

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Biffa Waste Services Limited

Clifton Hall Landfill Lumns Lane Swinton Manchester M27 8LN

Variation application number

EPR/BS7340IH/V006

Permit number

EPR/BS7340IH

Clifton Hall Landfill Permit number EPR/BS7340IH

Introductory note

This introductory note does not form a part of the notice.

The following gives notice of the variation and consolidation of this environmental permit. We have issued this variation to consolidate the original permit and subsequent variations and to update some of the conditions following a statutory review of permits in the landfill sector. We have also converted the permit into the current EPR permit format using modern conditions.

The Environment Agency has a duty, under the Environmental Permitting (England and Wales) Regulations 2010, regulation 34(1), to periodically review permits. As a result of that review we have identified a number of necessary changes we must make to your permit to reflect current legislation and best practice. These changes principally relate to:

- The addition of a standard condition for landfill gas management at all landfills;
- A change to the hydrogeological risk assessment condition so that reviews are undertaken every 6 years rather than every 4 years;
- Standard leachate and groundwater quality monitoring tables (schedule 3); and
- A standard reporting table (schedule 4).

Schedule 1 to this notice summarises the changes we have made to this permit.

| Status log of the permit | | |
|---|------------|--|
| Description | Date | Comments |
| Application EPR/BS7340IH/A001 Received | 08/12/2003 | |
| Response to request for information | 17/05/2004 | Responses dated 15/07/2004 and 26/08/2004 |
| Response to request for information | 25/11/2004 | Response dated 23/12/2004 |
| Permit EPR/BS7340IH/A001 determined | 29/04/2005 | |
| Variation EPR/BS7340IH/V002 (reference HP3833GR) determined | 17/02/2009 | |
| Variation EPR/BS7340IH/V003 (reference HP3037TP) Received | 01/07/2010 | |
| Variation EPR/BS7340IH/V003 (reference HP3037TP) determined | 15/07/2010 | |
| Variation EPR/BS7340IH/V004 (reference PP3536FS) determined | 05/09/2011 | |
| Variation EPR/BS7340IH/V005 determined | 28/05/2013 | Agency variation to implement the changes introduced by IED. |

| Status log of the permit | | |
|--|------------|--|
| Description | Date | Comments |
| Environment Agency Landfill Sector Review | 06/01/2016 | Varied and consolidated permit issued in modern condition format. |
| Permit reviewed | | |
| Variation determined EPR/BS7340IH/V006 | | Improvement Conditions 1-10 now discharged; IC11 for Restoration Waste quantities to be |
| Permit EPR/BS7340IH | | agreed. |
| Billing Ref: YP3538RL | | |

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number

EPR/BS7340IH

Issued to

Biffa Waste Services Limited ("the operator")

whose registered office is

Coronation Road Cressex High Wycombe Buckinghamshire HP12 3TZ

company registration number 946107

to operate a regulated facility at

Clifton Hall Landfill Lumns Lane Swinton Manchester M27 8LN

to the extent set out in the schedules.

The notice shall take effect from 06/01/2016

| Name | Date | |
|------------------|------------|--|
| Anne Nightingale | 06/01/2016 | |

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation. The following table summarises the latest changes to the landfill permit template, however your permit may contain more changes than this where your permit has not been varied to recent template conditions.

| Condition | Description of change | |
|-------------------|--|--|
| 1.5 | Generic condition to reflect the requirements of the Waste Framework Directive. | |
| 2.6.1(a) | Added reference to a specific table to clarify what wastes are permitted by which permitted activity. | |
| 2.6.2 | Added to separately identify the waste types and quantities that can be accepted for restoration. | |
| 2.9 | Revised gas management condition imposed for all landfills. | |
| 3.1.1 | Generic condition imposed on all activities to simplify sub-conditions | |
| 3.1.4 to 3.1.5 | Revised conditions to reflect the terminology used by the Groundwater Directive for 'hazardous substances' and to require hydrogeological risk assessment reviews are submitted every 6 years rather than every 4 years. | |
| | Sub-condition that referred to emission of 'non-hazardous pollutants' deleted. Such emissions are regulated by condition 3.2. | |
| | Two sub-conditions that referred to limits in specific tables in schedule 3 deleted as they are now covered by 3.1.1. | |
| 3.6 | Revised generic pests condition imposed on all activities. | |
| 4.2.2 | Amended to ensure that information on 'annual production/ treatment' (Schedule 4, Table S4.2) is provided in February each year where annual reports may be submitted at other times of the year. | |
| 4.2.2(a) | Text expanded to clarify the details we require in an annual report. | |
| 4.2.2(h) | New condition requiring annual submission of a plan of monitoring and extraction locations with reference to monitoring tables in schedule 3 | |
| 4.3.1 | Generic notifications condition added. | |
| Schedules | | |
| Table S1.1 | Amended description of the landfill activity to clarify that this includes restoration. | |
| | Activity references amended to reflect changes introduced by Industrial Emissions Directive (2010/75/EU). | |
| | Leachate storage moved from a specified activity to Directly Associated Activities. | |
| Table S1.4 | Amended to clarify that restoration is a separate part of the activity unrelated to landfill cover. | |
| Schedule 2 | Standard list of wastes added. | |
| Schedule 3 | Monitoring and compliance tables have been re-ordered so that those with compliance limits appear first. | |
| | Standard monitoring frequency and parameters have been included for certain routine monitoring requirements | |
| Table S4.1 | Amended to only require regular reports of information that relate to compliance limits. | |
| Table S4.2 | Additional details of landfill gas extracted required to improve climate change data quality. | |
| Table S4.3 | Amended to include natural gas as an energy source for consistency with other sectors. | |
| | | |

| Condition | Description of change |
|-----------|----------------------------|
| | Exceeded |
| | Hazardous substance |
| | Medicinal product |
| | Previous year |
| | Waste acceptance criteria |
| | Waste acceptance procedure |

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/BS7340IH

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BS7340IH/V006 authorising,

Biffa Waste Services Limited ("the operator"),

whose registered office is

Coronation Road Cressex High Wycombe Buckinghamshire HP12 3TZ

company registration number 946107

to operate an installation at

Clifton Hall Landfill Lumns Lane Swinton Manchester M27 8LN

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

| Name | Date |
|------------------|------------|
| Anne Nightingale | 06/01/2016 |

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
 - (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Finance

- 1.2.1 The financial provision for meeting the obligations under this permit set out in the agreement made between the operator and the Environment Agency dated 6th May 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 Environment Agency.
- 1.2.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover the cost of operating the landfill, as far as possible the cost of the financial provision required by condition 1.3.1 and the estimated costs for the closure and aftercare of the landfill.
- 1.2.3 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:
 - (a) the costs of setting up and operating the landfill;
 - (b) the costs of the financial provision required by condition 1.2.1; and
 - (c) the estimated costs for the closure and aftercare of the landfill.

1.3 Energy efficiency

- 1.3.1 The operator shall:
 - (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) Review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) Implement any appropriate measures identified by a review.

1.4 Efficient use of raw materials

- 1.4.1 The operator shall:
 - take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;

- (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
- (d) take any further appropriate measures identified by a review.

1.5 Avoidance, recovery and disposal of wastes produced by the activities

- 1.5.1 The operator shall:
 - take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;
 - (b) review and record at least every four years whether changes to those measures should be made; and
 - (c) take any further appropriate measures identified by a review.

2 **Operations**

2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.4 Improvement programme

2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

2.5 Landfill Engineering

2.5.1 No construction of any new cell of the landfill shall commence until the operator has submitted construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.

- 2.5.2 Where the operator proposes to construct any new cell other than the first cell, but proposes no change from the design of the most recently approved cell which could have any impact on the performance of any element of the design, no construction of the new cell shall commence until the operator has submitted a cell layout drawing and the Environment Agency has confirmed that it is satisfied with the cell layout drawing.
- 2.5.3 The construction of a new cell shall take place only in accordance with the approved construction proposals unless:
 - (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Environment Agency.
- 2.5.4 No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and the Environment Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.5.5 No construction of landfill infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.5.6 The construction of the landfill infrastructure shall take place only in accordance with the approved construction proposals unless:
 - (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Environment Agency.
- 2.5.7 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant landfill infrastructure.
- 2.5.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.5.5 and 2.5.6 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.
- 2.5.9 For the purposes of conditions 2.5.1,2.5.2, 2.5.4 and 2.5.5, the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:
 - (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.
- 2.5.10 Where the Environment Agency has required further information under condition 2.5.9(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:
 - (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.

2.6 Waste acceptance

- 2.6.1 Wastes shall only be accepted for disposal if:
 - (a) they are listed in schedule 2, table S2.1 and
 - (b) they are non-hazardous waste and
 - (c) they are not whole used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm), and
 - (d) they are not shredded used tyres, and

- (e) they are not liquid waste (including waste waters but excluding sludge and excluding liquid waste accepted at a permitted leachate treatment activity), and
- (f) they are not 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, and
- (g) all the relevant waste acceptance procedures have been completed, and
- (h) they fulfil the relevant waste acceptance criteria, and
- (i) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
- (j) they are wastes which have 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, or liquid waste accepted for treatment at a permitted leachate treatment activity, and
- (k) they are wastes with a code beginning with 07 05 and 16 03, they shall exclude waste medicinal products and pharmaceutically active waste materials arising from their manufacture.
- 2.6.2 Wastes shall only be accepted for restoration where:
 - (a) they are listed in schedule 2, table S2.2 and
 - (b) they are accepted in accordance with a restoration plan approved in writing by the Environment Agency.
- 2.6.3 The operator shall:
 - (a) visually inspect without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill and waste at the point of deposit; and
 - (b) be satisfied that the waste conforms to the requirements of condition 2.6.1.
- 2.6.4 Where the operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.
- 2.6.5 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.6.6 The total quantity of waste that shall be deposited or recovered in the landfill shall be limited by the pre-settlement levels shown on drawing number 1, dated 4th May 2005.
- 2.6.7 The quantity of waste that is deposited or recovered in the landfill in any year shall not exceed the limits in schedule 1 table S1.4.
- 2.6.8 The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or recovery and of the identity of the producer, or in the case of municipal waste and multiple collection vehicles, of the collector of such waste. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

2.7 Leachate levels

2.7.1 The limits for the level of leachate listed in schedule 3 table S3.1 shall not be exceeded.

2.8 Closure and aftercare

2.8.1 The operator shall maintain a closure and aftercare management plan.

2.9 Landfill gas management

- 2.9.1 The operator shall take appropriate measures, including, but not limited to, those specified in any approved landfill gas management plan, to:
 - (a) collect landfill gas; and
 - (b) control the migration of landfill gas.
- 2.9.2 The operator shall use the collected landfill gas to produce energy. If the collected landfill gas cannot be used to produce energy, the operator shall use appropriate measures to flare or treat the gas in accordance with an approved landfill gas management plan.
- 2.9.3 The operator shall:
 - (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a revised landfill gas management plan;
 - (b) implement the revised landfill gas management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 The limits in Schedule 3 shall not be exceeded.
- 3.1.2 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.2, S3.3 and S3.6.
- 3.1.3 For the following activities referenced in schedule 1, table S1.1 (A2 and A5) The limits given in Table S3.2 shall not be exceeded, save that compliance with an emission limit in that table shall include incorporation of the uncertainty allowance stated in Environment Agency guidance LFTGN 05 and LFTGN 08.
- 3.1.4 The operator shall prevent the input of any hazardous substances from the activities into groundwater.
- 3.1.5 The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:
 - (a) between nine and six months prior to the fourth anniversary of the granting of the permit, and
 - (b) between nine and six months prior to every subsequent six years after the fourth anniversary of the granting of the permit.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring and any other actions specified in the following tables in schedule 3 to this permit:
 - (a) Leachate specified in tables S3.1 and S3.9;
 - (b) Point source emissions specified in tables S3.2 and S3.3;
 - (c) Groundwater specified in tables S3.4 and S3.7;
 - (d) Landfill gas specified in tables S3.5, S3.6 and S3.8;
 - (e) Surface water specified in table S3.10; and
 - (f) Ambient air specified in table S3.11.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including 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.
- 3.5.3 A topographical survey of the site referenced to ordnance datum shall be carried out and shall be used to produce a plan of a scale adequate to show the surveyed features of the site:
 - (a) annually, and
 - (b) prior to the disposal of waste in any new cell or new development area of the landfill, and
 - (c) following closure of the landfill or part of the landfill.

3.6 Pests

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
 - (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution hazard or annoyance from pests;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
 - (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) the results of groundwater monitoring;
 - (ii) sub-surface landfill gas monitoring;
 - (iii) leachate levels, quality and quantities;
 - (iv) landfill gas generation and collection;
 - (v) waste types and quantities; and
 - (vi) the specification and as built drawings of the basal, sidewall and capping engineering systems.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year ('the annual report') shall be submitted to the Environment Agency by 31st January each year or such other date as may be agreed in writing by the Agency, with the exception of 4.2.2(c) that must be provided by the end of February each year. The report(s) shall include as a minimum:
 - (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this installation and any agreed amendments thereto. The review will

include written descriptions of the improvements made to operational performance during the year, action plans developed and planned improvements for the coming year;

- (b) the energy consumed at the site, reported in the format set out in schedule 4 table S4.3
- (c) the annual production/treatment set out in schedule 4 table S4.2;
- (d) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
- the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;
- (f) an assessment of the settlement behaviour of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
- (g) a calculation of the remaining capacity (reported in cubic metres) derived from the presettlement contours and the most recent topographical survey;
- (h) a plan(s) ('the monitoring and extraction point plan MEPP') showing the locations of leachate and landfill gas extraction and all monitoring points.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
 - (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) using the forms specified in schedule 4 table S4.4 or other reporting format as agreed in writing with the Environment Agency; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 Within one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.
- 4.2.5 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

- 4.3.1 (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
 - (b) in the event of a breach of any permit condition the operator must immediately-
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator

must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) 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 of them being in a partnership, dissolving the partnership.
- 4.3.4 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
 - (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

| Table S1.1 a | activities | | | |
|--------------------|--|--|---|--|
| Activity reference | WFD Annex I and II operations (where applicable) | Activity listed in Schedule 1 of the EP Regulations | Description of specified activity | Limits of specified activity |
| A1 | D5 –Specially engineered landfill; R5 - the recycling or reclamation of inorganic material and R10 – Land treatment resulting in benefit to agriculture or ecology | Section 5.2 Part A(1) (a) , The disposal of waste in a landfill. | Landfill for non-hazardous waste and landfill restoration | Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.6, as an integral part of landfilling. |
| Directly Ass | sociated Activities | | | |
| A2 | R1 – use principally as a fuel to generate energy | | Pre-treatment and utilisation of landfill gas for energy recovery in an appliance with a rated thermal input < 50MW | Treatment and utilisation of landfill gas arising from the landfill. |
| A3 | N/A | | Temporary storage of waste (leachate) | Leachate arising from the landfill. |
| A4 | N/A | | Flaring of landfill gas for disposal in an appliance. | Landfill gas arising from the landfill. |
| A5 | D6 – release to water body except seas/ oceans | | Discharges of site drainage from the landfill. | From surface water management system to point of entry to controlled waters. |

| Table S1.2 Operating techniques | | |
|----------------------------------|---|---------------------------|
| Description | Parts | Date Received |
| Application | The response to questions 1.2, 2.1, 2.2, 2.3, 2.4 and 2.5 in Part B of the Application Form, but excluding sections 2.2.2, 2.2.5, 2.3.6, 2.3.7, 2.3.8, 2.3.9, 2.3.34, 2.3.36, 2.3.37, 2.3.43, 2.3.46, 2.3.49, 2.3.53, 2.3.57, 2.3.71 and 2.3.77 | 08/12/2003 |
| Response to Letter of 17/05/2004 | All Parts | 15/07/2004 and 26/08/2004 |
| Response to Schedule 4 | All Parts (except question 25) | 23/12/20104 |
| | Gas Management Plan edition IV – November 2007 | 12/03/2008 |
| Biffa Internal Document | Clifton Hall Clinical Waste Management – Bulking up of Clinical Waste for disposal at Clifton Hall Landfill – Drawing Title: Traffic Management, drawing number TM1 dated August 2011 | 28/12/2011 |

| Table S1.3 Improvement programme requirements | | |
|--|--|--|
| Reference Requirement Date | | Date |
| 11The Operator shall submit to the Environment Agency in writing for approval a restoration plan for the site which includes revised waste quantities for wastes for restorationWithin 12 months of the of this Permit Variation | | Within 12 months of the issue of this Permit Variation |

| Table S1.4 Annual waste input limits | |
|--------------------------------------|--------|
| Category Limit Tonnes/ Year | |
| Non-hazardous waste 500,000 | |
| Inert waste | 33,200 |
| Naste for restoration 9,999 | |

Schedule 2 – 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 physical and chemical processing of metalliferous minerals 01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05 01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07 01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 10 01 04 wastes from physical and chemical processing of non-metalliferous minerals 01 04 08 wastes from physical and crocks other than those mentioned in 01 04 07 01 04 04 wastes from physical and crocks other than those mentioned in 01 04 07 01 04 04 wastes from physical and rocks salt processing other than those mentioned in 01 04 07 01 04 11 wastes from some and nock 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 05 05 and 01 05 04 01 05 04 freshwater drilling muds and wastes 01 05 05 chirtle-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 02 Wastes from agriculture, horticulture, aquaculture, fores | Table S2.1 Per | rmitted waste types for disposal at a landfill for non-hazardous waste | |
|---|----------------|--|--|
| treatment of mineral secavation 01 01 wastes from mineral metalliferous excavation 01 01 02 wastes from mineral non-metalliferous excavation 01 03 wastes from physical and chemical processing of metalliferous minerals 01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05 01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07 01 04 wastes from physical and chemical processing of non-metalliferous minerals 01 04 wastes from physical and chemical processing of non-metalliferous minerals 01 04 08 waste gravel and crushed rocks other than those mentioned in 01 04 07 01 04 09 wastes from potent on the set processing of non-metalliferous minerals 01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07 01 04 10 wastes from potesh 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 01 05 04 freshwater drilling muds and wastes 01 05 05 chriding milling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing 02 01 03 pla | Waste code | Description | |
| 01 01 01 wastes from mineral metalliferous excavation 01 01 02 wastes from physical and chemical processing of metalliferous minerals 01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05 01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07 01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 10 01 04 wastes from physical and chemical processing of non-metalliferous minerals 01 04 08 waste gravel and crushed rocks other than those mentioned in 01 04 07 01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07 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 01 04 13 wastes from stone cutting and sawing other than those mentioned in 01 04 07 01 05 0 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 02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing 02 01 01 sludges from washing and cleaning | 01 | | |
| 01 01 02 wastes from mineral non-metalliferous excavation 01 03 wastes from physical and chemical processing of metalliferous minerals 01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05 01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07 01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 10 01 04 wastes from physical and chemical processing of non-metalliferous minerals 01 04 08 waste gravel and crushed rocks other than those mentioned in 01 04 07 01 04 09 waste sand and clays 01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07 01 04 10 wastes from potash and rock salt processing other than those mentioned in 01 04 07 01 04 11 wastes from stone cutting and saving 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 01 05 04 freshwater drilling muds and wastes 01 05 05 drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 01 05 06 chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 02 01 03 plant-tissue waste 02 01 04 wastes from agriculture, ho | 01 01 | wastes from mineral excavation | |
| Old 03 wastes from physical and chemical processing of metalliferous minerals 01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05 01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07 01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 10 01 04 wastes from physical and chemical processing of non-metalliferous minerals 01 04 08 waste gravel and crushed rocks other than those mentioned in 01 04 07 01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07 01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07 01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07 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 01 04 13 wastes from stone cutting and sawing other than those mentioned in 01 04 07 01 05 04 freshwater drilling muds and wastes 01 05 05 drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 01 05 08 chloride-containing dril | 01 01 01 | wastes from mineral metalliferous excavation | |
| 01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05 01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07 01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 10 01 04 wastes from physical and chemical processing of non-metalliferous minerals 01 04 08 waste gravel and crushed rocks other than those mentioned in 01 04 07 01 04 09 waste sand and clays 01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07 01 04 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 01 04 13 wastes from stone cutting and sawing other than those mentioned in 01 04 07 01 05 04 freshwater drilling muds and wastes 01 05 05 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 01 sludges from washing and cleaning 02 01 02 animal facese, urine and manure (including spoiled straw), effluent, collected separately a | 01 01 02 | wastes from mineral non-metalliferous excavation | |
| 0103 08 dusty and powdery wastes other than those mentioned in 01 03 07 0103 09 red mud from alumina production other than the wastes mentioned in 01 03 10 0104 wastes from physical and chemical processing of non-metalliferous minerals 0104 08 waste gravel and crushed rocks other than those mentioned in 01 04 07 0104 09 waste sand and clays 0104 10 dusty and powdery wastes other than those mentioned in 01 04 07 0104 11 wastes from potash and rock salt processing other than those mentioned in 01 04 07 0104 12 tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 0104 13 wastes from stone cutting and sawing other than those mentioned in 01 04 07 0105 04 freshwater drilling muds and wastes 0105 05 baritie containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 010 508 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, and treated off-site 02 01 03 plant-tissue waste 02 01 04 wastes from forestry | 01 03 | wastes from physical and chemical processing of metalliferous minerals | |
| 01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 10 01 04 wastes from physical and chemical processing of non-metalliferous minerals 01 04 08 waste gravel and crushed rocks other than those mentioned in 01 04 07 01 04 09 waste sand and clays 01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07 01 04 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 01 04 13 wastes from stone cutting and sawing other than those mentioned in 01 04 07 01 05 04 freshwater drilling muds and wastes 01 05 05 drilling muds and other drilling wastes 01 05 06 barite-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 washing and cleaning 02 01 01 sludges from washing and cleaning 02 01 02 uastes from forestry 02 01 03 plant-tissue waste 02 01 04 | 01 03 06 | tailings other than those mentioned in 01 03 04 and 01 03 05 | |
| 01 04 wastes from physical and chemical processing of non-metalliferous minerals 01 04 08 waste gravel and crushed rocks other than those mentioned in 01 04 07 01 04 09 waste sand and clays 01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07 01 04 11 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 02 Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing 02 01 wastes from washing and cleaning 02 01 03 plant-tissue waste 02 01 04 waste from forestry 02 01 04 waste from forestry 02 01 06 animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treaded off-site 02 01 07 wastes from forestry | 01 03 08 | dusty and powdery wastes other than those mentioned in 01 03 07 | |
| 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 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 0 drilling muds and other drilling wastes 01 05 04 freshwater drilling muds and wastes 01 05 05 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 01 skudges from washing and cleaning 02 01 03 plant-tissue waste 02 01 04 wastes plastics (except packaging) 02 01 06 animal facese, urine and manure (including spoiled straw), effluent, collected separately and treated off-site 02 01 07 | 01 03 09 | red mud from alumina production other than the wastes mentioned in 01 03 10 | |
| 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 05 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 washing and cleaning 02 01 01 sludges from washing and cleaning 02 01 02 uastes from forestry 02 01 04 wastes from forestry 02 01 05 animal facese, urine and manure (including spoiled straw), effluent, collected separately and treated off-site 02 01 07 wastes from the preparation and processing of meat, fish and other foods of animal origin 02 01 09 agrochemical waste oth | 01 04 | wastes from physical and chemical processing of non-metalliferous minerals | |
| 01 04 10dusty and powdery wastes other than those mentioned in 01 04 0701 04 11wastes from potash and rock salt processing other than those mentioned in 01 04 0701 04 12tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 1101 04 13wastes from stone cutting and sawing other than those mentioned in 01 04 0701 05drilling muds and other drilling wastes01 05 04freshwater drilling muds and wastes01 05 05barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0601 05 08chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0602Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing02 01wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing of 01 0302 01 03plant-tissue waste02 01 04waste plastics (except packaging)02 01 05animal facees, urine and manure (including spoiled straw), effluent, collected separately and treated off-site02 01 07wastes from forestry02 01 09agrochemical waste other than those mentioned in 02 01 0802 02 01sludges from washing and cleaning02 02 01sludges from the preparation and processing of meat, fish and other foods of animal origin02 02 03materials unsuitable for consumption or processing | 01 04 08 | waste gravel and crushed rocks 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 0 sludges from washing and cleaning 02 01 01 sludges from washing and cleaning 02 01 03 plant-tissue waste 02 01 04 wastes from forestry 02 01 07 wastes from forestry 02 01 08 animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site 02 01 07 wastes from the preparation and processing of meat, fish and other foods of animal origin 02 02 01 sludge | 01 04 09 | waste sand and clays | |
| 01 04 12tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 1101 04 13wastes from stone cutting and sawing other than those mentioned in 01 04 0701 05drilling muds and other drilling wastes01 05 04freshwater drilling muds and wastes01 05 07barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0601 05 08chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0602Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing02 01wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing ustes from washing and cleaning02 01 01sludges from waste and treated off-site02 01 03plant-tissue waste02 01 04wastes from forestry02 01 07wastes from forestry02 01 08agrochemical waste other than those mentioned in 02 01 0802 01 09agrochemical waste other than those mentioned in 02 01 0802 01 09agrochemical waste other than those mentioned in 02 01 0802 01 09agrochemical waste other than those mentioned in 02 01 0802 02 01sludges from washing and cleaning02 02 01sludges from washing and cleaning02 02 03materials unsuitable for consumption or processing | 01 04 10 | dusty and powdery wastes other than those mentioned in 01 04 07 | |
| mentioned in 01 04 07 and 01 04 1101 04 13wastes from stone cutting and sawing other than those mentioned in 01 04 0701 05drilling muds and other drilling wastes01 05 04freshwater drilling muds and wastes01 05 07barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0601 05 08chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0602Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing02 01wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing 02 01 0102 01 01sludges from washing and cleaning02 01 03plant-tissue waste02 01 04waste plastics (except packaging)02 01 05animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site02 01 09agrochemical waste other than those mentioned in 02 01 0802 02 01sludges from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from washing and cleaning02 02 01sludges from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from the preparation and processing of meat, fish and other foods of animal origin02 02 03materials unsuitable for consumption or processing | 01 04 11 | wastes from potash and rock salt processing other than those mentioned in 01 04 07 | |
| O1 05drilling muds and other drilling wastes01 05 04freshwater drilling muds and wastes01 05 07barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0601 05 08chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0602Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing02 01wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing 02 01 0102 01 01sludges from washing and cleaning02 01 02uwaste plastics (except packaging)02 01 04waste plastics (except packaging)02 01 05animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site02 01 07wastes from forestry02 01 09agrochemical waste other than those mentioned in 02 01 0802 02 01sludges from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from the preparation and processing of meat, fish and other foods of animal origin02 02 03materials unsuitable for consumption or processing | 01 04 12 | | |
| O1 05 04freshwater drilling muds and wastes01 05 07barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0601 05 08chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0602Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing02 01wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing food preparation and processing02 01wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing o2 01 0102 01 01sludges from washing and cleaning02 01 03plant-tissue waste02 01 04waste plastics (except packaging)02 01 05animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site02 01 07wastes from forestry02 01 09agrochemical waste other than those mentioned in 02 01 0802 02wastes from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from washing and cleaning02 02 03materials unsuitable for consumption or processing | 01 04 13 | wastes from stone cutting and sawing other than those mentioned in 01 04 07 | |
| 01 05 07barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0601 05 08chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0602Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing02 01wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing 102 01 0102 01 01sludges from washing and cleaning02 01 03plant-tissue waste02 01 04waste plastics (except packaging)02 01 05animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site02 01 07wastes from forestry02 01 09agrochemical waste other than those mentioned in 02 01 0802 02 01sludges from washing and cleaning02 02 01sludges from the preparation and processing of meat, fish and other foods of animal origin02 02 03materials unsuitable for consumption or processing | 01 05 | drilling muds and other drilling wastes | |
| 01 05 0601 05 08chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 0602Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing02 01wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing 02 01 0102 01 01sludges from washing and cleaning02 01 03plant-tissue waste02 01 04waste plastics (except packaging)02 01 05animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site02 01 07wastes from forestry02 01 09agrochemical waste other than those mentioned in 02 01 0802 02wastes from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from washing and cleaning02 02 03materials unsuitable for consumption or processing | 01 05 04 | freshwater drilling muds and wastes | |
| 01 05 0602Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing02 01wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing02 01wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing02 01 01sludges from washing and cleaning02 01 03plant-tissue waste02 01 04waste plastics (except packaging)02 01 06animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site02 01 07wastes from forestry02 01 09agrochemical waste other than those mentioned in 02 01 0802 02wastes from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from washing and cleaning02 02 03materials unsuitable for consumption or processing | 01 05 07 | | |
| food preparation and processing02 01wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing02 01 01sludges from washing and cleaning02 01 03plant-tissue waste02 01 04waste plastics (except packaging)02 01 06animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site02 01 07wastes from forestry02 01 09agrochemical waste other than those mentioned in 02 01 0802 02wastes from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from washing and cleaning02 02 03materials unsuitable for consumption or processing | 01 05 08 | chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 | |
| 02 01 01sludges from washing and cleaning02 01 03plant-tissue waste02 01 04waste plastics (except packaging)02 01 04animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site02 01 07wastes from forestry02 01 09agrochemical waste other than those mentioned in 02 01 0802 02wastes from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from washing and cleaning02 02 03materials unsuitable for consumption or processing | 02 | | |
| 02 01 03plant-tissue waste02 01 04waste plastics (except packaging)02 01 06animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site02 01 07wastes from forestry02 01 09agrochemical waste other than those mentioned in 02 01 0802 02wastes from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from washing and cleaning materials unsuitable for consumption or processing | 02 01 | wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing | |
| 02 01 04waste plastics (except packaging)02 01 06animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site02 01 07wastes from forestry02 01 09agrochemical waste other than those mentioned in 02 01 0802 02wastes from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from washing and cleaning02 02 03materials unsuitable for consumption or processing | 02 01 01 | sludges from washing and cleaning | |
| 02 01 06animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site02 01 07wastes from forestry02 01 09agrochemical waste other than those mentioned in 02 01 0802 02wastes from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from washing and cleaning02 02 03materials unsuitable for consumption or processing | 02 01 03 | plant-tissue waste | |
| and treated off-site02 01 07wastes from forestry02 01 09agrochemical waste other than those mentioned in 02 01 0802 02wastes from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from washing and cleaning02 02 03materials unsuitable for consumption or processing | 02 01 04 | waste plastics (except packaging) | |
| 02 01 09agrochemical waste other than those mentioned in 02 01 0802 02wastes from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from washing and cleaning02 02 03materials unsuitable for consumption or processing | 02 01 06 | | |
| 02 02wastes from the preparation and processing of meat, fish and other foods of animal origin02 02 01sludges from washing and cleaning02 02 03materials unsuitable for consumption or processing | 02 01 07 | wastes from forestry | |
| animal origin 02 02 01 sludges from washing and cleaning 02 02 03 materials unsuitable for consumption or processing | 02 01 09 | agrochemical waste other than those mentioned in 02 01 08 | |
| 02 02 03 materials unsuitable for consumption or processing | 02 02 | | |
| | 02 02 01 | sludges from washing and cleaning | |
| 02 02 04 sludges from on-site effluent treatment | 02 02 03 | materials unsuitable for consumption or processing | |
| | 02 02 04 | sludges from on-site effluent treatment | |

| Table S2.1 Per | rmitted waste types for disposal at a landfill for non-hazardous waste | |
|----------------|--|--|
| Waste code | Description | |
| 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 | |

| Table S2.1 Perr | nitted waste types for disposal at a landfill for non-hazardous waste |
|---|--|
| Waste code | Description |
| 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 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 05 01 10 | wastes from petroleum refiningsludges from on-site effluent treatment other than those mentioned in 05 01 09 |
| | |
| 05 01 10 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 |
| 05 01 10 05 01 13 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 boiler feedwater sludges |
| 05 01 10 05 01 13 05 01 14 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 boiler feedwater sludges wastes from cooling columns |
| 05 01 10 05 01 13 05 01 14 05 01 16 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 boiler feedwater sludges wastes from cooling columns sulphur-containing wastes from petroleum desulphurisation |
| 05 01 10 05 01 13 05 01 14 05 01 16 05 01 17 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 boiler feedwater sludges wastes from cooling columns sulphur-containing wastes from petroleum desulphurisation bitumen |
| 05 01 10 05 01 13 05 01 14 05 01 16 05 01 17 05 06 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 boiler feedwater sludges wastes from cooling columns sulphur-containing wastes from petroleum desulphurisation bitumen wastes from the pyrolytic treatment of coal |
| 05 01 10 05 01 13 05 01 14 05 01 16 05 01 17 05 06 05 06 04 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 boiler feedwater sludges wastes from cooling columns sulphur-containing wastes from petroleum desulphurisation bitumen wastes from the pyrolytic treatment of coal waste from cooling columns |
| 05 01 10 05 01 13 05 01 14 05 01 16 05 01 17 05 06 05 06 04 05 07 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 boiler feedwater sludges wastes from cooling columns sulphur-containing wastes from petroleum desulphurisation bitumen wastes from the pyrolytic treatment of coal waste from cooling columns waste from natural gas purification and transportation |
| 05 01 10 05 01 13 05 01 14 05 01 16 05 01 17 05 06 05 06 04 05 07 05 07 02 | sludges from on-site effluent treatment other than those mentioned in 05 01 09boiler feedwater sludgeswastes from cooling columnssulphur-containing wastes from petroleum desulphurisationbitumenwastes from the pyrolytic treatment of coalwaste from cooling columnswaste from cooling columnswastes from natural gas purification and transportationwastes containing sulphur |
| 05 01 10 05 01 13 05 01 14 05 01 16 05 01 17 05 06 05 06 04 05 07 05 07 02 06 | sludges from on-site effluent treatment other than those mentioned in 05 01 09boiler feedwater sludgeswastes from cooling columnssulphur-containing wastes from petroleum desulphurisationbitumenwastes from the pyrolytic treatment of coalwaste from cooling columnswaste from cooling columnswastes from natural gas purification and transportationwastes from inorganic chemical processes |
| 05 01 10 05 01 13 05 01 14 05 01 16 05 01 17 05 06 05 06 04 05 07 05 07 02 06 06 03 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 boiler feedwater sludges wastes from cooling columns sulphur-containing wastes from petroleum desulphurisation bitumen wastes from the pyrolytic treatment of coal wastes from cooling columns wastes from the pyrolytic treatment of coal wastes from natural gas purification and transportation wastes containing sulphur Wastes from inorganic chemical processes wastes from the MFSU of salts and their solutions and metallic oxides |
| 05 01 10 05 01 13 05 01 14 05 01 16 05 01 17 05 06 05 06 04 05 07 05 07 02 06 06 03 06 03 14 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 boiler feedwater sludges wastes from cooling columns sulphur-containing wastes from petroleum desulphurisation bitumen wastes from the pyrolytic treatment of coal waste from cooling columns wastes from natural gas purification and transportation wastes containing sulphur Wastes from inorganic chemical processes wastes from the MFSU of salts and their solutions and metallic oxides solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13 |
| 05 01 10 05 01 13 05 01 14 05 01 16 05 01 17 05 06 05 06 04 05 07 05 07 02 06 06 03 14 06 03 14 06 03 16 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 boiler feedwater sludges wastes from cooling columns sulphur-containing wastes from petroleum desulphurisation bitumen wastes from the pyrolytic treatment of coal waste from cooling columns wastes from natural gas purification and transportation wastes containing sulphur Wastes containing sulphur Wastes from inorganic chemical processes wastes from the MFSU of salts and their solutions and metallic oxides solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13 metallic oxides other than those mentioned in 06 03 15 |
| 05 01 10 05 01 13 05 01 14 05 01 16 05 01 17 05 06 05 06 05 07 05 07 05 07 05 07 05 06 06 03 14 06 03 16 06 05 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 boiler feedwater sludges wastes from cooling columns sulphur-containing wastes from petroleum desulphurisation bitumen wastes from the pyrolytic treatment of coal waste from cooling columns wastes from natural gas purification and transportation wastes containing sulphur Wastes from inorganic chemical processes wastes from the MFSU of salts and their solutions and metallic oxides solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13 metallic oxides other than those mentioned in 06 03 15 sludges from on-site effluent treatment |
| 05 01 10 05 01 13 05 01 14 05 01 16 05 01 17 05 06 05 06 04 05 07 05 07 05 07 02 06 06 03 14 06 03 14 06 05 06 05 03 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 boiler feedwater sludges wastes from cooling columns sulphur-containing wastes from petroleum desulphurisation bitumen wastes from the pyrolytic treatment of coal waste from cooling columns wastes from natural gas purification and transportation wastes containing sulphur Wastes containing sulphur Wastes from inorganic chemical processes wastes from the MFSU of salts and their solutions and metallic oxides solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13 metallic oxides other than those mentioned in 06 03 15 sludges from on-site effluent treatment sludges from on-site effluent treatment other than those mentioned in 06 05 02 wastes from the MSFU of phosphorous chemicals and phosphorous chemical |

| Table S2.1 Per | mitted waste types for disposal at a landfill for non-hazardous waste | | | |
|----------------|---|--|--|--|
| Waste code | Description | | | |
| 06 11 | wastes from the manufacture of inorganic pigments and opacificiers | | | |
| 06 11 01 | calcium-based reaction wastes from titanium dioxide production | | | |
| 06 13 | wastes from inorganic chemical processes not otherwise specified | | | |
| 06 13 03 | carbon black | | | |
| 07 | Wastes from organic chemical processes | | | |
| 07 01 | wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals | | | |
| 07 01 12 | sludges from on-site effluent treatment other than those mentioned in 07 01 11 | | | |
| 07 02 | wastes from the MFSU of plastics, synthetic rubber and man-made fibres | | | |
| 07 02 12 | sludges from on-site effluent treatment other than those mentioned in 07 02 11 | | | |
| 07 02 13 | waste plastic | | | |
| 07 02 15 | wastes from additives other than those mentioned in 07 02 14 | | | |
| 07 02 17 | waste 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 12 | sludges from on-site effluent treatment other than those mentioned in 07 03 11 | | | |
| 07 04 | wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides | | | |
| 07 04 12 | sludges from on-site effluent treatment other than those mentioned in 07 04 11 | | | |
| 07 05 | wastes from the MFSU of pharmaceuticals | | | |
| 07 05 12 | sludges from on-site effluent treatment other than those mentioned in 07 05 11 | | | |
| 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 12 | sludges from on-site effluent treatment other than those mentioned in 07 07 11 | | | |
| 08 | Wastes from the 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 | | | |

| Waste code | Description | | | |
|------------|--|--|--|--|
| 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 water proofing 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 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 05 | calcium-based reaction wastes from flue-gas desulphurisation in solid form | | | |
| 10 01 15 | bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14 | | | |
| 10 01 17 | fly ash from co-incineration other than those mentioned in 10 01 16 | | | |
| 10 01 19 | wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18 | | | |
| 10 01 21 | sludges from on-site effluent treatment other than those mentioned in 10 01 20 | | | |
| 10 01 23 | aqueous sludges from boiler cleansing other than those mentioned in 10 01 22 | | | |
| 10 01 24 | sands from fluidised beds | | | |
| 10 01 26 | wastes from cooling-water treatment | | | |
| 10 02 | wastes from the iron and steel industry | | | |
| 10 02 01 | wastes from the processing of slag | | | |
| 10 02 02 | unprocessed slag | | | |
| 10 02 08 | solid wastes from gas treatment other than those mentioned in 10 02 07 | | | |
| 10 02 10 | mill scales | | | |
| 10 02 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 | | | |

| Table S2.1 Pe | rmitted waste types for disposal at a landfill for non-hazardous waste | | | |
|---------------|---|--|--|--|
| Waste code | Description | | | |
| 10 03 18 | carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17 | | | |
| 10 03 20 | flue-gas dust other than those mentioned in 10 03 19 | | | |
| 10 03 22 | other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21 | | | |
| 10 03 24 | solid wastes from gas treatment other than those mentioned in 10 03 23 | | | |
| 10 03 26 | sludges and filter cakes from gas treatment other than those mentioned in 10 03 25 | | | |
| 10 03 28 | vastes 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 10 | wastes from cooling-water treatment other than those mentioned in 10 04 09 | | | |
| 10 05 | wastes from zinc thermal metallurgy | | | |
| 10 05 01 | slags from primary and secondary production | | | |
| 10 05 04 | other particulates and dust | | | |
| 10 05 11 | dross and skimmings other than those mentioned in 10 05 10 | | | |
| 10 06 | wastes from copper thermal metallurgy | | | |
| 10 06 01 | slags from primary and secondary production | | | |
| 10 06 02 | dross and skimmings from primary and secondary production | | | |
| 10 06 04 | other particulates and dust | | | |
| 10 06 10 | wastes from cooling-water treatment other than those mentioned in 10 06 09 | | | |
| 10 07 | wastes from silver, gold and platinum thermal metallurgy | | | |
| 10 07 01 | slags from primary and secondary production | | | |
| 10 07 02 | dross and skimmings from primary and secondary production | | | |
| 10 07 03 | solid wastes from gas treatment | | | |
| 10 07 04 | other particulates and dust | | | |
| 10 07 05 | sludges and filter cakes from gas treatment | | | |
| 10 07 08 | wastes from cooling-water treatment other than those mentioned in 10 07 07 | | | |
| 10 08 | wastes from other non-ferrous thermal metallurgy | | | |
| 10 08 04 | particulates and dust | | | |
| 10 08 09 | other slags | | | |
| 10 08 11 | dross and skimmings other than those mentioned in 10 08 10 | | | |
| 10 08 13 | carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12 | | | |
| 10 08 14 | anode scrap | | | |
| 10 08 16 | flue-gas dust other than those mentioned in 10 08 15 | | | |
| 10 08 18 | sludges and filter cakes from flue-gas treatment 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 | | | |

| Table S2.1 Per | mitted waste types for disposal at a landfill for non-hazardous waste |
|----------------|---|
| Waste code | Description |
| 10 09 03 | furnace slag |
| 10 09 06 | casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05 |
| 10 09 08 | casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07 |
| 10 09 10 | flue-gas dust other than those mentioned in 10 09 09 |
| 10 09 12 | other particulates other than those mentioned in 10 09 11 |
| 10 09 14 | waste binders other than those mentioned in 10 09 13 |
| 10 10 | wastes from casting of non-ferrous pieces |
| 10 10 03 | furnace slag |
| 10 10 06 | casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05 |
| 10 10 08 | casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07 |
| 10 10 10 | flue-gas dust other than those mentioned in 10 10 09 |
| 10 10 12 | other particulates other than those mentioned in 10 10 11 |
| 10 10 14 | waste binders other than those mentioned in 10 10 13 |
| 10 11 | wastes from manufacture of glass and glass products |
| 10 11 03 | waste glass-based fibrous materials |
| 10 11 05 | particulates and dust |
| 10 11 10 | waste preparation mixture before thermal processing, other than those mentioned in 10 11 09 |
| 10 11 12 | waste glass other than those mentioned in 10 11 11 |
| 10 11 16 | solid wastes from flue-gas treatment other than those mentioned in 10 11 15 |
| 10 11 18 | sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17 |
| 10 11 20 | solid wastes from on-site effluent treatment other than those mentioned in 10 11 19 |
| 10 12 | wastes from manufacture of ceramic goods, bricks, tiles and construction products |
| 10 12 01 | waste preparation mixture before thermal processing |
| 10 12 03 | particulates and dust |
| 10 12 05 | sludges and filter cakes from gas treatment |
| 10 12 06 | discarded moulds |
| 10 12 08 | waste ceramics, bricks, tiles and construction products (after thermal processing) |
| 10 12 10 | solid wastes from gas treatment other than those mentioned in 10 12 09 |
| 10 12 12 | wastes from glazing other than those mentioned in 10 12 11 |
| 10 12 13 | 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 |

| Table S2.1 Perm | nitted waste types for disposal at a landfill for non-hazardous waste |
|-----------------|---|
| Waste code | Description |
| 10 13 06 | particulates and dust (except 10 13 12 and 10 13 13) |
| 10 13 07 | sludges and filter cakes from gas treatment |
| 10 13 10 | wastes from asbestos-cement manufacture other than those mentioned in 10 13 09 |
| 10 13 11 | wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10 |
| 10 13 13 | solid wastes from gas treatment other than those mentioned in 10 13 12 |
| 10 13 14 | waste concrete and concrete sludge |
| 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, phosphating, 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 02 | wastes from non-ferrous hydrometallurgical processes |
| 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 05 | wastes from hot galvanising processes |
| 11 05 02 | zinc ash |
| 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 02 | ferrous metal dust and particles |
| 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 05 | composite packaging |
| 15 01 06 | mixed packaging |
| 15 01 09 | textile packaging |
| 15 02 | absorbents, filter materials, wiping cloths and protective clothing |
| 15 02 03 | absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02 |
| 16 | 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) |

| Table S2.1 Per | rmitted waste types for disposal at a landfill for non-hazardous waste | | | |
|----------------|---|--|--|--|
| Waste code | Description | | | |
| 16 01 12 | brake pads other than those mentioned in 16 01 11 | | | |
| 16 01 19 | plastic | | | |
| 16 01 20 | glass | | | |
| 16 03 | off-specification batches and unused products | | | |
| 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 08 | spent catalysts | | | |
| 16 08 01 | spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07) | | | |
| 16 08 03 | spent catalysts containing transition metals or transition metal compounds not otherwise specified | | | |
| 16 11 | waste linings and refractories | | | |
| 16 11 02 | carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01 | | | |
| 16 11 04 | other linings and refractories from metallurgical processes other than those mentioned in 16 11 03 | | | |
| 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 07 | mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 | | | |
| 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 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 04 | soil and stones other than those mentioned in 17 05 03 | | | |
| 17 05 06 | dredging spoil other than those mentioned in 17 05 05 | | | |
| 17 05 08 | track ballast other than those mentioned in 17 05 07 | | | |
| 17 06 | insulation materials and asbestos-containing construction materials | | | |
| 17 06 04 | insulation materials other than those mentioned in 17 06 01 and 17 06 03 | | | |
| 17 09 | other construction and demolition wastes | | | |
| 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 or 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 | | | |

| Table S2.1 Perr | nitted waste types for disposal at a landfill for non-hazardous waste |
|-----------------|---|
| Waste code | Description |
| 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 02 | wastes from research, diagnosis, treatment or prevention of disease involving animals |
| 18 02 03 | wastes whose collection and disposal is not subject to special requirements in order to prevent infection |
| 18 02 06 | chemicals other than those mentioned in 18 02 05 |
| 19 | 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 12 | bottom ash and slag other than those mentioned in 19 01 11 |
| 19 01 14 | fly ash other than those mentioned in 19 01 13 |
| 19 01 16 | boiler dust other than those mentioned in 19 01 15 |
| 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 06 | sludges from physico/chemical treatment other than those mentioned in 19 02 05 |
| 19 02 10 | combustible wastes other than those mentioned in 19 02 08 and 19 02 09 |
| 19 03 | stabilised/solidified wastes |
| 19 03 05 | stabilised wastes other than those mentioned in 19 03 04 |
| 19 03 07 | solidified wastes other than those mentioned in 19 03 06 |
| 19 04 | vitrified waste and wastes from vitrification |
| 19 04 01 | vitrified waste |
| 19 05 | wastes from aerobic treatment of solid wastes |
| 19 05 01 | non-composted fraction of municipal and similar wastes |
| 19 05 02 | non-composted fraction of animal and vegetable waste |
| 19 05 03 | off-specification compost |
| 19 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 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 |

| Table S2.1 Per | mitted waste types for disposal at a landfill for non-hazardous waste |
|----------------|--|
| Waste code | Description |
| 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 04 | fluff-light fraction and dust other than those mentioned in 19 10 03 |
| 19 10 06 | other fractions other than those mentioned in 19 10 05 |
| 19 11 | wastes from oil regeneration |
| 19 11 06 | sludges from on-site effluent treatment other than those mentioned in 19 11 05 |
| 19 12 | wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified |
| 19 12 04 | plastic and rubber |
| 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 08 | biodegradable kitchen and canteen waste |
| 20 01 10 | clothes |
| 20 01 11 | textiles |
| 20 01 25 | edible oil and fat |
| 20 01 28 | paint, inks, adhesives and resins other than those mentioned in 20 01 27 |
| 20 01 30 | detergents other than those mentioned in 20 01 29 |
| 20 01 38 | wood other than that mentioned in 20 01 37 |
| 20 01 39 | plastics |
| 20 01 41 | wastes from chimney sweeping |
| 20 01 99 | Other fractions not otherwise specified (comprising only of non-clinical human and animal offensive/hygiene waste (not arising from healthcare and/or related research i.e. not including waste from natal care, diagnosis, treatment or prevention of disease) which is not subject to special requirements in order to prevent infection |
| 20 02 | garden and park wastes (including cemetery waste) |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste | |
|---|--------------------------------|
| Waste code | Description |
| 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 |

| Table S2.2 Per | rmitted waste types for restoration | | | |
|----------------|---|--|--|--|
| Waste code | Description | | | |
| 01 | Waste resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals | | | |
| 01 01 | Waste from mineral excavation | | | |
| 01 01 01 | Waste from mineral metalliferous excavation | | | |
| 01 01 02 | Waste from mineral non-metalliferous excavation | | | |
| 01 04 | Waste from physical and chemical processing of non-metalliferous minerals. | | | |
| 01 04 08 | Waste gravel and crushed rocks other than those containing dangerous substances. | | | |
| 01 04 09 | Waste sand and clays. | | | |
| 10 | Waste from thermal processes | | | |
| 10 12 | Waste from manufacture of ceramic goods, bricks, tiles and construction products | | | |
| 10 12 08 | Waste ceramics, bricks, tiles and construction products (after thermal processing) | | | |
| 17 | Construction and demolition waste (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 07 | Mixtures of concrete, bricks, tiles and ceramics | | | |
| 17 05 | Soil (including excavated soil from contaminated sites), stones and dredging spoil. | | | |
| 17 05 04 | Soil and stones (excluding soil and stones from contaminated sites) | | | |
| 17 09 | Other construction and demolition wastes | | | |
| 17 09 04 | Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 0902 and 17 09 03 | | | |
| 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 12 | Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified | | | |
| 19 12 09 | Minerals (for example sand, stones) | | | |
| 20 | Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions | | | |
| 20 02 | Garden and park wastes (including cemetery waste) | | | |
| 20 02 02 | Soil and stones (only from garden and parks waste) | | | |

Schedule 3 – Emissions and monitoring

| Monitoring point reference/Description | Limit | Monitoring frequency | Monitoring standard and method |
|---|--|-------------------------|--|
| Operational Cells or Phases (Any cells or p | hases that do not have a final e | ngineered cap ag | preed in accordance with the landfill engineering condition, 2.4) |
| - | - | Monthly | As specified in Environment Agency Guidance TGN02 (February 2003) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Or as otherwise agreed with the Agency as part of a leachate monitoring plan. |
| | | | |
| Non Operational Cells of Phases (Any cell | s or phases that have a final en | gineered cap agre | eed in accordance with the landfill engineering condition, 2.4) |
| Leachate extraction side risers: | 1.0 m above the lowest level of the phase base at | gineered cap agre | As specified in Environment Agency Guidance TGN02 (February 2003) or such other subsequent guidance as may be |
| | 1.0 m above the lowest | | As specified in Environment Agency Guidance TGN02 |

| Emission point Ref. & Location | Parameter | Source | Limit (including unit) | Reference Period | Monitoring Frequency | Monitoring Standard or Method | |
|---|-----------------------|---------------------------|------------------------------|---------------------|-------------------------|---|--|
| A2 engine exhausts | | | 650 mg/m ³ | Hourly mean | Annually | As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency | |
| Located in | CO | <pre>plant</pre> | 1500 mg/m ³ | - | | | |
| engine and flare compound on Plan ESID6 dated 22/12/2004 | Total VOCs | | 1750 mg/m ³ | | | | |
| A3 engine exhausts Located in engine and flare compound on Plan ESID6 dated 22/12/2004 | Oxides of Nitrogen | | 500 mg/ m ³ | | | | |
| | CO | | 1400 mg/m ³ | | | | |
| | Total VOCs | | 1000 mg/m ³ | | | | |
| A1 Flare Stack Located in engine and flare compound on Plan ESID6 dated 22/12/2004 | Oxides of Nitrogen | Landfill Gas Flares | 150 mg/m ³ | Hourly mean | Annually | As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency. Monitoring is unnecessary where the flare is active for <10% of the year. | |
| | CO | | 100 mg/m ³ | | | | |
| | Total VOCs | | 10 mg/m ³ | | | | |

| Emission point Ref. & Location | Parameter | Source | Limit (incl unit) | Reference Period | Monitoring Frequency | Monitoring Standard or Method |
|---|------------------------|---------------------------------------|--|----------------------|-------------------------|---|
| Southern Discharge – SWMP58304006 | Ammoniacal Nitrogen | Surface Water collection system | 5 mg/l | Spot Sample | Monthly | Monitoring to be carried out in accordance with Environment Agency Document 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water (LFTGN02), unless otherwise agreed in writing with the Agency. |
| | Arsenic | | 2 µg/l | | | |
| As shown on drawing number D136300/POP5/01 rev A | Boron | | 350 µg/l | | | |
| | Chromium | | 1 µg/l | | | |
| | Copper | | 3 µg/l | | | |
| | Lead | | 3 µg/l | | | |
| | Nickel | | 3 µg/l | | | |
| | Zinc | | 25 µg/l | | | |
| | Suspended Solids | | 40 mg/l | | | |
| | рН | | minimum 6 and maximum 9 pH units | | | |
| | Visible Oil | | None visible | Visual Inspection | Daily, when operational | |

| Emission point Ref. & Location | Parameter | Source | Limit (incl unit) | Reference Period | Monitoring Frequency | Monitoring Standard or Method |
|--|--|---------------------------------------|-------------------|---------------------|-------------------------|-------------------------------|
| Slack Brook (Upstream) – SWMP58304001 | Ammoniacal Nitrogen Arsenic | Surface Water collection system | No limits | - | - | - |
| Slack Brook (Downstream) – SWMP58304002 | Boron Chromium Copper Lead Nickel Zinc Suspended Solids pH | | | | | |
| Surface Water Pond (receiving water running off to North-west) – SWMP58304003 Surface Water Pond (receiving access road | | | | | | |
| drainage) – SWMP58304005 | Visible Oil | | | | | |
| As shown on drawing number D136300/POP5/01 rev A | | | | | | |

| Monitoring point reference | Parameter | Limit (including unit) | Reference Period | Monitoring frequency | Monitoring standard or method | | |
|---|------------------------|------------------------------|---------------------|-------------------------|---|--|--|
| GWMBH1, GWMBH2, and GWMBH6 at locations shown on drawing ESID11 | Ammoniacal Nitrogen | 8.5 mg/l | Spot Sample | Quarterly | As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface | | |
| | Chloride | 250 mg/l | | | Water' (February 2003), Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, version 2.1, Dec 2011) or such other subsequent guidance as may be agreed in writing with the Environment Agency. | | |
| | Nickel | 0.1 mg/l | | | | | |
| | Benzene | 0.001 mg/l | | | | | |
| | Xylene | 0.003 mg/l | | | | | |
| | Phenol | 0.002 mg/l | | | | | |
| | Mecoprop | 0.0001 mg/l | | | | | |
| | Cadmium | 0.006 mg/l | | | | | |
| GWMBH5 | Ammoniacal Nitrogen | No limit | - | - | | | |
| | Chloride | 1 | | | | | |
| | Nickel | | | | | | |
| | Benzene | | | | | | |
| | Xylene | | | | | | |
| | Phenol | 1 | | | | | |
| | Mecoprop | 1 | | | | | |
| | Cadmium | 1 | | | | | |

| Table S3.5 Landfill gas in external monitoring borehold | Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements | | | | | |
|---|---|---|-------------------------|---|--|--|
| Monitoring point Ref. /description | Parameter | Limit (including units) | Monitoring frequency | Monitoring standard or method | | |
| BH10, BH11, BH12, BH13, BH14, BH15, BH16, BH17, BH18, BH19, BH20, BH21, BH22, BH23, BH24, BH25, BH26, BH27, BH28, BH29, BH30, BH31, BH32, BH33, BH34, BH35, BH36, BH37, BH38, BH39 and BH40. as shown on drawing ESID 8 | Oxygen Atmospheric Pressure Differential Pressure | No Limit | Monthly | As per LFTGN03 (September 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: | | |
| BH10, BH11, BH12, BH13, BH14, BH15, BH16, BH17, | Methane | 1 % v/v | | waterlogged | | |
| BH18, BH19. BH20, BH21, BH22, BH23, BH24, BH25, BH26, BH27, BH30, BH31, BH32, BH33, BH37, BH38 and BH40 | Carbon Dioxide | As approved in writing with the Environment Agency | | frozen snow covered | | |
| BH28, BH29, BH34, BH35r, BH36 and BH39 (plus additional BHs as approved in writing with the Environment Agency) | Methane | As approved in writing with the Environment Agency | | | | |
| | Carbon Dioxide | As approved in writing with the Environment Agency | | | | |

Table S3.6 Landfill gas emissions from capped surfaces for cells that have accepted non hazardous biodegradable waste – monitoring requirements

| requirements | | | |
|---------------------------------------|------------------------|--|--|
| Monitoring point Ref. /description | Parameter | Monitoring frequency | Monitoring Standard or method |
| Permanently capped zone | Methane concentration | Every 12 months | As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency. |
| Temporarily capped zone | Methane concentration | Every 12 months | As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency. |
| Whole site | Total methane emission | As agreed with the Environment Agency | As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency. |
| Uncapped areas | Methane concentration | Every 12 months | As agreed with the Environment Agency based on the wording of revised LFTGN 07 or landfill sector guidance or such other subsequent guidance as may be agreed in writing with the Environment Agency. |

| Monitoring Point Ref./Description | Parameter | Monitoring frequency | Monitoring standard or method | |
|--------------------------------------|---|--|---|--|
| Up gradient MEPP | Water level, electrical Quarterly conductivity, chloride, ammoniacal nitrogen, pH, | As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, | | |
| | total alkalinity, magnesium, potassium, total sulphates, calcium, sodium, chromium, copper, iron, lead, nickel, zinc, manganese | Annually | version 2.1, Dec 2011), or such other subsequent guidance as may be agreed in writing with the Environment Agency. | |
| | Hazardous substances | Annually for first six years of operation | | |
| Down or cross gradient MEPP | Water level, electrical conductivity, chloride, ammoniacal nitrogen, pH, | Quarterly | As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, | |
| | total alkalinity, magnesium, potassium, total sulphates, calcium, sodium, chromium, copper, iron, lead, nickel, zinc, manganese | Annually | version 2.1, Dec 2011), or such other subsequent guidance as may be agreed in writing with the Environment Agency. After the initial 6 year monitoring period for hazardous substances, if the results of quarterly or annual monitoring suggest an increase in contamination, the | |
| | Hazardous substances detected in leachate | Annually for first six years of operation then every two years | operator shall also undertake a full leachate hazardous substances screen. | |
| MEPP | Base of monitoring point (mAoD) | Annually | | |

| Table S3.8 Landfill gas | s – other monitoring | g requirements | | |
|---|--|--|---|--|
| Monitoring Point Ref. /Description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| In waste gas monitoring boreholes or sealed leachate wells or sacrificial gas extraction system | Methane Carbon Dioxide Oxygen Carbon Monoxide Differential pressure Atmospheric pressure | Monthly until gas extraction commences | Calibrated handheld monitoring instrument | For cells or phases which have no active gas extraction. Gas extraction system shall be installed and extraction commenced once monitoring shows onset of methane production in waste at a rate that can be sustainably extracted. Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring. |
| | Hydrogen sulphide | Quarterly | Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (v3 2010) or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency. | For cells or phases which have no active gas extraction. Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring. Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans |

| Monitoring Point Ref. /Description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|--|---|---|---|---|
| Gas collection system at well control valve, manifolds (if applicable) and strategic points on gas system | Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Gas flow rate or suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%) | Monthly or at such other frequency as may be agreed in writing with the Environment Agency. | Calibrated handheld monitoring instrument | Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken. Where the concentration of carbon monoxide exceeds 100ppm then further investigation shall be undertake Record the ambient air temperature and whether the ground is: waterlogged frozen snow covered |
| Gas collection system at well control valve | Hydrogen sulphide | Six monthly | Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (v3 2010) or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency. | Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans |
| Output to flare or LFG Utilisation Compound | Trace gas | Annually | Trace gas analysis in accordance with LFTGN04 (v3 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency. | The concentration of trace gas components shall be assessed against the assumptions made in the Landfill gas risk assessment and dispersion modelling. |

| Monitoring Point Ref. /Description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|--|---|--|--|---|
| Output to flare or LFG Utilisation Compound | Methane Carbon Dioxide Oxygen Gas flow rate Suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%) | Weekly | | Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken. |
| A1 Flare Stack Located in engine and flare compound on Plan ESID6 dated 22/12/2004 | Temperature | As per LFTGN05 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency. | As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency. | |
| Located in engine and flare compound on Plan ESID6 dated 22/12/2004- post turbo | NOx and CO | Quarterly | In accordance with Appendix C of LFTGN08, (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency. | Where monitoring using hand-held, electrochemical equipment indicates an exceedance of the emissions standards specified in Table S3.2, these shall be used as action levels and the operator shall investigate the cause and take appropriate measures to reduce emissions. |

| Monitoring point reference or description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|--|---|-------------------------|---|----------------------|
| Operational Cells or Phases | | | At leachate compliance point as listed in | |
| (Any cell or phases that do not hav condition 2.4) | e a final engineered cap agreed in accor | dance with | table S3.1. As specified in Environment Agency | |
| MEPP | pH, EC, total alkalinity, ammoniacal nitrogen, Chloride, COD, BOD, cadmium, chromium, copper, lead, nickel, iron, arsenic, magnesium, potassium, total sulphates, calcium, sodium, zinc, manganese | Quarterly | Guidance TGN02 (February 2003) and Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, version 2.1, Dec 2011) with one sampling point per cell / phase or such other subsequent guidance as may be agreed in writing with the Environment Agency. | None |
| MEPP | Hazardous substances | Annually | | None |
| MEPP | Depth to base | Annually | | None |
| | (mAoD) | | | |
| Non Operational Cells or Phases | | | | |
| (Any cell or phases that have a fina 2.4) | al engineered cap agreed in accordance | with condition | | |
| MEPP | pH, EC, total alkalinity, ammoniacal nitrogen, Chloride, COD, BOD, cadmium, chromium, copper, lead, nickel, iron, arsenic, magnesium, | Annually | | |
| | potassium, total sulphates, calcium, sodium, zinc, manganese, | | | |
| MEPP | Hazardous substances Once every four years | | | None |
| MEPP | Depth to base (mAoD) | Annually | | |

| Table S3.10 Surface water – other monitoring requirements | | | | | |
|---|--|-------------------------|-------------------------------------|---|--|
| Monitoring Point Ref. /Description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications | |
| MEPP | Ammoniacal nitrogen Chloride Suspended Solids Visual Oil and Grease pH electrical conductivity | Quarterly | Spot sample | As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) and Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, (Annex J3, version 2.1, Dec 2011) or such other subsequent guidance as may be agreed in writing with the Environment Agency. | |

| Monitoring Point Ref. /Description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|---|---|--|---------------------------------------|----------------------|
| Ambient air at site boundary: AEMP1, | Methane in ambient air | Daily unless otherwise agreed in writing with the Agency | Flame ionisation detector (ppm range) | 10 ppm v limit |
| AEMP2, AEMP3 and AEMP4 as locations shown on drawing ESID8 – and any additional points determined in accordance | Hydrogen Sulphide in ambient air | On exceedance of the methane limit | Portable monitor (ppb range) | 10 ppb v limit |
| | Nitrogen Dioxide in ambient air | As approved in writing with the Environment Agency | Reference period - annual mean | 40 µg/m ³ |
| with IC1 | Additional parameters as approved in writing with the Environment Agency | As approved in writing with the Environment Agency | | |

Where the monitoring of nitrogen dioxide and the assessment criteria set in Table S3.13 indicates to the Environment Agency that the installation may contribute significantly to any exceedance of the Air Quality Strategy for England, Scotland, Wales and Northern Ireland or the EU 1st Air Quality Directive's limit values for nitrogen dioxide, then a review of options shall be submitted to the Environment Agency. This must include a cost benefit analysis which shall be conducted in accordance with Environment Agency Guidance and covering the following:

- Engine/Flare Design;
- Engine Management Systems;
- Maintenance Schedules;
- Gas extraction system;
- Stack heights;
- Location;
- Installation of continuous monitoring for NO2;
- Gas clean up pre- and post-combustion; and
- Alternative utilisation methods.

The review of options shall contain a programme of actions submitted to the Environment Agency to reduce the impact of the installation on air quality with a timetable for achieving defined outcomes. The purpose of the actions must reduce the contribution of the installation to any exceedance of the objectives of the Air Quality Strategy for England, Scotland, Wales and Northern Ireland or the EU 1st Air Quality Daughter Directive's limit values for nitrogen dioxide. The Operator shall undertake any measures in accordance with the timetable agreed by the Agency or specified by the Agency.

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

| Parameter | Reporting period | Period ends |
|---|---------------------|---|
| Leachate and/ or groundwater level As specified by schedule 3, table S3.1 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Point source emission to air As specified by schedule 3, table S3.2 | Every 12 months | 31 December |
| Point source emission to water (other than sewer) As specified by schedule 3, table S3.3 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Emission to groundwater As specified by schedule 3, table S3.4 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Landfill gas in external monitoring boreholes As specified by schedule 3, table S3.5 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Emission of landfill gas from capped surfaces As specified by schedule 3, table S3.6 | Every 12 months | 31 December |
| Other groundwater monitoring As specified by schedule 3, table S3.7 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Other Landfill gas monitoring As specified by schedule 3, table S3.8 | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| Trace gas monitoring | Every 12 months | 31 December |
| Other leachate monitoring As specified by schedule 3, table S3.9 | Every 12 months | 31 December |
| Other surface water monitoring As specified by schedule 3, table S3.10 | Every 12 months | 31 December |
| Meteorological data Landfill Directive, annex III, section 2 | Every 12 months | 31 December |
| Other ambient air monitoring As specified by Schedule 3, table S3.11 | Every 12 months | 31 December |

* - where the reporting period is 12 months, you may submit this information as part of the 'annual report' required by condition 4.2.2.

| Table S4.2: Annual production/treatment | |
|---|------------------------------|
| Leachate: | Cubic metres/year |
| Disposed of off site; | |
| Disposed of to any onsite effluent treatment plant; | |
| Recirculated into the waste mass. | |
| Landfill gas: | Normalised cubic metres/year |
| combustion in flares; | |
| combustion in gas engines; | |
| Other methods of gas utilisation. | |
| Average methane content entering the landfill gas utilisation or treatment compound (based on the annual average of Table S3.10 monitoring) | % methane v/v |
| Methane generation rate (50%ile from a representative model) | m3 /hr |

| Table S4.3 Performance Parameters | | | | |
|---|-------------------------------|-----------------|-----------------------------------|--|
| Parameter | Frequency of assessment | Annual total | Unit | |
| Energy used (including for leachate treatment) | Annually | | MWh of electricity or natural gas | |

| Table S4.4 Reporting Forms | | | | |
|----------------------------|--|--------------|--|--|
| Media/parameter | Reporting Format | Date of Form | | |
| Leachate | Form leachate 1 or other reporting format to be agreed in writing with the Environment Agency | 11/11/2015 | | |
| Air | Form Air 1 or other reporting format to be agreed in writing with the Environment Agency | 11/11/2015 | | |
| Controlled water | Form Water 1 or other reporting format to be agreed in writing with the Environment Agency | 11/11/2015 | | |
| Groundwater | Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency | 11/11/2015 | | |

| Table S4.4 Reporti | Table S4.4 Reporting Forms | | | | |
|--|--|--------------|--|--|--|
| Media/parameter | Reporting Format | Date of Form | | | |
| Sewer | Form Sewer 1 or other reporting format to be agreed in writing with the Environment Agency | 11/11/2015 | | | |
| Landfill gas | Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency | 11/11/2015 | | | |
| Particulate matter | Form Particulate 1 or other reporting format to be agreed in writing with the Environment Agency | 11/11/2015 | | | |
| Waste Return | Waste Return Form RATS2E | 11/11/2015 | | | |
| Landfill topographical surveys and interpretation | Reporting format to be agreed in writing with the Environment Agency | 11/11/2015 | | | |

Schedule 5 – Notification

This page outlines the information that the operator must provide.

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.

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 EP Regulations.

Part A

| Permit Number | |
|--------------------------------|--|
| Name of operator | |
| Location of Facility | |
| | |
| Time and date of the detection | |

| (a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution | | | | |
|--|--|--|--|--|
| To be notified within 24 hours of detection | | | | |
| Date and Time of the event | | | | |
| Reference or description of the location of the event | | | | |
| Description of where any release into the environment took place | | | | |
| Substances(s) potentially released | | | | |
| Best estimate of the quantity or rate of release of substances | | | | |
| Measures taken, or intended to be taken, to stop any emission | | | | |
| Description of the failure or accident. | | | | |

| (b) Notification requirements for the breach of a limit | | | | |
|--|--|--|--|--|
| To be notified within 24 hours of detection unless otherwise specified below | | | | |
| Emission point reference/ source | | | | |
| Parameter(s) | | | | |
| Limit | | | | |
| Measured value and uncertainty | | | | |
| Date and time of monitoring | | | | |

| (b) Notification requirements for the breach of a limit | | | | |
|--|--|--|--|--|
| To be notified within 24 hours of detection unless otherwise specified below | | | | |
| Measures taken, or intended to be taken, to stop the emission | | | | |

| Time periods for notification following detection of a breach of a limit | | | |
|--|---------------------|--|--|
| Parameter | Notification period | | |
| | | | |
| | | | |

| (c) Notification requirements for the detection of any significant adverse environmental effect | | | |
|---|--|--|--|
| To be notified within 24 hours of detection | | | |
| Description of where the effect on the environment was detected | | | |
| Substances(s) detected | | | |
| Concentrations of substances detected | | | |
| Date of monitoring/sampling | | | |

Part B to be supplied as soon as practicable

| 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 which has been or may be caused by the emission | |
| The dates of any unauthorised emissions from the facility in the preceding 24 months. | |

| Name* | |
|-----------|--|
| Post | |
| Signature | |
| Date | |

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

"accident" means an accident that may result in pollution.

"annually" means once every year.

"application" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

"authorised officer" means any person authorised by the Environment 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:

- For emissions to surface water, the surface water quality up-gradient of the site; or
- For emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge; or
- For emissions of landfill gas, the ground or air outside the site and not attributable to the site.
 - (a) "Cell layout drawing" means: A drawing or drawings of the proposed new cell that illustrate(s) in sufficient detail:
 - (i) the location of the new cell on the site;
 - (ii) the proposed level (Above Ordnance Datum) of the base of the excavation;
 - (iii) the proposed finished levels of all containment and leachate drainage layers;
 - (iv) the positions of leachate management infrastructure; and
 - (v) the positions of landfill gas infrastructure (if appropriate).
- (b) A detailed written explanation of any minor design changes from the most recently approved cell that result from the new cell layout. This would include, for example:
 - (i) changes to slope length and gradient within the cell;
 - (ii) new leachate or landfill gas infrastructure construction design;
 - (iii) slope stability issues such as new basal excavation level; and/or
 - (iv) depth of waste.

"Construction Proposals" means written information, at a level of detail appropriate to the complexity and pollution risk, on the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the New Cell or Landfill Infrastructure.

"CQA Validation Report" means the final "as built" construction and engineering details of the New Cell or of the Landfill Infrastructure. It must provide a comprehensive record of the construction and must include, where relevant:

- The results of all testing required by the CQA programme this must include the records of any failed tests with a written explanation, details of the remedial action taken, referenced to the appropriate secondary testing;
- Plans showing the location of all tests;
- "As-built" plans and sections of the works;
- Copies of the site engineer's daily records;
- · Records of any problems or non-compliances and the solution applied;

- Any other site specific information considered relevant to proving the integrity of the New Cell or Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

"emissions to land" includes emissions to groundwater.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations 2010, SI 2010 No.675. Words and expressions used in this permit which are also used in those Regulations have the same meanings as in those Regulations.

"emissions of substances not controlled by emission limits" means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

"exceeded" means that a value is above a permitted limit, or where a range of values or a minimum value is set as a permitted limit it means a value outside that range or below the minimum value, whichever is applicable.

"Hazardous property" has the meaning in Annex III of the Waste Framework Directive.

"Hazardous substances" as defined by the Environmental Permitting (England and Wales) Regulations 2010, SI 2010 No.675, schedule 22 and listed in our Hydrogeological risk assessment guidance, annex J to our H1 risk assessment guidance.

"Hazardous waste" has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 (as amended).

"Landfill Infrastructure" means any specified element of the:

- permanent capping;
- temporary capping (i.e. engineered temporary caps not cover materials);
- leachate abstraction systems;
- leachate transfer, treatment and storage systems;
- surface water drainage systems;
- leachate monitoring wells;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;
- landfill gas management systems;
- lining within the installation.

within the site.

"List of Wastes" means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

"Liquids" means any liquid other than leachate within the engineered landfill containment system.

"LFTGN 05" means Environment Agency Guidance for monitoring enclosed landfill gas flares.

"LFTGN 07" means Environment Agency Guidance on monitoring landfill gas surface emissions.

"LFTGN 08" means Environment Agency Guidance for monitoring landfill gas engines.

"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.

"inert waste" means waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater

"Medicinal product" means any medicine licensed by the Medicines and Healthcare products Regulatory Agency (MHRA) or their predecessors under the Medicines Act 1968, section 130.

"M2" means Environment Agency Guidance Monitoring of stack emissions to air.

"New Cell" means any new cell, part of a cell or other similar new area of the site where waste deposit is to commence after issue of this permit and can comprise:

- groundwater under-drainage system;
- permanent geophysical leak location system;
- leak detection layer;
- sub-grade;
- barriers;
- liners;
- leachate collection system;
- leachate abstraction system;
- separation bund/layer;
- cell or area surface water drainage system;
- side wall subgrade and containment systems;

for the New Cell.

"MEPP" Monitoring and extraction point plan, required by condition 4.2.2(h) to specify extraction points and routine monitoring locations.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"No impact" means that the change made to the construction process will not affect the agreed design criteria, specification or performance in a way that has a negative effect.

"Pests" means Birds, Vermin and Insects.

"Previous year" means the 12 month period preceding the month the annual report is submitted in.

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"Relevant waste acceptance procedures" means the procedure for the acceptance of waste at landfills and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

"Relevant waste acceptance criteria" means the waste acceptance criteria and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

"Review of the Hydrogeological Risk Assessment" means a written review of the hydrogeological risk assessment included in the Application, together with any other parts of the Application that addressed the requirements of the EP Regulations. The review shall assess whether the activities of disposal or tipping for the purpose of disposal of waste authorised by the permit continue to meet the requirements of the EP Regulations.

'Sustainably extracted' means where suction can be applied to the extraction wells such that a flow rate of landfill gas, with a methane content capable of either being combusted, or treated by bio-oxidation, can be extracted without increasing the risk of air ingress to the waste or inducing aerobic degradation within the waste.

"Waste code" means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

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 LFTGN 05 or Guidance for Monitoring Landfill Gas Engine Emissions LFTGN 08

Where the following terms appear in the waste code list in Tables S2.1 they have the meaning given below:

'hazardous substance' means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008;

'heavy metal' means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances;

'polychlorinated biphenyls and polychlorinated terphenyls' ('PCBs') means PCBs as defined in Article 2(a) of Council Directive 96/59/EC'.

Article 2(a) says that 'PCBs' means:

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0,005 %by weight;

'transition metals' means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances;

'stabilisation' means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste;

'solidification' means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste;

'partly stabilised wastes' means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term.

CULVERT AND HEAD-WALLS SURFACE WATER DITCH (GENERALLY DRY) SURFACE WATER DITCH SHOWING DIRECTION OF FLOW INL AND TE FRANKIN GE MEN MATE BENASS LEI, AND IS IELARD V I NOVAMICA AILL EL MACLOSS TU ANT MILI PARTY OR EPACOUSS Frick Coreshi a Victori de Beta Wafe Espans Lin. REGIONAL CONTOUR Reproduced from Superplan Data © (scale-free) by Permission of Ordance Survey © on behalf of The Controller of Her Majesty's Stationery Office. © Grow copyright 2004 all rights reserved. Licence number 10003438. 50ME(5) 12,50 PRE-SETTLEMENT CONTOUR Brin Wards Bertram List (1988) Stramm Track Nuer L Constraint Track Nuer L Constraint Brits (1988) Duelfold Schem Duelfold Canadi and Schemal DEVANIG TILE CITILO HAI Landiti Instalation Boundary INSTALLATION BOUNDARY BLR CONFUTER REF 2. Do not scale from this drawing. SLR SEVERN TRENT 04.05.05 Kay Pollution Prevention and Control (Cifton Ha Landii She HE RECOMPTING TO AND COMPTING THAT FOR THE MR Notes: LOCATION r CRAWN ٤ Pond ď F h the set of the set $\overline{}$ ٦ 6 í LUMS LANE ΤĢ 6 Prest Prest 57 è ď 11 ŧ Pond ú ١ţ

Schedule 7 – Site plan

END OF PERMIT

| Permit Number: | EPR/BS7340IH | Operator: | Biffa Waste Services Limited |
|-----------------------|------------------------------|--------------|------------------------------|
| Facility: | Clifton Hall Landfill | Form Number: | Air1 / 11/11/2015 |
| Reporting of emission | s to air for the period from | to | |

| Emission Point | Substance / Parameter | Emission Limit Value | Reference Period | Result ^[1] | Test Method ^[2] | Sample Date and Times ^[3] | Uncertainty [4] |
|-------------------|--------------------------|-------------------------|------------------|-----------------------|-------------------------------|--|--------------------|
| | | | | | | | |
| | | | | | | | |

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed

Date.....

| Permit Number: | EPR/BS7340IH | Operator: | Biffa Waste Services Limited |
|----------------|-----------------------|--------------|------------------------------|
| Facility: | Clifton Hall Landfill | Form Number: | Water1 / 11/11/2015 |

Reporting of emissions to water (other than to sewer) and land for the period from

| Emission Point | Substance / Parameter | Emission Limit Value | Reference Period | Result ^[1] | Test Method ^[2] | Sample Date and Times ^[3] | Uncertainty [4] |
|-------------------|--------------------------|-------------------------|------------------|-----------------------|-------------------------------|--|--------------------|
| | | | | | | | |
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to

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

| y | s to sewer for the period from | Form Number: | Sewer1 / 11/11/2015 |
|----------------|--------------------------------|--------------|------------------------------|
| Facility: | Clifton Hall Landfill | Form Number: | Sewer1 / 11/11/2015 |
| Permit Number: | EPR/BS7340IH | Operator: | Biffa Waste Services Limited |

| Emission Point | Substance / Parameter | Emission Limit Value | Reference Period | Result ^[1] | Test Method ^[2] | Sample Date and Times | Uncertainty [4] |
|-------------------|--------------------------|-------------------------|------------------|-----------------------|-------------------------------|--------------------------|--------------------|
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- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

| Permit Number: | EPR/BS7340IH | Operator: | Biffa Waste Services Limited |
|----------------|-----------------------|--------------|------------------------------|
| Facility: | Clifton Hall Landfill | Form Number: | Leachate 1 / 11/11/2015 |
| | | | |

Reporting of leachate monitoring for the period from

to

| Monitoring Point | Substance / Parameter | Compliance limit | Reference Period | Result ^[1] | Test Method ^[2] | Sample Date and Times | Uncertainty [4] |
|---------------------|--------------------------|---------------------|------------------|-----------------------|-------------------------------|--------------------------|--------------------|
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- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

| Permit Number: | EPR/BS73 | 340IH | Operator: | Biffa Waste Services Limited | | | |
|---------------------|--------------------------|--------------------|------------------|------------------------------|-------------------------------|--------------------------|--------------------|
| Facility: | Clifton Hal | l Landfill | Form Number: | Groundwater1 / 1 | Groundwater1 / 11/11/2015 | | |
| Reporting of gro | oundwater monite | oring for the peri | od from | to | | | |
| Monitoring Point | Substance / Parameter | Trigger level | Reference Period | Result ^[1] | Test Method ^[2] | Sample Date and Times | Uncertainty [4] |
| | | | | | | | |

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

| Reporting of landfill ga | to | | |
|--------------------------|-----------------------|--------------|------------------------------|
| Facility: | Clifton Hall Landfill | Form Number: | LFG1 / 11/11/2015 |
| Permit Number: | EPR/BS7340IH | Operator: | Biffa Waste Services Limited |

Reporting of landfill gas monitoring for the period from

| Monitoring Point | Substance / Parameter | Compliance limit | Reference Period | Result ^[1] | Test Method ^[2] | Sample Date and Times | Uncertainty [4] |
|---------------------|--------------------------|---------------------|------------------|-----------------------|-------------------------------|--------------------------|--------------------|
| | | | | | | | |
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- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

| Permit Number | EPR/BS7 | 340IH | Operator: | Biffa Waste Services Limited | | | |
|-----------------------|--------------------------|-------------------------|------------------|------------------------------|-------------------------------|--------------------------|--------------------|
| Facility: | Clifton Ha | ll Landfill | Form Number: | Particulate1 / 11/11/2015 | | | |
| Reporting of p | articulates for the | period from | to | | | | |
| Emi ssion Point | Substance / Parameter | Emission Limit Value | Reference Period | Result ^[1] | Test Method ^[2] | Sample Date and Times | Uncertainty [4] |
| | | | | | | | |
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- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
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Signed Date.....