

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Viridor Waste (Somerset) Limited

Walpole Landfill Site
Pawlett
Bridgwater
Somerset
TA6 4TF

Variation application number
EPR/BK6785IE/V010

Permit number
EPR/BK6785IE

Walpole Landfill Site

Permit number EPR/BK6785IE

Introductory note

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

The following notice gives notice of the variation and consolidation of an environmental permit.

The effect of the variation is to make the following changes as applied for by the operator:

- Add a waste operation for the treatment of waste wood;
- Change the anaerobic digestion (AD) activity from a waste operation to an installation;
- Add an effluent treatment plant to recover process water from the digestate from the AD activity;
- Increase the annual tonnage of asbestos at the landfill;
- Amend the groundwater monitoring programme for the landfill;
- Amend Improvement Condition 6 relating to the landfill;
- Add emission points to air from the AD plant;
- Increase the rate of discharge of surface water run-off;
- Consolidate this variation with all previous variations and update to modern conditions.

We have amended table S1.3 by adding a new improvement condition (reference IC7) which was previously part iii) of pre-operational condition 1.

We have amended table S3.9 by:

- moving the monitoring points WPWW1 and WPWWW2 to table S3.8 as this monitoring is leachate and not surface water; and
- moving monitoring point WPDIs to table S3.3 as this monitoring is of a point source emission to water.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application received BK6785IE (EPR/BK6785IE/A001)	Duly Made 28/12/02	Application for non-hazardous landfill
Permit determined BK6785IE (EPR/BK6785IE/A001)	11/06/04	
Variation application DP3132SF (EPR/BK6785IE/V002)	Duly Made 12/04/05	Application withdrawn
Variation application CP3934MP (EPR/BK6785IE/V003)	Duly Made 30/09/06	Agency initiated variation – vary to modern conditions

Status log of the permit

Description	Date	Comments
Variation determined CP3934MP (EPR/BK6785IE/V003)	31/03/08	
Variation application EPR/BK6785IE/V004	Variation application cancelled	
Variation application EPR/BK6785IE/V005	Duly Made 19/03/09	Variation application to add an installation comprising biogas engines and associated anaerobic digestion
Variation determined EPR/BK6785IE/V005	30/04/10	
Variation application EPR/BK6785IE/V006	13/07/10	Administrative variation
Variation determined EPR/BK6785IE/V006	27/07/10	
Variation application EPR/BK6785IE/V007	Duly Made 21/12/11	Application to change annual waste tonnages
Variation determined EPR/BK6785IE/V007	27/01/12	
Variation application EPR/BK6785IE/V008	Duly Made 27/06/12	Application to change a number of monitoring requirements, change to location of AD biogas engines, add standby boiler for AD activity, adding construction and demolition waste treatment plant and facility for treating street sweeping wastes and change biogas engines and associated AD plant to a waste operation.
Variation determined EPR/BK6785IE/V008	24/10/12	
Agency variation determined EPR/BK6785IE/V009	07/05/13	Agency variation to implement the changes introduced by IED
Variation application EPR/BK6785IE/V010	Duly made 27/06/13	Application to add a wood waste treatment operation, change AD activity from waste operation to installation, add a treatment plant for recovering process water from AD digestate, increase annual tonnage of asbestos at the landfill, amend groundwater monitoring, change improvement condition 6, add emission points to air from AD digester tanks, amend discharge to surface water, and consolidate and update permit.
Variation determined EPR/BK6785IE/V010 (Installation billing ref: ZP3138NV)	12/06/14	Varied and consolidated permit issued.

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/BK6785IE

issued to
Viridor Waste (Somerset) Limited (“the operator”)

whose registered office is

Peninsula House
Rydon Lane
Exeter
Devon
EX2 7HR

company registration number **02631783**

to operate regulated facilities at

Walpole Landfill Site
Pawlett
Bridgwater
Somerset
TA6 4TF

to the extent set out in the schedules.

The notice shall take effect from 12/06/14

Name	Date
Alison Drury	12/06/14

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions have been varied by the consolidated permit as a result of the application made by the operator:

- condition 1.2.1 – amending date of legal agreement;
- condition 1.3.1 – prefix sentence added to clarify that this condition applies only to the non-landfill installation activities;
- condition 2.6.1 – added to refer to the permitted wastes and regulate the acceptance of waste at the non-landfill activities;
- condition 2.6.2 – amended to specify the permitted wastes for the landfill;
- condition 3.1.10 – added as a result of the implementation of the Industrial Emissions Directive that applies to the Anaerobic Digestion (AD) Plant and the AD effluent treatment plant;
- condition 4.3.2 – added as a result of the implementation of the Industrial Emissions Directive that applies to the Anaerobic Digestion (AD) Plant and the AD effluent treatment plant;
- table S1.1, as referenced by condition 2.1.1 – amended to include the new activities;
- table S1.2, as referenced by condition 2.3.1 – amended to add the operating techniques for the new applied for activities;
- table S1.3, as referenced by condition 2.4.1 – wording and compliance date amended;
- table S1.4 – updated with new asbestos quantity;
- table S2.6, as referenced by condition 2.6.1 – added to specify the types and quantity of waste that can be accepted for waste wood treatment;
- table S3.2, as referenced by condition 3.1.1 – amended to add the point source emissions to air from the AD plant;
- table S3.3, as referenced by condition 3.1.1 – amended by increasing the discharge of surface water from the site;
- table S3.4, as referenced by condition 3.1.6 – amended with new compliance limits and frequency;
- table S3.10, as referenced by condition 3.3.1 – amended with new monitoring programme for groundwater;
- table S3.12, as referenced by condition 3.3.1 – added requirement for process monitoring of the AD plant;
- table S4.2, as referenced by condition 4.2.2 – amended to add reporting of annual production/treatment requirements in relation to the AD process;
- table S4.3, as referenced by condition 4.2.2 – amended to add reporting of performance parameters in relation to the AD process.

The following conditions have been varied by the consolidated permit at the initiation of the Environment Agency:

- condition 2.6.7 – updated to refer to the pre-settlement contours drawing;
- table S1.2, as referenced by condition 2.3.1 – amended to add relevant documents as a result of compliance with improvement conditions;
- table S1.3, as referenced by condition 2.4.1 – new condition IC7 added to replace part iii) of pre-operational condition 1, as information can be submitted after operation of the Combined Heat and Power (CHP) engines;
- table S1.3, as referenced by condition 2.4.1 – new condition IC8 added that requires the operator to clarify the surface water management for the Wood Waste Treatment Area.
- table S2.2, as referenced by condition 2.6.2 – amended to remove asbestos wastes;
- table S2.3, as referenced by condition 2.6.2 – added to specify the types of asbestos wastes that can be accepted (those removed from table S2.2);
- table S2.4, as referenced by condition 2.6.1 – added to specify the type and quantity of waste that can be accepted at the leachate treatment plant;
- table S3.3, as referenced by condition 3.1.1 – amended by adding additional monitoring for point WPD_{is}, moved from table S3.9;
- table S3.8, as referenced by condition 3.3.1 – amended by adding points WPWW1 and WPWW2 moved from table S3.9 and removal of requirement to monitor leachate level as this is a duplication of table S3.1;
- table S3.9, as referenced by condition 3.3.1 – amended by moving points WPWW1 and WPWW2 to table S3.8 and WPD_{is} to table S3.3;
- schedule 7, as referenced by condition 2.2.1 - amended with a new site plan.

All other conditions are updated to the modern permit template.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number
EPR/BK6785IE

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BK6785IE/V010 authorising,

Viridor Waste (Somerset) Limited (“the operator”),
whose registered office is

Peninsula House
Rydon Lane
Exeter
Devon
EX2 7HR

company registration number **02631783**
to operate installations and a waste operation at

Walpole Landfill Site
Pawlett
Bridgwater
Somerset
TA6 4TF

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

Name	Date
Alison Drury	12/06/14

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, closure 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 11 June 2014 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 For the following activities referenced in schedule 1, table S1.1, A2, A3 and A4, 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 For the following activities referenced in schedule 1, table S1.1, A2, A3 and A4, the operator shall:

- (a) 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 For the following activities referenced in schedule 1, table S1.1, A2, A3, A4 and A15, the operator shall take appropriate measures to ensure that:

- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.5.2 For the following activities referenced in schedule 1, table S1.1, A2, A3, A4 and A15, the operator shall review and record at least every four years whether changes to those measures should be made and 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").

2.1.2 For the following activities referenced in schedule 1, table S1.1, A3 and A4, waste authorised by this permit shall be clearly distinguished from any other waste on the site.

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 (a) 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.
- (b) 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.
- 2.3.2 For the following activities referenced in schedule 1, table S1.1, A2, A3, A4 and A15, any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.3 For the following activities referenced in schedule 1, table S1.1, A2, A3 and A4, the operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
- (b) the composition of the waste;
- (c) the handling requirements of the waste;
- (d) the hazardous property associated with the waste, if applicable; and
- (e) the waste code of the waste.
- 2.3.4 For the following activities referenced in schedule 1, table S1.1, A2, A3 and A4, the operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

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 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 2.6.9(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.

2.6 Waste acceptance

2.6.1 For the following activities referenced in schedule 1, table S1.1, A2, A3, A4 and A15, waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 2 tables S2.4, S2.5 and S2.6; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

2.6.2 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, tables S2.2 and S2.3, and
- (b) they are non- hazardous waste or asbestos and construction materials containing asbestos, 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) where 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.

2.6.3 Asbestos containing wastes and construction materials containing asbestos shall only be disposed of with other suitable wastes and not in cells containing biodegradable non-hazardous waste. Asbestos waste and construction material containing asbestos must meet the relevant waste acceptance criteria and must be covered daily and before each compaction operation with appropriate material.

2.6.4 For the following activities referenced in schedule 1, table S1.1, A1, the operator shall visually inspect:

- (a) without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill; and
- (b) waste at the point of deposit;

and shall satisfy itself that it conforms to the basic characterisation documentation submitted by the holder.

- 2.6.5 For the following activities referenced in schedule 1, table S1.1, A1, 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.
- 2.6.6 For the following activities referenced in schedule 1, table S1.1, A1, the operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.6.7 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing reference WAL7000/SEP'08 titled "Top of final waste plan".
- 2.6.8 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.4.
- 2.6.9 For the following activities referenced in schedule 1, table S1.1, A1, 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.
- 2.6.10 For the following activities referenced in schedule 1, table S1.1, A1, the operator shall maintain and implement a system to record the disposal location of any hazardous waste.

2.7 Leachate levels

- 2.7.1 For the following activities referenced in schedule 1, table S1.1, A1, 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 For the following activities referenced in schedule 1, table S1.1, A1, the operator shall maintain a closure and aftercare management plan.

2.9 Landfill gas management

- 2.9.1 For the following activities referenced in schedule 1, table S1.1, A1, 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 For the following activities referenced in schedule 1, table S1.1, A1, 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 flare the gas.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 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 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 For the following activities referenced in schedule 1, table S1.1, A1, 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 For the following activities referenced in schedule 1, table S1.1, A1, there shall be no emission from the activities into groundwater of any hazardous substances contrary to the EP Regulations.
- 3.1.5 For the following activities referenced in schedule 1, table S1.1, A1, there shall be no emission from the activities into groundwater of any non-hazardous pollutants so as to cause pollution.
- 3.1.6 The trigger levels for emissions into groundwater for the parameter(s) and monitoring point(s) set out in schedule 3 table S3.4 shall not be exceeded.
- 3.1.7 For the following activities referenced in schedule 1, table S1.1, A1, the operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment between nine and six months prior to the 24/10/2018 and between nine and six months prior to every sixth anniversary thereafter.
- 3.1.8 The limits for landfill gas arising from the installation set out in schedule 3, tables S3.5 and S3.6 shall not be exceeded.
- 3.1.9 The limits for particulate matter arising from the installation set out in schedule 3, table S3.11 shall not be exceeded.
- 3.1.10 For the following activities referenced in schedule 1, table S1.1, A2, A3 and A4, 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 a 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 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 Monitoring

3.3.1 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 S3.8;
- (b) Point source emissions specified in tables S3.2 and S3.3;
- (c) Groundwater specified in tables S3.4 and S3.10;
- (d) Landfill gas specified in tables S3.5, S3.6 and S3.7;
- (e) Surface water specified in table S3.9;
- (f) Particulate matter specified in table S3.11; and
- (g) Process monitoring specified in table S3.12.

3.3.2 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.

3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.3.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.

3.3.5 For the following activities referenced in schedule 1, table S1.1, A1, a topographical survey of the site referenced to ordnance datum shall be carried out:

- (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.

The topographical survey shall be used to produce a plan of a scale adequate to show the surveyed features of the site.

3.4 Odour

3.4.1 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.

3.5 Noise and vibration

- 3.5.1 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.

3.6 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.

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) off-site environmental effects;
 - (ii) matters which affect the condition of the land and groundwater;
 - (iii) the results of groundwater monitoring;
 - (iv) sub-surface landfill gas monitoring;
 - (v) leachate levels, quality and quantities;
 - (vi) landfill gas generation and collection;
 - (vii) waste types and quantities;
 - (viii) the location of hazardous waste deposits; and
 - (ix) 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 all 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 For the following activities referenced in schedule 1, table S1.1, A1 to A4, a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) 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 the permit including an interpretive review of that data;
 - (b) for the following activities referenced in schedule 1, table S1.1, A1, 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;
 - (c) the annual production/treatment data set out in schedule 4 table S4.2;
 - (d) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule;
 - (e) the energy consumed at the site, reported in the format set out in schedule 4 table S4.3;
 - (f) for the following activity referenced in schedule 1, table S1.1, A1, the topographical surveys required by condition 3.3.5 other than those submitted as part of a CQA validation report;
 - (g) for the following activity referenced in schedule 1, table S1.1, A1, 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;
 - (h) for the following activity referenced in schedule 1, table S1.1, A1, 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;
 - (i) for the following activity referenced in schedule 1, table S1.1, A1, a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey.
- 4.2.3 For the following activities referenced in schedule 1, table S1.1, A1 to A4, 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) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

- 4.2.4 For the following activities referenced in schedule 1, table S1.1, A1 to A4, 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.
- 4.2.5 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.

4.3 Notifications

- 4.3.1 For the following activities referenced in schedule 1, table S1.1, A15, the Environment Agency shall be notified without delay following the detection of:
- (a) 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;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.2 For the following activities referenced in schedule 1, table S1.1, A1 to A4,
- (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.
- 4.3.3 Any information provided under conditions 4.3.1 or 4.3.2 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.4 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.5 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.

4.3.6 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.

4.3.7 For the following activities referenced in schedule 1, table S1.1, A1 to A4, the Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.3.8 For the following activities referenced in schedule 1, table S1.1, A1 to A4, where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

- (a) a decision by the Secretary of State not to re-certify the agreement;
- (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
- (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

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 "without delay", in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1	Section 5.2 Part A(1) (a) The disposal of waste in a landfill	Landfill for non-hazardous waste and asbestos, including restoration D5 –Specially engineered landfill	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	Section 5.4 Part A(1)(a)(i) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day by biological treatment	Treatment of leachate D8 – biological treatment	Leachate arising from the landfill and imported from other waste management facilities to point of discharge. Waste types and quantities as specified in table S2.4.
A3	Section 5.4 A(1)(b)(i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 100 tonnes per day involving one or more of the following activities: biological treatment	Anaerobic digestion of permitted wastes (<10 tonnes of animal carcasses and animal waste per day) followed by burning of biogas produced from the process R3 : Recycling/reclamation of organic substances which are not used as solvents R13 : Storage of waste pending any of the operations numbered R1 and R3 (excluding temporary storage, pending collection, on the site where it is produced)	Pre-treatment of wastes as listed in table S2.5 prior to digestion which includes screening, shredding and maceration. Anaerobic digestion of wastes as listed in table S2.5 including pasteurisation and chemical addition. Gas cleaning by biological or chemical scrubbing. Post-treatment of digestate including screening to remove plastic residues, centrifuge or pressing, addition of thickening agents (polymers) or drying. From the receipt of waste listed in table S2.5 through to its digestion and recovery of by-products from the installation. The activity shall only take place in the area labelled "Anaerobic Digestion Plant" on drawing WAL2000.

Table S1.1 activities

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A4	Section 5.4 Part A(1)(b)(i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities: biological treatment	Treatment of liquid digestate from anaerobic digestion R3 - Recycling/reclamation of organic substances	Effluent arising from the dewatering of digestate from the anaerobic digestion plant to point of discharge or recirculation into the anaerobic digestion plant. The activity shall only take place in the area labelled "Anaerobic Digestion Plant" on drawing WAL2000.
Directly Associated Activity			
A5	Burning of waste as a fuel	Combustion of landfill gas for the purpose of electricity generation in three engines with a thermal input of 2348 kWth per engine. R1 : Use principally as a fuel to generate energy	Landfill gas arising from the landfill (Activity A1).
A6	Combined treated leachate and groundwater storage	Storage in balancing lagoon of treated leachate and collected groundwater prior to authorised disposal to Huntspill River.	Groundwater and treated leachate arising from the landfill and imported from other waste management facilities (Activity A2) and from the AD effluent treatment plant (Activity A4).
A7	Landfill gas flaring	Flaring of landfill gas for disposal in an appliance. D10 : Incineration on land	Landfill gas arising from the landfill (Activity A1).
A8	Water discharges to controlled waters	Discharges of site drainage and treated leachate from the landfill and anaerobic digester facility	From surface water and groundwater management system to entry to controlled waters (emission points as detailed in table S3.3).
A9	Construction and Demolition Waste Processing	Storage and treatment of waste via crushing and screening. D9 : Physico-chemical treatment which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (e.g. evaporation, drying, calcination)	Receipt, handling and processing of Construction and Demolition waste for use as cover and for site roads at the landfill (Activity A1).

Table S1.1 activities

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A10	Dewatering of Street Sweeping waste	Storage and treatment by dewatering of street sweeping waste. D9: Physico-chemical treatment which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (e.g. evaporation, drying, calcination)	Receipt, handling, storage and dewatering of street sweeping waste to disposal of solids in the landfill (Activity A1) and tankering of effluent off-site.
A11	Storage of raw materials	Storage of raw materials for use in activities A2, A3 and A4	
A12	Burning of waste as a fuel	Combustion of biogas in two combined heat and power (CHP) engines with a thermal input of 2865 kWth per engine R1: Use principally as a fuel to generate energy	From the receipt of biogas produced on-site from Activity A3 to combustion via CHP engines with the release of combustion gases. Auxiliary boiler: From the receipt of fuel (biogas) to despatch to boilers for combustion with release of combustion gases.
A13	Emergency flare operation	Use of an auxiliary flare required only for periods of breakdown or maintenance of the CHP engines. D10: Incineration on land	From the receipt of biogas produced on-site from Activity A3 to incineration with the release of combustion gases.
A14	Biogas storage	Storage of biogas produced from anaerobic digestion of permitted waste on site	From the storage of biogas produced from anaerobic digestion (Activity A3) to despatch for combustion

	Description of activities for waste operations	Limits of activities
A15	R3 – Recycling/reclamation of organic substances which are not used as solvents	Treatment of wood wastes in the area labelled “Woodchip Processing Area” on drawing reference WAL2000. Waste types in accordance with table S2.6. No more than 25,000 tonnes per annum.
	R13 – Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Storage in area labelled “Woodchip Storage Area” on drawing reference WAL2000. No more than 2000 tonnes stored at any one time.

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to questions 2.1 given in document ref. Report D/180/D011 working plan and working plan appendices of the application excluding all details of the proposed final landform.	20/12/2002
Application	Response to questions on the working plan with respect to working plan index	06/05/2004
Responses to letter dated 5 February 2004	Waste types;	11/06/2004
	Waste acceptance criteria;	16/03/2004
	Landfill gas management;	30/04/2004
	Surface water management system;	26/03/2004 & 06/05/2004
	Location of quarantine area;	16/03/2004
	Monitoring and sampling quality control plan;	30/04/2004
	Sampling plan for incoming waste; and	12/03/2004
	Meteorological monitoring.	16/03/2004
	Which supplement or replace the relevant sections in document reference Report D/180/D011 working plan and working plan appendices	
Variation Application DP3132SF	Application for Modification of PPC Permit Document Reference D/180/018	12/04/2005
Post Permit Issue	Review of analytical suites and sampling schedules	10/09/2006
Responses to Improvement Conditions 9.4, 9.5, 9.7 & 9.8	Stability Risk Assessment for asbestos cell in existing site	July 2005
	Dust Monitoring Protocol	20/04/2006
	Asbestos Monitoring Protocol	January 2006 & 20/04/2006
Site Protection and Monitoring Programme	Site Protection and Monitoring Plan submitted in response to condition 2.11 of this permit.	
Compliance with IC1	Drawing reference WAL7000/SEP'08 titled "Top of final waste plan".	26/09/2008
Substantial Variation Application EA/EPR/BK6785IE/V005	Section C of the environmental Permit Application SLR Ref 402-0036-00328 January 2009	19/03/2009
Schedule 5 Notice issued 24/07/09	Response to questions 3, 4 and 5.	02/09/2009
Hydrogeological Risk Assessment Review	All – except those techniques that have been amended in the correspondence listed below	April 2012
Correspondence from Viridor dated 10 th August 2012 (Ref: 2012/Env/WPHRAR/se_10082012)	All – except those techniques that have been amended in the correspondence listed below	10/08/2012
Correspondence from Viridor dated 10 th September 2012 – Email 'Walpole HRAR and permit variation' & Letter '2012/Env/WP/se_10092012'	All	10/09/2012

Table S1.2 Operating techniques

Description	Parts	Date Received
Perimeter Gas Monitoring Management Report	All – Except those techniques that have been amended in the Schedule 5 Notice response received 03/10/2012 (referenced below)	March 2012
Variation Application EPR/BK6785IE/V008	Application Form Part C4 Response to questions 3 & 4.	27/06/2012
Response to Schedule 5 Notice	Responses to questions 1, 2, 4, 6, 9, 10, 11, 12, 13, 14 and 15	03/10/2012
Variation Application EPR/BK6785IE/V010	Application form Part C3 – response to question 3a Application form Part B4 – response to question 3a WALSUPDOC13 (Supporting statement dated 28/03/2013) – sections 3 and 4.	27/06/2013
Response to Schedule 5 Notice dated 25/07/2013	Response to questions 1 and 2	09/08/2013
Response to request for information dated 17/10/2013	Drawing reference WALAD 07	31/10/2013
Compliance with Pre-operational measure 3	Dewatering procedures CQA Report	29/10/2013 31/10/2013

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
1 to 4	Completed	Completed
5	<p>The Operator shall carry out a sampling and monitoring programme to establish the environmental impact of the combined discharge as sampled at WPDIs, comprised of treated landfill leachate, treated AD leachate and groundwater, prior to its discharge to the Huntspill River at discharge point S1.</p> <p>The sampling and monitoring programme shall determine the levels of the following pollutants within the combined discharge from the site:</p> <p>BOD, Ammoniacal Nitrogen, Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Zinc, Fluoride, Iron, Mecoprop, Toluene, Xylene, Bromoxynil, Aldrin, Azinphos-methyl, 2,4-Dichlorophenoxyacetic acid and other pollutants of concern which might be identified in the treated AD leachate.</p> <p>The Operator shall for each pollutant analyse a minimum of 12 samples. In respect of each pollutant both within the combined discharge and River Huntspill. The samples shall be taken over a 12 month period with a minimum of three weeks between each sample. Samples already collected by the Operator may be taken into account where appropriate.</p> <p>The Operator shall submit a report to the Environment Agency for approval which contains as a minimum:</p> <ul style="list-style-type: none"> All the results of the sampling and monitoring programme undertaken including the time and date of the sample along with the National Grid Reference of the sampling point. An analysis of these results and an explanation of any variation identified within the results. Details of and conclusions from an environmental impact assessment using the methodology prescribed in the Agency's guidance 'Environmental Assessment and Appraisal 	13 months from the commissioning of the AD plant.

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
	<p>of BAT' (Ref, H1) and based on the results obtained.</p> <ul style="list-style-type: none"> Proposed emission limit values for all these pollutants based on the modelling undertaken. <p>The final report assessing the environmental impact of the emissions shall be submitted 13 months from the commissioning of the AD plant.</p>	
IC6	<p>The operator shall carry out a monthly sampling and monitoring programme over a 12 month period to establish the baseline groundwater quality at the following locations: WP001WM, WP005WM, WP009WM, WP015WM, WP028WM, WP036WM, WP051WM, WP089WM, WP090WM, WP091WM and WPGWDis.</p> <p>The analysis will include the following parameters: Ammoniacal Nitrogen, Chloride, Electrical Conductivity, Magnesium, Potassium, Calcium, Sodium, Total sulphates, Nitrates, Nitrites, Phosphates, Nickel, Arsenic, Toluene, Mecoprop and rest water level (mAOD).</p> <p>The operator shall undertake an assessment of the dataset. The outcome of the assessment will be provided in a report for agreement with the Environment Agency.</p> <p>The report submitted to the Environment Agency for approval shall contain the following as a minimum:</p> <ul style="list-style-type: none"> All the results of the sampling and monitoring programme undertaken including the time and date of the sample along with the National Grid Reference of the sampling point An analysis of these results and an explanation of any variation identified within the results Proposed groundwater control and compliance limits for all locations for Ammoniacal Nitrogen, Nickel, Arsenic, Toluene and Mecoprop. 	completed
IC7	<p>The operator shall submit a report to the Environment Agency in writing that compares the flow, velocity and pollutant concentrations in the two CHP gas engines (referenced A5 and A6 in table S3.2) and flare (referenced A7 in table S3.2) with those used within the air quality model.</p>	Within 6 months of commissioning of the gas engines and flare.
IC8	<p>The operator shall confirm in writing to the Environment Agency the proposals for the management of surface water at the Wood Treatment Area and include proposals for the separation of the treatment area drainage from the haul road drainage.</p>	30/09/14

Table S1.4 Annual waste input limits

Category	Limit Tonnes/ Year
Non-hazardous waste	185,000 from 1 January 2012
Inert waste	150,000 from 1 January 2015
Asbestos waste and construction material containing asbestos	99,000

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels

Raw materials and fuel description	Specification
-	-

Table S2.2 Permitted waste types for disposal in the landfill (Activity A1)

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 03	wastes from physical and chemical processing of metalliferous minerals
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 08	dusty and powdery wastes other than those mentioned in 01 03 07
01 03 09	red mud from alumina production other than the wastes mentioned in 01 03 07
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 10	dusty and powdery wastes other than those mentioned in 01 04 07
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07
01 05	drilling muds and other drilling wastes
01 05 04	freshwater drilling muds and wastes
01 05 07	barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
01 05 08	chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 01	sludges from washing and cleaning
02 01 02	animal-tissue waste
02 01 03	plant-tissue waste
02 01 04	waste plastics (except packaging)
02 01 06	animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site
02 01 07	wastes from forestry
02 01 09	agrochemical waste other than those mentioned in 02 01 08
02 01 10	waste metal

Table S2.2 Permitted waste types for disposal in the landfill (Activity A1)

Waste code	Description
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 01	sludges from washing and cleaning
02 02 02	animal-tissue waste
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 02	wastes from preserving agents
02 03 03	wastes from solvent extraction
02 03 04	materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 04	wastes from sugar processing
02 04 01	soil from cleaning and washing beet
02 04 02	off-specification calcium carbonate
02 04 03	sludges from on-site effluent treatment
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site effluent treatment
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing
02 06 02	wastes from preserving agents
02 06 03	sludges from on-site effluent treatment
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 03	wastes from chemical treatment
02 07 04	materials unsuitable for consumption or processing
02 07 05	sludges from on-site effluent treatment
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
03 03 02	green liquor sludge (from recovery of cooking liquor)
03 03 05	de-inking sludges from paper recycling
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 09	lime mud waste
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10

Table S2.2 Permitted waste types for disposal in the landfill (Activity A1)

Waste code	Description
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 15	wastes from finishing other than those mentioned in 04 02 14
04 02 17	dye stuffs 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 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13	boiler feedwater sludges
05 01 14	wastes from cooling columns
05 01 16	sulphur-containing wastes from petroleum desulphurisation
05 01 17	bitumen
05 06	wastes from the pyrolytic treatment of coal
05 06 04	waste from cooling columns
05 07	wastes from natural gas purification and transportation
05 07 02	wastes containing sulphur
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 16	metallic oxides other than those mentioned in 06 03 15
06 05	sludges from on-site effluent treatment
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06	wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02
06 09	wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes
06 09 02	phosphorous slag
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	wastes from the manufacture of inorganic pigments and opacifiers
06 11 01	calcium-based reaction wastes from titanium dioxide production
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 03	carbon black

Table S2.2 Permitted waste types for disposal in the landfill (Activity A1)

Waste code	Description
07	WASTES FROM ORGANIC CHEMICAL PROCESSES
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 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 01 20	aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
08 02	wastes from MFSU of other coatings (including ceramic materials)
08 02 01	waste coating powders
08 02 02	aqueous sludges containing ceramic materials
08 02 03	aqueous suspensions containing ceramic materials
08 03	wastes from MFSU of printing inks
08 03 07	aqueous sludges containing ink
08 03 15	ink sludges other than those mentioned in 08 03 14
08 03 18	waste printing toner other than those mentioned in 08 03 17
08 04	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
08 04 12	adhesive and sealant sludges other than those mentioned in 08 04 11
08 04 14	aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01	wastes from the photographic industry
09 01 07	photographic film and paper containing silver or silver compounds
09 01 08	photographic film and paper free of silver or silver compounds
09 01 10	single-use cameras without batteries

Table S2.2 Permitted waste types for disposal in the landfill (Activity A1)

Waste code	Description
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 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 23	aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 01 24	sands from fluidised beds
10 01 25	wastes from fuel storage and preparation of coal-fired power plants
10 01 26	wastes from cooling-water treatment
10 02	wastes from the iron and steel industry
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales
10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 03	wastes from aluminium thermal metallurgy
10 03 02	anode scraps
10 03 05	waste alumina
10 03 16	skimmings other than those mentioned in 10 03 15
10 03 18	carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 20	flue-gas dust other than those mentioned in 10 03 19
10 03 22	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	wastes from cooling-water treatment 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 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 05 11	dross and skimmings other than those mentioned in 10 05 10

Table S2.2 Permitted waste types for disposal in the landfill (Activity A1)

Waste code	Description
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
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 09 16	waste crack-indicating agent other than those mentioned in 10 09 15
10 10	wastes from casting of non-ferrous pieces
10 10 03	furnace slag
10 10 06	casting cores and moulds which have 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 10 16	waste crack-indicating agent other than those mentioned in 10 10 15
10 11	wastes from manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials
10 11 05	particulates and dust
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09

Table S2.2 Permitted waste types for disposal in the landfill (Activity A1)

Waste code	Description
10 11 12	waste glass other than those mentioned in 10 11 11
10 11 14	glass-polishing and -grinding sludge other than those mentioned in 10 11 13
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 11 20	solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	waste preparation mixture before thermal processing
10 12 03	particulates and dust
10 12 05	sludges and filter cakes from gas treatment
10 12 06	discarded moulds
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12	wastes from glazing other than those mentioned in 10 12 11
10 12 13	sludge from on-site effluent treatment
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 01	waste preparation mixture before thermal processing
10 13 04	wastes from calcination and hydration of lime
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)
10 13 07	sludges and filter cakes from gas treatment
10 13 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, phosphatising, alkaline degreasing, anodising)
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 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 01	hard zinc
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 01	ferrous metal filings and turnings
12 01 02	ferrous metal dust and particles
12 01 03	non-ferrous metal filings and turnings
12 01 04	non-ferrous metal dust and particles

Table S2.2 Permitted waste types for disposal in the landfill (Activity A1)

Waste code	Description
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
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
15 02	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 03	end-of-life tyres
16 01 06	end-of-life vehicles, containing neither liquids nor other hazardous components
16 01 15	antifreeze fluids other than those mentioned in 16 01 14
16 01 16	tanks for liquefied gas
16 01 17	ferrous metal
16 01 18	non-ferrous metal
16 01 19	plastic
16 01 20	glass
16 01 22	components not otherwise specified
16 02	wastes from electrical and electronic equipment
16 02 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
16 05	gases in pressure containers and discarded chemicals
16 05 05	gases in pressure containers other than those mentioned in 16 05 04
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 06	batteries and accumulators
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
16 08	spent catalysts
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)

Table S2.2 Permitted waste types for disposal in the landfill (Activity A1)

Waste code	Description
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 08 04	spent fluid catalytic cracking catalysts (except 16 08 07)
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 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
17 04	metals (including their alloys)
17 04 01	copper, bronze, brass
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
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
18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection(for example dressings, plaster casts, linen, disposable clothing, diapers)
18 01 07	chemicals other than those mentioned in 18 01 06

Table S2.2 Permitted waste types for disposal in the landfill (Activity A1)

Waste code	Description
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 02	ferrous materials removed from bottom ash
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 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 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09	wastes from the preparation of water intended for human consumption or 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

Table S2.2 Permitted waste types for disposal in the landfill (Activity A1)

Waste code	Description
19 10	wastes from shredding of metal-containing wastes
19 10 01	iron and steel waste
19 10 02	non-ferrous waste
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 06	other fractions other than those mentioned in 19 10 05
19 11	wastes from oil regeneration
19 11 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 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 05	glass
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 01	paper and cardboard
20 01 02	glass
20 01 08	biodegradable kitchen and canteen waste
20 01 10	clothes
20 01 11	textiles
20 01 25	edible oil and fat
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 30	detergents other than those mentioned in 20 01 29
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 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

Table S2.2 Permitted waste types for disposal in the landfill (Activity A1)

Waste code	Description
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 S2.3 Permitted waste types for disposal in the asbestos cell (Activity A1)

Waste code	Description
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 07	wastes from the MFSU of halogens and halogen chemical process
06 07 01*	wastes containing asbestos from electrolysis
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 04*	waste from asbestos processing
10	WASTES FROM THERMAL PROCESSES
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 09*	wastes from asbestos-cement manufacture containing asbestos
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 11*	metallic packaging containing a dangerous solid porous matrix (for example asbestos) including empty pressure containers
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 11*	brake pads containing asbestos
16 02	wastes from electrical and electronic equipment
16 02 12*	discarded equipment containing free asbestos
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	concrete, bricks, tiles and ceramics
17 01 06*	mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances – dangerous nature due to asbestos only
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 03*	soil and stones containing dangerous substances – dangerous nature due to asbestos only
17 06	insulation materials and asbestos-containing construction materials
17 06 01*	insulation materials containing asbestos
17 06 05*	Construction materials containing asbestos

Table S2.4 Permitted waste types and quantities for disposal in the leachate treatment plant (Activity A2)

Maximum quantity	15,000 tonnes per year
Waste code	Description
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 07	landfill leachate
19 07 03	Landfill leachate other than those mentioned in 19 07 02

Table S2.5 Permitted waste types and quantities for Anaerobic Digestion Facility (Activity A3)

Maximum quantity	45,000 tonnes per year (<10 tonnes of animal carcasses and animal waste per day)
Waste code	Description
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING.
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 01	sludges from washing and cleaning
02 01 02	animal tissue waste
02 01 03	Plant tissue waste
02 01 06	animal faeces, urine and manure (including spoiled straw)
02 01 07	wastes from forestry
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 01	sludges from washing and cleaning
02 02 02	animal-tissue waste
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 02	wastes from preserving agents
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 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 03	sludge's 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 04	materials unsuitable for consumption or processing

Table S2.5 Permitted waste types and quantities for Anaerobic Digestion Facility (Activity A3)

Maximum quantity	45,000 tonnes per year (<10 tonnes of animal carcasses and animal waste per day)
Waste code	Description
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 02	wastes from physico/chemical treatments of waste
19 02 10	combustible wastes
19 05	wastes from aerobic treatment of solid wastes
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 06	wastes from anaerobic treatment of waste
19 06 04	digestate from anaerobic treatment of municipal waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 08	wastes from waste water treatment works
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
20 01	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01 01	paper and cardboard
20 01 08	biodegradable kitchen and canteen waste
20 01 25	edible oil and fat
20 01 38	Wood (where no non-biodegradable coating or preserving substance present)
20 02	garden and park wastes (including cemetery waste
20 02 01	biodegradable waste
20 03	other municipal wastes
20 03 01	mixed municipal waste – separately collected biowastes
20 03 02	wastes from markets – markets – allowed only if source segregated biodegradable fractions e.g. plant material, fruit and vegetables

Table S2.6 Permitted waste types and quantities for treatment in wood chip area (Activity A15)

Maximum quantity	25,000 tonnes per year
Waste code	Description
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
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

Table S2.6 Permitted waste types and quantities for treatment in wood chip area (Activity A15)

Maximum quantity	25,000 tonnes per year
Waste code	Description
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 03	wooden packaging
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 02	wood, glass and plastic
17 02 01	wood
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 07	wood other than that mentioned in 19 12 06
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 38	wood other than that mentioned in 20 01 37
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste – comprising wood only

Schedule 3 – Emissions and monitoring

Table S3.1 Leachate level limits and monitoring requirements			
Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
Original Site: WPMH1, WPMH2, WPMH3, WPMH4, WPMH5, WPMH6, WPMH7, WPMH8	4.0 m	Quarterly	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02)
Northern Extension: WPMH11, WPMH12, WPMH13, WPMH14, WPMH15, WPMH16, WPMH17, WPMH18, WPMH19, WPMH20, WPMH21, WPMH22, WPMH23	1.75 m	Monthly	

Table S3.2 Point source emissions to air – emission limits and monitoring requirements							
Emission point Ref. & Location	Parameter	Source	Limit (including unit)		Reference Period	Monitoring Frequency	Monitoring Standard or Method
Landfill gas engines A1, A2 and A3 located at grid reference ST 31465 43240 ST 31460 43240 ST 31455			Commissioning Date				In accordance with that described in the Environment Agency's Technical Guidance Note (Monitoring) M2 "Monitoring of stack emissions to air". Version 8.1 Issued Dec 2011
			Before 31 st Dec 2005	After 31 st Dec 2005			
			Oxides of Nitrogen	Gas utilisation			

Table S3.2 Point source emissions to air – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (including unit)		Reference Period	Monitoring Frequency	Monitoring Standard or Method
43240	Carbon monoxide	plant	1500 mg/m ³	1400 mg/m ³			
	Total volatile organic compounds		1750 mg/m ³	1000 mg/m ³			
Landfill gas flare A4 located at grid reference ST 31460 43245 ^{Note 1}			Commissioning date				
			Before 31 st Dec 2003	After 31 st Dec 2003			
	Oxides of Nitrogen	Landfill Gas Flare	150 mg/m ³	150 mg/m ³	Hourly mean	Annually	
	Carbon monoxide		100 mg/m ³	50 mg/m ³			
Total volatile organic compounds	10 mg/m ³		10 mg/m ³				
A5 & A6 CHP Gas engines to the AD facility located at NGR 331368, 143363 & 331377, 143363.			Commissioning date				
			Before 31 st Dec 2005	After 31 st Dec 2005			
	Oxides of Nitrogen	CHP utilisation compound	650 mg/m ³	500 mg/m ³	Hourly mean	Annually	
Carbon monoxide	1500 mg/m ³		1400 mg/m ³				

Table S3.2 Point source emissions to air – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (including unit)		Reference Period	Monitoring Frequency	Monitoring Standard or Method
	Total volatile organic compounds		1750 mg/m ³	1000 mg/m ³			
A7 - flare located in proposed AD Plant & Gas Plant as shown on drawing WAL061/2 dated Oct 2012. ^{Note 1}			Commissioning date				
			Before 31 st Dec 2003	After 31 st Dec 2003			
	Oxides of Nitrogen	CHP Gas Flare	150 mg/m ³	150 mg/m ³	Hourly mean	Annually	
	Carbon monoxide		100 mg/m ³	50 mg/m ³			
Total volatile organic compounds	10 mg/m ³		10 mg/m ³				
A8 Standby Dual Fuel Boiler ^{Note1}	Oxides of Nitrogen	Standby Boiler	No limit		Hourly Mean	Annually	
	Carbon Monoxide						
	Total Volatile Organic Compounds						
A9 Pressure relief valve as shown on drawing reference WALAD07	None set	Digester tank	None set		None	None	No permanent means of access as specified in condition 3.3.4 is required.

Table S3.2 Point source emissions to air – emission limits and monitoring requirements						
Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
A10 Pressure relief valve as shown on drawing reference WALAD07	None set	Gas holder tank	None set	None	None	No permanent means of access as specified in condition 3.3.4 is required.
A11 Pressure relief valve as shown on drawing reference WALAD07	None set	Buffer tank	None set	None	None	No permanent means of access as specified in condition 3.3.4 is required.
A12 As shown on drawing reference WALAD07	None set	Odour control unit	None set	None	None	No permanent means of access as specified in condition 3.3.4 is required.
A13 As shown on drawing reference WALAD07	None set	Odour control unit	None set	None	None	No permanent means of access as specified in condition 3.3.4 is required.
<p>Note 1: Annual monitoring is only required when flares/boiler operate in excess of 10% of the time, taken on an annual assessment period.</p> <p>This is an indicative performance limit. An alternative minimum temperature may be acceptable providing the operator can demonstrate that the other emission limit values are met at this lower temperature in accordance with Environment Agency Guidance on Landfill Gas Flaring 2002.</p>						

Table S3.3 Point source emissions to water (other than sewer) – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
WPDIs prior to S1 pipe discharge into River Huntspill downstream of sluice gate at grid reference ST 29240 45710	Volume of discharge	Treated leachate from the landfill leachate treatment works, groundwater from beneath site engineering and treated effluent from the anaerobic digester facility	800 m ³ /d	Spot sample	Daily	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02)
	Maximum rate of discharge		30 l/s	Instantaneous	Daily	
	Discharge period		4 hours before and 4 hours after high tide		Daily	
	Oil and grease		No visible film		Monthly	
	pH		6-9	Spot Sample	Monthly	
	Suspended Solids		120 mg/l			
	BOD		120 mg/l			
	Ammoniacal Nitrogen		50 mg/l			
	Arsenic		0.108 mg/l			
	Cadmium		0.1 mg/l			
	Chromium		0.2 mg/l			
	Copper		0.26 mg/l			
	Lead		2.1 mg/l			
	Mercury		0.003 mg/l			
	Nickel		5.5 mg/l			

Table S3.3 Point source emissions to water (other than sewer) – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
	Zinc		2.8 mg/l			
	COD, Phosphate, Nitrate, Fluoride, Iron, Mecoprop, Toluene, Xylene		No limit set			
WP004SW (Formerly S2)	Oil/Grease	Site drainage from the surface water management system in the area of the offices	No visible film	Instantaneous	Daily	
WP017SW	Oil/Grease	Site drainage from the surface water management system for old site	No visible film	Instantaneous	Daily	
WP SW Dis 1 (formerly S3) Black Ditch at Grid ref NGR ST31020 44095 sampled at head wall to Black Ditch	Oil/Grease	Surface water from Pond 1	No visible film	Instantaneous	Daily	

Table S3.3 Point source emissions to water (other than sewer) – emission limits and monitoring requirements						
Emission point Ref. & Location	Parameter	Source	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
WP SW Dis 2 (Formerly S5) Black Ditch at Grid ref NGR ST3155 4375 sampled at discharge from lagoon	Oil/Grease	Surface water from Pond 2	No visible film	Instantaneous	Daily	
WP SW Dis1 and WP SW Dis 2	Combined maximum discharge rate	Surface water from Ponds 1 and 2	235 l/s	Instantaneous	Daily	
WP SW Dis 3	Oil/Grease	Site Drainage from Wood waste area	No visible film	Instantaneous	Daily	

Table S3.4 Trigger levels for emissions into groundwater and monitoring requirements					
Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
WPGWDis, WP028WM ¹ , WP036WM ¹ , WP044WM ¹ , WP089WM ¹	Ammoniacal nitrogen	120 mg/l ²	Spot sample	Quarterly	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02)
	Nickel	0.04 mg/l ²			
	Arsenic	67.2 µg/l ²			
	Toluene	10 µg/l ²			
	Mecoprop	20 µg/l ²			
WP001WM ¹ ,	Ammoniacal	70 mg/l ²	Spot sample	Quarterly	Unless otherwise agreed in

WP009WM ¹ , WP015WM ¹ , WP022WM ¹ , WP039WM ¹ , WP045WM ¹ , WP051WM ¹	nitrogen			writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02)
	Nickel	0.04 mg/l ²		
	Arsenic	²		
	Toluene	²		
	Mecoprop	20 µg/l ²		

¹ WPGWDis is the downgradient location for the site whilst the underdrainage system is actively pumped. These locations are only considered to be down gradient once pumping has ceased.

² Limits are interim and are to be agreed in accordance with the requirements of table S1.3, reference IC6.

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (incl. units)	Monitoring frequency	Monitoring standard or method
WP001WM, WP002WM, WP004WM, WP005WM, WP006WM, WP007WM, WP008WM, WP009WM, WP012WM, WP014WM, WP015WM, WP016WM, WP028WM, WP029WM, WP030WM, WP036WM, WP037WM, WP038WM, WP039WM, WP040WM, WP045WM, WP046WM, WP047WM, WP048WM, WP049WM, WP050WM, WP051WM, WP053WM, WP054WM, WP065WM, WP066WM, WP067WM, WP068WM, WP069WM, WP070WM, WP071WM, WP072WM, WP073WM, WP074WM, WP077WM, WP078WM, WP080WM, WP087GM ¹ WP088GM ¹	Methane	1.0 %v/v	Monthly	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on the management of landfill gas' (LFTGN03)
WP052WM		2.4%v/v		
WP079WM		2.6%v/v		
WP060WM		3.5%v/v		
WP063WM		7.7%v/v		
WP003WM, WP019WM, WP044WM, WP057WM, WP058WM, WP059WM, WP061WM, WP062WM, WP064WM, WP075WM, WP076WM ²		No Limit		

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (incl. units)	Monitoring frequency	Monitoring standard or method
WP001WM, WP002WM, WP003WM, WP004WM, WP005WM, WP006WM, WP007WM, WP008WM, WP009WM, WP012WM, WP014WM, WP015WM, WP016WM, WP019WM, WP028WM, WP029WM, WP030WM, WP036WM, WP037WM, WP038WM, WP039WM, WP040WM, WP044WM, WP045WM, WP046WM, WP047WM, WP048WM, WP049WM, WP050WM, WP051WM, WP052WM, WP053WM, WP054WM, WP057WM, WP058WM, WP059WM, WP060WM, WP061WM, WP062WM, WP063WM, WP064WM, WP065WM, WP066WM, WP067WM, WP068WM, WP069WM, WP070WM, WP071WM, WP072WM, WP073WM, WP074WM, WP075WM, WP076WM, WP077WM, WP078WM, WP079WM, WP087GM ¹ WP088GM ¹	Carbon Dioxide Oxygen Atmospheric Pressure Differential Pressure	No Limit	Monthly	

Note 1 – new locations compliance levels shall be proposed once at least 12 months of data has been collected.

Note 2 – Action and compliance levels to be updated at least 3 months prior to the opening of each cell.

Table S3.6 Landfill gas from capped surfaces – monitoring requirements

Monitoring point Ref. /description	Parameter	Monitoring frequency	Other specifications	Monitoring Standard or method
Permanently capped zone	Average methane flux and total methane emission	Annually*	Where the average zone emission rate of 0.001 mg/m ² /second is exceeded appropriate measures must be taken to reduce the rate.	As per LFTGN 07 or as otherwise agreed in writing by the Agency.
Temporarily capped zone	Average methane flux and total methane emission	Annually*	Where the average zone emission rate of 0.1 mg/m ² /second is exceeded appropriate measures must be taken to reduce the rate.	As per LFTGN 07 or as otherwise agreed in writing by the Agency.

Footnote * If a cap has previously been shown compliant and there have been no significant physical changes in the gas management during the year, a detailed walkover survey can be used to demonstrate that the surface emissions are under control. If this survey shows no change in the pattern of methane emission, it may be used as the annual survey and the values for average methane flux and total methane emissions measured in the previous year may be reported. A quantitative survey is not necessary. If the zone remains stable, the results of a detailed walkover survey will be acceptable for the annual report for a period of four years before a further quantitative survey is required.

Table S3.7 Landfill gas – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Gas collection system at well control valve or manifolds on gas system	Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Relative Pressure or suction	Monthly	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on the management of landfill gas' (LFTGN03)	Where the Oxygen level exceeds 5% or where the addition of the Carbon Dioxide and Methane percentages is less than 80%, an assessment of air ingress into the system shall be undertaken Where the concentration of carbon monoxide exceeds 100 ppm then further investigation shall be undertaken.

Table S3.7 Landfill gas – other monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Input to LFG Utilisation Compound	Trace gas analysis in accordance with LFTGN04.	Annually	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on the management of landfill gas' (LFTGN03)	The concentration of trace gas components shall be assessed against the assumptions made in the Landfill gas risk assessment and dispersion modelling.
Input to LFG Utilisation Compound	Methane Carbon Dioxide Oxygen Gas flow rate	Weekly	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on the management of landfill gas' (LFTGN03)	Where the Oxygen level exceeds 5% or where the addition of the Carbon Dioxide and Methane percentages is less than 80%, an assessment of air ingress into the system shall be undertaken.

Table S3.8 Leachate– other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method
<p>Original Site: WPMH1, WPMH2, WPMH3, WPMH4, WPMH5, WPMH6, WPMH7, WPMH8</p> <p>Northern Extension: WPMH11, WPMH12, WPMH13, WPMH14, WPMH15, WPMH16, WPMH17, WPMH18, WPMH19, WPMH20, WPMH21, WPMH22, WPMH23</p>	Monitoring Point Base	Annually	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water', (LFTGN02)
<p>Original Site: WPMH1, WPMH2, WPMH3, WPMH4, WPMH5</p> <p>Northern Extension: WPMH11, WPMH12, WPMH13, WPMH16, WPMH19, WPMH22, WPMH23</p>	EC, chloride, pH, Ammoniacal Nitrogen, Total Alkalinity, Magnesium, Potassium, Total Sulphates, Calcium, Sodium, BOD, COD, TOC, TON, Manganese, Iron, Chromium, Copper, Lead, Zinc, Nickel, Mecoprop, Xylene, Mercury, Toluene, Arsenic	Quarterly	
	Hazardous Substances Suite	<p>Every 4 years – Original site</p> <p>Every 2 years – Northern Extension</p>	

Table S3.8 Leachate– other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method
<p>Treated Leachate Discharge: WPWW1 and WPWW2 in the leachate treatment works NGR ST 3151 4331</p> <p>Treated AD Leachate Discharge: WP AD Dis</p>	<p>Oil and grease, pH, Suspended Solids, BOD, COD, Ammoniacal Nitrogen, Phosphate, Nitrate, Arsenic, Cadmium, Chromium, Copper, Fluoride, Iron, Lead, Zinc, Mecoprop, Mercury, Nickel, Toluene, Xylene.</p>	<p>Monthly</p>	

Table S3.9 Surface water – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Reference Period	Monitoring Frequency	Monitoring standard or method
<p>Surface Waters: WP Black Ditch West, WP Black Ditch Mid, WP Black Ditch East, WP014SW, WP018SW, WP020SW, WP022SW, WP045SW, WP046SW, WP047SW</p>	<p>Electrical Conductivity, Chloride, Ammoniacal Nitrogen, pH</p>	<p>Spot Sample</p>	<p>Monthly</p>	<p>Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02)</p>

Table S3.10 Groundwater – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method
<p>Alluvium: WP001WM, WP006WM, WP009WM, WP015WM, WP021WM, WP022WM, WP023WM, WP029WM, WP030WM, WP037WM, WP038WM, WP039WM, WP040WM, WP045WM, WP047WM, WP048WM, WP050WM, WP051WM, WP053WM, WP054WM</p> <p>Blue Lias: WP005WM, WP028WM, WP036WM, WP044WM, WP089WM, WP090WM, WP091WM</p>	Water Level	Quarterly	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02)
	Monitoring point base	Annually	
<p>Alluvium: WP001WM, WP009WM, WP015WM, WP022WM, WP039WM, WP045WM, WP051WM</p> <p>Blue Lias: WP005WM, WP028WM, WP036WM, WP044WM, WP089WM, WP090WM, WP091WM, WPGWDis</p>	Ammoniacal Nitrogen, Electrical Conductivity, Chloride, pH, Total Alkalinity, Magnesium, Potassium, Total Sulphates, Calcium, Sodium, Nitrates, Nitrites, Phosphates, TON, Manganese, Iron, Chromium, Copper, lead, Zinc, Nickel, Arsenic, Toluene, Mecoprop	Quarterly	
	Targeted Hazardous Substance Suite	Annually – WPGWDis ^{Note 1} Every 2 years - all points	
<p>Note 1: Point of groundwater discharge while groundwater pumping system is in operation. Down gradient wells/points when pumping is ceased are considered to be: Alluvium: WP022WM, WP039WM, WP045WM, WP051WM. Lias: WP028WM, WP036WM, WP044WM,</p>			

Table S3.11 Particulate matter in ambient air - limits and monitoring requirements

Monitoring Point Ref. /Description	Parameter	Limit (Including Unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
WP001ASBEM (upwind)	Asbestos Fibres	None	Continuous for 4 hours	Quarterly	In accordance with Agency Guidance 'M17 – Monitoring of Particulate Matter in ambient air around waste facilities', or any subsequent guidance.
WP002ASBEM, WP003ASBEM and WP004ASBEM (downwind)		0.01 fibres/ml above background concentration at the site			

Table S3.12 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Biogas from digesting tank(s); Biogas storage tank(s)	Flow	Continuous	In accordance with EU Weights and Measures Regulations	None
Biogas from digesting tank(s); Biogas storage tank(s); waste reception building	Methane Hydrogen sulphide	Continuous	None	Gas monitors calibrated every 6 months to manufacturer's requirements
Biogas from digesting tank(s); Biogas storage tank(s); waste reception building and external storage areas	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary

Schedule 4 - Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Frequency	Period begins
Leachate levels As required by condition 3.3.1	Monitoring points specified in Table S3.1	Every 3 months	From permit issue
Emissions to air Parameters as required by condition 3.3.1	Monitoring points specified in Table S3.2	Every 12 months	From permit issue
Emissions to water Parameters as required by condition 3.3.1	Monitoring points specified in Table S3.3	Every 3 months	From permit issue
Groundwater Parameters as required by condition 3.3.1	Monitoring points specified in Table S3.4	Every 3 Months	From permit issue
Landfill gas surface emissions Parameters as required by condition 3.3.1	Monitoring points specified in Table S3.6	Every 12 months	From permit issue
Landfill gas lateral migration Parameters as required by condition 3.3.1	Monitoring points specified in Table S3.5	Every 3 months	From permit issue
Other Landfill gas monitoring Parameters as required by condition 3.3.1	Monitoring points specified in Table S3.7	Every 3 months Every 12 months for annual parameters	From permit issue
Other leachate monitoring Parameters as required by condition 3.3.1	Monitoring points specified in Table S3.8	Every 3 months Every 12 months for annual parameters Every 2 or 4 years for hazardous substances suite	From permit issue
Other surface water monitoring Parameters as required by condition 3.3.1	Monitoring points specified in Table S3.9	Every 3 months	From permit issue
Other groundwater monitoring Parameters as required by condition 3.3.1	Monitoring points specified in Table S3.10	Every 3 months Every 12 months for annual parameters	From permit issue
Particulate matter Monitoring Parameters as required by condition 3.3.1	Monitoring points specified in Table S3.11	Every 3 months	From permit issue.

Table S4.2: Annual production/treatment

Landfill Leachate: Disposed of off site; Disposed of to any onsite effluent treatment plant; Recirculated into the waste mass.	Cubic metres/year
Surface water and/ or groundwater: Disposed of off site; Disposed of to any onsite effluent treatment plant.	Cubic metres/year
Landfill gas: combustion in flares; combustion in gas engines; Other methods of gas utilisation.	Normalised cubic metres/year
Electricity generated	MWh
Liquid digestate from anaerobic digestion	tonnes
Solid digestate from anaerobic digestion	tonnes

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
CHP gas engine usage (Activity A12)	Annually	hours
CHP engine efficiency (Activity A12)	Annually	%
Auxiliary boiler usage (Activity A12)	Annually	hours
Flare operation (Activity A13)	Annually	hours
Electricity exported	Annually	MWh
Energy used (including for leachate treatment)	Annually	MWh of electricity
Water usage	Annually	tonnes
Total raw material used	Annually	tonnes

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	11/06/14
Air	Form Air 1 or other reporting format to be agreed in writing with the Environment Agency	11/06/14
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	11/06/14
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	11/06/14
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	11/06/14
Particulate matter	Form Particulate 1 or other reporting format to be agreed in writing with the Environment Agency	11/06/14
Waste Return	Waste Return Form RATS2E	-

Table S4.4 Reporting Forms

Media/parameter	Reporting Format	Date of Form
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	-
Other performance indicators	Form Performance 1 or other reporting format to be agreed in writing with the Environment Agency	11/06/14

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	
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
Leachate level limit	5 days

(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.

“*AD*” means anaerobic digestion.

“*anaerobic digestion*” means a process of controlled decomposition of biodegradable materials under managed conditions where free oxygen is absent, at temperatures suitable for naturally occurring mesophilic or thermophilic anaerobe and facultative anaerobe bacteria species, which convert the inputs to a methane-rich biogas and whole digestate.

“*animal waste*” means any waste consisting of animal matter that has not been processed into food for human consumption.

“*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.

“*Cell layout drawing*” means:

- (a) 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.

“*CHP*” means combined heat and power.

“*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.

“D” means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“digestate” means material resulting from an anaerobic digestion process

“disposal” means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the 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 limit..

“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.

“hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions.

“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.

“*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.

“*MCERTS*” means the Environment Agency’s Monitoring Certification Scheme.

“*Medicinal product*” means any medicine licensed by the Medicines and Healthcare products Regulatory Agency (MHRA) of 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.

“*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.

“*quarter*” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“*R*” means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“*recovery*” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“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.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

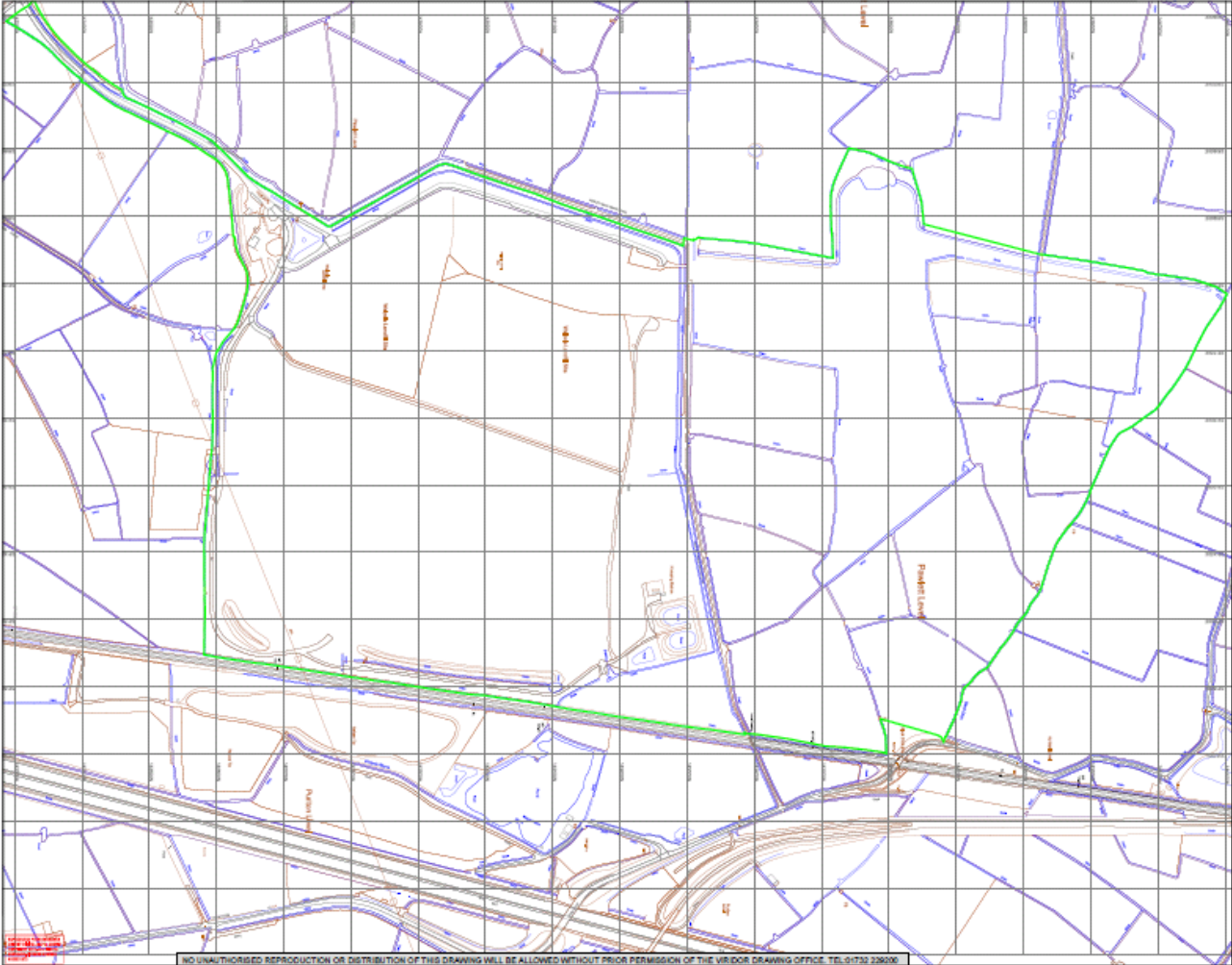
“Waste Framework Directive” or *“WFD”* means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

“year” means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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.

Schedule 7 - Site plan



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End of permit