

# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Westcombe Waste Ltd

Whiscombe Hill Landfill Somertonfield Road Westcombe Somerton Somerset TA11 6HY

Variation application number

EPR/QP3230LE/V004

Permit number EPR/QP3230LE

# Whiscombe Hill Landfill Permit number EPR/QP3230LE

#### 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 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).

Status log of the permit				
Description	Date	Comments		
Application EPR/QP3230LE/A001	Received 30/11/2005	Duly Made 30/11/05		
Permit determined EPR/QP3230LE	08/12/2006	Permit issued to Westcombe Waste Ltd.		
Application EPR/QP3230LE/V002	17/03/2010			
Variation EPR/QP3230LE/V002 issued	07/12/2010	Variation to		
Variation EPR/QP3230LE/V003 issued	26/02/2014	Agency variation to implement the changes introduced by IED		
Environment Agency Landfill Sector Review	14/12/2016	Varied and consolidated permit issued in modern condition format.		
Permit reviewed				
Variation determined EPR/QP3230LE/V004 Permit EPR/QP3230LE				

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

End of introductory note

#### Permit

#### 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/QP3230LE

#### Issued to

Westcombe Waste Ltd ("the operator"),

whose registered office is

Whiscombe Hill Westcombe Road Somerton Somerset TA11 6HY

company registration number 02205997

to operate a regulated facility at

Whiscombe Hill Landfill Somertonfield Road Westcombe Somerton Somerset TA11 6HY

to the extent set out in the schedules.

The notice shall take effect from 14/12/2016

Name	Date
Philip Lamb	14/12/2016

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.	
2.7.1(a)	Added reference to a specific table to clarify what wastes are permitted by which permitted activity.	
2.7.2	Added to separately identify the waste types and quantities that can be accepted for restoration.	
2.10	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.	

Condition	Description of change	
Table S1.5	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.	
Schedule 6	Definitions added to clarify meaning of:	
	Inert waste	
	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/QP3230LE

This is the consolidated permit referred to in the variation and consolidation notice for application **EPR/QP3230LE/V004** authorising,

Westcombe Waste Ltd ("the operator"),

whose registered office is

Whiscombe Hill Westcombe Road Somerton Somerset TA11 6HY

company registration number 02205997

to operate an installation at

Whiscombe Hill Landfill Somertonfield Road Westcombe Somerton Somerset TA11 6HY

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

Name	Date
Philip Lamb	14/12/2016

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 08/12/2006 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 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:
  - (a) 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.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

#### 2.5 Pre-operational conditions

2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

#### 2.6 Landfill Engineering

- 2.6.1 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.
- 2.6.2 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.
- 2.6.3 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.
- 2.6.4 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.
- 2.6.5 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.
- 2.6.6 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.
- 2.6.7 The operator shall submit a CQA Validation Report within four weeks of the completion of the construction of the relevant landfill infrastructure or other time period agreed in writing with the Environment Agency.
- 2.6.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.6.5 and 2.6.6 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.
- 2.6.9 For the purposes of conditions 2.6.1,2.6.2, 2.6.4 and 2.6.5, 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.
- 2.6.10 Where the Environment Agency has required further information under condition 2.6.9(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.

#### 2.7 Waste acceptance

- 2.7.1 For the following activities referenced in schedule 1, table S1.1 (A1) 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
- (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, 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.
- 2.7.2 For the following activities referenced in schedule 1, table S1.1 (A1) 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.
- 2.7.3 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 2.7.1.
- 2.7.4 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.
- 2.7.5 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.7.6 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing ref: EM1196/WM251/ADD/PL1 March 2014
- 2.7.7 The quantity of waste that is deposited or recovered in the landfill in any year shall not exceed the limits in schedule 1 table S1.5.
- 2.7.8 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.

#### 2.8 Leachate levels

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

#### 2.9 Closure and aftercare

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

#### 2.10 Landfill gas management

- 2.10.1 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.
- 2.10.2 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.
- 2.10.3 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 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 sixth 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.
- 3.1.6 For the following activities referenced in schedule 1, table S1.1 (A2 & A3), Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on systematic appraisal of the risk of contamination.

#### 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.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

#### 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 S3.11;
  - (b) Point source emissions specified in tables S3.2, S3.3 and S3.6;
  - (c) Groundwater specified in tables S3.4 and S3.9;
  - (d) Landfill gas specified in tables S3.5, S3.8 and S3.10;
  - (e) Surface water specified in table S3.12; and
  - (f) Particulate matter specified in table S3.7.
- 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;
    - (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;
  - (e) 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 existing and any new 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	octivities			
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 2.7, as an integral part of landfilling.
A2	D8 – Biological treatment of waste	Section 5.4, Part A(1)(a)(i), Biological treatment of non- hazardous waste	Treatment of leachate in a facility with a capacity of >50 tonnes/ day	Treatment of leachate shall only take place from Whiscombe Hill Landfill Site.
A3	D9 – Physico- chemical treatment of waste	Section 5.4, Part A(1)(a)(ii) Physico-chemical treatment of non - hazardous waste	Treatment of leachate in a facility with a capacity of >50 tonnes/ day	Leachate shall only be discharged to the sewer at point shown on drawing reference EM1196/WM172/NMP01 dated March 2010. No more than 65m <sup>3</sup> /day of treated leachate shall be discharged.
Directly Ass	ociated Activities	I	I	
A4	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.
A5	Leachate management		Extraction and storage of leachate prior to removal off- site	Leachate arising from the landfill.

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
A6	N/A		Temporary storage of waste (leachate)	Leachate arising from the landfill.
A7	N/A		Flaring of landfill gas for disposal in an appliance.	Landfill gas arising from the landfill.
A8	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.
A9	Leachate discharge to foul sewer		Discharge of leachate from the landfill	From leachate management system to point of entry to sewer (including tankering off-site).

Table S1.2 Operating techniques				
Description Parts		Date Received		
Application	<ul> <li>The response to questions 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5, 2.7, 2.8, 2.9, 2.11 and 3.1 in Part B of the Application Form.</li> <li>Excluding-</li> <li>Application - Table 2.1, Volume 3, appendix 10 Waste Throughput</li> <li>Application - All references to asbestos disposal</li> <li>Application - All references to the recycling operation</li> </ul>	30/11/2005		
	Response to Schedule 4 - request for information, request dated 13/01/2006	02/02/2006		
	Final post-settlement drawings 5018355/LA/4902 Rev. B and 5018355/LA/4903 Rev. C	20/10/2006		
Site Protection and Monitoring Plan	Site Protection and Monitoring Plan submitted in response to condition 2.11 of this permit.			
Substantial Variation Application EA/EPR/QP3230LE/V002	Response to questions Form EPC – Part C	17/03/2010		
Response to Schedule 5 notice dated 10/06/2010.	The response to questions Q2, Q4, Q5, Q6, Q7, Q8, Q12 and Q16 only	14/07/2010		

Table S1.3 Improvement programme requirements			
Reference Requirement Date			
IC1	The operator shall submit to the Environment Agency in writing for approval a restoration plan for the site which includes waste quantities, waste types, and waste acceptance criteria for wastes for restoration	23/06/2017	

Table S1.4 Pre-operational measures for future development			
Reference	Operation	Pre-operational Measures	
1	Capping and Restoration Scheme	Submit to the Agency for Approval in writing, revised/final details of the design of the landfill capping system and restoration scheme in line with the proposals set out in the application, in order to ensure compliance with the requirements of the Landfill regulations.	
2	Leachate Drainage Blanket	All the parts of the site that are unfilled on the date of issue of this permit shall be engineered with a 500mm thick drainage blanket on the base of the site and a minimum of 300mm thick to the top of the side slopes.	
3	Cell Engineering	At least 4 weeks prior to the engineering of the side slope lining system a report shall be submitted to the Agency detailing the chosen lining design. The design shall determine the appropriate strength characteristics required of the materials to be used. Site specific strength testing shall be undertaken so as to demonstrate that the materials to be used have the required strength characteristics.	
		All areas unlined as of the date of issue of this permit shall, prior to the laying of the artificial sealing liner, be provided with a system of land/groundwater drains so as to prevent the build-up of pore water pressures beneath the base and side slope liners. These drains shall link into the groundwater drains already established at the site such that all excess pore water building up beneath the liner can discharge to the Whiscombe Brook at the north end of the site as detailed in improvement condition 1. The layout and	

Table S1.4 Pre-operational measures for future development			
Reference Operation Pre-operational Measures		Pre-operational Measures	
		design of this required drainage system shall be submitted to the agency for review and approval or amendment as appropriate.	
4	Installation of landfill gas utilisation plant and/or landfill gas flare	The operator shall submit to the Environment Agency for approval in writing the final design details and locations of the any Gas Utilisation plant and/or the gas flare on site at least 6 weeks prior to installation. The scope of the information and risk assessment requirements shall be agreed with the Environment Agency in writing prior to submission.	

Table S1.5 Annual waste input limits		
Category Limit Tonnes/ Year		
Non-hazardous waste	14,500	
Inert waste	5,500	
Waste for restoration	As agreed in accordance with IC1 in table S1.3.	

# Schedule 2 – List of permitted wastes

Waste code	Description				
01	Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals				
01 01	wastes from mineral excavation				
01 01 01	wastes from mineral metalliferous excavation				
01 01 02	wastes from mineral non-metalliferous excavation				
01 04	wastes from physical and chemical processing of non-metalliferous minerals				
01 04 09	waste sand and clays				
01 05	drilling muds and other drilling wastes				
01 05 04	freshwater drilling muds and wastes				
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 03	plant-tissue waste				
02 01 07	wastes from forestry				
02 01 10	waste metal				
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 02	wastes from preserving agents				
02 03 03	wastes from solvent extraction				
02 03 04	materials unsuitable for consumption or processing				
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 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				
04	Wastes from the leather, fur and textile industries				
04 01	wastes from the leather and fur industry				
04 01 08	waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium				

Table S2.1 Permitte	d waste types for disposal at a landfill for non-hazardous waste
Waste code	Description
04 02	wastes from the textile industry
04 02 09	wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
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
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 17	fly ash from co-incineration other than those mentioned in 10 01 16
10 01 24	sands from fluidised beds
10 01 25	wastes from fuel storage and preparation of coal-fired power plants
10 01 26	wastes from cooling-water treatment
10 02	wastes from the iron and steel industry
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 11	wastes from manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	waste preparation mixture before thermal processing
10 12 06	discarded moulds
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
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
11	Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydro-metallurgy
11 05	wastes from hot galvanising processes
11 05 01	hard zinc
11 05 02	zinc ash
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)

Table S2.1 Permitte	d waste types for disposal at a landfill for non-hazardous waste				
Waste code	Description				
15 01 01	paper and cardboard packaging				
15 01 02	plastic packaging				
15 01 03	wooden packaging				
15 01 04	metallic packaging				
15 01 05	composite packaging				
15 01 06	mixed packaging				
15 01 07	glass packaging				
15 01 09	textile packaging				
15 02	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)				
16 01 17	ferrous metal				
16 01 18	non-ferrous metal				
16 01 19	plastic				
16 01 20	glass				
16 02	wastes from electrical and electronic equipment				
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13				
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15				
16 03	off-specification batches and unused products				
16 03 04	inorganic wastes other than those mentioned in 16 03 03				
16 03 06	organic wastes other than those mentioned in 16 03 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 02	wood, glass and plastic				
17 02 01	wood				
17 02 02	glass				
17 02 03	plastic				
17 03	bituminous mixtures, coal tar and tarred products				
17 03 02	bituminous mixtures other than those mentioned in 17 03 01				

Table S2.1 Permitte	d waste types for disposal at a landfill for non-hazardous waste						
Waste code	Description						
17 04	metals (including their alloys)						
17 04 01	copper, bronze, brass						
17 04 02	aluminium						
17 04 03	lead						
17 04 04	zinc						
17 04 05	iron and steel						
17 04 06	tin						
17 04 07	mixed metals						
17 04 11	cables other than those mentioned in 17 04 10						
17 05	soil (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						
	17 09 02 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 19 01	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and						
	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 waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use wastes from incineration or pyrolysis of waste						
<b>19 01</b> 19 01 02	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 wastes from incineration or pyrolysis of waste ferrous materials removed from bottom ash						
<b>19 01</b> 19 01 02 19 01 12	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial usewastes from incineration or pyrolysis of waste ferrous materials removed from bottom ash bottom ash and slag other than those mentioned in 19 01 11						
<b>19 01</b> 19 01 02 19 01 12 19 01 14	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial usewastes from incineration or pyrolysis of waste ferrous materials removed from bottom ash bottom ash and slag other than those mentioned in 19 01 11fly ash other than those mentioned in 19 01 13						
<b>19 01</b> 19 01 02 19 01 12 19 01 14 19 01 18	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial usewastes from incineration or pyrolysis of wasteferrous materials removed from bottom ash bottom ash and slag other than those mentioned in 19 01 11fly ash other than those mentioned in 19 01 13 pyrolysis wastes other than those mentioned in 19 01 17						
<b>19 01</b> 19 01 02 19 01 12 19 01 14 19 01 18 19 01 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 usewastes from incineration or pyrolysis of wasteferrous materials removed from bottom ashbottom ash and slag other than those mentioned in 19 01 11fly ash other than those mentioned in 19 01 13pyrolysis wastes other than those mentioned in 19 01 17sands from fluidised bedswastes from physico/chemical treatments of waste (including dechromatation,						
<b>19 01</b> 19 01 02 19 01 12 19 01 14 19 01 18 19 01 19 <b>19 02</b>	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial usewastes from incineration or pyrolysis of wasteferrous materials removed from bottom ash bottom ash and slag other than those mentioned in 19 01 11fly ash other than those mentioned in 19 01 13pyrolysis wastes other than those mentioned in 19 01 17sands from fluidised bedswastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)						
<b>19 01</b> 19 01 02         19 01 12         19 01 14         19 01 18         19 01 19 <b>19 02</b> 19 02 03	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial usewastes from incineration or pyrolysis of wasteferrous materials removed from bottom ash bottom ash and slag other than those mentioned in 19 01 11fly ash other than those mentioned in 19 01 13pyrolysis wastes other than those mentioned in 19 01 17sands from fluidised bedswastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)premixed wastes composed only of non-hazardous wastes						
19 01         19 01 02         19 01 12         19 01 14         19 01 18         19 01 19         19 02         19 02 03         19 03	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial usewastes from incineration or pyrolysis of wasteferrous materials removed from bottom ashbottom ash and slag other than those mentioned in 19 01 11fly ash other than those mentioned in 19 01 13pyrolysis wastes other than those mentioned in 19 01 17sands from fluidised bedswastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)premixed wastes composed only of non-hazardous wastesstabilised/solidified wastes						
<b>19 01</b> 19 01 02         19 01 12         19 01 14         19 01 18         19 01 19 <b>19 02 19 02</b> 19 03 05	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 wastes from incineration or pyrolysis of waste ferrous materials removed from bottom ash bottom ash and slag other than those mentioned in 19 01 11 fly ash other than those mentioned in 19 01 13 pyrolysis wastes other than those mentioned in 19 01 17 sands from fluidised beds wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation) premixed wastes composed only of non-hazardous wastes stabilised/solidified wastes stabilised wastes other than those mentioned in 19 03 04						
<b>19 01</b> 19 01 02         19 01 12         19 01 14         19 01 18         19 01 19 <b>19 02 19 02</b> 19 03 05         19 03 07	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 wastes from incineration or pyrolysis of waste ferrous materials removed from bottom ash bottom ash and slag other than those mentioned in 19 01 11 fly ash other than those mentioned in 19 01 13 pyrolysis wastes other than those mentioned in 19 01 17 sands from fluidised beds wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation) premixed wastes composed only of non-hazardous wastes stabilised/solidified wastes stabilised wastes other than those mentioned in 19 03 04 solidified wastes other than those mentioned in 19 03 06						
19 01         19 01 02         19 01 12         19 01 14         19 01 18         19 01 19         19 02 03         19 03 05         19 03 07         19 04	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 wastes from incineration or pyrolysis of waste ferrous materials removed from bottom ash bottom ash and slag other than those mentioned in 19 01 11 fly ash other than those mentioned in 19 01 13 pyrolysis wastes other than those mentioned in 19 01 17 sands from fluidised beds wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation) premixed wastes composed only of non-hazardous wastes stabilised/solidified wastes stabilised wastes other than those mentioned in 19 03 04 solidified wastes other than those mentioned in 19 03 06 vitrified waste and wastes from vitrification						
<b>19 01</b> 19 01 02         19 01 12         19 01 14         19 01 18         19 01 19 <b>19 02 19 03</b> 19 03 05         19 03 07 <b>19 04</b> 19 04 01	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 wastes from incineration or pyrolysis of waste ferrous materials removed from bottom ash bottom ash and slag other than those mentioned in 19 01 11 fly ash other than those mentioned in 19 01 13 pyrolysis wastes other than those mentioned in 19 01 17 sands from fluidised beds wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation) premixed wastes composed only of non-hazardous wastes stabilised/solidified wastes stabilised wastes other than those mentioned in 19 03 04 solidified wastes other than those mentioned in 19 03 06 vitrified waste and wastes from vitrification vitrified waste						
19 01         19 01 02         19 01 12         19 01 14         19 01 18         19 01 19         19 02 03         19 03 05         19 03 07         19 04 01         19 05	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 wastes from incineration or pyrolysis of waste ferrous materials removed from bottom ash bottom ash and slag other than those mentioned in 19 01 11 fly ash other than those mentioned in 19 01 13 pyrolysis wastes other than those mentioned in 19 01 17 sands from fluidised beds wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation) premixed wastes composed only of non-hazardous wastes stabilised/solidified wastes stabilised wastes other than those mentioned in 19 03 04 solidified wastes other than those mentioned in 19 03 06 vitrified waste and wastes from vitrification vitrified waste						

Table S2.1 Perm	itted waste types for disposal at a landfill for non-hazardous waste
Waste code	Description
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 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 04	spent activated carbon
19 10	wastes from shredding of metal-containing wastes
19 10 01	iron and steel waste
19 10 02	non-ferrous waste
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 06	other fractions other than those mentioned in 19 10 05
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 01	paper and cardboard
20 01 02	glass
20 01 10	clothes
20 01 11	textiles
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

Table S2.1 Perm	itted waste types for disposal at a landfill for non-hazardous waste				
Waste code	Description				
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35				
20 01 38	wood other than that mentioned in 20 01 37				
20 01 39	plastics				
20 01 40	metals				
20 01 41	wastes from chimney sweeping				
20 02	garden and park wastes (including cemetery waste)				
20 02 01	biodegradable waste				
20 02 02	soil and stones				
20 02 03	other non-biodegradable wastes				
20 03	other municipal wastes				
20 03 01	mixed municipal waste				
20 03 02	waste from markets				
20 03 03	street-cleaning residues				
20 03 04	septic tank sludge				
20 03 06	waste from sewage cleaning				
20 03 07	bulky waste				

Table S2.2 Permitted waste types for restoration				
Waste code	Description			
As agreed in acc	cordance with IC1 in table S1.3.			

# Schedule 3 – Emissions and monitoring

Monitoring point reference/Description	Limit	Monitoring frequency	Monitoring standard and method
Operational Cells or Phases (Any cells or p	phases that do not have a fina	al engineered cap a	greed in accordance with the landfill engineering condition, 2.6)
Leachate compliance and monitoring points BH17A, M3 and future leachate monitoring wells as they are constructed.	1 m above top of basal liner	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 Environment Agency as part of a leachate monitoring plan.
s shown on Borehole Location Plan Nov 016 Ref: EM1196/WM295/BH2016-RO			
Non Operational Cells or Phases (Any cell	s or phases that have a final o	engineered cap agr	eed in accordance with the landfill engineering condition, 2.6)
-	-	Quarterly	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 Environment Agency as part of a

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Gas Engine subject to	Oxides of Gas Nitrogen utilisation	500 mg/m <sup>3</sup>	Hourly mean	Annually	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency	
pre- operational measure 4	со	plant	1400 mg/m <sup>3</sup>			
in Table S1.4	Total VOCs		1000 mg/m <sup>3</sup>			
Flare subject to	Oxides of Nitrogen	Landfill Gas	150 mg/m <sup>3</sup>	Hourly mean	Annual	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency.
pre- operational	CO Flares 50 mg/m <sup>3</sup>		с ,	Monitoring is unnecessary where the flare is active for		
measure 4 in Table S1.4	Total VOCs		10 mg/m <sup>3</sup>			<10% of the year.

Emission point Ref. & Location	Parameter	Source	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Groundwater	рН	Sub liner	7-8	Spot sample	Monthly	As specified in Environment Agency Guidance
underdrain discharge point into	EC	groundwater drainage system	1750 µs/cm			TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit
Whiscombe	NH4-N		0.5 mg/l		(www.gov.uk) or suc	(www.gov.uk) or such other subsequent guidance as
Brook as shown on	COD		75 mg/l	-		may be agreed in writing with the Environment Agency
drawing	CI		120 mg/l			
	DO		20%			

Emission point Ref. & Location	Parameter	Source	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
3DV51137-E (8/12/2006)	Hazardous substances		MRV for all hazardous substances detected*		Annually	

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Down gradient – BH15, BH18 and BH 19 identified on Drawing HRA2	рН	6 - 8	Spot Sample	Quarterly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your</u> <u>environmental permit</u> ( <u>www.gov.uk</u> ) or such other subsequent guidance as may be agreed in writing with the Environment Agency
	NH4-N	0.50 mg/l			
	CI	65 mg/l			
	Fe	60 mg/l			
	Hazardous substances	MRVs*		Annually	

Monitoring point Ref. /description	Parameter	Limit (includin g units)	Monitoring frequency	Monitoring standard or method
Combined gas and	Methane	1 %v/v	Monthly	As per LFTGN03 (Sept 2004) or such other subsequent guidance as may be
groundwater monitoring boreholes 2A, 3, 4,	Carbon Dioxide	4.6 %v/v		agreed in writing with the Environment Agency.
6, 7, 8, 11, 12A, 15,	Oxygen	no limit		Record whether the ground is: waterlogged
16A, 17, 18A, 19A, 20, 21, 21A.	Atmospheric pressure	no limit		frozen snow covered
	Differential Pressure	no limit		

Table S3.6 Point source emissions to sewer, effluent treatment plant or by tankering or other transfer off-site – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
HSAF outlet flow meter, prior to discharge to sewer at Bancombe Road. As shown drawing EM 1196/WM172/NMP01 dated March 2010	Flow rate	Leachate arising from the landfill	65m <sup>3</sup>	Daily	Continuous	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency

Table S3.7 Particulate matter in ambient air - monitoring requirements					
Monitoring Point Ref. /Description	Parameter	Limit	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Dust monitoring gauge location as shown on drawing ref: EM1196/WM172/IC08/01 dated June 2009	Particulate matter	200mg/m²/day	As agreed in writing with Environment Agency	As agreed in writing with Environment Agency	As agreed in writing with Environment Agency Also record rainfall quantity and rainfall pH during the monitoring period.

Table S3.8 Landfill requirements	gas emissions from capped s	urfaces for cells that have accepted n	on hazardous biodegradable waste – monitoring
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	conductivity, chloride,		As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments</u> for your environmental permit (www.gov.uk) or such other subsequent guidanc		
	total alkalinity, magnesium, potassium, total sulphates, calcium, sodium, chromium, copper, iron, lead, nickel, zinc, manganese	Annually	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), <u>risk assessmen for your environmental permit</u> (www.gov.uk) or such other subsequent guidan		
	total alkalinity, magnesium, potassium, total sulphates, calcium, sodium, chromium, copper, iron, lead, nickel, zinc, manganese	Annually	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 operator shall also undertake a full leachate hazardous substances screen.		
	Hazardous substances detected in leachate	Annually for first six years of operation then every two years			
MEPP	Base of monitoring point (mAoD)	Annually			

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 [in cells for non- hazardous waste]	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 March 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.	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
/Description		nequency	mounou	
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 March 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

Monitoring Point	Parameter	Monitoring	Monitoring standard or	Other specifications
Ref.		frequency	method	
/Description				
Output to flare or LFG Utilisation Compound	Trace gas	Annually	Trace gas analysis in accordance with LFTGN04 (v3 March 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency [or a trace gas characterisation method agreed 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.
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.

Table S3.10 Landfill g	as – other monitor	ing requirements		
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Landfill gas flare subject to pre- operational condition 4 in Table S1.4	Temperature	As per LFTGN05 (v2 March 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.	
Gas engine, post turbo subject to pre- operational condition 4 in Table S1.4	NOx and CO	Quarterly	In accordance with Appendix C of LFTGN08, (v2 March 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 (Any cell or phases that do not h with condition 2.6)	ave a final engineered cap agreed in	At leachate compliance point as listed in table S3.1.		
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	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk</u> <u>assessments for your environmental</u> <u>permit (www.gov.uk)</u> 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 (mAoD)	Annually		None
Non Operational Cells or Phases (Any cell or phases that have a find condition 2.6)	inal engineered cap agreed in accord	ance with		
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,	Annually		
MEPP	Hazardous substances	Once every four years	]	None
MEPP	Depth to base (mAoD)	Annually	1	

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	Monthly	Spot sample	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your</u> <u>environmental permit</u> ( <u>www.gov.uk</u> ) or such other subsequent guidance as may be agreed in writing with the Environment 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
Point source emission to sewer, effluent treatment plant, tankering or other off site transfer As specified by schedule 3, table S3.6	Every 3 months	31 March, 30 June, 30 September, 31 December
Particulate matter in ambient air. As required by schedule 3, table S3.7	Every 6 months	30 June, 31 December
Emission of landfill gas from capped surfaces As specified by schedule 3, table S3.8	Every 12 months	31 December
Other groundwater monitoring As specified by schedule 3, table S3.9	Every 3 months	31 March, 30 June, 30 September, 31 December
Other Landfill gas monitoring As specified by schedule 3, table S3.10	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 S3.11	Every 12 months	31 December

Table S4.1 Reporting of monitoring data		
Parameter	Reporting period	Period ends
Other surface water monitoring As specified by schedule 3, table S3.12	Every 12 months	31 December
Meteorological data Landfill Directive, annex III, section 2	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.	
Accepted from offsite for treatment at any onsite effluent treatment plant.	
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	08/12/2016

Table S4.4 Reporting Forms		
Media/parameter	Reporting Format	Date of Form
Air	Form Air 1 or other reporting format to be agreed in writing with the Environment Agency	08/12/2016
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	08/12/2016
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	08/12/2016
Sewer	Form Sewer 1 or other reporting format to be agreed in writing with the Environment Agency	08/12/2016
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	08/12/2016
Particulate matter	Form Particulate 1 or other reporting format to be agreed in writing with the Environment Agency	08/12/2016
Waste Return	E-waste Return Form	
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	

# **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 incident or accident which significantly affects or may significantly affect the environment		
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 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		
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.

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

"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.

"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' - See 'List of Wastes'.

"WFD" means Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste [and repealing certain Directives] – the Waste Framework Directive.

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 or S2.2 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;

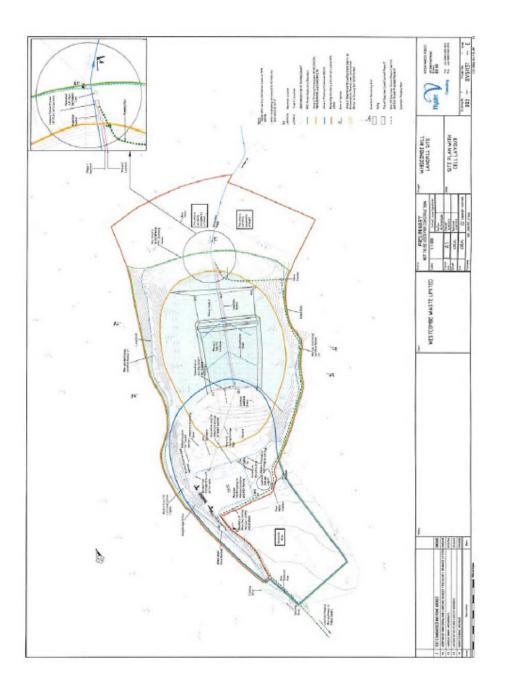
'transition metals' means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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

# Schedule 7 – Site plan



END OF PERMIT