Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Biffa Waste Services Limited

Westmill Waste Management Facility Westmill Road Ware Hertfordshire SG12 0ES

Variation application number EPR/DP3431PC/V005

Permit number EPR/DP3431PC

Westmill Waste Management Facility Permit number EPR/DP3431PC

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2010 (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. Only the variations specified in schedule 1 are subject to a right of appeal. All the conditions of the permit have been varied and are subject to the right of appeal.

This variation and consolidation amends the permit to:

- Amend condition 2.7.7 and 2.7.8 to refer to revised pre-settlement and post settlement drawings.
- Amend Table S1.2 to update operating techniques and refer to revised cell layout drawings for cells 6 and 7 in order to split them into new cells 6N, 6S, 7N and 7S.
- Amend permitted wastes table S2.1 to include European Waste Catalogue (EWC) codes 18 01 04, 18 02 03 and 20 01 99
- Amend the wastes table S2.1 to highlight waste consider to be low odour wastes.
- Amend the leachate levels limit stated in table S3.1 to increase to limits to 2
 meters above the base in Westmill 2 area of the landfill for cells which have
 the appropriate infrastructure in place to prevent overspill.
- Update the leachate monitoring point references in table S3.1
- Include pre operational conditions 9, 10 and 11 to complete prior to implementation of the proposals above.
- Include improvement condition 14 to provide a consolidate site management plan.
- Amend table S3.6 to correct error in reference to improvement conditions. IC10 has been changed to IC9.
- Update monitoring point references in Tables S3.1 S3.11 and S4.1 in line with latest site monitoring plan.

The operator has submitted a new permit variation application (V008) for additional gas engines alongside the determination of this variation application (V005).

The operator has applied to

- Install and operate no 2. additional landfill gas engines; and
- Install and operate a PpTek siloxane removal system which will pre-treat landfill gas
- Conditions as set out in Schedule 2 of the variation notice will be amended to change the activity references due to the addition of a new directly associate activity

Application (V008) is a less complex application and therefore a decision on this application will be most likely be made well before a decision has been made on landfill application V005.

As a consequence of Application V008 we may have to make additional changes to the consolidated permit template (V005) we are consulting upon in order to incorporate the changes applied for under V008 application should this variation be issued

The changes applied for under variation application V008 will have no impact on the changes applied for under variation application V005 or our assessment of that application but are mentioned for information.

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

Status log of the permit		
Description	Date	Comments
Application BK1988ID	Duly made	
(Reference	15/01/01	
EPR/BK1988ID/A001)		
Response to request for	18/07/01	
information 01		
Response to request for	03/12/01	
information 02		
Response to request for	03/12/01	
information 03		
Response to request for	25/03/02	
information 04		
Permit determined	07/04/03	
BK1988ID		
Permit transferred to Biffa	26/05/04	Permit transferred to Biffa Waste
Waste Services Ltd		Services Ltd (formerly permit
DP3431PC		reference BK1988ID)
Environment Agency	08/04/09	
Variation		
EA/EPR/DP3431PC/V002		
(PP3333KY)		
Agency initiated variation	18/03/10	
EPR/DP3431PC/V003		
EPR/DP3431PC/V003	23/07/10	
Determined		
(MP3835TW)		
Application	19/04/09	Consolidation of EPR/DP3431PC
EPR/DP3431PC/V004		and EPR/GP3991NU
Consolidation and		
substantial Variation		

Additional Information Received	21/01/10	
Additional information Received	03/06/10	Odour Management Plan
Additional Information	05/06/10	Response to Schedule 5 Notice
Additional Information	30/07/10	Response to Schedule 5 Notice
Variation determined Consolidated permit number EPR/DP3431PC/V004 (VP3833KZ)	25/02/11	responde to contende a reside
Application	Duly made	Application to vary the permit to
EPR/DP3431PC/V005	10/05/12	amend settlement profiles, increase leachate levels and add additional waste codes.
Additional information EPR/DP3431PC/V005	31/07/2012	Response to Schedule 5 Notice
Application EPR/DP3431PC/V006	Duly made 10/09/12	Application to vary the permit to include the Soil Treatment Facility to process wastes for use on the landfill.
A delition of information	00/40/40	Insertion of wests and 10.12.02
Additional information response to Schedule 5 Notice EPR/DP3431PC/V006	22/10/12	Insertion of waste code 19 13 02. Confirmed amount of green waste accepted and stored at the site for use in biopiles process. Confirmed dust suppressions methods.
Additional information EPR/DP3431PC/V005	25/10/12	Revised drawing ESID 2. Inert restoration profiles.
Variation Application	Duly made	Variation to add an additional
EPR/DP3431PC/V007	25/10/12	landfill gas engine, note this variation has been issued before V005 and V006
Additional information	06/11/12	Revised Odour Impact
EPR/DP3431PC/V005		Assessment.
Additional information EPR/DP3431PC/V006	20/11/12	Impermeable surface engineering.
Additional information response to Schedule 5 Notice EPR/DP3431PC/V005	28/11/2012	Leachate levels and infrastructure
Additional information EPR/DP3431PC/V006	30/11/12	Confirmation of insertion of pre operation condition for testing and characterising of wastes for use as daily cover. Confirmation of soil deposit site specific risk assessment preoperational condition.
Variation determined EPR/DP3431PC/V007 (TP3539ZK)	18/04/13	Varied permit issued. EPR/DP3431PC/V007

Additional information EPR/DP3431PC/V006	03/02/2014	Confirmed specific soil treatment facility acceptance criteria for waste codes 19 03 06*, 19 03 07. Confirmed removal of waste codes 19 02 06, 19 03 05, 19 02 05*, 19 03 04*.
Additional information EPR/DP3431PC/V005	07/02/2014	Confirmation of odour modelling A! and A1 and A3 scenario implementation Confirmation of settlement profile settlement management.
Additional information EPR/DP3431PC/V005	08/04/2014	Confirmation of municipal waste streams considered low odour
Variation determined EPR/DP3431PC (HP3237CF)	02/07/2014	Varied permit issued. EPR/DP3431PC/V006
Variation determined EPR/DP3431PC (Billing Ref: XP3734CG)	DRAFT	Varied permit issued. EPR/DP3431PC/V005

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

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

Permit number EPR/DP3431PC

issued to
Biffa Waste Services Limited ("the operator")

whose registered office is

Coronation Road Cressex Business Park Cressex High Wycombe Buckinghamshire HP12 3TZ

company registration number 00946107

to operate a regulated facility at

Westmill Waste Management Facility
Westmill Road
Ware
Hertfordshire
SG12 0ES

to the extent set out in the schedules.

The notice shall take effect from DRAFT

Name	Date
DRAFT	DRAFT

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of the application made by the operator:

- Condition 2.7.7, 2.7.8
- Table S1.2 Operating techniques
- Table S1.3 Improvement conditions
- Table S1.4B Pre operational measures
- Table S2.1 Permitted waste types
- Table S3.1 Leachate level limits and monitoring requirements
- Tables S3.1 S3.11 and S4.1 update of monitoring point references

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number EPR/DP3431PC

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/DP3431PC/V005 authorising,

Biffa Waste Services Limited ("the operator"),

whose registered office is Coronation Road Cressex Business Park Cressex High Wycombe Buckinghamshire HP12 3TZ

company registration number 00946107

to operate an installation at
Westmill Waste Management Facility
Westmill Road
Ware
Hertfordshire
SG12 0ES

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

Name	Date
DRAFT	DRAFT

Authorised on behalf of the Environment Agency

Conditions

Management

General management

- 1.1.1 The operator shall manage and operate the activities:
 - 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 Agency dated 26/05/2004 shall be maintained by the operator throughout the subsistence of this permit and the operator shall produce evidence of such provision whenever required by the Environment Agency.
- 1.2.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:
 - (a) the costs of setting up and operating the landfill;
 - (b) the costs of the financial provision required by condition 1.2.1; and
 - (c) the estimated costs for the closure and aftercare of the landfill.

1.3 Energy efficiency

- 1.3.1 For the following activities referenced in schedule 1, table S1.1 A1 to A10, 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) take any further appropriate measures identified by a review.

1.4 Efficient use of raw materials

- 1.4.1 For the following activities referenced in schedule 1, table S1.1 A3 to A6 the operator shall:
 - take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

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

- 1.5.1 The operator shall take appropriate measures to ensure that:
 - (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.5.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").
- 2.1.2 For the following activities referenced in schedule 1, Table S1.1 A3 to A6, waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.
- 2.2.2 The activities A1 and A2 authorised under Table S1.1 shall not extend beyond the site, being the land shown edged in yellow on the site plan at schedule 7 to this permit.
- 2.2.3 The activities A15 and A16 authorised under Table S1.1 shall not extend beyond the site boundary being the land shown edged in blue on the site plan at schedule 7 to this permit

2.2.4 The activities A3 to A6 and A11 to A14 authorised under Table S1.1 shall not extend beyond the site, being the land shown edged in red on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency
 - (b) If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan specified in schedule 1, table S1.2 or otherwise required under this permit, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 Any raw materials or fuels listed in schedule 2 table S2.3 shall conform to the specifications set out in that table.
- 2.3.3 Waste shall only be accepted under activities A3 to A6 and A11 to A14 if:
 - (a) it is of a type and quantity listed in schedule 2 tables S2.4, and S2.5 and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.4 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 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

Hazardous waste storage and treatment

2.3.6 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

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 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 as soon as practicable following the construction of the relevant landfill infrastructure.
- 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.
- 2.6.11 The operator shall prior to construction of the internal separation boundary between Westmill I and Westmill II, submit a written report, to the Environment Agency for written approval, on the assessment into the stability of the southern slope in Westmill I and how this can be maintained during and after the construction of the new internal separation boundary
- 2.6.12 The operator shall prior to starting construction of the internal separation boundary between Westmill I and Westmill II, submit a written report, to the Environment Agency for written approval detailing the design and engineering specifications to be applied to the temporary capping measure during the construction of the internal separation boundary referred to in condition 2.6.11 above

2.7 Waste acceptance

- 2.7.1 No waste shall be accepted for disposal within the boundary edged in blue on the site plan in schedule 7 of this permit
- 2.7.2 Wastes shall only be accepted for restoration within the area edged in green on the site plan attached to schedule 7 of this permit if;
 - a) they are listed in schedule 2, Table S2.2; and
 - b) they are inert waste or wastes received from the Soil Treatment Facility and satisfy the criteria for restoration; and
 - c) they are not liquid waste (including waste waters [but excluding sludge and excluding liquid waste accepted at a permitted leachate treatment activity]).
- 2.7.3 Wastes shall only be accepted for disposal if: within the area edged in yellow on the site plan attached to schedule 7 of this permit if:

- (a) they are listed in schedule 2, and
- (b) they are non- hazardous waste, and
- (c) they are not whole used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm), and
- (d) they are not shredded used tyres, and
- (e) they are not liquid waste (including waste waters but excluding sludge), and
- (f) they are not chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown, and
- (g) all the relevant waste acceptance procedures have been completed, and
- (h) they fulfil the relevant waste acceptance criteria, and
- (i) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
- (j) they are wastes which have been treated, except for: inert wastes for which treatment is not technically feasible; or it is waste other than inert waste and treatment would not reduce its quantity or the hazards which it poses to human health or the environment, and
- (k) where they are wastes with a code beginning with 07 05 and 16 03, they shall exclude waste medicinal products and pharmaceutically active waste materials arising from their manufacture.
- 2.7.4 The operator shall visually inspect:
 - (a) without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill; and
 - (b) waste at the point of deposit;and shall satisfy itself that it conforms to the basic characterisation documentation submitted by the holder.
- 2.7.5 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.
- 2.7.6 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.7.7 The total quantity of waste that shall be deposited within the area edged in blue in schedule 7 of this permit, shall be limited by the pre-settlement levels shown on drawing Site Layout & Proposed Pre-Settlement Contours (ESID2) reference WK234301 (February 2012)
- 2.7.8 The total quantity of waste that shall be deposited within the area edged in yellow in schedule 7 of this permit, shall be limited by the pre-settlement levels shown on drawing Site Layout & Proposed Pre-Settlement Contours (ESID2) reference WK234301 (February 2012)

EPR/DP3431PC/V005

- 2.7.9 The quantity of waste that is deposited within the area edged in yellow in schedule 7 of this permit, shall not exceed the limits in schedule 1 table S1.5A.
- 2.7.10 The quantity of waste that is deposited within the area edged in blue in schedule 7 of this permit, shall not exceed the limits in schedule 1 table S1.5B.
- 2.7.11 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 flare the gas.
- 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

2.11 Pests

2.11.1 The activities shall not give rise to pollution or hazards from pests. 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 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.2, S3.3 and S3.4.
- 3.1.2 The limits given in that schedule shall not be exceeded, save that compliance with an emission limit shall include incorporation of the uncertainty allowance stated in Environment Agency guidance LFTGN 05 and LFTGN 08.
- 3.1.3 Where a substance is specified in schedule 3 tables S3.3 or S3.4 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration.
- 3.1.4 There shall be no emission from the activities into groundwater of any hazardous substances contrary to the EP Regulations.
- 3.1.5 There shall be no emission from the activities into groundwater of any non-hazardous pollutants so as to cause pollution.
- 3.1.6 The trigger levels for emissions into groundwater for the parameter(s) and monitoring point(s) set out in schedule 3 table S3.5 shall not be exceeded.
- 3.1.7 The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:
 - (a) between nine and six months prior to the sixth anniversary of the granting of the permit, and
 - (b) between nine and six months prior to every subsequent six years after the sixth anniversary of the granting of the permit.
- 3.1.8 The limits for landfill gas arising from the installation set out in schedule 3, table S3.6 shall not be exceeded.
- 3.1.9 For the following activities referenced in schedule 1, Table S1.1 A3 to A6, periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.2.3 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;
- b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency

3.3 Odour

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

3.4 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 topollution 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 table S3.1 and S3.9;
 - b) Point source emissions specified in table S3.2, S3.3 and S3.4;
 - c) Groundwater specified in table S3.5 and S3.11;
 - d) Landfill gas specified in tables S3.6, S3.7 and S3.8;
 - e) Surface water specified in table S3.10;
 - f) Process monitoring specified in Table S3.12; and
 - g) Soil biopile 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 A topographical survey of the site referenced to ordnance datum shall be carried out:
 - (a) annually, and
 - (b) prior to the disposal of waste in any new cell or new development area of the landfill, and
 - (c) following closure of the landfill or part of the landfill.

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

4 Information

4.1 Records

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

4.2 Reporting

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

4.3 Notifications

- 4.3.1 (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately:
 - (i) inform the Environment Agency;
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident; and
 - (iii) take the measures necessary to prevent further possible incidents or accidents.
 - (b) In the event of a breach of any permit condition the operator must immediately:
 - (i) inform the Environment Agency; and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time.
 - (c) In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 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 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 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.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or and 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 regulation or this permit:
 - a) the Environment Agency shall be notified at least 14 days before making the change;
 and
 - b) the notification shall contain a description of the proposed change in operation
- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.
- 4.4.3 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:

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

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

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.
- 4.4.4 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;
 - (b) the notification shall contain a description of the proposed change in operation.

Schedule 1 – Operations

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1	S5.2 A(1)(a): The disposal of waste in a landfill.	Landfill for non-hazardous waste (D5 – Specially engineered landfill)	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.7, as an integral part of landfilling. Waste shall only be deposited within the area edged in yellow on the site
A2	S5.3 A(1)(a)(i): Leachate treatment.	Treatment of landfill and onsite soil treatment facility leachate in a facility with a capacity greater than 50 tonnes per day (D8 - biological treatment of waste)	plan in schedule 7 of this permit. Treatment of landfill and on-site soil treatment facility leachate in a facility with a capacity greater than 50 tonnes/day (D8 - biological treatment of waste).
A3	S5.3 A(1)(a)(vi): Recovery of hazardous waste with a capacity exceeding 10 tonnes per day.	Ex-situ bioremediation of hazardous waste soil. R5: Recycling/reclamation of inorganic materials other than metals and metal compounds.	All treatment must take place on an impermeable surface with sealed drainage. The biopile gas extraction system must be operational during treatment.
			Hazardous wastes treated on site will only be used for recovery within the green boundary outlined in schedule 7 of the permit.
A4	S5.3 A(1)(a)(iii):	Blending or mixing of	Waste soils only as per Table S2.4. All treatment must take place on an
Λ 1	Recovery of hazardous waste with a capacity	hazardous waste soils.	impermeable surface with sealed drainage.
	exceeding 10 tonnes per day involving blending or mixing.	R5: Recycling/reclamation of inorganic materials other than metals and metal compounds.	The blending and mixing of hazardous waste is only permitted provided it is in line with approved blending and mixing methodology as set out in preoperational condition PO3 of table S1.4.
			Waste only as per tables 2.4.

Table S1.1 Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A5	S5.6 A(1)(a): Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes.	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).	All storage must take place on an impermeable surface with sealed drainage. Waste only as per tables 2.4.
		D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection on the site where it is produced).	
A6	S5.4 A(1)(b)(i): Recovery of non-hazardous waste soils with a capacity exceeding 75 tonnes per day involving biological	Ex-situ biological treatment consisting of bioremediation of non-hazardous waste soils.	All treatment and storage must take place on an impermeable surface with sealed drainage.
	treatment.	R5: Recycling/reclamation of other inorganic compounds.	The biopile gas extraction system must be operational during treatment.
			Non-hazardous wastes treated on site will only be used for recovery within the green boundary outlined in schedule 7 of the permit.
			Wastes soils only as per Table S2.5.
A7	Directly Associated Active Gas utilisation	Utilisation of landfill gas for energy recovery in an appliance with a rated thermal input of >3 MW and <50 MW (R1 – Use principally as a fuel to generate energy).	Landfill gas arising from the landfill.
A8	Landfill gas flaring	Flaring of landfill gas for disposal in an appliance.	Landfill gas arising from the landfill.
A9	Water discharges to controlled waters	Discharges of site drainage from the landfill and soil treatment facility.	From surface water management system to point of entry to controlled waters.
A10	Leachate discharge to foul sewer	Discharge of leachate from the landfill and soil treatment facility.	From leachate treatment plant to point of entry to sewer.
A11	Screening of waste	Screening of waste to remove any materials which are not suitable for use in restoration or treatment.	All treatment must take place on an impermeable surface with sealed drainage.
			Wastes treated on site will only be used for recovery within the green boundary or disposal within the yellow boundary outlined in schedule 7 of the permit.

Table S1.1	Activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of spe activity and WFD A and II operations		Limits of specified activity and waste types
A12	Crushing of aggregate.	Crushing of aggregathe screening of soil produce materials so for restoration or tree	ls to uitable	Wastes treated on site will only be used for recovery within the green boundary or disposal within the yellow boundary outlined in schedule 7 of the permit.
A13	Blending or mixing of non-hazardous waste soils.	R5: Recycling/recla inorganic materials than metals and me compounds.	other	All treatment must take place on an impermeable surface with sealed drainage.
				The blending and mixing of non-hazardous waste is only permitted provided it is in line with approved blending and mixing methodology as set out in pre-operational condition PO3 of table S1.4.
				Waste only as per tables 2.5.
A14	Temporary storage of non-hazardous waste pending recovery.	R13: Storage of was pending any of the operations numbers R12 (excluding tem	ed R1 to	All storage must take place on an impermeable surface with sealed drainage.
		storage, pending co on the site where it produced).	llection,	Waste only as per tables 2.5.
Activity Reference	Description of Activities Operations	for Waste	Limits o	f Activity
A15	D1: Deposit into or onto lar	nd.	the close	ment and monitoring or emissions from ed landfill being the area edged in blue on plan schedule 7 of this permit.
A16	D5: Specially engineered landfill (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc).		the close	ment and monitoring of emissions from ed landfill being the area edged in blue on plan in schedule 7 of this permit.
A17	R10: Land treatment result agriculture or ecological im		provide the area	vaste soils (specified within Table S2.2) to restoration soils above the landfill cap in edged in green on the site plan in a 7 of this permit.

Table S1.2 Operating techn		
Description	Parts	Date Received
Application	Response to section B2.1 given in Appendix C of the application.	18/12/00
Westmill II Working Plan	Leachate Management System, Sections 2.4, 2.5, 5.6, 5.7 of the working plan A.6 dated April 2003	04/04/03
Westmill II Working Plan	Landfill gas management system, Sections 2.7, 5.1, 5.2, 5.3, 5.4, 5.5 (Excluding Units and Accuracies in Section 5.2.1) of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Surface water Management System, Sections 2.9, 5.9 (Excluding Normal Reporting Limits and Units in section 5.9.2) of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Waste handling and storage, Sections 4.11, 4.12 of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Waste discharge and placement, Sections 4.12, 4.14.3 of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Daily and intermediate cover, Sections 4.14.1, 4.14.2 of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Prevention and control of dusts and bioaerosols, Sections 6.4, 6.5 of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Prevention and control of odour, Sections 6.2, 6.3 of the working plan A. 6 dated April 2003, subject to the requirements of Schedule 1, Table S1.4, Pre-operational condition 2	04/04/03
Westmill II Working Plan	Prevention and control of birds, vermin and insects, pests and scavengers, Section 6.8 of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Prevention and Control of windblown materials, including litter, Section 6.6 of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Prevention and control of dirt, mud and debris on roads, Section 6.9 of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Energy efficiency, Appendix U of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Accident prevention and control, Section 4.2, Appendix Q, Appendix R of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Fire prevention and control, Section 4.10 of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Unauthorised access prevention and control, Sections 3.5, 4.3, 4.4, 4.5 of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Noise, Section 6.7 of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Hydrogeological Risk Assessment, Appendix F (Ref 00523300.503/A.1) of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Waste recovery and disposal, Appendix V of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Raw materials (including water), Section 2.6, 2.10, 4.9, Appendix N of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Conceptual and detailed engineering design Section 2.3 of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Installation and maintenance of final capping, Section 2.8 of the working plan A. 6 dated April 2003	04/04/03
Westmill II Working Plan	Contaminant Loading Protocol, Appendix Z of the working plan A. 6 dated April 2003	04/04/03
Westmill Closure	Section 2.0 Environment Management system Overview	February
Report dated February 2006	Section 3,0 Site Infrastructure	2006
Westmill 1 Landfill Site	Section 2.2 Environment Management Systems Overview	21/04/2012

Table S1.2 Operating techni	ques	
Description	Parts	Date Received
Closure Plan V2 dated April	Section 3.1 Site Infrastructure	Recourse
2010	Section 4.0 Leachate Management	
	Section5.0 Groundwater Management	
	Section 6.0 Surface Water Management	
	Section 7.0 Landfill Gas Management	
	Section 8.0 Restoration , Maintenance and Stability	
Additional information	Responses to question 1, Perimeter Sloped	21/04/2012
supplied, Westmill 1 Landfill,	Response to question 2, Capping and safety factor	21/01/2012
site closure	Response to question 7, Capping data and safety factor,	
	Response to question 8, safety factor on southern slope	
	Response to question 9, salety factor on southern slope.	
	Response to question 10, short, medium and long-term stability of	
	waste mass	
	Response to question 11, leachate monitoring, Response to	
	question 12, Leachate monitoring	
	Response to question 13, Groundwater monitoring	
	Response to question 14, Groundwater monitoring	
	Response to question 15, Surface water monitoring	
	Response to question 16, Gas monitoring	
A 11 d	Response to question 17 informing the agency	A '' 0000
Application EPR/DP3431PC/V004	Hydrogeological Risk Assessment, Section 3.2, subject to the requirements of Schedule 1, Table S1.3, Improvement condition 1	April 2009
LI 10/DI 34311 C/ 0004	Stability Risk Assessment, Sections 2.0 and 3.0	
	Landfill Gas Risk Assessment, Section 4.0	
Application	H1 Assessment, Table A1 – Odour Risk Assessment and	April 2009
EPR/DP3431PC/V004	Management Plan, Subject to the requirement of schedule 1, Table S1.3, Improvement Condition 2	
	H1 Assessment, Table A2 – Noise Risk Assessment and Management Plan	
	H1 Assessment Table A3 – Fugitive Risk Assessment and Management Plan	
	H1 Assessment Table A4 – Accidents Risk Assessment and Management Plan	
Further Information Received EPR/DP3431PC/V004	1 st Response to the Agency, Sections 2 and 4	January 2010
Schedule 5 Notice	Response to question 1,2,3,4 and 5	30 July
EPR/DP3431PC/V004 dated 2 July 2010		2010
Variation Application	Document reference 407.00034.00435/NTS in response to Question	28/03/2012
EPR/DP3431PC/V005	5c Non Technical Summary part C2 of the application form.	20,00,2012
	Document reference 407.00034.00435/H1 in response to Question 6	
	H1 Environment Risk Assessment Part C2 of the application form.	
	Section 3, Table 3 Technical standards, Part C3 of the application form.	
Variation Application	Document reference 402-0034-00435/ESID dated March 2012	20/02/2042
Variation Application EPR/DP3431PC/V005	Environmental Setting and Design.	28/03/2012
	Response to Question 1 of appendix 7, part C3 of the application	

	iques	_
Description	Parts	Date Received
	form.	
	ESID Appendix 2 Settlement Modelling and Remedial Material 18 April 2011.	
Variation Application	Document Reference 407-00034-00435/HRA March 2012	10/05/2012
EPR/DP3431PC/V005	Hydrological risk assessment Reference in response to Question 2 of appendix 7, part C3 of the application form.	
	Document Reference 407-00034-00435/SRA March 2012	
	Stability Risk assessment in response to Question 3 of appendix 7, part C3 of the application form.	
	Document reference 403.00847.00002/LFGRA March 2012, Landfill Gas Risk Assessment Reference in response to Question 4 of appendix 7, part C3 of the application form.	
Variation Application EPR/DP3431PC/V005	Document Reference 407-00034-00435 drawing Number ESID3 Restoration Scheme reference WK234400 February 2012.	10/05/2012
	Post Settlement Profile for Westmill Landfill computer ref WK034200 Drawing number 2 dated 03.03.11.	
Variation Application EPR/DP3431PC/V006	Section 3, Table 3 Technical standards, Part C3 of the application form.	10/09/12
	Document reference 407.00034.0046/BATOT (June 2012).	
	Appendix BATOT1SSI/913/07 Waste Acceptance Procedure SRC - Section 5.0 SRF Output Sampling Methodology.	
Schedule 5 request for	Confirmed batch management to control cross contamination.	22/10/12
further information response EPR/DP3431PC/V006	Confirmation all waste received will meet criteria for restoration on acceptance to the site with regards to non organic contaminants that cannot be treated by the biopile bioremediation process.	
	Confirmation that where possible site equipment will be located into areas below ground levels or behind biopiles to screen noise.	
	Confirmed site has appropriate waste tracking system.	
	Confirmed amount of green waste accepted and stored at the site for use in biopile process.	
	Confirmed dust suppressions methods for aggregate screening and crushing activity.	
	Supplied revised site plan drawing number 02, WK236301.	
Additional information EPR/DP3431PC/V006	Updated version of Drawing ESID 2 Document Reference 407- 00034-00435 computer reference WK234301 Site layout and proposed Pre- settlement contours February 2012	29/10/12
	Drawing and cross sections of inert restoration profiles computer reference WK236700	
Application EPR/DP3431PC/V007	Third tier atmospheric dispersion modelling carried out to assess impacts of increasing the capacity of Westmill Landfill Gas Generation Station to 3.195MW, dated September 2012	25/10/12
	Noise Assessment Westmill Landfill Site dated September 2012	25/10/12
	Third tier atmospheric dispersion modelling carried out to assess impacts of increasing the capacity of Westmill Landfill Gas Generation Station to 3.168 MW, dated April 2013	15/04/13
Additional information EPR/DP3431PC/V005	Odour Impact Assessment for revised pre-settlement profiles. Ref: 407.00034.00435_OIAv3	06/11/12
	Scenarios A1 and A3	

Description	Parts	Date Received
Additional information EPR/DP3431PC/V006	Confirmation of impermeable surface engineering. Revised engineering drawing of impermeable surface drawing number 007, GCL layout.	20/11/12
Schedule 5 Notice request for further information response EPR/DP3431PC/V005	Response to question 1,2 Confirmed leachate level will only be raised to 2 metres where the appropriate infrastructure is in place to contain leachate with freeboard to prevent overspill. Submitted cell design drawings (see below) confirming cells 5,6 and 7 had suitable bunds for containing 2 metre leachate levels in each cell Drawing V-BIF-WEST-C7N-LMS-01 January 2012-12-17 Drawing C1202-12 dated 21 September 2012 Drawing C1108-7 dated 24 October 2011 Drawing 072004 dated 9 th July 2008 Drawing 072001 dated 21 May 2008	28/11/12
Additional information EPR/DP3431PC/V006	Operator confirmed update of permit conditions in line with the Industrial Emissions Directive.	26/02/201
Additional information (operators response to a draft schedule 5) EPR/DP3431PC/V005	Request for information response confirmed operating techniques for managing revised pre settlement levels to maintain appropriate settlement profiles Operator confirmed maintaining leachate management beyond 30 years to manage leachate source term until it declines.	29/10/201
Additional information EPR/DP3431PC/V006	confirmed that waste codes 19 03 06*, 19 03 07 will only be accepted at the site if prior to solidification they did not possess a hazardous property derived from dangerous substances other than oil derived hydrocarbons and were solidified by a permitted process using non-reacting binders such as clay.	04/03/201
Additional information EPR/DP3431PC/V006	Confirmed that waste codes 19-02-05* and 19 02 06 will only be accepted at the site in the form of road sweeping residues and gully suckings that have been processed prior to delivery.	07/02/2014
Additional information EPR/DP3431PC/V005	Email confirming implementation of odour management scenario A1 and A3.	07/03/201
Additional information EPR/DP3431PC/V005	Email confirming the low odour waste types for acceptance as part of scenario A1.	02/04/201
Additional information EPR/DP3431PC/V005	Confirmation of wastes streams to be accepted under waste code 20 03 01 as low odour wastes.	08/04/201

Reference	Requirement	Date
4	For the area edged in blue on the site plan in schedule 7 of this permit, the operator	Completed
1	shall submit a revised closure plan to the EA for written approval which incorporates	
	and addresses the document "Final Comment on Gas Risk Assessment Westmill I	
	migration along Westmill Road and EA comment on closure plan V2 April 2010 which	
	were provided to the operator on the 1 st of October 2010 in response to the Close	
	Plan V2 dated April 2010 and supplementary information '1st Response to EA	
	comments on Closure Plan for Westmill I.	
	For the area edged in blue on the site plan in schedule 7 of this permit, the operator	Completed
	shall submit a report on a review of the onsite management system and infrastructure	Completed
	at the Wesmtill I landfill site, the review shall consider the effectiveness and integrity	
	of the:	
	procedures and infrastructure in place to control and manage leachate	
	Procedures and infrastructure in place to control and manage groundwater	
	quality; and	
	procedures and infrastructure in place to control and monitor surface water	
	quality	
	Where issues are identified the operator shall include within the report a time-tables	
	plan for improvements	
	such improvements shall be implemented in line with the written approval	
	from the Environment Agency	
	For the area edged in blue on the site plan in schedule 7 of this permit, the operator	Completed
	shall submit a report detailing a survey on the cap (including the area known as Cell	
	0) to assess its effectiveness at controlling the ingress of air and rainwater into the	
	waste mass and escape of landfill gas in line with LFTGN03. Where the controls are	
	found to be insufficient then the operator shall propose a time-table program of	
	improvements to the landfill cap. The improvements shall be implemented in line with	
	the written approval from the Environment Agency	
	For the area edged in blue on the site plan in schedule of this permit, the operator	Completed
ļ	shall excavate the existing stockpiles of chalk and quarry materials placed over the	Complete
	temporary capped area to the western end of the southern slop to allow for permanent	
	capping of the waste materials	Commission
;	For the area edged on blue on the site plan in schedule 7 of this permit, the operator	Completed
	shall submit a CQA plan and design specification to the Environment Agency for	
	approval details the work to be cone to permanently cap the waste forming the	
	southern clop of cell 2 and 3. The proposed work must be in line with the condition	
	2.5.2 and current engineering standards outlined in LFE01 – LFE10. Particular	
	emphasis should be given to demonstrating that the slop stability is appropriate. The	
	operator shall also provide a proposed timetable for the completion of the work.	
	The work shall be completed in line with written agreement form the Environment	
	Agency	
	For the area edged in blue on the site plan in schedule 7 of this permit the operator	Completed
	shall undertake a detailed and accurate stability assessment for the northern and	
	southern revise slopes. The assessment must demonstrate that	
	a) a factor safety greater than 1.5 (for short, medium and long term for all	
	elements present within the slope will be achieved	
	b) design and permeability of the cover materials. Allow sufficient drainage	
	along the entire length of the slope., (relevant Ru value, to be agreed with	
	the Environment Agency)	

	1
 the shear strength, density and permeability of the proposed sub-soils and top-soils are such to be appropriate for the restoration work being undertaken. 	
The agree assessment shall be taken into consideration in the design of the final cap for the landfill	
For the area edge in blue on the site plan in schedule 7 of this permit, the operator shall submit a report to the Environment Agency detailing and in-depth audit of the landfill gas management system. The audit shall include but no be limit to: • An assessment of well distribution including zones of influence, • Status and serviceability; a dip survey; gas flow readings; suction pressure losses between gas well and manifold; gas well seal integrity assessment to determine if gas wells are operating appropriately, • Maintenance & balancing, • An assessment of the installed system against the requirements of LFTGN03 Where improvement to the landfill gas management system are required in line with LFTGN03 then the operator shall propose a time-tabled plan for such improvements shall be implemented in line with written approval from the Environment Agency.	Completed
For the are edged in blue on the site plan in schedule 7 of this permit, the operator shall carry out an investigation detailing methane and carbon dioxides levels in perimeter gas perimeter gas monitoring boreholes to determine the underlying cause of elevate levels by identifying and establishing the true source(s) of such gases and their potential migration pathways, this shall include but not be limited to: • A review of the historical site information to indentify if the perimeter gas monitoring borehole are being influence by other gas sources other than landfill gas • A review of the conceptual model to identify any feature that could affect gas migration including an assessment of barrier, pathways and construction of the monitoring boreholes. • A review of the historical monitoring data to establish predictive trends for gas concentration with the these monitoring boreholes, source identification shall be justified by appropriate trace gas analysis • The information obtained from IC 7 shall be used to determine extent to which the present gas infrastructure is contribution to the perimeter gas migration and shall include techniques to prevent or minimise gas migration at the perimeter of the site.	Completed
For the area edged in blue on the site plan in schedule 7 of this permit, the operator shall submit a landfill gas management improvement plan for approval by the Environment Agency which incorporate the following: • All improvement techniques, particular those related to the gas migration, with timescale for implementation. This shall include all action that area required to bring the gas management system in line with the requirement of LFTGN 03 r otherwise as agreed oin writing with the Environment Agency • Results of the investigation required by IC9, including recommendation with a timetable for implementation and further review • Revised gas management procured appropriate to the site setting and situation considering the sensitivity of the interface liner and ongoing gas migration. The operator shall derive appropriate compliance, assessment levels and monitoring	Completed
	top-soils are such to be appropriate for the restoration work being undertaken. The agree assessment shall be taken into consideration in the design of the final cap for the landfill For the area edge in blue on the site plan in schedule 7 of this permit, the operator shall submit a report to the Environment Agency detailing and in-depth audit of the landfill gas management system. The audit shall include but no be limit to: • An assessment of well distribution including zones of influence, • Status and serviceability; a dip survey; gas flow readings; suction pressure losses between gas well and manifold; gas well seal integrity assessment to determine if gas wells are operating appropriately, • Maintenance & balancing, • An assessment of the installed system against the requirements of LFTGN03 Where improvement to the landfill gas management system are required in line with LFTGN03 then the operator shall propose a time-tabled plan for such improvements shall be implemented in line with written approval from the Environment Agency. For the are edged in blue on the site plan in schedule 7 of this permit, the operator shall carry out an investigation detailing methane and carbon dioxides levels in perimeter gas perimeter gas monitoring boreholes to determine the underlying cause of elevate levels by identifying and establishing the true source(s) of such gases and their potential migration pathways, this shall include but not be limited to: • A review of the historical site information to indentify if the perimeter gas monitoring borehole are being influence by other gas sources other than landfill gas • A review of the conceptual model to identify any feature that could affect gas migration including an assessment of barrier, pathways and construction of the monitoring boreholes. • A review of the perimeter distribution is contribution to the perimeter gas migration and shall include techniques to prevent or minimise gas migration at the perimeter of the site. For the area edged in blue on the site plan

	frequency for monitoring boreholes for agreement. These levels shall be based upon the outcome of the investigation	
10	For the area edged in blue on the site plan in schedule 7 of this permit, the operator shall, conduct a detail investigation into the present of the subsurface fires and submit a report detailing the finding to the Environment Agency. This investigation and report shall be in accordance with the ICOP Management and Prevention of Sub-surface fires, and include • A desktop assessment of all relevant, available monitoring data. Evaluation for the need for additional monitoring points plus their installation. • A programme of monitoring form previously affected wells and additional point include temperature and combustion products/fire indicator including bag sampling where appropriate • A risk assessment based of the finding of the investigation showing the current risk from previous, existing and potential future occurrence of subsurface fires	Completed
11	The operator shall submit to the Environment Agency for written approval a consolidated HRA which is to cover the area outlined in green in schedule 7 of this permit. The HRA shall include a review of all ground water monitoring data for the site and shall suggest appropriate monitoring suites and trigger levels for contaminants to groundwater. Once the RA has been agreed in writing by the Environment Agency, the findings are to be incorporated into the permit monitoring schedules.	Completed
12	The operator shall submit to the Environment Agency for approval written details of the specific operating parameters for the biofilter and the optimal operating condition ranges which will be maintained.	3 months from commencem ent of operation of the Soil Treatment Facility.
13	The operator shall submit a written monitoring programme to the Environment Agency for approval. The monitoring programme shall contain proposals for; • Monitoring volatile organic compounds and odour emissions from the biofilter • Monitoring biofilter operating parameters The operator shall provide details of monitoring methods, monitoring frequency and dates for the implementation of any individual measures.	3 months from commencem ent of operation of the Soil Treatment Facility.
14	The operator shall submit to the Environment Agency for written approval a consolidated version of the site's management system. This document shall incorporate the most up to date versions of site's management plans, operating techniques and working plan.	3 months from issue of this variation

Table S1.4 Pre	e-operational measures
Reference	Pre – operational measures
1	At least 2 weeks prior to operation of the Soil Treatment Facility, the operator shall submit to the Environment Agency a report including a quantitative risk assessment for written approval demonstrating that the leachate treatment plant serving the landfill has the ability and capacity to effectively treat leachate from the Soil Treatment Facility.
2	At least 2 weeks prior to operation of the Soil Treatment Facility, the operator shall submit a review of the site's odour monitoring and management plan specifically related to the Soil Treatment Facility to the Environment Agency for written approval.
3	Prior to operation of the bioremediation process, the operator shall submit a methodology for the blending and mixing of wastes to the Environment Agency for written approval. The mixing and blending of hazardous and non-hazardous waste shall not commence until the Environment Agency has approved the methodology.
4	At least 2 weeks prior to sending any waste for landfill restoration, the operator shall submit a site specific risk assessment to the Environment Agency which demonstrates that treated waste will not impact on the local groundwater. Waste shall not be deposited at the site for restoration until the risk assessment has been agreed by the Environment Agency in writing.
5	At least 2 weeks prior to sending any residual waste for use as daily cover, the operator shall submit a report to the Environment Agency which demonstrates that the treated soils are acceptable to deposit at the landfill. Waste shall not be used for daily cover until the report has been agreed by the Environment Agency in writing.
6	The operator shall submit a Validation Report to the Environment Agency as soon as practicable following the construction of site infrastructure. The report shall summarise the environmental performance of the plant as installed against the design parameters set out in the Application. The report shall include a comprehensive record of the construction and must include, where relevant:
	Details of any changed to the approved design and justification for those changes;
	"As-built" plans and sections of the works;
	Records of any problems or non-compliance and the solution applied;
	 Any other site specific information considered relevant to proving the integrity of the construction;
	 Validation by a qualified person that all of the construction has been carried out in accordance with the construction proposals.
	A review of the performance of the facility against the conditions of this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions.
7	The operator shall review all risk assessments, management systems and procedure for wastes being accepted, treated and stored at the soil treatment facility.
	This review shall ensure that appropriate measures are taken when accepting, handling and storing the wastes, ensuring that all emissions are prevented, in line with Environment Agency guidance SGN 5.06. The Operator shall write to the Environment Agency to confirm that this review has been undertaken prior to the acceptance of waste at the soil treatment facility.

Table S1.4 Pre	Table S1.4 Pre-operational measures		
Reference	Pre – operational measures		
8	At least 2 weeks prior to operation of the Soil Treatment Facility the operator shall submit to the Environment Agency for written approval a gas risk assessment which investigates the potential for gas from Westmill 1 to migrate towards the soil treatment facility.		
	The assessment shall also review the need for gas management infrastructure at the site and submit proposals. For example:		
	 Installation of collections wells in the areas beneath or surrounding the soil treatment facility 		
	 Installation of collection infrastructure within the Westmill 1 to capture gas venting towards the landfill. 		
	Once approved the operator's proposals shall be implemented at the site within a timescale agreed with the Environment Agency		
9	Prior to implementing a 2 metre leachate level compliance limit, the operator shall demonstrate to the Environment Agency for each individual cell there are engineered bunds which provide sufficient freeboard to effectively contain leachate within individual landfill cells and obtain the Environment Agency's written confirmation the 2m head can be implemented [in that cell]' (freeboard being the distance between the leachate levels compliance limit and the height of the engineered bunds).		
10	At least 2 weeks prior to implementing 2 metre leachate head compliance limits in accordance with pre-operational condition 9,the operator shall submit to the Environment Agency a revised leachate management plan for written approval that includes the following:;		
	 information to demonstrate the leachate plant has the capacity to adequately treat the volumes of leachate to be generated and maintain the compliance limit of 2 metres; Leachate control levels with full justification of these levels in relation to compliance limits; and A contingency plan which demonstrates the actions to be taken upon a breach of a control level. 		
	The leachate management plan shall be implemented in accordance with the Environment Agency's written approval.		
11	Prior to depositing in any cell which has been subject to a thermal incident any further waste [other than inert waste] to meet the revised pre settlement profiles the operator shall submit a written report to demonstrate they have resolved the incident and have obtained the Environment Agency's written approval to the report		

Table S1.5A Annual waste input limits	
Category	Limit Tonnes/ Year
Non-hazardous waste	399,999
Inert waste including inert waste imported for restoration	No restriction

Table S1.5B Annual waste Input limits to the area edged in green on the site plan in Schedule 7 of this permit		
Category Limit Tonnes/Year		
Inert waste for restoration	Unlimited	
Inert Waste for engineering landfill infrastructure	Unlimited	

Schedule 2 – List of permitted wastes

Table S2.1 Pe	ermitted waste types	
Waste code	Description	
	✓ = low odour	
	R/A = low odour waste subject to risk assessment	
	N = not low odour	
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS	
01 01	wastes from mineral excavation	
01 01 01	wastes from mineral metalliferous excavation	✓
01 01 02	wastes from mineral non-metalliferous excavation	✓
01 03	wastes from physical and chemical processing of metalliferous minerals	
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05	✓
01 03 08	dusty and powdery wastes other than those mentioned in 01 03 07	✓
01 03 09	red mud from alumina production other than the wastes mentioned in 01 03 07	✓
01 04	wastes from physical and chemical processing of non-metalliferous minerals	
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07	✓
01 04 09	waste sand and clays	✓
01 04 10	dusty and powdery wastes other than those mentioned in 01 04 07	✓
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07	✓
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11	✓
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07	✓
01 05	drilling muds and other drilling wastes	
01 05 04	freshwater drilling muds and wastes	✓
01 05 07	barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06	✓
01 05 08	chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06	✓
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING	
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing	
02 01 01	sludges from washing and cleaning	N
02 01 02	animal-tissue waste	N
02 01 03	plant-tissue waste	RA
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	N
02 01 07	wastes from forestry	✓
02 01 09	agrochemical waste other than those mentioned in 02 01 08	RA
02 01 10	waste metal	✓
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin	
02 02 01	sludges from washing and cleaning	N

Table S2.1 Pe	ermitted waste types	
Waste code	Description	
	✓ = low odour	
	R/A = low odour waste subject to risk assessment	
	N = not low odour	
02 02 03	materials unsuitable for consumption or processing	RA
02 02 04	sludges from on-site effluent treatment	N
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	N
02 03 02	wastes from preserving agents	RA
02 03 03	wastes from solvent extraction	RA
02 03 04	materials unsuitable for consumption or processing	RA
02 03 05	sludges from on-site effluent treatment	N
02 04	wastes from sugar processing	
02 04 01	soil from cleaning and washing beet	RA
02 04 02	off-specification calcium carbonate	RA
02 04 03	sludges from on-site effluent treatment	N
02 05	wastes from the dairy products industry	
02 05 01	materials unsuitable for consumption or processing	RA
02 05 02	sludges from on-site effluent treatment	N
02 06	wastes from the baking and confectionery industry	
02 06 01	materials unsuitable for consumption or processing	RA
02 06 02	wastes from preserving agents	RA
02 06 03	sludges from on-site effluent treatment	N
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	RA
02 07 02	wastes from spirits distillation	RA
02 07 03	wastes from chemical treatment	RA
02 07 04	materials unsuitable for consumption or processing	RA
02 07 05	sludges from on-site effluent treatment	N
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)	N
03 03 05	de-inking sludges from paper recycling	N
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard	RA
03 03 08	wastes from sorting of paper and cardboard destined for recycling	RA
03 03 09	lime mud waste	RA
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation	N
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10	N

Waste code	Description	
waste code	✓ = low odour	
	R/A = low odour waste subject to risk assessment	
	N = not low odour	
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	RA
04 01 02	liming waste	RA
04 01 06	sludges, in particular from on-site effluent treatment containing chromium	N
04 01 07	sludges, in particular from on-site effluent treatment free of chromium	N
04 01 08	waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium	Υ
04 01 09	wastes from dressing and finishing	RA
04 02	wastes from the textile industry	
04 02 09	wastes from composite materials (impregnated textile, elastomer, plastomer)	RA
04 02 10	organic matter from natural products (for example grease, wax)	RA
04 02 15	wastes from finishing other than those mentioned in 04 02 14	RA
04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16	RA
04 02 20	sludges from on-site effluent treatment other than those mentioned in 04 02 19	N
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	N
05 01 13	boiler feedwater sludges	N
05 01 14	wastes from cooling columns	RA
05 06	wastes from the pyrolytic treatment of coal	
05 06 04	waste from cooling columns	RA
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	RA
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13	N
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17	RA
08 02	wastes from MFSU of other coatings (including ceramic materials)	
08 02 01	waste coating powders	RA
08 03	wastes from MFSU of printing inks	
08 03 15	ink sludges other than those mentioned in 08 03 14	N
08 03 18	waste printing toner other than those mentioned in 08 03 17	RA
08 04	wastes from MFSU of adhesives and sealants (including waterproofing products)	
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09	RA
08 04 12	adhesive and sealant sludges other than those mentioned in 08 04 11	N
10	WASTES FROM THERMAL PROCESSES	

Waste code	Description	
	✓ = low odour	
	R/A = low odour waste subject to risk assessment	
	N = not low odour	
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	RA
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form	N
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14	Υ
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	RA
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20	N
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	RA
10 02	wastes from the iron and steel industry	
10 02 01	wastes from the processing of slag	RA
10 02 02	unprocessed slag	RA
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07	RA
10 02 10	mill scales	RA
10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11	RA
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13	N
10 02 15	other sludges and filter cakes	N
10 03	wastes from aluminium thermal metallurgy	
10 03 02	anode scraps	RA
10 03 05	waste alumina	RA
10 03 16	skimmings other than those mentioned in 10 03 15	RA
10 03 18	carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17	RA
10 03 20	flue-gas dust other than those mentioned in 10 03 19	RA
10 03 22	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21	RA
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23	RA
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25	N
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27	RA
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29	RA
10 05	wastes from zinc thermal metallurgy	
10 05 01	slags from primary and secondary production	RA
10 05 04	other particulates and dust	Υ
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08	RA

Table S2.1 Pe	rmitted waste types	
Waste code	Description	
	✓ = low odour	
	R/A = low odour waste subject to risk assessment	
	N = not low odour	
10 05 11	dross and skimmings other than those mentioned in 10 05 10	RA
10 06	wastes from copper thermal metallurgy	_
10 06 01	slags from primary and secondary production	RA
10 06 02	dross and skimmings from primary and secondary production	RA
10 06 04	other particulates and dust	RA
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09	RA
10 07	wastes from silver, gold and platinum thermal metallurgy	
10 07 01	slags from primary and secondary production	RA
10 07 02	dross and skimmings from primary and secondary production	RA
10 07 03	solid wastes from gas treatment	RA
10 07 04	other particulates and dust	RA
10 07 05	sludges and filter cakes from gas treatment	N
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07	RA
10 08	wastes from other non-ferrous thermal metallurgy	
10 08 04	particulates and dust	RA
10 08 09	other slags	RA
10 08 11	dross and skimmings other than those mentioned in 10 08 10	RA
10 08 13	carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12	RA
10 08 14	anode scrap	RA
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	N
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19	RA
10 09	wastes from casting of ferrous pieces	
10 09 03	furnace slag	RA
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05	✓
10 09 08	casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07	√
10 09 10	flue-gas dust other than those mentioned in 10 09 09	✓
10 09 12	other particulates other than those mentioned in 10 09 11	✓
10 09 14	waste binders other than those mentioned in 10 09 13	✓
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15	✓
10 10	wastes from casting of non-ferrous pieces	
10 10 03	furnace slag	RA
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	✓

Table S2 1 Pc	ermitted waste types	
Waste code	Description	
waste code	✓ = low odour	
	R/A = low odour waste subject to risk assessment	
	N = not low odour	
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15	✓
10 11	wastes from manufacture of glass and glass products	
10 11 03	waste glass-based fibrous materials	✓
10 11 05	particulates and dust	✓
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09	✓
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	N
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	N
10 11 20	solid wastes from on-site effluent treatment other than those mentioned in 10 11 19	N
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	N
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	RA
10 12 12	wastes from glazing other than those mentioned in 10 12 11	✓
10 12 13	sludge from on-site effluent treatment	N
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them	
10 13 01	waste preparation mixture before thermal processing	✓
10 13 04	wastes from calcination and hydration of lime	RA
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)	√
10 13 07	sludges and filter cakes from gas treatment	N
10 13 10	wastes from asbestos-cement manufacture other than those mentioned in 10 13 09	Υ
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10	✓
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12	✓
10 13 14	waste concrete and concrete sludge	N
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDROMETALLURGY	
11 02	wastes from non-ferrous hydrometallurgical processes	
11 02 03	wastes from the production of anodes for aqueous electrolytical processes	RA
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05	RA
11 05	wastes from hot galvanising processes	
11 05 01	hard zinc	RA
11 05 02	zinc ash	RA

	rmitted waste types	
Waste code	Description	
	✓ = low odour	
	R/A = low odour waste subject to risk assessment	
12	N = not low odour WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL	
12	SURFACE TREATMENT OF METALS AND PLASTICS	
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics	
12 01 01	ferrous metal filings and turnings	√
12 01 02	ferrous metal dust and particles	✓
12 01 03	non-ferrous metal filings and turnings	Υ
12 01 04	non-ferrous metal dust and particles	· ·
12 01 05	plastics shavings and turnings	√
12 01 03	welding wastes	· ·
12 01 15		N
12 01 15	machining sludges other than those mentioned in 12 01 14 waste blasting material other than those mentioned in 12 01 16	N V
		V
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20	V
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	
15 01	packaging (including separately collected municipal packaging waste)	
15 01 01	paper and cardboard packaging	Υ
15 01 02	plastic packaging	· ·
15 01 02	wooden packaging	· ✓
15 01 04	metallic packaging	Y
15 01 04	composite packaging	
15 01 06		· ·
15 01 06	mixed packaging	· ·
15 01 07	glass packaging textile packaging	V
15 01 09 15 02		•
	absorbents, filter materials, wiping cloths and protective clothing	DA
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	RA
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	
10.04.00	maintenance (except 13, 14, 16 06 and 16 08)	
16 01 06	end-of-life vehicles, containing neither liquids nor other hazardous components	✓
16 01 12	brake pads other than those mentioned in 16 01 11	
16 01 16	tanks for liquefied gas	RA
16 01 17	ferrous metal	√
16 01 18	non-ferrous metal	√
16 01 19	plastic	√
16 01 20	glass	√
16 01 22	components not otherwise specified	✓
16 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	RA

Table S2.1 Pe	ermitted waste types	
Waste code	Description	
	✓ = low odour	
	R/A = low odour waste subject to risk assessment	
	N = not low odour	
16 08	spent catalysts	
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)	RA
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	RA
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03	RA
16 11 06	linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05	RA
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 01	concrete, bricks, tiles and ceramics	
17 01 01	concrete	✓
17 01 02	bricks	✓
17 01 03	tiles and ceramics	✓
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06*	✓
17 02	wood, glass and plastic	
17 02 01	wood	✓
17 02 02	glass	✓
17 02 03	plastic	✓
17 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 08	gypsum-based construction material	
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01	RA
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	√

Table S2.1 Pe	rmitted waste types	
Waste code	Description	
	✓ = low odour	
	R/A = low odour waste subject to risk assessment	
	N = not low odour	
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)	RA
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	RA
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE	
19	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 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	RA
19 05 02	non-composted fraction of animal and vegetable waste	RA
19 05 03	off-specification compost	RA
19 06	wastes from anaerobic treatment of waste	
19 06 04	digestate from anaerobic treatment of municipal waste	RA
19 06 06	digestate from anaerobic treatment of animal and vegetable waste	RA
19 08	wastes from waste water treatment plants not otherwise specified	
19 08 01	screenings	RA
19 08 02	waste from desanding	RA
19 08 05	sludges from treatment of urban waste water	N
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats	RA
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13	N
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	RA

Table S2.1 Pe	ermitted waste types	
Waste code	Description	
	✓ = low odour	
	R/A = low odour waste subject to risk assessment	
	N = not low odour	
19 09 02	sludges from water clarification	N
19 09 03	sludges from decarbonation	N
19 09 05	saturated or spent ion exchange resins	RA
19 09 06	sludges from regeneration of ion exchangers	N
19 10	wastes from shredding of metal-containing wastes	
19 10 01	iron and steel waste	RA
19 10 02	non-ferrous waste	RA
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	RA
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 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	RA
19 13	wastes from soil and groundwater remediation	
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01	RA
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03	N
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	N
20 01 10	clothes	✓
20 01 11	textiles	✓
20 01 25	edible oil and fat	RA
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27	RA
20 01 30	detergents other than those mentioned in 20 01 29	RA
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	√

Table S2.1 Pe	rmitted waste types	
Waste code	Description	
	✓ = low odour	
	R/A = low odour waste subject to risk assessment	
	N = not low odour	
20 01 99	(1) Other fractions not otherwise specified limited to 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.	(2) RA
20 02	garden and park wastes (including cemetery waste)	
20 02 01	biodegradable waste	N
20 02 02	soil and stones	✓
20 02 03	other non-biodegradable wastes	✓
20 03	other municipal wastes	
20 03 01	mixed municipal waste	RA
20 03 02	waste from markets	N
20 03 03	street-cleaning residues	У
20 03 04	septic tank sludge	N
20 03 06	waste from sewage cleaning	N
20 03 07	bulky waste	✓

	mitted waste types and quantities for providing restoration soils to the area edged in green in schedule 7 of this permit
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 02	wastes from mineral 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
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
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 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 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones

Table S2.3 Raw materials and fuels	
Raw materials and fuel description	Limit Tonnes/Year
Additives (bacterial growth and promotion)	50

Table S2.4 Permi	itted waste types and quantities for soil treatment (operation A3)
Maximum quantity	The total quantity of waste types in this table that can be accepted at the site shall be less than 30,000 tonnes per year
1	Exclusions - No liquid waste
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 05	drilling muds and other drilling wastes
01 05 05*	oil-containing drilling muds and wastes
01 05 06*	drilling muds and other drilling wastes containing dangerous substances
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 03*	soil and stones containing dangerous substances
17 05 05*	dredging spoil containing dangerous substances
17 05 07*	track ballast containing dangerous substances
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 05*	sludges from physico/chemical treatment containing dangerous substances
19 03	stabilised/solidified wastes
19 03 06*	waste marked as hazardous, solidified
19 13	wastes from soil and groundwater remediation
19 13 01*	solid wastes from soil remediation containing dangerous substances
19 13 03*	sludges from soil remediation containing dangerous substances

	Permitted waste types and quantities
Maximum	The total quantity of waste types in the this table that can be accepted at the site shall be less than 30,000 tonnes per year of non hazardous waste and 1,500 tonnes per year of non-
quantity	hazardous biodegradable waste, including garden and park wastes (including cemetery waste),
	wood from separately collection fractions of municipal waste and wood from the mechanical
	treatment of waste.
	Exclusions - No liquid waste
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL
	AND CHEMICAL TREATMENT OF MINERALS
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 09	waste sand and clays
01 05	drilling muds and other drilling wastes
01 05 04	freshwater drilling muds and wastes
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
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
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER
	TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 03	waste marked as hazardous, solidified
19 03 07	solidified wastes other than those mentioned in 19 03 06
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 01	screenings
19 08 02	waste from desanding
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 07	wood other than that mentioned in 19 12 06
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 38	wood other than that mentioned in 20 01 37
20 02	garden and park wastes (including cemetery waste)
	1
20 02 01	biodegradable waste
20 02 01 20 03 20 03 03	other municipal wastes street cleaning residues

Schedule 3 – Emissions and monitoring

Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
W2/C5LW1 W2/C5LM2, W2/C6LW1, W2/C6NLW1, W2/C7LW1, W2/C7NLW1 On plan Westmill Landfill Site Monitoring Infrastructure WK180107 dated 06/05/08 modified 28/03/14 and including all future wells in cells 8, 9 and 10	1m above cell base*	Monthly	In Accordance with Environment Agency document LFTGN 02 September 2004 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'
W2/C1LW1, W2/C1LM2, W2/C1LM3, W2/C2LW1, W2/C2LM3, W2/C3LW1, , W2/C3LM3, , W2/C4LM3, W2/C4LW1 On plan Westmill Landfill Site Monitoring Infrastructure WK180107 dated 06/05/08 modified 28/03/14	2 m above cell base		
W1/C0LWN, WL/C1LWS1, W1/C2LW1A. W1/C2LW3A, W1C3LWS1, W1/C3LWN1, W1/C3LM2, W1/C4LWS, W1/C4LM2A, On plan Westmill Landfill Site Monitoring Infrastructure WK180107 dated 06/05/08 modified 28/03/14	2 m above cell base		

^{*}Note - A compliance limit of 2m above the cell base shall apply for each cell upon completion of pre operational condition 9.

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
LFGE 1, LFGE 2,	Oxides of Nitrogen	Gas utilisation plant	500 mg/m ³	Hourly mean	Annually	As per M2, v 8.1 December 2011
commissioned after 31/12/05 As shown on plan WK036900 dated 13/09/12	Total VOCs		1400 mg/m ³ 1000 mg/m ³			
LFGE 3 commissioned	Oxides of Nitrogen	Gas utilisation plant	650 mg/m3	Hourly mean	Annually	As per M2, v 8.1 December 2011
between	СО		1500			
01/01/98 and 31/12/05	Total VOC's		1750	1		
Flare 1 and 2 As shown on	Oxides of Nitrogen	Landfill Gas Flares	150 mg/m ³	Hourly mean	Annually	As per M2, v 8.1 December
plan	СО		100 mg/m ³			2011
WK036900 dated 13/09/12	Total VOCs		10 mg/m ³			
	Operational Temperature		>1000°C			
Biofilter as reference in drawing 03 reference WK236400	As per those agreed as part of improvement conditions	Biofilter	As per those agreed as part of improvement conditions 13	As per those agreed as part of improvement conditions 13	As per those agreed as part of improvement conditions 13	As per those agreed as part of improvement conditions 13

Table S3.3 Point source emissions	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			
W2/lagoon discharge	Maximum Flow	Surface water	60 l/s	Continuous	Weekly	In accordance with Environment Agency			
On plan Westmill Landfill Site	Ammoniacal-Nitrogen	lagoon	0.5 mg/l	Spot Sample	Monthly	document LFTGN 02 September 2004			
Monitoring Infrastructure WK180107	Suspended Solids		50 mg/l	Spot Sample	Monthly	'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'			
dated 06/05/08 modified 28/03/14	Oil or Grease		No significant visible trace	Continuous	Daily	Gloundwater and Surface Water			

Table S3.4 Point source emissions to sewer, effluent treatment plant or by tankering or other transfer off-site- emission limits and monitoring requirements								
Emission point Ref. & Location	Parameter	Source	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method		
Leachate Treatment Plant	Volume	Main Process	110 l/s	Continuous	Weekly			
On Plan Surface Water Drainage and	Ammoniacal Nitrogen	Effluent	400 mg/l	Spot sample	Monthly	CEN: AB1234		
Environmental Monitoring, Drawing 10, dated	COD		1500 mg/l		Monthly			
17/08/2006	Sulphate		1800 mg/l		Monthly			
	Nickel		1.0 mg/l		Monthly			
	Zinc		3.0 mg/l		Monthly			

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W2/NW1	Ammoniacal-Nitrogen	0.5 (mg/l)	Spot Sample	Quarterly	In accordance with Environment Agency
	Chloride	55 (mg/l)			document LFTGN 02 September 2004
	Phenol	0.00005 (µg/l)			'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water
	Nickel	0.01 (µg/l)			Groundwater and Surface Water
	Mecoprop	0.0004 (mg/l)			
	Toluene	0.001(mg/l)			
	M/P-Xylene	0.001(mg/l)			
W2/NW2	Ammoniacal-Nitrogen	0.5 (mg/l)	Spot Sample	Quarterly	In accordance with Environment Agency
	Chloride	55 (mg/l)			document LFTGN 02 September 2004
	Phenol	0.00005 (µg/l)			'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water
	Nickel	0.01 (µg/l)			Groundwater and Surface water
	Mecoprop	0.0004(mg/l)			
	Toluene	0.001(mg/l)			
	M/P-Xylene	0.001(mg/l)			
W2/NW3	Ammoniacal-Nitrogen	0.5 (mg/l)	Spot Sample	Quarterly	
	Chloride	55 (mg/l)			
	Phenol	0.00005 (µg/l)			
	Nickel	0.01 (µg/l)			
	Mecoprop	0.0004 (mg/l)			
	Toluene	0.001(mg/l)			
	M/P-Xylene	0.001(mg/l)			
W2/NW4	Ammoniacal-Nitrogen	0.5 (mg/l)	Spot Sample	Quarterly	
	Chloride	170 (mg/l)			
	Phenol	0.00005 (µg/l)			
	Nickel	0.01 (µg/l)			
	Mecoprop	0.0004 (mg/l)			
W2/NW1, W2/NW2, W2/NW3,	Ammoniacal-Nitrogen	0.39 (mg/l)	Spot Sample	Quarterly	
W2/NW4, W2/NW5, W2/NW10	Chloride	100 (mg/l)			
Onsite pan HRA1b, dated	Cadmium ⁽¹⁾	0.0015 (mg/l)			
0/03/2009	Nickel	0.025 (mg/l)			

Table S3.5 Trigger levels for em Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring	Monitoring standard or method
Monitoring point reference	raiametei	Limit (including unit)	Kelefelice Fellou	frequency	Monitoring standard of method
	Mecoprop	To be set upon			
	Toluene	completion of			
	Xylene	improvement condition			
	Phenol				
W1/WM4	Ammoniacal-Nitrogen	0.39 (mg/l)	Spot Sample	Quarterly	
	Chloride	100 (mg/l)			
	Cadmium ⁽¹⁾	0.0015 (mg/l)			
	Nickel	0.025 (mg/l)			
W2/NW6	Ammoniacal-Nitrogen 0.39 (mg/l)	0.39 (mg/l)	Spot Sample	Quarterly	In accordance with Environment Agency document LFTGN 02 September 2004
On site plan HRA1b, dated	Chloride	150 (mg/l)			
10/03/2009	Cadmium ⁽¹⁾	0.0015 (mg/l)			'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water
	Nickel	0.025 (mg/l)			Gloundwater and Surface Water
	Mecoprop	To be set upon			
	Toluene	completion of			
	M/P-Xylene	improvement condition 11			
	Phenol				
W2/WM7	Ammoniacal-Nitrogen	0.39 (mg/l)	Spot Sample	Quarterly	
	Chloride	150 (mg/l)			
	Cadmium ⁽¹⁾	0.0015 (mg/l)			
ı	Nickel	0.025 (mg/l)			

Table S3.6 Landfill gas in external monitoring bore	holes – limits and monitorin	g requirements		
Monitoring point Ref. /description	Parameter	Limit (including units)*	Monitoring frequency	Monitoring standard or method
NG1, NG2, NG3, NG4, NG5, NG6, NG7, NG8, NG9,	Methane	1 %v/v	Monthly	As per LFTGN 07 September 2004 or as
NG10, NG11, NG12, NG13, NG14, NG15, NG16,	Carbon Dioxide	4.5 %v/v		otherwise agreed in writing by the Environment
NG17 identified on Plan Surface Water Drainage & Environmental Monitoring, Drawing No 10, dated	Oxygen	no limit		Agency.
17/08/06	Atmospheric pressure	no limit		
	Differential Pressure	no limit		
	Temperature	no limit		
	Meteorological data	no limit		
W1/GM01, W1/GM02, W1/GM03, W1/GM04, W1/GM05, W1/GM06, W1/GM10, W1/GM11,	Methane	Limit to be derived upon completion of IC9	Monthly	
W1/GM12, W1/GM13, W1/GM14, W1/GM15, W1/GM16, W1/GM17, W1/GM18, W1/GM19, W1/GM20, identified on Plan Surface Water	Carbon Dioxide	Limit to be derived upon completion of IC9		
Drainage & Environmental Monitoring, Draw2ing	Oxygen	no limit		
No10, dated 17/08/06	Atmospheric pressure	no limit		
	Differential Pressure	no limit		
	Temperature	no limit		
	Meteorological data	no limit		

^{* -} The limits specified take account of the agreed background concentrations as detailed in Westmill II Working Plan, dated April 2003

able S3.7 Landfill gas from capped surfaces - monitoring requirements								
Monitoring point Ref. /description	Parameter	Other specifications	Monitoring frequency	Monitoring Standard or method				
Permanently capped zone	Average methane flux and total methane emission	Where the average zone emission rate of 0.001 mg/m²/second is exceeded appropriate measures must be taken to reduce the rate.	As per LFTGN 07 September 2004*	As per LFTGN 07 September 2004 or as otherwise agreed in writing by the Environment Agency.				
Temporarily capped zone	Average methane flux and total methane emission	Where the average zone emission rate of 0.1 mg/m²/second is exceeded appropriate measures must be taken to reduce the rate.	As per LFTGN 07 September 2004*	As per LFTGN 07 September 2004 or as otherwise agreed in writing by the Environment Agency.				

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

		er eer	ASSITIED	
Table S3.8 Landfill gas – other mor	nitoring requirements			
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
In waste monitoring wells	Methane Carbon Dioxide Oxygen Carbon Monoxide Hydrogen sulphide Atmospheric pressure Differential pressure Meteorological Data	Monthly	The limits specified take account of the agreed background concentrations as detailed in Westmill II Working Plan, dated April 2003	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 undertaken.
Gas collection system at well control valve and manifolds on gas system	Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Differential pressure Gas flow rate % Balance Gas (calculated as the difference between the sum of measured gases and 100%) Valve setting	Fortnightly	In accordance with the Agency's guidance on the Management of Landfill Gas (LFTGN03)	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 undertaken.
Input to LFG Utilisation Compound	Trace gas analysis in accordance with LFTGN04.	Annually	In accordance with the Agency's guidance on the Management of Landfill Gas (LFTGN03)	The concentration of trace gas components shall be assessed against the assumptions made in the Landfill gas risk assessment and dispersion modelling.
Input to LFG Utilisation Compound	Methane Carbon Dioxide Oxygen Gas flow rate % Balance Gas (calculated as the difference between the sum measured gases and 100%)	Weekly	In accordance with the Agency's guidance on the Management of Landfill Gas (LFTGN03)	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.

	ONCLASSII ILD			
Table S3.9 Leachate – other monitoring requirements Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
W2/C1LW1, W2/C1LM2, W2/C1LM3, W2/C2LW1, , W2/C2LM3, W2/C3LW1, W2/C3LM3, W2/C4LW1, W2/C4LM3, , W2/C5LW1 W2/C5LM2, W2/C6LW1, W2/C6NLW1, W2/C7LW1, W2/C7NLW1 On site plan Westmill Landfill Site Monitoring Infrastructure WK180107 dated 06/05/08 modified 28/03/14 and including all future wells in cells 8, 9 and 10	pH, Temperature, EC, NH4-N, CI, BOD, COD, SO4, Alk, Ca, TON, TOC, K, Na, Mg, Ca,	Quarterly	In accordance with Environment Agency document LFTGN 02 September 2004 'Guidance on Monitoring of Landfill Leachate, Groundwater and	None
W2/C1LW1, W2/C1LM2, W2/C1LM3, W2/C2LW1, , W2/C2LM3, W2/C3LW1, W2/C3LM3, W2/C4LW1, W2/C4LM3, , W2/C5LW1 W2/C5LM2, W2/C6LW1, W2/C6NLW1, W2/C7LW1, W2/C7NLW1 On site plan Westmill Landfill Site Monitoring Infrastructure WK180107 dated 06/05/08 modified 28/03/14 and including all future wells in cells 8, 9 and 10	As, Fe, Mn, Cd, Cr, Cu, Ni, Pb, Zn, Cyanide (free), Cyanide (total), Hg*, Sb, Be, Se, Sulphide, PAH, VOC*, SVOC*, mecoprop*, dichlorvos*, Tributyl tin*	Annually	Surface Water'	
W2/C1LW1, W2/C1LM2, W2/C1LM3, W2/C2LW1, , W2/C2LM3, W2/C3LW1, W2/C3LM3, W2/C4LW1, W2/C4LM3, , W2/C5LW1 W2/C5LM2, W2/C6LW1, W2/C6NLW1, W2/C7LW1, W2/C7NLW1 On site plan Westmill Landfill Site Monitoring Infrastructure WK180107 dated 06/05/08 modified 28/03/14 and including all future wells in cells 8, 9 and 10	Monitoring point base Screen of hazardous substances	Annually		
W1/C0LWN, WL/C1LWS1, W1/C2LW1A. W1/C2LW3A, W1C3LWS1, W1/C3LWN1, W1/C3LM2, W1/C4LWS, W1/C4LM2A, On site plan Westmill Landfill Site Monitoring Infrastructure WK180107 dated 06/05/08 modified 28/03/14	pH, temperature, EC, NH4-N, Cl, BOD, COD, SO4, total Alkalinity, Ca, TON, TOC, K, Na, Mg, Ca,	Quarterly		
W1/C0LWN, WL/C1LWS1, W1/C2LW1A. W1/C2LW3A, W1C3LWS1, W1/C3LWN1, W1/C3LM2, W1/C4LWS, W1/C4LM2A, On site plan Westmill Landfill Site Monitoring Infrastructure WK180107 dated 06/05/08 modified 28/03/14	As, Fe, Mn, Cd, Cr, Cu, Ni, Pb, Zn, MCPP Cyanide (free and total), Sb, Be, Se, SO4, PAH Screen of hazardous substances Monitoring point base	Annually		
W1/C0LWN, WL/C1LWS1, W1/C2LW1A. W1/C2LW3A, W1C3LWS1, W1/C3LWN1, W1/C3LM2, W1/C4LWS, W1/C4LM2A, On site plan Westmill Landfill Site Monitoring Infrastructure WK180107 dated 06/05/08 modified 28/03/14	Hg, VOC's, semi VOC's, DDVP, tri-butyl tin	4 yearly		

Table S3.10 Surface water – other monitoring requirements							
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications			
W2/lagoon discharge On plan Westmill Landfill Site Monitoring Infrastructure WK180107 dated 06/05/08 modified 28/03/14	pH, EC, COD, CI	Quarterly	In accordance with Environment Agency document LFTGN 02 September 2004 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'	None			
W1/Cell 5 ditch, W1 Cell 2 dich, W1/Cell3 pipe On plan Westmill Landfill site, monitoring infrastructure, dated 06/05/2008	Temperature, DO, pH, EC, TSS, NH ₄ -N, TON, TOC, BOD,COD,CL						

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications		
W2/NM8, W2/NW9, W1/NM13 On plan Westmill Landfill Site, Monitoring Infrastructure, dated 06/05/2008	Water level, EC, Cl, pH, NH4-N,	Monthly	In accordance with Environment Agency document LFTGN 02 September 2004	None		
W2/NW1, W2/NW2, W2/NW3, W2/NW4, W2/NW5, W2/NW6,W2/NW8, W2/NW9, W2/NW10, W1/WM13 On plan Westmill Landfill Site, Monitoring Infrastructure, dated 06/05/2008 W2/NW1, W2/NW2, W2/NW3, W2/NW4, W1/WM4	Total Alkalinity, Ca, Mg, Na, K, SO4, Fe, Mn, Cr, Cu, Ni, Pb, NO ₃ -N, NO ₂ -N, PO ₄ , TON, and Zn Hazardous substances	Quarterly Annually	'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'			
W2/NW5, W2/NW6, W1/WM7, W2/NW8, W2/NW9, W2/NW10, W1/WM11, W1/WM12, W1/WM13 On plan Westmill Landfill Site, Monitoring Infrastructure, dated 06/05/2008	Monitoring point base	, and any				
W1/WM4,W1WM7,W1WM11,W1/WM12 On plan Westmill Landfill Site, Monitoring Infrastructure, dated 06/05/2008	Water level, Temparature, EC, NH ₄ -N, CI,TON, TOC,COD, SO ₄ , Total Alkalinity (as CaCO ₃ at pH 4.5), Na, K, Ca, Mg, Fe, Mn	Quarterly				
W1/WM4,W1WM7,W1WM11,W1/WM12 On plan Westmill Landfill Site, Monitoring Infrastructure, dated 06/05/2008	As, Cd, Cr, Cu , Ni, Pb, Zn Hazardous Substances Monitoring Point Bases	Annually				

Table S3.12 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
A1 – biofilter as shown on Drawing 03 (soil repair centre – drainage and site infrastructure)	Temperature Moisture content Flow rate Nutrient levels Contaminant elimination	As per frequencies agreed as part of improvement conditions 13	As per monitoring standard agreed as part of Improvement conditions 13	Biofilter shall be checked and maintained to ensure appropriate temperature and moisture content on a daily basis. Monitoring equipment shall be available on-site and used as required to ensure compliance with this permit.

Table S3.13 Other Monitoring requirements – contaminated soil				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Soil biopiles	Total Petroleum Hydrocarbons (TPH) Polycyclic Aromatic Hydrocarbons (PAH's) Pentachlorophenol (PCP) Note 1 Total Volatile Organic Compounds (VOC's) Phenols pH	Each completed batch of treated soil shall be sampled	-	Laboratory must be accredited to EN ISO/IEC ISO17025:2000 for the analysis specified Samples to be obtained using standard sampling procedures as per BS 812

Note 1: Only if PCP contaminated soils are received for treatment

Schedule 4 - Reporting

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

Parameter	Emission or monitoring	Reporting	Period begins
	point/reference	period	
Leachate levels As required by condition 3.5.1	W2/C1LW1, W2/C1LM2, W2/C1LM3, W2/C2LW1, W2/C2LM3, W2/C3LW1, W2/C3LM3, W2/C4LW1, W2/C4LM3, W2/C5LW1, W2/C5LM2, W2/C6NLW1, W2/C7LW1, W2/C7NLW1 W1/C0LWN, W1/C1LWS1, W1/C2LW3A, W1/C3LWS1, W1/C3LWN1,	Every 3 months	1 January
	W1/C3LM2,W1/C4LWS, W1/C4LM2A,		
Emissions to air Parameters as required by condition 3.5.1	LFGE1, LFGE2, LFGE3, LFGF1, LFGF2, Biofilter	Every 12 months	1 January
Emissions to water	W2/lagoon discharge	Every 3 months	1 January
Parameters as required by condition 3.5.1			
Emissions to sewer, effluent treatment plant, etc. Parameters as required by condition 3.5.1	Leachate Treatment Plant	Every 3 months	1 January
Groundwater Parameters as required by condition 3.5.1	W2/NW1, W2/NW2, W2/NW3, W2/NW4, W1/WM4, W2/NW5, W2/NW6, W1/WM7, W2/NW10	Every 3 Months	1 January
Landfill gas lateral migration Parameters as required by condition 3.5.1	NG1, NG2, NG3, NG4, NG5, NG6, NG7, NG8, NG9, NG10, NG11, NG12, NG13, NG14, NG15, NG16, NG17, W1/GM01, W1/GM02, W1/GM05, W1/GM05, W1/GM06, W1/GM10, W1/GM11, W1/GM12, W1/GM13, W1/GM14, W1/GM15, W1/GM16, W1/GM17, W1/GM18, W1/GM19, W1/GM19, W1/GM20	Every 3 months	1 January
Landfill gas surface emissions Parameters as required by condition 3.5.1	Permanently capped zone, temporary capped zone	Every 12 months	1 January

Table S4.1 Reporting of monito	ring data		
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Other Landfill gas monitoring Parameters as required by	In waste monitoring wells	Every 3 months	1 January
condition 3.5.1 Trace gases	Input to LFG Utilisation Compound	Annually	
Other leachate monitoring Parameters as required by condition 3.5.1	W2/C1LW1, W2/C1LM2, W2/C1LM3, W2/C2LW1, W2/C2LM3, W2/C3LW1, W2/C3LM3, W2/C4LW1, W2/C4LM3, W2/C5LW1, W2/C5LM2, W2/C6LW1, W2/C6NLW1,W2/C7LW, W2/C7NLW1 W1/C0LWN, WL/C1LWS, W1/C2LW1A. W1/C2LW3A, W1C3LWS1, W1/C3LWN1, W1/C3LM2, W1/C4LWS, W1/C4LM2A,	Every 3 months	1 January
Hazardous substances Screen Monitoring point base		Annually Annually	
Other surface water monitoring Parameters as required by condition 3.5.1	W2/lagoon discharge, W1Cell 5 ditch, W1/Cell 2 ditch, W1/Cell 3 pipe	Every 3 months	1 January
Other groundwater monitoring Parameters as required by condition 3.5.1 Hazardous substances screen Monitoring point base	W2/NW1, W2/NW2, W2/NW3, W2/NW4, W1/WM4, W2/NW5, W2/NW6, W1/WM7, W2/NW8, W2/NW9, W2/NW10, W1WM11, W1WM12, W1WM13	Every 12 months	1 January
Other monitoring requirements – contaminated soils Parameters as required by condition 3.5.1.	Biopile – Composite soil sample Total Petroleum Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAHs), Pentachlorophenol (PCP) (see Note 1), Total Volatile Organic Compounds (VOC's), Phenols and pH.	Every 3 months	1 January, 1 April, 1 July, 1 October
Process monitoring requirements Parameters as required by condition 3.5.1.	Biofilter - moisture content, flow rate, nutrient levels, contaminant elimination.	Every 3 months	1 January, 1 April, 1 July, 1 October

Note 1: Only if PCP contaminated soils are treated at STF.

Table S4.2: Annual production/treatment	
Leachate:	Cubic metres/year
Disposed of offsite;	
Disposed of to any onsite effluent treatment plant;	
Recirculated into the waste mass.	
Surface water and/ or groundwater:	Cubic metres/year
Disposed of offsite;	
Disposed of to any onsite effluent treatment plant.	
Landfill gas:	Normalised cubic metres/year
combustion in flares;	
combustion in gas engines;	
Other methods of gas utilisation.	

Table S4.3 Performance parameters			
Parameter	Frequency of assessment	Units	
Energy usage	Annually	MWh	
Water usage	Annually	tonnes	

Table S4.4 Reporting Forms			
Media/parameter	Reporting Format	Date of Form	
Leachate	Form leachate 1 or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY	
Air	Form Air 1 or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY	
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY	
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY	
Sewer	Form Sewer 1 or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY	
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY	
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY	
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY	
Waste Return	Waste Return Form RATS2E	DD/MM/YY	
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	DD/MM/YY	
Processing monitoring	Reporting format to be agreed in writing with the Agency	DD/MM/YY	

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	any malfunction, breakdown or failure of equipment or techniques,
accident, or emission of a substa	nce not controlled by an emission limit which has caused, is
causing or may cause significant	pollution
To b	e 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 t	the breach of a limit

(b) Notification requirements for the breach of a limit			
To be notified within 24 hours of detection unless otherwise specified below			
Emission point reference/ source			
Parameter(s)			
Limit			
Measured value and uncertainty			
Date and time of monitoring			
Measures taken, or intended to			
be taken, to stop the emission			

(c) Notification requirements for the	he detection of	any significant adverse en	vironmental effect
To be	e notified within	24 hours of detection	
Description of where the effect on			
the environment was detected			
Substances(s) detected			
Concentrations of substances			
detected	<u> </u>		
Date of monitoring/sampling			
Part B to be supplied a	s soon as i	oracticable	
	•	T	
Any more accurate information on the	ne matters for		
notification under Part A.			
Measures taken, or intended to be t			
prevent a recurrence of the incident			
Measures taken, or intended to be t	· ·		
limit or prevent any pollution of the			
which has been or may be caused by the emission The datas of any way with size of any incidence from the			
The dates of any unauthorised emissions from the facility in the preceding 24 months.			
racinty in the preceding 24 months.			
Г		T	
Name*			
Post			
Signature			

Notification period

Time periods for notification following detection of a breach of a limit

Parameter

Date

^{*} authorised to sign on behalf of Biffa Waste Services Limited

Schedule 6 - Interpretation

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

"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.

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

"emissions to land" includes emissions to groundwater.

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

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

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

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

"hazardous property" has the meaning given in Schedule 3 of the Hazardous Waste (England and Wales) Regulations 2005 No. 894 and the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138).

"Industrial Emissions Directive" means DIRECTIVE 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions.

"Landfill Infrastructure" means any specified element of the:

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

- · landfill gas monitoring boreholes;
- landfill gas management systems;
- lining within the installation.

within the site.

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

"LFTGN 05" means Environment Agency Guidance for monitoring enclosed landfill gas flares, September 2004.

"LFTGN 08" means Environment Agency Guidance for monitoring landfill gas engines, September 2004.

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

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

"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.

EPR/DP3431PC/V005

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

"Pests" means Birds, Vermin and Insects.

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

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

"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.

"STF" means Soil Treatment Facility

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

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

"year" means calendar year ending 31 December.

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

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

Schedule 7 - Site Plan

