

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

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Biffa Waste Services Limited

Poplars Landfill Site and Anaerobic Digestion Facility Lichfield Road Cannock Staffordshire WS11 8NQ

Variation application number

EPR/BW0584IL/V010

Permit number

EPR/BW0584IL

Poplars Landfill Site and Anaerobic Digestion Facility Permit number EPR/BW0584IL

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made.

Following a review of the site's hydrogeological risk assessment (HRA) Table S3.1 has been updated to reflect the agreed leachate heads. We have also updated the standard monitoring tables for monitoring groundwater (S3.8) and leachate (S3.10). These tables are in line with our most recent template.

In addition to the above changes, the permit has also been amended to reflect the completion of a number of improvement conditions. Since the permit was last varied the Operator has made submissions in response to the following improvement conditions: IC3a, IC5, IC7, IC9, IC10, IC11 and IC12. These have previously been reviewed and approved by the Environment Agency and the permit has now been updated to incorporate the changes. Table S1.3 has also been updated to reflect the current status of the improvement conditions.

- IC3a: The carbon dioxide limits for external gas monitoring boreholes have been removed from Table S3.5 of the permit. They have been replaced with action levels in line with the Industry Code of Practice (ICoP). Also methane limits have been amended/removed for selected external gas monitoring boreholes.
- IC5: The monitoring requirements in Table S3.6 have been updated to reflect the information submitted by the Operator in response to IC5.
- IC9: The permitted waste types and quantities in Table S2.4 have been updated to reflect the approved restoration plan. The restoration plan has also been incorporated into the permit as an operating technique (Table S1.2).
- IC11: Tables S1.5 and S2.3 have been updated to reflect permitted annual tonnages in line with the
 approved proposals for the acceptance of offsite leachate for treatment at the site's leachate
 treatment plant.
- IC12: The site plan in Schedule 7 of the permit has been updated. The updated plan includes the private piped connection for leachate between the site boundary and the private sewer.

The plan in Schedule 7 of the permit showing the layout of the AD plant has also been updated. The new plan reflects the current layout of the AD plant, following the installation of a further tank and associated macerator and pump.

The site post code has also been updated (new postcode is WS11 8NQ). This change is noted within this variation as a change of fact only.

As part of this variation we have also added an improvement condition (IC13). We have included IC13 to ensure that the Operator submits a leachate action plan for review. The action plan must include a proposed timetable, including interim targets, for bringing the site into compliance with the permitted leachate levels.

The schedules specify the changes made to the permit.

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

Status log of the permit				
Description	Date	Comments		
Application EPR/BW0584IL/A001	Received 21/11/2003			
Permit determined EPR/BW0584IL	16/04/2009	Issued to Biffa Waste Services Limited		
Variation application EPR/BW0584IL/V002	Received 07/09/2009	Duly made 18/10/2009		
Variation EPR/BW0584IL/V002 determined	17/05/2010	Permit varied to incorporate AD Facility into Permit		
Agency variation determined EPR/BW0584IL/V004	30/12/2013	Agency variation to implement the changes introduced by IED for the landfill facility.		
Application EPR/BW0584IL/V005 (variation)	Duly made 25/02/2014	Application to vary the permit to include an additional 0.5MWe SI gas engine and to reposition gas flare and odour control equipment on the AD facility.		
Variation determined EPR/BW0584IL (EAWML 401084)	12/03/2014	Varied permit issued.		
Application EPR/BW0584IL/V006 (variation and consolidation)	Duly made 29/09/2014	Application to vary and consolidate the permit and implement the changes introduced by IED for the AD facility.		
Variation determined EPR/BW0584IL	10/02/2016	Varied and consolidated permit issued.		
(PAS Billing ref: KP3436WC)				
Environment Agency Landfill Sector Review	11/07/2016	Varied and consolidated permit issued in modern condition format.		
Permit reviewed				
Variation determined EPR/BW0584IL/V007				
Permit EPR/BW0584IL (PAS Billing Ref: FP3133DP)				
Application EPR/BW0584IL/V008 (variation)	Duly made 19/07/2016	Application to vary the permit to include the addition of EWC waste code 19 13 02 to Table S2.1.		
Variation determined EPR/BW0584IL/V008	20/09/2016	Varied permit issued.		
(PAS Billing Ref: HP3434DH)				
Application Variation EPR/BW0584IL/V009	Duly made 02/11/2016	Application to vary the permit to include the addition of EWC waste code 16 10 02 to Table S2.3.		
Variation determined EPR/BW0584IL/V009 (PAS Billing Ref: GP3337DZ)	04/01/2017	Varied permit issued.		
Application EPR/BW0584IL/V010 (variation and consolidation)	Duly made 28/06/2017	Application to vary the permit following a review of the site's hydrogeological risk assessment (HRA), including an increase to the permitted leachate heads. The permit has also been amended to reflect the completion of Improvement Conditions IC3a,IC5, IC7, IC9, IC10, IC11and IC12.		

Status log of the permit			
Description	Date	Comments	
Application EPR/BW0584IL/V010 Response to Schedule 5 notice dated 20/03/18	Received 03/07/2018	Response to Schedule 5 notice dated 20/03/18, including: Leachate Management Plan (dated June 2018), and Hydrogeological Risk Assessment – Increased Leachate Compliance Levels Report: BF4922/HRA (v1.1), Dated June 2018	
Application EPR/BW0584IL/V010 Additional information received	Received 22/10/2018	Stability Risk Assessment Review for Leachate Level Permit Variation Poplars Landfill Site: BF4928/01, Rev 2, dated October 2018	
Variation determined EPR/BW0584IL/V010 (PAS Billing Ref: RP3931YY)	19/12/2018	Varied permit issued.	

Other Part A installation permits relating to this installation			
Operator Permit number Date of issue			
Infinis (Re-Gen) Limited (Poplars Landfill Gas Utilisation Plant)	EPR/UP3730LU	30/06/2006	
Biffa Waste Services Limited	EPR/BP3436VS	02/10/2014	

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/BW0584IL

Issued to

Biffa Waste Services Limited ("the operator")

whose registered office is

Coronation Road Cressex High Wycombe Buckinghamshire HP12 3TZ

company registration number 00946107

to operate a regulated facility at

Poplars Landfill Site and Anaerobic Digestion Facility Lichfield Road Cannock Staffordshire WS11 8NQ

to the extent set out in the schedules.

The notice shall take effect from 19/12/2018

Name	Date
M Bischer	19/12/2018

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

Schedule 2 - consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BW0584IL

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BW0584IL/V010 authorising,

Biffa Waste Services Limited ("the operator"),

whose registered office is

Coronation Road Cressex High Wycombe Buckinghamshire HP12 3TZ

company registration number 00946107

to operate an installation at

Poplars Landfill Site and Anaerobic Digestion Facility Lichfield Road Cannock Staffordshire WS11 8NQ

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

Name	Date
M Bischer	19/12/2018

Authorised on behalf of the Environment Agency

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 16/04/09 as varied by a Deed of Variation dated 02/10/14 shall be maintained by the operator throughout the subsistence of this permit and the operator shall produce evidence of such provision whenever required by the Environment Agency.
- 1.2.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:
 - (a) the costs of setting up and operating the landfill;
 - (b) the costs of the financial provision required by condition 1.2.1; and
 - (c) the estimated costs for the closure and aftercare of the landfill.

1.3 Energy efficiency

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

1.4 Multiple operator installations

1.4.1 Where the operator notifies the Environment Agency under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator(s) of the installation of the same information.

1.5 Efficient use of raw materials

- 1.5.1 The operator shall:
 - (a) take appropriate measures to ensure that raw materials and water are used efficiently in the
 - (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.

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

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

2 Operations

2.1 Permitted activities

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

2.2 The site

- 2.2.1 For the following activities referenced in schedule 1, table S1.1 (AR1 and AR2), the activities shall not extend beyond the site, being the land shown edged in red on the landfill site plan at schedule 7 to this permit of the installation covered by this permit and that of the other operator of the installation.
- 2.2.2 For the following activities referenced in schedule 1, table S1.1 (AR3), the activities shall not extend beyond the site, being the land shown edged in red on the Anaerobic Digestion Plant site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 For the following activities referenced in schedule 1, table S1.1 (AR3), any raw materials or fuels listed in schedule 2 table S2.5 shall conform to the specifications set out in that table.
- 2.3.4 For the following activities referenced in schedule 1, table S1.1 (AR3), 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.
- 2.3.5 For the following activities referenced in schedule 1, table S1.1 (AR3), the operator shall ensure that where waste produced by the Anaerobic Digestion facility 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 Pre-operational conditions

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

2.6 Landfill Engineering

- 2.6.1 No construction of any new cell of the landfill shall commence until the operator has submitted construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.6.2 Where the operator proposes to construct any new cell other than the first cell, but proposes no change from the design of the most recently approved cell which could have any impact on the performance of any element of the design, no construction of the new cell shall commence until the operator has submitted a cell layout drawing and the Environment Agency has confirmed that it is satisfied with the cell layout drawing.
- 2.6.3 The construction of a new cell shall take place only in accordance with the approved construction proposals unless:
 - (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Environment Agency.
- 2.6.4 No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and the Environment Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.6.5 No construction of landfill infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.6.6 The construction of the landfill infrastructure shall take place only in accordance with the approved construction proposals unless:
 - (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Environment Agency.

- 2.6.7 The operator shall submit a CQA Validation Report within four weeks of the completion of the construction of the relevant landfill infrastructure, or other time period agreed in writing with the Environment Agency.
- 2.6.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.6.5 and 2.6.6 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.
- 2.6.9 For the purposes of conditions 2.6.1, 2.6.2, 2.6.4 and 2.6.5, the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:
 - (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.
- 2.6.10 Where the Environment Agency has required further information under condition 2.6.9(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:
 - (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.

2.7 Waste acceptance

- 2.7.1 For the following activities referenced in schedule 1, table S1.1 (AR1) Wastes shall only be accepted for disposal if:
 - (a) they are listed in schedule 2, table S2.1 and
 - (b) they are non- hazardous waste and
 - (c) they are not whole used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm), and
 - (d) they are not shredded used tyres, and
 - (e) they are not liquid waste (including waste waters but excluding sludge and excluding liquid waste accepted at a permitted leachate treatment activity), and
 - (f) they are not chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown, and
 - (g) all the relevant waste acceptance procedures have been completed, and
 - (h) they fulfil the relevant waste acceptance criteria, and
 - (i) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
 - (j) they are wastes which have been treated, except for: inert wastes for which treatment is not technically feasible; or it is waste other than inert waste and treatment would not reduce its quantity or the hazards which it poses to human health or the environment, or liquid waste accepted for treatment at a permitted leachate treatment activity, and
 - (k) they are wastes with a code beginning with 07 05 and 16 03, they shall exclude waste medicinal products and pharmaceutically active waste materials arising from their manufacture.
- 2.7.2 For the following activities referenced in schedule 1, table S1.1 (AR2) waste shall only be accepted for treatment if:
 - (a) it is of a type and quantity listed in schedule 2, tables S2.3; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.

- 2.7.3 For the following activities referenced in schedule 1, table S1.1 (AR3), waste shall only be accepted at the Anaerobic Digestion facility if:
 - (a) it is of a type and quantity listed in schedule 2 table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.7.4 Wastes shall only be accepted for restoration where:
 - (a) they are listed in schedule 2, table S2.4 and
 - (b) they are accepted in accordance with a restoration plan approved in writing by the Environment Agency.
- 2.7.5 For the following activities referenced in schedule 1, table S1.1 (AR1), the operator shall:
 - (a) visually inspect without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill and waste at the point of deposit; and
 - (b) be satisfied that the waste conforms to the requirements of condition 2.7.1.
- 2.7.6 Where the operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.
- 2.7.7 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.7.8 For the following activities referenced in schedule 1, table S1.1 (AR1) the total quantity of waste that shall be deposited or recovered in the landfill shall be limited by the pre-settlement levels shown on the drawing ESID8 Landfill Gas Management and Pre-Settlement Contours revision 1 dated 18.01.07 Changes to Monitoring Locations and Gas Infrastructure.
- 2.7.9 For the following activities referenced in schedule 1, table S1.1 (AR1) the quantity of waste that is deposited or recovered in the landfill in any year shall not exceed the limits in schedule 1 table S1.5.
- 2.7.10 The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or recovery and of the identity of the producer, or in the case of municipal waste and multiple collection vehicles, of the collector of such waste. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

2.8 Leachate levels

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

2.9 Closure and aftercare

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

2.10 Landfill gas management

- 2.10.1 The operator shall take appropriate measures, including, but not limited to, those specified in any approved landfill gas management plan, to:
 - (a) collect landfill gas; and
 - (b) control the migration of landfill gas.
- 2.10.2 The operator shall use the collected landfill gas to produce energy. If the collected landfill gas cannot be used to produce energy, the operator shall use appropriate measures to flare or treat the gas in accordance with an approved landfill gas management plan.
- 2.10.3 The operator shall:

- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a revised landfill gas management plan;
- (b) implement the revised landfill gas management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 The limits in Schedule 3 shall not be exceeded.
- 3.1.2 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.2, S3.3 and S3.6.
- 3.1.3 The limits given in Table S3.2 shall not be exceeded, save that compliance with an emission limit in that table shall include incorporation of the uncertainty allowance stated in Environment Agency guidance LFTGN 05 and LFTGN 08.
- 3.1.4 The operator shall prevent the input of any hazardous substances from the activities into groundwater.
- 3.1.5 The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:
 - (a) between nine and six months prior to the fourth anniversary of the granting of the permit, and
 - (b) between nine and six months prior to every subsequent six years after the fourth anniversary of the granting of the permit.
- 3.1.6 For the following activities referenced in schedule 1, table S1.1 (AR2 & AR3) periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used

appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.3.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring and any other actions specified in the following tables in schedule 3 to this permit:
 - (a) Leachate specified in tables S3.1 and S3.10;
 - (b) Point source emissions specified in tables S3.2, S3.3 and S3.6;
 - (c) Groundwater specified in tables S3.4 and S3.8;
 - (d) Landfill gas specified in tables S3.5, S3.7, 3.9;
 - (e) Surface water specified in table S3.11;
 - (f) Noise specified in table \$3.12; and
 - (g) Anaerobic Digestion process monitoring specified in table S3.13.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 For the following activities referenced in schedule 1, table S1.1 (AR3), monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 A topographical survey of the site referenced to ordnance datum shall be carried out and shall be used to produce a plan of a scale adequate to show the surveyed features of the site:
 - (a) Annually; and

- (b) prior to the disposal of waste in any new cell or new development area of the landfill; and
- (c) following closure of the landfill or part of the landfill.
- 3.5.5 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, S3.3, S3.4 and S3.6 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

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

3.7 Fire prevention

- 3.7.1 For the following activities referenced in schedule 1, table S1.1 (AR3) the operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.
- 3.7.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;
 - (b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
 - (a) be legible:
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) the results of groundwater monitoring;
 - (ii) sub-surface landfill gas monitoring;
 - (iii) leachate levels, quality and quantities;

- (iv) landfill gas generation and collection;
- (v) waste types and quantities;
- (vi) the specification and as built drawings of the basal, sidewall and capping engineering systems.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year ('the annual report') shall be submitted to the Environment Agency by 31st January each year or such other date as may be agreed in writing by the Agency, with the exception of 4.2.2(c) that must be provided by the end of February each year. The report(s) shall include as a minimum:
 - (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this installation and any agreed amendments thereto. The review will include written descriptions of the improvements made to operational performance during the year, action plans developed and planned improvements for the coming year;
 - (b) the energy consumed at the site, reported in the format set out in schedule 4 table S4.3
 - (c) the annual production/treatment set out in schedule 4, table S4.2;
 - (d) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
 - (e) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;
 - (f) an assessment of the settlement behaviour of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
 - (g) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
 - (h) a plan(s) ('the monitoring and extraction point plan MEPP') showing the locations of existing and any new leachate and landfill gas extraction and monitoring points.
- 4.2.3 For the following activities referenced in schedule 1, table S1.1 (AR3), 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) the annual production/treatment data set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.4 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
 - (a) in respect of the parameters and emission points specified in schedule 4, table S4.1;

- (b) using the forms specified in schedule 4, table S4.4 or other reporting format as agreed in writing with the Environment Agency; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.5 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.
- 4.2.6 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.
- 4.2.7 The operator shall submit to the Environment Agency a bi-annual report of the efficiency of the biofilter in the first year of operations. This shall include but not be limited to, the assessment of the efficiency to reduce odours, the summary of maintenance and any re-commissioning planned or conducted, assessment of back pressure, venting and cracking. Thereafter the operator shall submit the report within one month of the end of each year, unless otherwise agreed in writing by the Environment Agency.

4.3 Notifications

- 4.3.1 In the event:
 - (a) 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) 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) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

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

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

(a) any change in the operator's name or address; and

(b) any steps taken with a view to the dissolution of the operator.

In any other case:

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

4.4 Interpretation

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

Schedule 1 – Operations

Table S1.1 A	Table S1.1 Activities			
Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR1	D5 –Specially engineered landfill; R5 - the recycling or reclamation of inorganic material and R10 – Land treatment resulting in benefit to agriculture or ecology	Section 5.2 Part A(1)(a), The disposal of waste in a landfill.	Landfill for non-hazardous waste and landfill restoration	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.7, as an integral part of landfilling.
AR2	D8 – Biological treatment of waste	Section 5.4, Part A(1)(a)(i), Biological treatment of non- hazardous waste	Treatment of leachate in a facility with a capacity of >50 tonnes/ day	Leachate, process effluent and surface water arising from the site. Landfill leachate and process effluent arising from offsite sources as agreed in writing by the Agency Waste types suitable for acceptance are limited to those specified in Table S2.3.
AR3	R3: Recycling/ reclamation of organic substances which are not used as solvents	Section 5.4 A(1)(b)(i), Recovery or a mix of recovery and disposal of non hazardous waste with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving biological treatment.	Anaerobic digestion of waste and recovery of by-products (digestate).	From receipt of waste through to digestion and recovery of by-products (digestate). Anaerobic digestion of waste in 5 tanks followed by burning of biogas produced from the process. Waste types suitable for acceptance are limited to those specified in Table S2.2. The treatment capacity of any plant shall not exceed 10 tonnes per day of animal waste.

Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
Directly Ass	ociated Activities	1		
AR4	N/A	-	Temporary storage of waste (leachate), recirculation of leachate within the landfill	Leachate arising from the landfill. Recirculation of leachate only in cells that are compliant with leachate head limits in Table S3.1 (Limit from 1 November 2011).
AR5	D6 – release to water body except seas/ oceans	-	Discharges of clean, uncontaminated site drainage from the landfill and anaerobic digestion facility.	From surface water management system to point of entry to controlled waters.
AR6	N/A	-	Storage of fuel for operation of plant and equipment.	Fuel storage tank.
AR7	R1:Use principally as a fuel to generate energy	-	Electrical power supply	From the receipt of biogas produced at the on-site anaerobic digestion process to combustion with the release of combustion gases. Combustion of biogas in 4 spark ignition engines with a maximum aggregate volumetric flow rate of 24,480 Nm³/hr, (Approx. 16MWth, 6.5MWe).
AR8	R13: Storage of waste pending the operations numbered R1 and R3 (excluding temporary storage, pending collection, on the site where it is produced) D15: Storage pending any of the operations number D01 to D14		Storage of waste pending recovery or disposal	From the receipt of waste to despatch for anaerobic digestion or despatch off site for recovery and/or disposal. Storage of waste in an enclosed building, and in a buffer or intermediate storage tank, fitted with appropriate odour abatement on an impermeable surface with sealed drainage. Waste types suitable for acceptance are limited to those specified in Table S2.2.

Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
	(excluding temporary storage pending collection on the site where it is produced).			
AR9	R3: Recycling/reclamatio n of organic substances which are not used as solvents		Physical treatment for the purpose of recycling	From the receipt of waste to despatch for anaerobic digestion or despatch off site for recovery. Pre-treatment of waste in enclosed building and on impermeable surface with sealed drainage system including shredding, sorting, screening, compaction, baling, mixing and maceration. Post-treatment of digestate in an enclosed building and on an impermeable surface with sealed drainage system, including screening to remove contraries, centrifuge or pressing and addition of thickening agents (polymers) or drying. Heat treatment (pasteurisation) of waste in 3 tanks for the purpose of recovery. Gas cleaning by biological or chemical scrubbing. Waste types suitable for acceptance are limited to those specified in Table S2.2.
AR10	D10: Flaring of biogas for disposal in an appliance	-	Emergency flare operation	From the receipt of biogas produced at the on-site anaerobic digestion process to incineration with the release of combustion gases. Use of an auxiliary flare required only during periods or

Table S1.1 A	Table S1.1 Activities				
Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity	
AR11	Storage of raw materials.	-	Raw material storage	From the receipt of raw materials to despatch for use within the facility	
AR12	Storage of biogas produced from onsite anaerobic digestion of permitted waste in a gas holder or roof space of digesters.	-	Gas storage	From the receipt of biogas produced at the on-site anaerobic digestion process to despatch for use within the facility.	
AR13	Storage of solid digestate in an enclosed building.	-	Digestate storage	From the receipt of digestate produced from the on-site anaerobic digestion process to despatch for use off-site.	
AR14	Collection and storage of process water and centrate in a storage tank and intermediate storage tank.	-	Process water collection and storage	From the collection of process water and centrate to reuse within the facility or off-site disposal.	

Table S1.2 Operating techniques			
Description	Parts	Date Received	
Permit application	The response to questions 2.1, 2.2, 2.3, 2.4 and 2.5 of the Application excluding the answers to the following questions; 2.2.2, 2.2.4, 2.2.5 and 2.2.6; 2.3.17, 2.3.20, 2.3.21 and 2.3.22; 2.3.32, 2.3.33	21/11/2003	
Schedule 4 response dated 22 March 2005	All except the answer to questions; 32 and 33.	22/03/2005	
In response to request for information dated 25 July 2005	All	30/08/2005	

Table S1.2 Operating techniques				
Description	Parts	Date Received		
letter dated 30 August 2005 and Landfill Gas Management Plan (August 2005)				
Schedule 4 response dated 24 January 2007	AII	26/01/2007		
In response to request for information dated 11 July 2008 letter dated 22 July 2008 and enclosures	All	28/07/2008		
In response to request for information dated 04 August 2008 e-mail received 08 September 2008 including permeability results and attachments.	All	08/09/2008		
Variation application EPR/BW0584IL/V002	 Part II and Part III, sections C2 to C6 of the application document in response to section 2 - Operating techniques, Part C of the application with the following exclusions: the proposed alternative bund construction, which shall be of reinforced concrete; the proposed sulphur dioxide emission limit value of 350 mg/Nm³ for the biogas engines, which shall be 200 mg/Nm³; the proposed >800°C combustion temperature of the biogas flare, which shall be ≥ 1000°C specification and have a residence time of ≥ 0.3 seconds; and the proposal that the flare should not have any emission limit values imposed insofar as demonstration with emission limit values is only required if the annual use of the flare is greater than 10% of the time 	07/09/2009		
Variation application EPR/BW0584IL/V003	The responses to questions in Part C2 and Part C3 of the application form.	16/09/2010		
Variation application EPR/BW0584IL/V005	Responses to the questions in Section 3, Part C3 of application form and supporting documentation in Section II and III.	11/02/2014		
Restoration Plan	Poplars Landfill Site Restoration Plan, dated September 2016	01/09/2016		

Table S1.2 Operating techniques			
Description	Parts	Date Received	
Variation application EPR/BW0584IL/V010	Part C2 and C3 of the application form and supporting information	Duly made 28/06/2017	
Variation application EPR/BW0584IL/V010 Response to Schedule 5 notice dated 20/03/18	All parts, including: Poplars Landfill Site Leachate Management Plan, Updated June 2018 Hydrogeological Risk Assessment – Increased Leachate Compliance Levels Report: BF4922/HRA (v1.1), Dated June 2018	03/07/2018	
Variation application EPR/BW0584IL/V010	Stability Risk Assessment Review for Leachate Level Permit Variation Poplars Landfill Site: BF4928/01, Rev 2, dated October 2018	22/10/2018	

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC3a [17/05/10]	Landfill gas risk assessment	Complete
	On approval of the perimeter borehole gas report by the Agency, the Landfill Gas Risk Assessment shall be reviewed to take into account the conclusion of the above report.	
	In addition the operator shall undertake a review of the methane and carbon dioxide emission limits in external boreholes to assess:	
	The applicability of the methane and carbon dioxide as suitable species to assess landfill gas migration.	
	The applicability of the emission limits	
	The background concentrations of methane and carbon dioxide in order to set emission limits for methane and carbon dioxide where appropriate with justification	
	The review shall include revisions, where necessary, of the GASSIM model, mitigation risk assessment scenarios such as decreased engine and flare availability and/or effect of introduction of additional flares. The impact of these scenarios on lateral and surface emissions shall be discussed. Permeability of the cap input parameters shall reflect realistic worst case scenarios.	
	The review shall have regard for the Environment Agency's:	
	Guidance on the management of landfill gas	
	Guidance for the monitoring of trace components in landfill gas	

Reference	Requirement	Date
IC5 [15/05/10]	Leachate, contaminated surface water and process effluent	Complete
	The Operator shall undertake an assessment of the impact on the water environment from the disposal of the leachate, contaminated surface water and process effluent discharged from the installation.	
	The Operator shall use the methodology prescribed in the Agency's guidance 'Environmental Assessment and Appraisal of BAT' (Ref. IPPC H1) in making this assessment. The Operator shall identify substances present in the effluent that are considered significant in the context of any disposal point and final discharge and submit proposed emission limit values for those substances.	
	The assessment and proposed limits shall be presented to the Agency in the form of a report. The report shall also include an effluent monitoring plan for key substances identified in the assessment and an action plan to reduce those substances in the effluent or plans for alternate disposal methods to prevent the discharge of those substances to the water environment. The report shall also identify the point of discharge of the effluent and an appropriate sample point.	
	The Operator shall implement any measures as approved in writing by the Agency.	
	The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the report.	
C7 [17/05/10]	Review of further noise mitigation measures	Complete
	If the night time noise rating level, from the commissioning survey undertaken in accordance with table S3.13, be greater than a facade level of 45 dB L _{Aeq 5 mins} at a sensitive receptor, then:	
	A revised noise management plan shall be submitted to the Agency for approval.	
	The revised noise management plan shall include proposals for further noise mitigation measures and / or noise monitoring, together with dates for implementation of individual measures.	
	Once approved in writing by the Environment Agency, the plan shall be implemented in accordance with the timescales specified in the plan.	
	The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan.	

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC 9	The Operator shall submit to the Environment Agency in writing for approval a Restoration Plan for the site which includes waste quantities, a review of waste types and waste acceptance criteria for waste for restoration	Complete
IC 10	The Operator shall submit a drawing showing the pre-settlement levels at the site	Complete
IC 11	The Operator shall submit to the Environment Agency in writing for approval, the quantity and waste acceptance criteria for leachate accepted from offsite	Complete
IC 12	The Operator shall submit a revised site plan which amends the installation boundary to include the private piped connection for leachate between the site boundary and the private sewer	Complete
IC 13	The Operator shall submit a Leachate Action Plan to the Environment Agency for review. The Action Plan shall include, but not be limited to, the following:	20/03/2019
	 A proposed timetable, including interim targets, for bringing the site into compliance with the permitted leachate levels 	
	 Proposals for amendments to existing procedures and/or for the implementation of additional measures to ensure a reduction of leachate levels 	
	A proposed timetable for completion of any changes or works	
	The Operator shall implement any necessary improvements to a timetable agreed in writing with the Environment Agency.	

Table S1.4 Pre-	Table S1.4 Pre-operational measures for future development			
Reference	Operation	Pre-operational Measures		
1	Prior to the development of phases G, J, C2.	Any borehole which lies beneath the footprint of the proposed development shall be decommissioned in accordance with the CQA Plan 'Proposals for the decommissioning and sealing of boreholes within the future development footprint' dated September 2013 Rep ref BF4825/01 Rev 0		
4	Prior to the construction of phases G, J, C2.	The design of the lining and leachate management systems of phases G, J, and C2 submitted under condition 2.6.1 shall be supported by confirmation that the risk		

Reference	Operation	Pre-operational Measures
		assessments supplied in pre operational condition 3 (from EPR/BW0584IL/A001) remain valid or by a detailed revised HRA and SRA.
5	Recirculation of Leachate	Prior to the Operator undertaking measures to re-circulate leachate, a revised leachate management plan shall be submitted to the Agency. The Operator shall provide the Agency within the revised leachate management plan the following details: • The associated impact of leachate abstraction/re-circulation upon landfill gas quality, quantity and rate of production. • Detection, location and monitoring of Oxygen ingress into the contained extraction system via the leachate recirculation system and setting of allied intervention trigger levels. • An assessment of spatial separation distances between each system in order to minimise any 'zone of influence/synergistic effects.'
		The content of this management, monitoring and action plan shall also be based upon the Environment Agency's guidance (or any amendments thereto) published in September 2004 entitled: LFTGN 03 "Guidance on the management of landfill gas.
		Leachate re-circulation shall not be implemented without the prior written approval of the Agency.

Table S1.5 Annual waste input limits		
Category	Limit Tonnes/ Year	
Non-hazardous waste	700,000	
Inert waste	550,000	
Waste for restoration	550,000	
Leachate from offsite accepted at the onsite Leachate Treatment Plant	36,500	

Schedule 2 – List of permitted wastes

Table S2.1 Per	rmitted waste types for disposal at a landfill for non-hazardous waste
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 10
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 10	dusty and powdery wastes other than those mentioned in 01 04 07
01 04 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
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin

Table S2.1 Peri	mitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description	
02 02 01	sludges from washing and cleaning	
02 02 03	materials unsuitable for consumption or processing	
02 02 04	sludges from on-site effluent treatment	
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation	
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation	
02 03 02	wastes from preserving agents	
02 03 03	wastes from solvent extraction	
02 03 04	materials unsuitable for consumption or processing	
02 03 05	sludges from on-site effluent treatment	
02 04	wastes from sugar processing	
02 04 01	soil from cleaning and washing beet	
02 04 02	off-specification calcium carbonate	
02 04 03	sludges from on-site effluent treatment	
02 05	wastes from the dairy products industry	
02 05 01	materials unsuitable for consumption or processing	
02 05 02	sludges from on-site effluent treatment	
02 06	wastes from the baking and confectionery industry	
02 06 01	materials unsuitable for consumption or processing	
02 06 02	wastes from preserving agents	
02 06 03	sludges from on-site effluent treatment	
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)	
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials	
02 07 02	wastes from spirits distillation	
02 07 03	wastes from chemical treatment	
02 07 04	materials unsuitable for consumption or processing	
02 07 05	sludges from on-site effluent treatment	
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard	
03 01	wastes from wood processing and the production of panels and furniture	
03 01 01	waste bark and cork	
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04	
03 03	wastes from pulp, paper and cardboard production and processing	
03 03 01	waste bark and wood	
03 03 02	green liquor sludge (from recovery of cooking liquor)	
03 03 05	de-inking sludges from paper recycling	
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard	

Table S2.1 Perr	mitted waste types for disposal at a landfill for non-hazardous waste
Waste code	Description
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 09	lime mud waste
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
04	Wastes from the leather, fur and textile industries
04 01	wastes from the leather and fur industry
04 01 01	fleshings and lime split wastes
04 01 02	liming waste
04 01 06	sludges, in particular from on-site effluent treatment containing chromium
04 01 07	sludges, in particular from on-site effluent treatment free of chromium
04 01 08	waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
04 01 09	wastes from dressing and finishing
04 02	wastes from the textile industry
04 02 09	wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 10	organic matter from natural products (for example grease, wax)
04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16
04 02 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

Waste code	mitted waste types for disposal at a landfill for non-hazardous waste Description
	•
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 opacificiers
06 11 01	calcium-based reaction wastes from titanium dioxide production
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 03	carbon black
07	Wastes from organic chemical processes
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 13	waste plastic
07 02 15	wastes from additives other than those mentioned in 07 02 14
07 02 17	waste containing silicones other than those mentioned in 07 02 16
07 03	wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 04	wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 05	wastes from the MFSU of pharmaceuticals
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 05 14	solid wastes other than those mentioned in 07 05 13
07 06	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
08	Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks
08 01	wastes from MFSU and removal of paint and varnish
08 01 12	waste paint and varnish other than those mentioned in 08 01 11
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13
08 01 16	aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
08 02	wastes from MFSU of other coatings (including ceramic materials)
08 02 01	waste coating powders

Table S2.1 Per	mitted waste types for disposal at a landfill for non-hazardous waste
Waste code	Description
08 02 02	aqueous sludges containing ceramic materials
08 03	wastes from MFSU of printing inks
08 03 07	aqueous sludges containing ink
08 03 13	waste ink other than those mentioned in 08 03 12
08 03 15	ink sludges other than those mentioned in 08 03 14
08 03 18	waste printing toner other than those mentioned in 08 03 17
08 04	wastes from MFSU of adhesives and sealants (including water proofing products)
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
08 04 12	adhesive and sealant sludges other than those mentioned in 08 04 11
08 04 14	aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
09	Wastes from the photographic industry
09 01	wastes from the photographic industry
09 01 07	photographic film and paper containing silver or silver compounds
09 01 08	photographic film and paper free of silver or silver compounds
09 01 10	single-use cameras without batteries
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 11
10	Wastes from thermal processes
10 01	wastes from power stations and other combustion plants (except 19)
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 02	coal fly ash
10 01 03	fly ash from peat and untreated wood
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 23	aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 01 24	sands from fluidised beds
10 01 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 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13

Table S2.1 Per	mitted waste types for disposal at a landfill for non-hazardous waste
Waste code	Description
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 04	other particulates and dust
10 05 11	dross and skimmings other than those mentioned in 10 05 10
10 06	wastes from copper thermal metallurgy
10 06 01	slags from primary and secondary production
10 06 02	dross and skimmings from primary and secondary production
10 06 04	other particulates and dust
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07	wastes from silver, gold and platinum thermal metallurgy
10 07 01	slags from primary and secondary production
10 07 02	dross and skimmings from primary and secondary production
10 07 03	solid wastes from gas treatment
10 07 04	other particulates and dust
10 07 05	sludges and filter cakes from gas treatment
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08	wastes from other non-ferrous thermal metallurgy
10 08 04	particulates and dust
10 08 09	other slags
10 08 11	dross and skimmings other than those mentioned in 10 08 10
10 08 13	carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste		
Waste code	Description	
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 10	wastes from casting of non-ferrous pieces	
10 10 03	furnace slag	
10 10 06	casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05	
10 10 08	casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07	
10 10 10	flue-gas dust other than those mentioned in 10 10 09	
10 10 12	other particulates other than those mentioned in 10 10 11	
10 10 14	waste binders other than those mentioned in 10 10 13	
10 11	wastes from manufacture of glass and glass products	
10 11 03	waste glass-based fibrous materials	
10 11 05	particulates and dust	
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09	
10 11 12	waste glass other than those mentioned in 10 11 11	
10 11 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	

wastes from glazing other than those mentioned in 10 12 11 10 12 13 sludge from on-site effluent treatment wastes from manufacture of cement, lime and plaster and articles and products made from them 10 13 of wastes from manufacture 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 calcination and hydration of lime 10 13 11 wastes from cement-based composite materials 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 10 13 13 solid wastes from gas treatment other than those mentioned in 10 13 09 10 13 13 wastes from cement-based composite materials other than those mentioned in 10 13 12 10 13 14 waste concrete and concrete sludge 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; non-ferrous hydro-metallurgy 11 01 wastes from shaping, alkaline degreasing, anodising) 11 01 10 sludges and filter cakes 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 bot galvanising processes 11 05 01 hard zinc 21 01 05 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 13 01 03 non-ferrous metal dust and particles 14 01 05 plastics shavings and turnings 15 01 05 plastics shavings and turnings 16 01 05 plastics shavings and turnings 17 01 06 wastes from shaping and physical and mechanical surface treatment of metals and plastics 18 01 05 plastics shavings and turnings 19 01 05 plastics shavings and turnings 10 01 05 plastics shavings and t	Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste		
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welding wastes machining sludges other than those mentioned in 12 01 14 Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified	12 01 04	non-ferrous metal dust and particles	
machining sludges other than those mentioned in 12 01 14 Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified	12 01 05	plastics shavings and turnings	
Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified	12 01 13	welding wastes	
clothing not otherwise specified	12 01 15	machining sludges other than those mentioned in 12 01 14	
packaging (including separately collected municipal packaging waste)	15		
	15 01	packaging (including separately collected municipal packaging waste)	

Table S2.1 Peri	Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste		
Waste code	Description		
15 01 01	paper and cardboard packaging		
15 01 02	plastic packaging		
15 01 03	wooden packaging		
15 01 04	metallic packaging		
15 01 05	composite packaging		
15 01 06	mixed packaging		
15 01 07	glass packaging		
15 01 09	textile packaging		
15 02	absorbents, filter materials, wiping cloths and protective clothing		
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02		
16	Wastes not otherwise specified in the list		
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)		
16 01 12	brake pads other than those mentioned in 16 01 11		
16 01 17	ferrous metal		
16 01 18	non-ferrous metal		
16 01 19	plastic		
16 01 20	glass		
16 02	wastes from electrical and electronic equipment		
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13		
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15		
16 03	off-specification batches and unused products		
16 03 04	inorganic wastes other than those mentioned in 16 03 03		
16 03 06	organic wastes other than those mentioned in 16 03 05		
16 08	spent catalysts		
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)		
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified		
16 11	waste linings and refractories		
16 11 02	carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01		
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03		
16 11 06	linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05		
17	Construction and demolition wastes (including excavated soil from contaminated sites)		
17 01	concrete, bricks, tiles and ceramics		

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
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 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
17 04 11	cables other than those mentioned in 17 04 10
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
17 06	insulation materials and asbestos-containing construction materials
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 09	other construction and demolition wastes
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
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 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

Table S2.1 Per	Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
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 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 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05	
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09	
19 03	stabilised/solidified wastes	
19 03 05	stabilised wastes other than those mentioned in 19 03 04	
19 03 07	solidified wastes other than those mentioned in 19 03 06	
19 04	vitrified waste and wastes from vitrification	
19 04 01	vitrified waste	
19 05	wastes from aerobic treatment of solid wastes	
19 05 01	non-composted fraction of municipal and similar wastes	
19 05 02	non-composted fraction of animal and vegetable waste	
19 05 03	off-specification compost	
19 06	wastes from anaerobic treatment of waste	
19 06 04	digestate from anaerobic treatment of municipal waste	
19 06 06	digestate from anaerobic treatment of animal and vegetable waste	
19 08	wastes from waste water treatment plants not otherwise specified	
19 08 01	screenings	
19 08 02	waste from desanding	
19 08 05	sludges from treatment of urban waste water	
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats	
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11	
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	

Table S2.1 Peri	mitted waste types for disposal at a landfill for non-hazardous waste
Waste code	Description
19 09 03	sludges from decarbonation
19 09 04	spent activated carbon
19 09 05	saturated or spent ion exchange resins
19 09 06	solutions and sludges from regeneration of ion exchangers
19 10	wastes from shredding of metal-containing wastes
19 10 01	iron and steel waste
19 10 02	non-ferrous waste
19 10 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 04	plastic and rubber
19 12 05	glass
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 01	paper and cardboard
20 01 02	glass
20 01 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 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
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 01 99	Other fractions not otherwise specified (comprising only of non-clinical human and animal offensive/hygiene waste (not arising from healthcare and/or related research i.e. not including waste from natal care, diagnosis, treatment or prevention of disease) which is not subject to special requirements in order to prevent infection
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 02 02	soil and stones
20 02 03	other non-biodegradable wastes
20 03	other municipal wastes
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 04	septic tank sludge
20 03 06	waste from sewage cleaning
20 03 07	bulky waste

Table S2.2 P	Table S2.2 Permitted waste types and quantities for treatment by anaerobic digestion	
Maximum quantity	The total quantity of waste accepted shall not exceed 120,000 tonnes per annum The maximum throughput of animal waste shall be <10 tonnes per day	
Waste Code	Description	
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing	
02 01	primary production wastes	
02 01 01	sludges from washing and cleaning - food processing waste, food washing waste	
02 01 02	animal tissue waste – Category 3 animal by-products (ABP) including blood, animal flesh, fish processing waste, fish carcasses, poultry waste – Category 2 ABP – paunch contents	
02 01 03	plant tissue waste - husks, cereal dust, waste animal feeds	
02 01 06	animal faeces, urine, manure including spoiled straw	
02 01 07	wastes from forestry	
02 01 99	residues from commercial mushroom cultivation	
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 - process water, food washing waste	

Table S2.2 Pe	ermitted waste types and quantities for treatment by anaerobic digestion
Maximum quantity	The total quantity of waste accepted shall not exceed 120,000 tonnes per annum The maximum throughput of animal waste shall be <10 tonnes per day
Waste Code	Description
02 02 02	animal tissue waste – Category 3 ABP including blood, animal flesh, fish processing waste, fish carcasses, poultry waste
02 02 03	materials unsuitable for consumption or processing – Coffee, food processing waste, jam, kitchen waste, fruit, vegetable oil, tobacco, tea, vegetable waste – waste fat from processing of meat or fish
02 02 99	sludges from gelatine production – animal gut contents
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 04	materials unsuitable for consumption or processing (other than those containing dangerous substances)
02 03 05	Effluent from the processes referred to in sources of waste
02 03 99	sludge from production of edible fats and oils – seasoning residues, molasses residues, residues from production of potato, corn or rice starch
02 04	wastes from sugar processing
02 04 03	sludges from on-site effluent treatment - biological sludge
02 04 99	other biodegradable waste from sugar processing
02 05	wastes from the dairy products industry
02 05 01	biodegradable materials unsuitable for consumption or processing (other than those containing dangerous substances) – Solid and liquid dairy products, milk, food processing wastes, yoghurt, whey
02 05 02	sludges from on-site effluent treatment
02 06	wastes from the baking and confectionery industry
02 06 01	biodegradable materials unsuitable for consumption or processing (other than those containing dangerous substances) - food condemned, food processing wastes, biscuits, chocolate, yeast, bread, bakery wastes
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 – brewing waste, food processing waste, fermentation waste
02 07 02	wastes from spirits distillation – spent grains, fruit and potato pulp – sludge from distilleries
02 07 04	biodegradable materials unsuitable for consumption or processing (other than those containing dangerous substances) - brewing waste, food processing waste, fermentation waste, beer, alcoholic drinks, fruit juice
02 07 99	spent grains, hops and Whisky filter sheets / cloths

Table S2.2 Pe	rmitted waste types and quantities for treatment by anaerobic digestion
Maximum	The total quantity of waste accepted shall not exceed 120,000 tonnes per annum
quantity	The maximum throughput of animal waste shall be <10 tonnes per day
Waste Code	Description
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and carboard
03 03	wastes from pulp, paper and cardboard production and processing
03 03 02	green liquor sludge – paper sludge, green liquor
03 03 08	wastes from sorting of paper and cardboard destined for recycling – cardboard, newspaper, tissues, paper
03 03 10	fibre rejects and sludges - paper pulp (de-inked only), paper fibre
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 05	tanning liquor free of chromium
04 01 07	sludges not containing chromium
04 02	waste from the textile industry
04 02 10	organic matter from natural products, e.g. grease, wax
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
15	Waste packaging; absorbents, wiping cloths, fliter materials and protective
	clothing not otherwise specified
15 01	clothing not otherwise specified waste packaging, absorbents, filter materials, wiping cloths and protective clothing
15 01 15 01 01	waste packaging, absorbents, filter materials, wiping cloths and protective
	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made
15 01 01	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made substances.
15 01 01 15 01 03	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made substances. wooden packaging
15 01 01 15 01 03 15 01 05	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made substances. wooden packaging composite packaging - must conform to BS EN 13432 Waste from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for
15 01 01 15 01 03 15 01 05 19	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made substances. wooden packaging composite packaging - must conform to BS EN 13432 Waste from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
15 01 01 15 01 03 15 01 05 19	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made substances. wooden packaging composite packaging - must conform to BS EN 13432 Waste from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use wastes from physiochemical treatments of waste
15 01 01 15 01 03 15 01 05 19 19 02 19 02 09	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made substances. wooden packaging composite packaging - must conform to BS EN 13432 Waste from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use wastes from physiochemical treatments of waste glycerol
15 01 01 15 01 03 15 01 05 19 19 02 19 02 09 19 02 10	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made substances. wooden packaging composite packaging - must conform to BS EN 13432 Waste from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use wastes from physiochemical treatments of waste glycerol combustible wastes
15 01 01 15 01 03 15 01 05 19 19 02 19 02 09 19 02 10 19 05	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made substances. wooden packaging composite packaging - must conform to BS EN 13432 Waste from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use wastes from physiochemical treatments of waste glycerol combustible wastes wastes from the aerobic treatment of solid wastes
15 01 01 15 01 03 15 01 05 19 19 02 19 02 09 19 02 10 19 05 19 05 01	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made substances. wooden packaging composite packaging - must conform to BS EN 13432 Waste from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use wastes from physiochemical treatments of waste glycerol combustible wastes wastes from the aerobic treatment of solid wastes non composted fraction of municipal and similar wastes
15 01 01 15 01 03 15 01 05 19 19 02 19 02 09 19 02 10 19 05 01 19 05 02	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made substances. wooden packaging composite packaging - must conform to BS EN 13432 Waste from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use wastes from physiochemical treatments of waste glycerol combustible wastes wastes from the aerobic treatment of solid wastes non composted fraction of municipal and similar wastes non composted fraction of animal and vegetable wastes
15 01 01 15 01 03 15 01 05 19 19 02 19 02 09 19 02 10 19 05 01 19 05 02 19 05 03	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made substances. wooden packaging composite packaging - must conform to BS EN 13432 Waste from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use wastes from physiochemical treatments of waste glycerol combustible wastes wastes from the aerobic treatment of solid wastes non composted fraction of municipal and similar wastes non composted fraction of animal and vegetable wastes off-specification compost from source segregated biodgradable waste
15 01 01 15 01 03 15 01 05 19 19 02 19 02 09 19 02 10 19 05 19 05 01 19 05 02 19 05 03 19 06	waste packaging, absorbents, filter materials, wiping cloths and protective clothing paper and cardboard packaging - must conform to BS EN 13432 - no man made substances. wooden packaging composite packaging - must conform to BS EN 13432 Waste from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use wastes from physiochemical treatments of waste glycerol combustible wastes wastes from the aerobic treatment of solid wastes non composted fraction of municipal and similar wastes non composted fraction of animal and vegetable wastes off-specification compost from source segregated biodgradable waste

Table S2.2 Permitted waste types and quantities for treatment by anaerobic digestion	
Maximum quantity	The total quantity of waste accepted shall not exceed 120,000 tonnes per annum The maximum throughput of animal waste shall be <10 tonnes per day
Waste Code	Description
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 08	wastes from wastewater treatment works
19 08 05	sludges from treatment of urban waste water
19 08 09	grease and oil mixture containing only edible oils and fats
19 08 12	sludge from industrial biological treatment
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	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 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste – animal faeces, manure, garden waste, green waste, horticultural waste, plant tissue, parks and garden waste, hedge and tree trimmings, grass cuttings and leafy materials
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.
The total quar	ntity of waste accepted shall not exceed 120,000 tonnes per annum
The maximum	throughput of animal waste shall be <10 tonnes per day

Table S2.3 Permitted waste types accepted for treatment in leachate treatment plant	
Maximum Quantity	36,500 tonnes per annum
Waste code	Description
16	Wastes not otherwise specified in the list
16 10	aqueous liquid wastes destined for off-site treatment
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01 (including municipal wastes comprising effluent from washing of domestic wheelie bins only)
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

Table S2.3 Pern	Table S2.3 Permitted waste types accepted for treatment in leachate treatment plant	
Maximum Quantity	36,500 tonnes per annum	
Waste code	Description	
19 07 03	landfill leachate other than those mentioned in 19 07 02	

Table S2.4 Permitted waste types for restoration	
Waste code	Description
01	Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals
01 01	wastes from mineral excavation
01 01 01	wastes from mineral metalliferous excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
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 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 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
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 05	wastes from aerobic treatment of solid wastes
19 05 03	off-specification compost
19 08	wastes from waste water treatment plants not otherwise specified
19 08 05	sludges from treatment of urban waste water
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 09	minerals (for example sand, stones)
19 12 12	soil substitutes other than that containing dangerous substances only
19 13	wastes from soil and groundwater remediation

Table S2.4 Permitted waste types for restoration	
Waste code	Description
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones

Table S2.5 Raw materials and fuels	
Raw materials and fuel description	Specification
Fuel oil	Sulphur content not exceeding 0.1% by mass.

Schedule 3 – Emissions and monitoring

Table S3.1 Leachate level limits and mon	Table S3.1 Leachate level limits and monitoring requirements						
Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method				
Phase 1 - LRD01 (88703201)	130.5 mAOD	Monthly	In accordance with Environment Agency document				
Phase 1 - LRD02 (88703202)	131.77 mAOD		LFTGN02 (February 2003) 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water' or				
Phase 2 - LRD03 (88703203)	135.43 mAOD		such other subsequent guidance as may be agreed in				
Phase 2 - LRD04 (88703204)	135.06 mAOD		writing with the Environment Agency.				
Phase 3A - LRD05 (88703205)	138.46 mAOD						
Phase 3A - LRD06 (88703206)	140.71 mAOD						
Phase 3B - LW08 (88703108)	141.5 mAOD						
Phase 3B - LW43 (88703143)	141.6 mAOD						
Phase 4 - LRD07 (88703207)	139.27 mAOD						
Phase 4 - LRD08 (88703208)	137.95 mAOD						
Phase 4 - LRD09 (88703209)	139.05 mAOD						
Phase 5 - LRD10 (88703210)	142.14 mAOD						
Phase 5 - LRD11 (88703211)	141.99 mAOD						
Phase 6 - LRD12 (88703212)	135.77 mAOD						
Phase 6 - LRD13 (88703213)	138.09 mAOD						
Phase 9A - Redrill LRD20 (88703220)	138.24 mAOD						
Phase 9A - LRD21 (88703221)	138.4 mAOD						
Phase 9B - LW50 (88703050)	136.18 mAOD						
Phase 9B - LW51 (88703051)	136.18 mAOD						
Phase 9B - LRD22 (88703222)	138.04 mAOD						
Phase 9C1 - Redrill LRD18 (88703218)	137.64 mAOD						

Table S3.1 Leachate level limits and mor	itoring requirements		
Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
Phase 9C1 - LRD23 (88703223)	137.59 mAOD		
Phase 9C1 - LRD24 (88703224)	136.27 mAOD		
Phase 9C2 - LW56 (88703056)	139.4 mAOD		
Phase 9C2 - LW57 (88703057)	139.4 mAOD		
Phase 10A - LRD17 (88703217)	136.81 mAOD		
Phase 10A - LRD25 (88703225)	135.38 mAOD		
Phase 10B - LRD19 (88703219)	135.19 mAOD		
Phase 10B - LRD26 (88703226)	134.16 mAOD		
Phase 11 - LRD14 (88703214)	139.96 mAOD	_	
Phase 11 - LRD15 (88703215)	143.65 mAOD		
Phase 11 - LRD16 (88703216)	145.69 mAOD		
Phase I1 - LW58 (88703058)	141.5 mAOD		
Phase I1 - LW59 (88703059)	141.12 mAOD		
Phase I1 - LW60 (88703060)	141.12 mAOD		
Phase H1 - LW61 (88703061)	142.18 mAOD		
Phase H1 - LW62 (88703062)	142.18 mAOD		
Phase H2 - LW63 (88703063)	140.01 mAOD		
Phase H2 - LW64 (88703064)	140.01 mAOD		
Phase G1 – LW65 (88703065)	139.55 mAOD		
Phase G1 – LW66 (88703066)	139.55 mAOD		
Future Cells/Phases	For Future Cells/Phases the leachate compliance levels will be 2m above the lowest point of the cell, unless otherwise agreed in writing by the Environment Agency		

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method	
A1- CHP Shared multi -	Nitrogen Oxides (NOx expressed as NO ₂)	Exhausts of 4 CHP biogas gas spark	500 mg/m3	Hourly Mean	Annually ²	As per M2 or such other subsequent guidance as may	
flue stack	Carbon Monoxide	ignition engines via a shared multi - flue	1400 mg/m3]		be agreed in writing with the Environment Agency	
	Total Volatile Organic Compounds			Litvironinent Agency			
	Sulphur Dioxide		200 mg/m3	_			
A2 and A3 - emission from carbon packs	None set	Air extracted from the process building exhausted to atmosphere via a wet scrubber, biofilter and then carbon packs	None set	-	None set	-	
A4 - Waste Gas Burner	Nitrogen Oxides (NOx expressed as NO ₂)	Combustion products from biogas	150 mg/m3	Hourly Mean	Annually ²	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency.	
biogas flare with a	Carbon Monoxide	flare via a 9m unimpeded vertical	100 mg/m3				
combustion temperature of	Total Volatile Organic Compounds	stack 10 mg/m3	10 mg/m3			geney.	
at least 1,000°C and a residence time of at least 0.3 seconds	Sulphur Dioxide	200 mg/m3					
A5 - Emission from 2000 kW _{Th} standby boiler	None set	Products from combustion of propane gas	None set	-	None set	-	
A6 - Pressure release valves (PRVs)	None set	Biogas	None set	-	None set	Any abnormal operation of PRVs to be reported to the Agency	

Emission point Ref. & Source Limit Reference Period Period Frequency Method Location Unit) Reference Monitoring Monitoring Standard or Period Frequency Method	Table S3.2 Point	Table S3.2 Point source emissions to air – emission limits and monitoring requirements					
Location		Parameter	Source				

Emission point ref. & location as identified on Drawing No: JSF4601, Jan 13 in Variation application EA/EPR/BW0584IL/V005

Table S3.3 Point source e	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		
Monitoring point 2005 on Drawing ESID6A dated	Ammoniacal Nitrogen	Surface water drainage system 2 mg/l 250 mg/l No visible oil of grease	2 mg/l	Spot Sample	Monthly	As specified in Environment Agency Guidance TGN02		
11/11/03 revision 1 dated 18/01/07 which is taken	Chloride		250 mg/l	Spot Sample		'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your		
to be representative of the emission to Bentley	Oil and Grease		No visible oil or grease	Instantaneous				
Brook, tributary of Saredon Brook	Suspended Solids		50 mg/l	Spot Sample		environmental permit (www.gov.uk) or such other		
	рН		>5 and <9 pH units	Instantaneous		subsequent guidance as may be agreed in writing with the Environment Agency		
	BOD		15 mg/l	Spot sample				

¹ Limits do not apply at start up and shut down.

² Annual monitoring is only required when flare operates in excess of 10% of the time, taken on an annual assessment period.

³ Within 3 months of commissioning any new engine and then annually thereafter.

Table S3.4 Groundw	Table S3.4 Groundwater – emission limits and monitoring requirements																
Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method												
1010, 1090, 1140, 1190 1260, 1320	Ammoniacal Nitrogen	30 mg/l	Spot sample	Quarterly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface												
	Chloride	1000 mg/l			1			Water' (February 2003), <u>risk assessments for your</u> environmental permit (www.gov.uk) or such other subsequent									
1010	Cadmium	0.004 mg/l			guidance as may be agreed in writing with the Environment												
1090		0.001 mg/l	Agency	01 mg/l 025 mg/l				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Agency								
1140		0.0025 mg/l															
1190		0.0025 mg/l												I		7	
1260		0.01 mg/l															
1320		0.003 mg/l															

Table S3.5 Landfill gas in external monit	Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements					
Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method		
1260 on drawing ESID 8 dated 11/11/03 revision 1 dated 18/01/07.	Methane	10%v/v	Weekly	As specified in Environment Agency Guidance LFTGN03 (September 2004), or such other subsequent guidance as may be agreed in writing with the Environment		
	Carbon Dioxide	no limit		Agency. Record whether the ground is:		
	Oxygen	no limit		waterlogged		
	Atmospheric pressure	no limit		frozen snow covered		
	Differential pressure	no limit				

Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
1040, 1050, 1060, 1070, 1080, 1081, 1090, 1091, 1280, 1290, 1300, 1310, 1320, 1360, 9813, 9818, 9819, 9820, 9821 on drawing	Methane	1%v/v	Monthly	
ESID 8 dated 11/11/03 revision 1 dated 18/01/07.	Carbon Dioxide	no limit		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential pressure	no limit		
1380, 1390, 1400, 1410, 1420, 1430, 1440,	Methane	1%v/v	Weekly	
1450 on drawing ESID 8 dated 11/11/03 revision 1 dated 18/01/07.	Carbon Dioxide	no limit		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential pressure	no limit		
1100, 1110, 1220, 1270 on drawing ESID 8 dated 11/11/03 revision 1 dated 18/01/07.	Methane	Breach after 3 consecutive readings >1% v/v CH4	Monthly	
	Carbon Dioxide	no limit		
	Oxygen	no limit		
	Atmospheric pressure	no limit		

Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
	Differential pressure	no limit		
1230, 1240, 1250 on drawing ESID 8 dated 11/11/03 revision 1 dated 18/01/07.	Methane	Breach after 3 consecutive readings >1% v/v CH4	Weekly	
	Carbon Dioxide	no limit		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential pressure	no limit		
1010, 1020, 1030, 1120, 1210, 1330, 1340, 1370, 9801, 9802, 9803, 9804, 9805, 9806,	Methane	no limit	Monthly	
9811, 9812, 9814, 9815, 9816, 9817 on drawing ESID 8 dated 11/11/03 revision 1 dated 18/01/07.	Carbon Dioxide	no limit		
	Oxygen	no limit	1	
	Atmospheric pressure	no limit		
	Differential pressure	no limit		
1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 9807, 9808, 9809, 9810 on drawing	Methane	no limit	Weekly	
ESID 8 dated 11/11/03 revision 1 dated 18/01/07.	Carbon Dioxide	no limit		

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements					
Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method	
	Oxygen	no limit			
	Atmospheric pressure	no limit			
	Differential pressure	no limit			

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
S1 (Manhole 0501 as shown on site plan in schedule 7)	No parameters set	Discharge from leachate treatment plant: • Landfill leachate, contaminated surface water and anaerobic digestion process effluent from on-site sources.	None set			
		 Leachate and process effluent arising from off-site sources as agreed in writing by the Agency 				

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

Table S3.8 Groundw	Table S3.8 Groundwater – other monitoring requirements						
Monitoring Point Ref./Description	Parameter	Monitoring frequency	Monitoring standard or method				
Up gradient MEPP	Water level, Ammoniacal Nitrogen, Chloride, Electrical Conductivity, pH	Quarterly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your environmental permit</u> (<u>www.gov.uk</u>) or such other subsequent guidance				
	Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Annually	as may be agreed in writing with the Environment Agency				
	Hazardous substances	Annually for first six years of operation					

Table S3.8 Groundwater – other monitoring requirements						
Monitoring Point Ref./Description	Parameter	Monitoring frequency	Monitoring standard or method			
Down or cross gradient MEPP	Water level, Ammoniacal Nitrogen, Chloride, Electrical Conductivity, pH	Quarterly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your environmental permit</u> (<u>www.gov.uk</u>) or such other subsequent guidance			
	Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Annually	as may be agreed in writing with the Environment Agency After the initial 6 year monitoring period for hazardous substances, if the results of quarterly or annual monitoring suggest an increase in contamination, the operator shall also undertake a full leachate hazardous substances screen.			
	Hazardous substances detected in leachate	Annually for first six years of operation then every two years				
MEPP	Base of monitoring point (mAoD)	Annually				

Monitoring Point Ref.	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
/Description				
In waste gas monitoring boreholes	Methane Carbon Dioxide	Monthly until gas extraction	Calibrated handheld monitoring instrument	For cells or phases which have no active gas extraction.
or sealed leachate wells or sacrificial gas extraction system	Oxygen Carbon Monoxide	commences	commences	Gas extraction system shall be installed and extraction commenced once monitoring shows onset of methane production in waste at a rate that can be sustainably extracted.
	Differential pressure Atmospheric pressure			Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring.

Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
	Hydrogen sulphide	Quarterly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (v3 2010) or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency.	For cells or phases which have no active gas extraction. Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring. Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans
Gas collection system at well control valve, manifolds (if applicable) and strategic points on gas system	Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Gas flow rate or suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%)	Monthly or at such other frequency as may be agreed in writing with the Environment Agency.	Calibrated handheld monitoring instrument	Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken. Where the concentration of carbon monoxide exceeds 100ppm then further investigation shall be undertake Record the ambient air temperature and whether the ground is: waterlogged frozen snow covered
Gas collection system at well control valve	Hydrogen sulphide	Six monthly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (v3 2010) or other such subsequent guidance as	Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans

Monitoring Point Ref.	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
/Description				
			may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency.	
Output to flare or LFG Utilisation Compound	Trace gas	Annually	Trace gas analysis in accordance with LFTGN04 (v3 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.	The concentration of trace gas components shall be assessed against the assumptions made in the Landfill gas risk assessment and dispersion modelling.
Output to flare or LFG Utilisation Compound	Methane Carbon Dioxide Oxygen Gas flow rate Suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%)	Weekly		Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken.

Monitoring point reference or description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Operational Cells or Phases		At leachate compliance point	<u> </u>	
(Any cell or phases that do not he condition 2.6)	as listed in table S3.1. As specified in Environment			
MEPP	Ammoniacal Nitrogen, Arsenic, BOD, Cadmium, Calcium, Chloride, Chromium, COD, Copper, Electrical Conductivity, Iron, Lead, Magnesium, Manganese, Nickel, pH, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Quarterly	Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the	None
MEPP	Hazardous substances	Annually	Environment Agency	None
MEPP Depth to base (mAoD)		Annually		None
Non Operational Cells or Phases (Any cell or phases that have a f	inal engineered cap agreed in accor	dance with condition 2.6)		
MEPP	Ammoniacal Nitrogen, Arsenic, BOD, Cadmium, Calcium, Chloride, Chromium, COD, Copper, Electrical Conductivity, Iron, Lead, Magnesium, Manganese, Nickel, pH, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Annually		
MEPP	Hazardous substances	Once every four years		None
MEPP	Depth to base (mAoD)	Annually		

Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
MEPP	Ammoniacal nitrogen Chloride Suspended Solids Visual Oil and Grease pH electrical conductivity	Monthly	Spot sample	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency

Table S3.12 Noise monitoring requirements							
Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications			
Sensitive receptor noise survey as specified in Part III Supporting information, section C5 of the variation application	Noise	Annually. The first annual survey to be undertaken within one month of commissioning all plant and equipment.	As agreed in writing with the Environment Agency	The first annual survey is subject to assessment in accordance with improvement condition IC7, table S1.3			

Table S3.13 Process monitoring requirements for Anaerobic Digestion (activity AR3)							
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications			
Biogas from Digester(s)	Flow	Continuous	In accordance with EU weights and measures Regulations	-			
Biogas from Digester(s)	Methane	Continuous	None specified	Gas monitors to be calibrated in accordance with manufacturer's recommendations			
	Hydrogen sulphide	Daily	None specified	-			
Waste reception building; Digester(s) and storage tank(s)	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary			
Biofilter	Temperature	As required	Temperature probe	Biofilter shall be regularly checked and maintained to ensure appropriate temperature and moisture content			
	Moisture	As required	None specified				
	Thatching/ compaction	As required	None specified				
Scrubber system / Carbon filter	Key process parameters to include pH, temperature and air flow	In accordance with manufacturer's recommendations.	None specified	Scrubber system / Carbon filter shall be regularly checked and maintained to ensure appropriate temperature and moisture content.			
				Carbon filters to be replaced when saturated in accordance with manufacturer's recommendations.			
Digester and storage tank(s)	Integrity checks	Weekly	Visual assessment	-			

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

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

Table S4.2: Annual production/treatment					
Leachate:	Cubic metres/year				
Disposed of off site;					
Disposed of to any onsite effluent treatment plant;					
Recirculated into the waste mass.					
Accepted from offsite for treatment at any onsite effluent treatment plant.					
Landfill gas:	Normalised cubic metres/year				
combustion in flares;					
combustion in gas engines;					
Other methods of gas utilisation.					
Average methane content entering the landfill gas utilisation or treatment compound (based on the annual average of Table S3.9 monitoring)	% methane v/v				
Methane generation rate (50%ile from a representative model)	m3 /hr				

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

Table S4.4 Reporting Forms					
Media/parameter	Reporting Format	Date of Form			
Leachate	Form leachate 1 or other reporting format to be agreed in writing with the Environment Agency	23/03/2016			
Air	Form Air 1 or other reporting format to be agreed in writing with the Environment Agency	23/03/2016			
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	23/03/2016			
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	23/03/2016			
Sewer	Form Sewer 1 or other reporting format to be agreed in writing with the Environment Agency	23/03/2016			
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	23/03/2016			
Waste Return	Waste Return Form RATS2E	23/03/2016			
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	23/03/2016			

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 a significantly affect the environment	any incident or accident which significantly affects or may
To be notified within 24 hours of	detection
Date and Time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	
(b) Notification requirements for	the breach of a limit
To be notified within 24 hours of	detection unless otherwise specified below
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the	e breach of a li	imit		
To be notified within 24 hours of de	tection unless	otherwise sp	ecified belo	ow
Measures taken, or intended to be taken, to stop the emission				
Time periods for notification follow	ing detection	of a breach of	a limit	
Parameter				Notification period
(c) Notification requirements in the immediate danger to human health on the environment		•		-
To be notified within 24 hours of de	etection			
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 a Any more accurate information on the notification under Part A.		s practio	able	
Measures taken, or intended to be taken a recurrence of the incident	en, to prevent			
Measures taken, or intended to be tak limit or prevent any pollution of the en which has been or may be caused by	vironment			
The dates of any unauthorised emissi facility in the preceding 24 months.	ons from the			
Name*				
Post				
Signature				
Date				

^{*} authorised to sign on behalf of the operator

Schedule 6 - Interpretation

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

"annually" means once every year.

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

"authorised officer" means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

"background concentration" means such concentration of that substance as is present in:

- For emissions to surface water, the surface water quality up-gradient of the site; or
- For emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge;
 or
- For emissions of landfill gas, the ground or air outside the site and not attributable to the site.

"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.

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

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

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

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

"emissions to land" includes emissions to groundwater.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations 2016, SI 2016 No.1154 and words and expressions used in this permit which are also used in those Regulations have the same meanings as in those Regulations.

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

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

"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 substances" as defined by the Environmental Permitting (England and Wales) Regulations 2016, SI 2016 No.1154, schedule 22 and listed in our Hydrogeological risk assessment guidance.

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

"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.

"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.

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

"List of Wastes" means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on

waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

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

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

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

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

"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.

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

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

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

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

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

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

'waste code' - See 'List of Wastes'.

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

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means the standards included in Environment Agency Guidance for Monitoring Enclosed Landfill Gas Flares LFTGN 05 or Guidance for Monitoring Landfill Gas Engine Emissions LFTGN 08.

Where the following terms appear in the waste code list in Tables S2.1, S2.2, S2.3 or S2.4 they have the meaning given below:

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

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

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

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

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

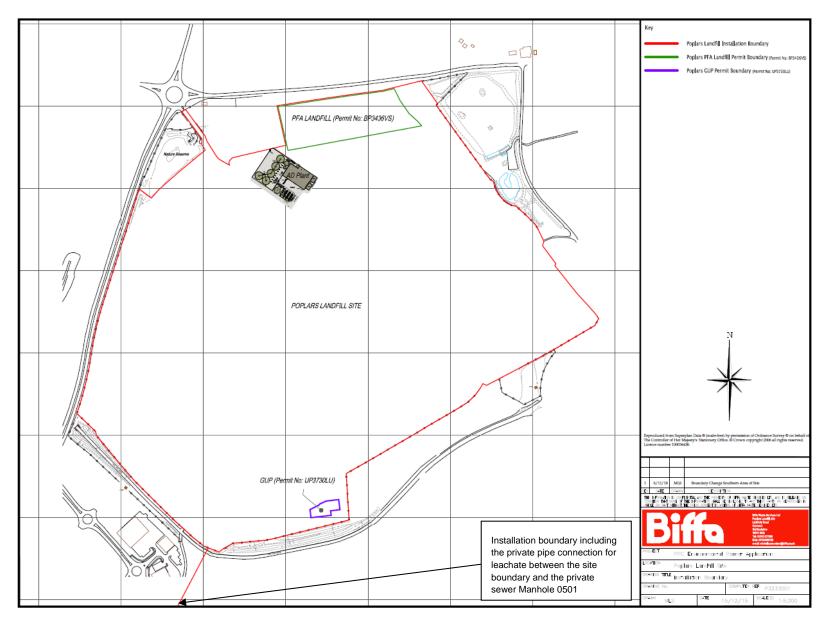
'transition metals' means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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

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

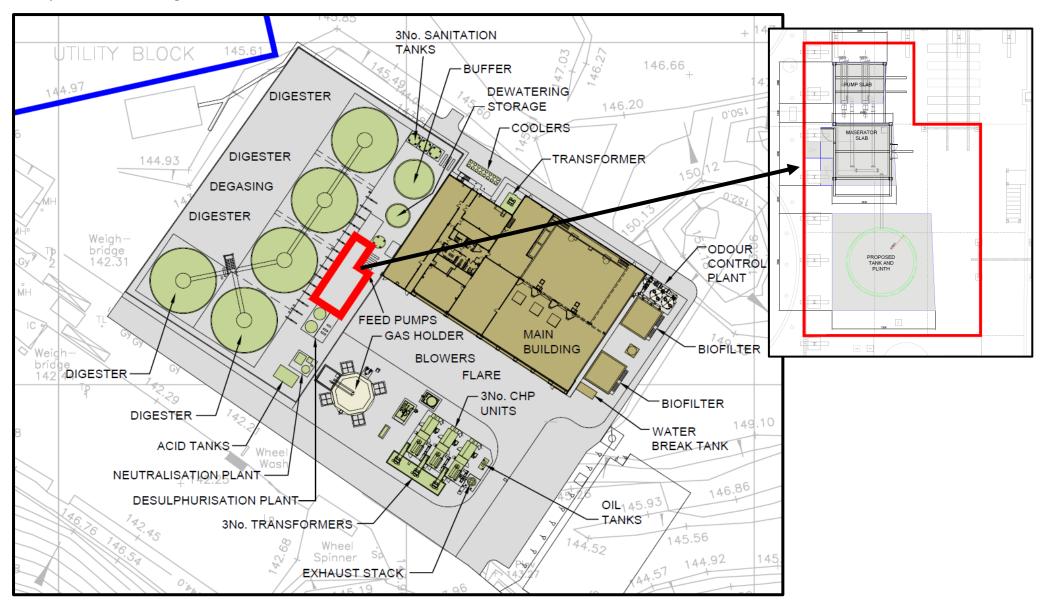
'solidification' means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste;

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

Schedule 7 – Site plan



Activity AR3 Anaerobic Digestion Plant



END OF PERMIT