02 01 03 plant-tissue waste

02 01 04 waste plastics (except packaging)

02 01 06 animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site

02 01 07 wastes from forestry

02 01 09 agrochemical waste other than those mentioned in 02 01 08

02 01 10 waste metal

02 02 wastes from the preparation and processing of meat, fish and other foods of animal origin

02 02 01 sludges from washing and cleaning

02 02 03 materials unsuitable for consumption or processing

02 02 04 sludges from on-site effluent treatment

02 03 wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation

02 03 01 sludges from washing, cleaning, peeling, centrifuging and separation

02 03 02 wastes from preserving agents

02 03 03 wastes from solvent extraction

02 03 04 materials unsuitable for consumption or processing

02 03 05 sludges from on-site effluent treatment

02 04 wastes from sugar processing
02 04 01 soil from cleaning and washing beet
02 04 02 off-specification calcium carbonate
02 04 03 sludges from on-site effluent treatment

02 05 wastes from the dairy products industry
02 05 01 materials unsuitable for consumption or processing
02 05 02 sludges from on-site effluent treatment

02 06 wastes from the baking and confectionery industry
02 06 01 materials unsuitable for consumption or processing
02 06 02 wastes from preserving agents
02 06 03 sludges from on-site effluent treatment

02 07 wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01 wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02 wastes from spirits distillation
02 07 03 wastes from chemical treatment
02 07 04 materials unsuitable for consumption or processing
02 07 05 sludges from on-site effluent treatment

03 Wastes from Wood Processing and the Production of Panels and Furniture, Pulp, Paper and Cardboard

03 01 wastes from wood processing and the production of panels and furniture
03 01 01 waste bark and cork
03 01 05 sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04

03 03 wastes from pulp, paper and cardboard production and processing
03 03 01 waste bark and wood
03 03 02 green liquor sludge (from recovery of cooking liquor)
03 03 05 de-inking sludges from paper recycling
03 03 07 mechanically separated rejects from pulping of waste paper and cardboard
03 03 08 wastes from sorting of paper and cardboard destined for recycling
03 03 09 lime mud waste
03 03 10 fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11 sludges from on-site effluent treatment other than those mentioned in 03 03 10

04 Wastes from the Leather, Fur and Textile Industries

04 01 wastes from the leather and fur industry
04 01 01 fleshings and lime split wastes
04 01 02 liming waste
04 01 06 sludges, in particular from on-site effluent treatment containing chromium
04 01 07 sludges, in particular from on-site effluent treatment free of chromium
04 01 08 waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
04 01 09 wastes from dressing and finishing

04 02 wastes from the textile industry
04 02 09 wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 10 organic matter from natural products (for example grease, wax)
04 02 17 dyestuffs and pigments other than those mentioned in 04 02 16
04 02 19* sludges from on-site effluent treatment containing dangerous substances
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

05 Wastes from Petroleum Refining, Natural Gas Purification and Pyrolytic Treatment of Coal

05 01 wastes from petroleum refining
05 01 10 sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13 boiler feedwater sludges
05 01 14 wastes from cooling columns
05 01 16 sulphur-containing wastes from petroleum desulphurisation
05 01 17 bitumen

05 06 wastes from the pyrolytic treatment of coal
05 06 04 waste from cooling columns

05 07 wastes from natural gas purification and transportation
05 07 02 wastes containing sulphur

06 Wastes from Inorganic Chemical Processes

06 03 wastes from the MFSU of salts and their solutions and metallic oxides
06 03 11* solid salts and solutions containing cyanides
06 03 13* solid salts and solutions containing heavy metals
06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 15* metallic oxides containing heavy metals
06 03 16 metallic oxides other than those mentioned in 06 03 15

06 04 metal-containing wastes other than those mentioned in 06 03
06 04 03* wastes containing arsenic
06 04 04* wastes containing mercury
06 04 05* wastes containing other heavy metals

06 05 sludges from on-site effluent treatment
06 05 02* sludges from on-site effluent treatment containing dangerous substances
06 05 03 sludges from on-site effluent treatment other than those mentioned in 06 05 02

06 09 wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes
06 09 02 phosphorous slag
06 09 03* calcium-based reaction wastes containing or contaminated with dangerous substances
06 09 04 calcium-based reaction wastes other than those mentioned in 06 09 03

06 11 wastes from the manufacture of inorganic pigments and opacifiers
06 11 01 calcium-based reaction wastes from titanium dioxide production

06 13 wastes from inorganic chemical processes not otherwise specified
06 13 02* spent activated carbon (except 06 07 02)
06 13 03 carbon black
06 13 04* wastes from asbestos processing

07 Wastes from Organic Chemical Processes

07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 10* other filter cakes and spent absorbents
07 01 11* sludges from on-site effluent treatment containing dangerous substances
07 01 12 sludges from on-site effluent treatment other than those mentioned in 07 01 11

07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 10* other filter cakes and spent absorbents
07 02 11* sludges from on-site effluent treatment containing dangerous substances
07 02 12 sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 13 waste plastic
07 02 14* wastes from additives containing dangerous substances
07 02 15 wastes from additives other than those mentioned in 07 02 14
07 02 17 wastes containing silicones other than those mentioned in 07 02 16

07 03 wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 10* other filter cakes and spent absorbents
07 03 11* sludges from on-site effluent treatment containing dangerous substances
07 03 12 sludges from on-site effluent treatment other than those mentioned in 07 03 11

07 04 wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 10* other filter cakes and spent absorbents
07 04 11* sludges from on-site effluent treatment containing dangerous substances
07 04 12 sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 04 13* solid wastes containing dangerous substances

07 05 wastes from the MFSU of pharmaceuticals

- 07 05 10* other filter cakes and spent absorbents
- 07 05 11* sludges from on-site effluent treatment containing dangerous substances
- 07 05 12 sludges from on-site effluent treatment other than those mentioned in 07 05 11
- 07 05 13* solid wastes containing dangerous substances
- 07 05 14 solid wastes other than those mentioned in 07 05 13

07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

- 07 06 12 sludges from on-site effluent treatment other than those mentioned in 07 06 11

07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified

- 07 07 10* other filter cakes and spent absorbents
- 07 07 11* sludges from on-site effluent treatment containing dangerous substances
- 07 07 12 sludges from on-site effluent treatment other than those mentioned in 07 07 11

08 Wastes from Manufacture, Formulation, Supply and Use (MFSU) of Coatings (Paints, Varnishes and Vitreous Enamels), Adhesives, Sealants and Printing Inks

08 01 wastes from MFSU and removal of paint and varnish

- 08 01 12 waste paint and varnish other than those mentioned in 08 01 11
- 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 02 wastes from MFSU of other coatings (including ceramic materials)

- 08 02 01 waste coating powders
- 08 02 02 aqueous sludges containing ceramic materials

08 03 wastes from MFSU of printing inks

- 08 03 07 aqueous sludges containing ink
- 08 03 13 waste ink other than those mentioned in 08 03 12
- 08 03 15 ink sludges other than those mentioned in 08 03 14
- 08 03 18 waste printing toner other than those mentioned in 08 03 17

08 04 wastes from MFSU of adhesives and sealants (including waterproofing products)

- 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09
- 08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11
- 08 04 14 aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13

09 Wastes from the Photographic Industry

09 01 wastes from the photographic industry

- 09 01 07 photographic film and paper containing silver or silver compounds
- 09 01 08 photographic film and paper free of silver or silver compounds
- 09 01 10 single-use cameras without batteries
- 09 01 12 single-use cameras containing batteries other than those mentioned in 09 01 11

10 Wastes from Thermal Processes

10 01 wastes from power stations and other combustion plants (except 19)

- 10 01 01 bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
- 10 01 02 coal fly ash
- 10 01 03 fly ash from peat and untreated wood
- 10 01 04* oil fly ash and boiler dust
- 10 01 05 calcium-based reaction wastes from flue-gas desulphurisation in solid form
- 10 01 13* fly ash from emulsified hydrocarbons used as fuel
- 10 01 14* bottom ash, slag and boiler dust from co-incineration containing dangerous substances
- 10 01 15 bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
- 10 01 16* fly ash from co-incineration containing dangerous substances M
- 10 01 17 fly ash from co-incineration other than those mentioned in 10 01 16
- 10 01 18* wastes from gas cleaning containing dangerous substances
- 10 01 19 wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
- 10 01 20* sludges from on-site effluent treatment containing dangerous substances
- 10 01 21 sludges from on-site effluent treatment other than those mentioned in 10 01 20

10 01 22* aqueous sludges from boiler cleansing containing dangerous substances
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 26 wastes from cooling-water treatment

10 02 wastes from the iron and steel industry

10 02 01 wastes from the processing of slag
10 02 02 unprocessed slag
10 02 07* solid wastes from gas treatment containing dangerous substances
10 02 08 solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10 mill scales
10 02 13* sludges and filter cakes from gas treatment containing dangerous substances
10 02 14 sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15 other sludges and filter cakes

10 03 wastes from aluminium thermal metallurgy

10 03 02 anode scraps
10 03 05 waste alumina
10 03 16 skimmings other than those mentioned in 10 03 15

10 03 18 carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 19* flue-gas dust containing dangerous substances
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 23* solid wastes from gas treatment containing dangerous substances
10 03 24 solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 25* sludges and filter cakes from gas treatment containing dangerous substances
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 other than those mentioned in 10 03 27
10 03 30 wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29

10 04 wastes from lead thermal metallurgy

10 04 04* flue-gas dust
10 04 06* solid wastes from gas treatment
10 04 07* sludges and filter cakes from gas treatment
10 04 10 wastes from cooling-water treatment other than those mentioned in 10 04 09

10 05 wastes from zinc thermal metallurgy

10 05 01 slags from primary and secondary production
10 05 03* flue-gas dust
10 05 04 other particulates and dust
10 05 05* solid waste from gas treatment
10 05 06* sludges and filter cakes from gas treatment
10 05 11 dross and skimmings other than those mentioned in 10 05 10

10 06 wastes from copper thermal metallurgy

10 06 01 slags from primary and secondary production
10 06 02 dross and skimmings from primary and secondary production
10 06 03* flue-gas dust
10 06 04 other particulates and dust
10 06 06* solid wastes from gas treatment
10 06 07* sludges and filter cakes from gas treatment
10 06 10 wastes from cooling-water treatment other than those mentioned in 10 06 09

10 07 wastes from silver, gold and platinum thermal metallurgy

10 07 01 slags from primary and secondary production
10 07 02 dross and skimmings from primary and secondary production
10 07 03 solid wastes from gas treatment
10 07 04 other particulates and dust
10 07 05 sludges and filter cakes from gas treatment
10 07 08 wastes from cooling-water treatment other than those mentioned in 10 07 07

10 08 wastes from other non-ferrous thermal metallurgy

10 08 04 particulates and dust
10 08 09 other slags
10 08 11 dross and skimmings other than those mentioned in 10 08 10

10 08 13 carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14 anode scrap
10 08 15* flue-gas dust containing dangerous substances
10 08 16 flue-gas dust other than those mentioned in 10 08 15
10 08 17* sludges and filter cakes from flue-gas treatment containing dangerous substances
10 08 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20 wastes from cooling-water treatment other than those mentioned in 10 08 19

10 09 wastes from casting of ferrous pieces

10 09 03 furnace slag
10 09 05* casting cores and moulds which have not undergone pouring containing dangerous substances
10 09 06 casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 07* casting cores and moulds which have undergone pouring containing dangerous substances
10 09 08 casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 09* flue-gas dust containing dangerous substances
10 09 10 flue-gas dust other than those mentioned in 10 09 09
10 09 11* other particulates containing dangerous substances
10 09 12 other particulates other than those mentioned in 10 09 11
10 09 13* waste binders containing dangerous substances
10 09 14 waste binders other than those mentioned in 10 09 13

10 10 wastes from casting of non-ferrous pieces

10 10 03 furnace slag
10 10 05* casting cores and moulds which have not undergone pouring, containing dangerous substances
10 10 06 casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05
10 10 07* casting cores and moulds which have undergone pouring, containing dangerous substances
10 10 08 casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 09* flue-gas dust containing dangerous substances
10 10 10 flue-gas dust other than those mentioned in 10 10 09
10 10 11* other particulates containing dangerous substances
10 10 12 other particulates other than those mentioned in 10 10 11
10 10 13* waste binders containing dangerous substances
10 10 14 waste binders other than those mentioned in 10 10 13

10 11 wastes from manufacture of glass and glass products

10 11 03 waste glass-based fibrous materials
10 11 05 particulates and dust
10 11 09* waste preparation mixture before thermal processing, containing dangerous substances
10 11 10 waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 11* waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes)
10 11 12 waste glass other than those mentioned in 10 11 11
10 11 13* glass-polishing and -grinding sludge containing dangerous substances
10 11 15* solid wastes from flue-gas treatment containing dangerous substances
10 11 16 solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 17* sludges and filter cakes from flue-gas treatment containing dangerous substances
10 11 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 11 19* solid wastes from on-site effluent treatment containing dangerous substances
10 11 20 solid wastes from on-site effluent treatment other than those mentioned in 10 11 19

10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products

10 12 01 waste preparation mixture before thermal processing
10 12 03 particulates and dust
10 12 05 sludges and filter cakes from gas treatment
10 12 06 discarded moulds

10 12 08 waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 09* solid wastes from gas treatment containing dangerous substances
10 12 10 solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 11* wastes from glazing containing heavy metals
10 12 12 wastes from glazing other than those mentioned in 10 12 11
10 12 13 sludge from on-site effluent treatment

10 13 wastes from manufacture of cement, lime and plaster and articles and products made from them

10 13 01 waste 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 09* wastes from asbestos-cement manufacture containing asbestos
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 12* solid wastes from gas treatment containing dangerous substances
10 13 13 solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14 waste concrete and concrete sludge

10 14 waste from crematoria

10 14 01* waste from gas cleaning containing mercury

11 Wastes from Chemical Surface Treatment and Coating of Metals and other Materials; Non-Ferrous Hydro-Metallurgy

11 01 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)

11 01 10 sludges and filter cakes other than those mentioned in 11 01 09
11 01 14 degreasing wastes other than those mentioned in 11 01 13
11 01 16* saturated or spent ion exchange resins

11 02 wastes from non-ferrous hydrometallurgical processes

11 02 02* sludges from zinc hydrometallurgy (including jarosite, goethite)
11 02 03 wastes from the production of anodes for aqueous electrolytical processes
11 02 06 wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 02 07* other wastes containing dangerous substances

11 05 wastes from hot galvanising processes

11 05 01 hard zinc
11 05 02 zinc ash
11 05 03* solid wastes from gas treatment
11 05 04* spent flux
11 05 99 wastes not otherwise specified

12 Wastes from Shaping and Physical and Mechanical Surface Treatment of Metals and Plastics

12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics

12 01 01 ferrous metal filings 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
12 01 05 plastics shavings and turnings
12 01 13 welding wastes
12 01 15 machining sludges other than those mentioned in 12 01 14

15 Waste Packaging; Absorbents, Wiping Cloths, Filter Materials and Protective Clothing not otherwise specified

15 01 packaging (including separately collected municipal packaging waste)

15 01 01 paper and cardboard packaging
15 01 02 plastic packaging
15 01 03 wooden packaging
15 01 04 metallic packaging

15 01 05 composite packaging
15 01 06 mixed packaging
15 01 07 glass packaging
15 01 09 textile packaging
15 02 03 absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

16 Wastes not otherwise specified in the list

16 01 end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)

16 01 03 end-of-life tyres
16 01 06 end-of-life vehicles, containing neither liquids nor other hazardous components
16 01 11* brake pads containing asbestos
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

16 02 wastes from electrical and electronic equipment

16 02 12* discarded equipment containing free asbestos
16 02 13* discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
16 02 14 discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 15* hazardous components removed from discarded equipment
16 02 16 components removed from discarded equipment other than those mentioned in 16 02 15

16 03 off-specification batches and unused products

16 03 03* inorganic wastes containing dangerous substances
16 03 04 inorganic wastes other than those mentioned in 16 03 03
16 03 06 organic wastes other than those mentioned in 16 03 05

16 04 waste explosives

16 04 01* waste ammunition, (as described in the Application)

16 06 batteries and accumulators

16 06 04 alkaline batteries (except 16 06 03)
16 06 05 other batteries and accumulators

16 08 spent catalysts

16 08 01 spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
16 08 02* spent catalysts containing dangerous transition metals or dangerous transition metal compounds
16 08 03 spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 08 05* spent catalysts containing phosphoric acid
16 08 07* spent catalysts contaminated with dangerous substances

16 11 waste linings and refractories

16 11 01* carbon-based linings and refractories from metallurgical processes containing dangerous substances
16 11 02 carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
16 11 03* other linings and refractories from metallurgical processes containing dangerous substances
16 11 04 other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 05* linings and refractories from non-metallurgical processes containing dangerous substances
16 11 06 linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05

17 Construction and Demolition Wastes (including excavated soil from contaminated sites)

17 01 concrete, bricks, tiles and ceramics

17 01 01 concrete

17 01 02 bricks

17 01 03 tiles and ceramics

17 01 06* mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances

17 01 07 mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06

17 02 wood, glass and plastic

17 02 01 wood

17 02 02 glass

17 02 03 plastic

17 02 04* glass, plastic and wood containing or contaminated with dangerous substances

17 03 bituminous mixtures, coal tar and tarred products

17 03 02 bituminous mixtures other than those mentioned in 17 03 01

17 04 metals (including their alloys)

17 04 01 copper, bronze, brass

17 04 02 aluminium

17 04 03 lead

17 04 04 zinc

17 04 05 iron and steel

17 04 06 tin

17 04 07 mixed metals

17 04 09* metal waste contaminated with dangerous substances

17 04 11 cables other than those mentioned in 17 04 10

17 05 soil (including excavated soil from contaminated sites), stones and dredging spoil

17 05 03* soil and stones containing dangerous substances

17 05 04 soil and stones other than those mentioned in 17 05 03

17 05 05* dredging spoil containing dangerous substances

17 05 06 dredging spoil other than those mentioned in 17 05 05

17 05 07* track ballast containing dangerous substances

17 05 08 track ballast other than those mentioned in 17 05 07

17 06 insulation materials and asbestos-containing construction materials

17 06 01* insulation materials containing asbestos

17 06 03* other insulation materials consisting of or containing dangerous substances

17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03

17 06 05* construction materials containing asbestos

17 09 other construction and demolition wastes

17 09 01* construction and demolition wastes containing mercury

17 09 02* construction and demolition wastes containing PCB

(for example PCB-containing sealants, PCB-containing resin-based floorings, PCB-containing sealed glazing units, PCB-containing capacitors)

17 09 03* other construction and demolition wastes (including mixed wastes) containing dangerous substances

17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

18 Wastes from Human and Animal Health Care and/or Related Research (except kitchen and restaurant wastes not arising from immediate health care)

18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans

18 01 01 sharps (except 18 01 03)

18 01 04 wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)

18 01 07 chemicals other than those mentioned in 18 01 06

18 02 wastes from research, diagnosis, treatment or prevention of disease involving animals

18 02 01 sharps (except 18 02 02)

18 02 03 wastes whose collection and disposal is not subject to special requirements in order to prevent infection

18 02 06 chemicals other than those mentioned in 18 02 05

19 Wastes from Waste Management Facilities, Off-site Waste Water Treatment Plants and the Preparation of Water Intended for Human Consumption and Water for Industrial Use

19 01 wastes from incineration or pyrolysis of waste

19 01 02 ferrous materials removed from bottom ash

19 01 05* filter cake from gas treatment

19 01 07* solid wastes from gas treatment

19 01 10* spent activated carbon from flue-gas treatment

19 01 12 bottom ash and slag other than those mentioned in 19 01 11

19 01 13* fly ash containing dangerous substances

19 01 14 fly ash other than those mentioned in 19 01 13

19 01 15* boiler dust containing dangerous substances

19 01 16 boiler dust other than those mentioned in 19 01 15

19 01 17* pyrolysis wastes containing dangerous substances

19 01 18 pyrolysis wastes other than those mentioned in 19 01 17

19 01 19 sands from fluidised beds

19 02 wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)

19 02 03 premixed wastes composed only of non-hazardous wastes

19 02 04* premixed wastes composed of at least one hazardous waste

19 02 05* sludges from physico/chemical treatment containing dangerous substances

19 02 06 sludges from physico/chemical treatment other than those mentioned in 19 02 05

19 02 10 combustible wastes other than those mentioned in 19 02 08 and 19 02 09

19 02 11* other wastes containing dangerous substances

19 03 stabilised/solidified wastes

19 03 04* wastes marked as hazardous, partly stabilised

19 03 05 stabilised wastes other than those mentioned in 19 03 04

19 03 06* wastes marked as hazardous, solidified

19 03 07 solidified wastes other than those mentioned in 19 03 06

19 04 vitrified waste and wastes from vitrification

19 04 01 vitrified waste

19 04 02* fly ash and other flue-gas treatment wastes

19 05 wastes from aerobic treatment of solid wastes

19 05 01 non-composted fraction of municipal and similar wastes

19 05 02 non-composted fraction of animal and vegetable waste

19 05 03 off-specification compost

19 06 wastes from anaerobic treatment of waste

19 06 04 digestate from anaerobic treatment of municipal waste

19 06 06 digestate from anaerobic treatment of animal and vegetable waste

19 08 wastes from waste water treatment plants not otherwise specified

19 08 01 screenings

19 08 02 waste from desanding

19 08 05 sludges from treatment of urban waste water

19 08 06* saturated or spent ion exchange resins

19 08 07* solutions and sludges from regeneration of ion exchangers

19 08 08* membrane system waste containing heavy metals

19 08 09 grease and oil mixture from oil/water separation containing only edible oil and fats

19 08 12 sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11

19 08 13* sludges containing dangerous substances from other treatment of industrial waste water

19 08 14 sludges from other treatment of industrial waste water other than those mentioned in 19 08 13

19 09 wastes from the preparation of water intended for human consumption or water for industrial use

- 19 09 01 solid waste from primary filtration and screenings
- 19 09 02 sludges from water clarification
- 19 09 03 sludges from decarbonation
- 19 09 04 spent activated carbon
- 19 09 05 saturated or spent ion exchange resins
- 19 09 06 solutions and sludges from regeneration of ion exchangers

19 10 wastes from shredding of metal-containing wastes

- 19 10 01 iron and steel waste
- 19 10 02 non-ferrous waste
- 19 10 03* fluff-light fraction and dust containing dangerous substances
- 19 10 04 fluff-light fraction and dust other than those mentioned in 19 10 03
- 19 10 05* other fractions containing dangerous substances M
- 19 10 06 other fractions other than those mentioned in 19 10 05

19 11 wastes from oil regeneration

- 19 11 07* wastes from flue-gas cleaning

19 12 wastes from the mechanical treatment of waste

(for example sorting, crushing, compacting, pelletising) not otherwise specified

- 19 12 01 paper and cardboard
- 19 12 02 ferrous metal
- 19 12 03 non-ferrous metal
- 19 12 04 plastic and rubber
- 19 12 05 glass
- 19 12 07 wood other than that mentioned in 19 12 06
- 19 12 08 textiles
- 19 12 09 minerals (for example sand, stones)
- 19 12 10 combustible waste (refuse derived fuel)

19 12 12 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

20 Municipal Wastes (Household waste and similar commercial, industrial and institutional wastes) including separately collected fractions

20 01 separately collected fractions (except 15 01)

- 20 01 01 paper and cardboard
- 20 01 02 glass
- 20 01 08 biodegradable kitchen and canteen waste
- 20 01 10 clothes
- 20 01 11 textiles
- 20 01 21* fluorescent tubes and other mercury-containing waste
- 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 34 batteries and accumulators other than those mentioned in 20 01 33
- 20 01 35* discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components
- 20 01 36 discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
- 20 01 38 wood other than that mentioned in 20 01 37
- 20 01 39 plastics
- 20 01 40 metals
- 20 01 41 wastes from chimney sweeping

20 02 garden and park wastes (including cemetery waste)

- 20 02 01 biodegradable waste
- 20 02 02 soil and stones
- 20 02 03 other non-biodegradable wastes

20 03 other municipal wastes

- 20 03 01 mixed municipal waste
- 20 03 02 waste from markets
- 20 03 03 street-cleaning residues
- 20 03 04 septic tank sludge
- 20 03 06 waste from sewage cleaning

20 03 07 bulky waste

Wastes described with a European Waste Catalogue code ending with "99", subject to obtaining the prior agreement required under condition 2.1.3.2:

01 03 99 wastes not otherwise specified
01 04 99 wastes not otherwise specified
01 05 99 wastes not otherwise specified
02 01 99 wastes not otherwise specified
02 02 99 wastes not otherwise specified
02 03 99 wastes not otherwise specified
02 04 99 wastes not otherwise specified
02 05 99 wastes not otherwise specified
02 06 99 wastes not otherwise specified
02 07 99 wastes not otherwise specified
03 01 99 wastes not otherwise specified
03 03 99 wastes not otherwise specified
04 01 99 wastes not otherwise specified
04 02 99 wastes not otherwise specified
05 01 99 wastes not otherwise specified
05 06 99 wastes not otherwise specified
05 07 99 wastes not otherwise specified
06 01 99 wastes not otherwise specified
06 02 99 wastes not otherwise specified
06 03 99 wastes not otherwise specified
06 04 99 wastes not otherwise specified
06 06 99 wastes not otherwise specified
06 08 99 wastes not otherwise specified
06 09 99 wastes not otherwise specified
06 10 99 wastes not otherwise specified
06 11 99 wastes not otherwise specified
06 13 99 wastes not otherwise specified
07 01 99 wastes not otherwise specified
07 02 99 wastes not otherwise specified
07 03 99 wastes not otherwise specified
07 05 99 wastes not otherwise specified
07 06 99 wastes not otherwise specified
07 07 99 wastes not otherwise specified
08 01 99 wastes not otherwise specified
08 02 99 wastes not otherwise specified
08 03 99 wastes not otherwise specified
08 04 99 wastes not otherwise specified
09 01 99 wastes not otherwise specified
10 01 99 wastes not otherwise specified
10 03 99 wastes not otherwise specified
10 05 99 wastes not otherwise specified
10 06 99 wastes not otherwise specified
10 07 99 wastes not otherwise specified
10 08 99 wastes not otherwise specified
10 09 99 wastes not otherwise specified
10 10 99 wastes not otherwise specified
10 11 99 wastes not otherwise specified
10 12 99 wastes not otherwise specified
10 13 99 wastes not otherwise specified
11 01 99 wastes not otherwise specified
12 01 99 wastes not otherwise specified
16 01 99 wastes not otherwise specified
16 07 99 wastes not otherwise specified
19 01 99 wastes not otherwise specified
19 02 99 wastes not otherwise specified
19 05 99 wastes not otherwise specified
19 06 99 wastes not otherwise specified
19 08 99 wastes not otherwise specified
19 09 99 wastes not otherwise specified
20 01 99 other fractions not otherwise specified
20 03 99 municipal wastes not otherwise specified

END OF PERMIT