



ENVIRONMENT
AGENCY

Variation Notice with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

WRG Waste Services Limited
Bletchley Landfill Site
Bletchley Road
Newton Longville
Milton Keynes
Buckinghamshire
MK17 0AD

Variation Notice number
GP3339MS

Permit number
BM4635IH

Installation Name

Permit Number BM4635IH

Introductory note

This introductory note does not form a part of the permit

The following notice is issued under regulation 17 of The Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No. 1973 (as amended) (the Regulations) to vary the conditions of a permit issued under the Regulations to operate an installation. The notice comprises schedule 1 containing conditions to be deleted, schedule 2 conditions to be amended and schedule 3 conditions to be added.

The effect of this variation is to delete all the existing conditions and replace these with the set of conditions in line with the new PPC permit template for landfill (version 4.)

There are no substantial changes as a result of this permit.

Status Log of the permit

Detail	Date	Response Date
Application BM4635IH	Received 20/05/2003	
Permit determined	21/07/2004	
Application for variation	Received 12/07/2005	Not duly made upon receipt
Request for additional fee	08/08/2005	11/09/2005
Request for additional information	31/8/2005	Responses dated 13/09/2005 and 17/10/2005
Variation NP3431SB issued	18/01/2006	
Variation VP3536SY issued	10/02/2006	
Variation GP3339MS issued	22/12/2006	

Superseded Licenses/Consents/Authorisations relating to this installation

Holder	Reference Number	Date of Issue
Shanks Waste Services Limited	Waste Management Licence Number WDA 201 (EAWML70075)	03/10/1983
Shanks Waste Services Limited	EAWML75055	30/10/2000

End of Introductory Note

Variation Notice

Pollution Prevention and Control
(England and Wales) Regulations 2000

Variation Notice

Permit number

BM4635IH

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GP3339MS

The Environment Agency (the Agency) in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) hereby varies the permit held by you

WRG Waste Services Limited,

("the operator"),

Whose Registered Office is

Ground Floor West

900 Pavilion Drive

Northampton Business Park

Northampton

NN4 7RG

Company registration number 988844

to operate an installation at:

Bletchley Landfill Site

Bletchley Road

Newton Longville

Milton Keynes

MK17 0AD

to the extent set out in schedules 1 to 3 of this variation notice.

The notice shall take effect from 00.01 hours on 23rd December 2006

Signed

Date

	22 nd December 2006
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Tom Ruffell

Authorised to sign on behalf of the Agency

SCHEDULE 1 – CONDITIONS TO BE DELETED

1. All conditions and schedules are deleted

SCHEDULE 2 – CONDITIONS TO BE AMENDED

2. None

SCHEDULE 3 – CONDITIONS TO BE ADDED

3. The following conditions and schedules are added to the permit:

Conditions

1. Management

1.1 General management

1.1.1 The activities shall be managed and operated:

- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the operator as a result of complaints; and
- (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.

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.

1.2 Accidents that may cause pollution

1.2.1 The operator shall:

- (a) maintain and implement an accident management plan;
- (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
- (c) make any appropriate changes to the plan identified by a review.

1.3 Finance

1.3.1 The financial provision for meeting the obligations under this Permit shall be as set out in the Deed of Performance dated 5 October 2004 between the Waste Recycling Group Limited and the Agency. This provision shall be maintained throughout the subsistence of this permit and the operator shall produce evidence of such provision whenever required by the Agency. The operator shall accordingly ensure that the Permit is and remains throughout its subsistence listed under Schedule 2 of that Deed as being a Permit to which the Deed relates.

1.3.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover the cost of operating the landfill, as far as possible the cost of the financial provision required by condition 1.3.1 and the estimated costs for the closure and aftercare of the landfill.

1.4 Energy efficiency

1.4.1 The operator shall:

- (a) Review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (b) Implement any appropriate measures identified by a review.

1.5 Site security

1.5.1 Site security measures shall prevent unauthorised access to the site, as far as practicable.

2. Operations

2.1 Permitted activities

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

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in red on the site plan at schedule 2 to this permit.

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1 table S1.2, unless otherwise agreed in writing by the Agency.

2.4 Off-site conditions

2.4.1 The operator shall, unless otherwise agreed in writing by the Agency, undertake the monitoring specified in the following tables in schedule 4 to this permit:

- (a) groundwater specified in table S4.3
- (b) landfill gas specified in table S4.4

2.5 Improvement programme

2.5.1 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 Agency.

- 2.5.2 Except in the case of an improvement which consists only of a submission to the Agency, the operator shall notify the Agency within 14 days of completion of each improvement.

2.6 Pre-operational conditions

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

2.7 Engineering

- 2.7.1 No construction of any new cell shall commence until the operator has submitted construction proposals and the Agency has confirmed that it is satisfied with the construction proposals.
- 2.7.2 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 Agency.
- 2.7.3 No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and the Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.7.4 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 Agency has confirmed that it is satisfied with the construction proposals.
- 2.7.5 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 Agency.
- 2.7.6 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant landfill Infrastructure.
- 2.7.7 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.7.4 and 2.7.5 do not apply and the relevant landfill Infrastructure may be constructed, provided that the construction proposals are submitted to the Agency as soon as practicable.
- 2.7.8 For the purposes of conditions 2.7.1, 2.7.3 and 2.7.4, the Agency shall be deemed to be satisfied where it has not, within the period of 4 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.

2.8 Waste acceptance

- 2.8.1 Wastes shall only be accepted for disposal if:

- (a) they are listed in schedule 3, and
- (b) they are non- hazardous waste or asbestos and construction materials containing asbestos, and
- (c) they are not whole used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm), and
- (d) they are not shredded used tyres, and
- (e) they are not liquid waste (including waste waters but excluding sludge), and
- (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 set out in schedule 1 of the Landfill Regulations 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) from 30th October 2007 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.
- (k) any code beginning with 07 05 and 16 03 shall exclude waste medicinal products and pharmaceutically active waste materials arising from their manufacture.

2.8.2 Asbestos waste and construction material containing asbestos shall only be disposed of in cells dedicated to those wastes. Asbestos waste and construction material containing asbestos must meet the relevant waste acceptance criteria and must be covered daily and before each compaction operation with appropriate material. No other waste shall be disposed of in the self-contained cell.

2.8.3 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.

2.8.4 Where the operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.

2.8.5 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.

2.8.6 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing S.2003/BT/PPC2.

2.8.7 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.5.

- 2.8.8 The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or recovery and of the identity of the producer, or in the case of municipal waste and multiple collection vehicles, of the collector of such waste. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.
- 2.8.9 The operator shall maintain and implement a system to record the disposal location of any hazardous waste.

2.9 Leachate levels

- 2.9.1 The limits for the level of leachate listed in schedule 4 table S4.1 shall not be exceeded.

2.10 Closure, aftercare and decommissioning

- 2.10.1 The operator shall maintain and operate the activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.
- 2.10.2 The operator shall maintain a site closure plan which demonstrates how the activities can be decommissioned to avoid any pollution risk and return the site of operation to a satisfactory state.
- 2.10.3 The operator shall carry out and record a review of the site closure plan at least every 4 years.
- 2.10.4 The site closure plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the activities or part thereof.

2.11 Site protection and monitoring programme

- 2.11.1 The operator shall, within 6 months of the issue of this permit, submit a Site Protection and Monitoring Programme.
- 2.11.2 The operator shall implement and maintain the Site Protection and Monitoring Programme in relation to all areas which will not comprise permanent deposits of waste and shall carry out and record a review of it at least every 4 years commencing from the date the Site Protection and Monitoring Programme was received.

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 4 table S4.2.
- 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 Agency guidance LFTGN 05 and LFTGN 08.

3.2 Emissions to groundwater

- 3.2.1 There shall be no emission from the activities into groundwater of any substance in List I (as defined by the Groundwater Regulations) contrary to those regulations.
- 3.2.2 There shall be no emission from the activities into groundwater of any substance in List II (as defined in the Groundwater Regulations) so as to cause pollution (as defined in those regulations).
- 3.2.3 The trigger levels for emissions into groundwater for the parameters and monitoring points set out in schedule 4 Table S4.3 shall not be exceeded.
- 3.2.4 The operator shall submit to the Agency a review of the Hydrogeological Risk Assessment:
 - (a) between 9 and 6 months prior to the fourth anniversary of the granting of the permit, and
 - (b) between 9 and 6 months prior to every subsequent 4 years after the fourth anniversary of the granting of the permit.

3.3 Fugitive emissions of substances

- 3.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.3.2 Litter or mud arising from the activities shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures have been used to prevent or where that is not practicable to minimise, the litter and mud.
- 3.3.3 Litter or mud arising from the activities shall be cleared from affected areas outside the site as soon as practicable.
- 3.3.4 All liquids, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.
- 3.3.5 The limits for landfill gas arising from the installation set out in schedule 4, tables S4.4 and S4.6, shall not be exceeded.

3.4 Odour

- 3.4.1 Emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the odour.

3.5 Noise and vibration

- 3.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the noise and vibration.

3.6 Monitoring

- 3.6.1 The operator shall, unless otherwise agreed in writing by the Agency, undertake the monitoring specified in the following tables in schedule 4 to this permit:
- (a) Leachate specified in tables S4.1 and S4.7;
 - (b) Point source emissions specified in tables S4.2;
 - (c) Groundwater specified in tables S4.3;
 - (d) Landfill gas specified in tables S4.4, S4.5, S4.6 and S4.8;
- 3.6.2 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.
- 3.6.3 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.
- 3.6.4 Within 10 months of the issue of this permit (unless otherwise agreed in writing by the Agency) the site reference data identified in the Site Protection and Monitoring Programme shall be collected and submitted to the Agency.

3.7 Transfers off-site

- 3.7.1 Records of all the wastes sent off site from the activities, for either disposal or recovery, shall be maintained.

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 Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) the results of groundwater monitoring;
 - (ii) the Site Protection and Monitoring Programme;
 - (iii) ambient air monitoring for landfill gas and particulate matter;
 - (iv) sub-surface landfill gas monitoring;
 - (v) leachate levels, quality and quantities;
 - (vi) landfill gas generation and collection;
 - (vii) waste types and quantities;
 - (viii) topographical surveys; and
 - (ix) the location of hazardous waste deposits; and
 - (x) the specification and as built drawings of the basal, sidewall and capping engineering systems

4.1.2 Any records required to be made by this permit shall be supplied to the Agency within 14 days where the records have been requested in writing by the Agency.

4.1.3 All records required to be held by this permit shall be held on site (or other location as agreed in writing with the Environment Agency) and shall be available for inspection by the Agency at any reasonable time.

4.2 Reporting

4.2.1 A report or reports on the performance of the activities over the previous year shall be submitted to the Agency by 31 January (or other date agreed in writing by the 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 with the application;
- (b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
- (c) the energy consumed at the site, reported in the format set out in schedule 5 table S5.3
- (d) the water consumed at the site, reported in the format set out in schedule 5 table S5.3;
- (e) the annual production/treatment set out in schedule 5 table S5.2;
- (f) details of any contamination or decontamination of the site which has occurred;
- (g) the topographical surveys required by condition 3.6.3 other than those submitted as part of a CQA validation report;

- (h) 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;
 - (i) 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;
 - (j) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
 - (k) the compliance testing undertaken in the period;
- 4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the 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 5 Table S5.1;
 - (b) for the reporting periods specified in schedule 5 Table S5.1 and using the forms specified in schedule 5 Table S5.4; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.3 A summary report of the waste types and quantities accepted and removed from the site shall be made for each quarter. It shall be submitted to the Agency within one month of the end of the quarter and shall be in the format required by the Agency.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency
- 4.2.6 The results of reviews and any changes made to the Site Protection and Monitoring Programme shall be reported to the Agency, within 1 month of the review or change.

4.3 Notifications

- 4.3.1 The Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit;
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 6 to this permit within the time period specified in that schedule.
- 4.3.3. Prior written notification shall be given to the Agency of the following events and in the specified timescales:

- (a) as soon as practicable prior to the permanent cessation of any of the permitted activities;
 - (b) as soon as practicable prior to the cessation of the landfill disposal activities, for a period likely to exceed 1 month; and
 - (c) at least 7 days prior to the resumption of the landfill disposal activities after a cessation notified under (b) above.
- 4.3.4 The Agency shall be given at least 14 days notice before implementation of any part of the site closure plan in respect of any activities other than the disposal of waste in the landfill.
- 4.3.5 Where the 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 Agency when the relevant monitoring is to take place. The operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 The Agency shall be notified within 7 days of any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence.
- 4.3.7 The Agency shall be provided, within 14 days of the operator or any relevant person being convicted of a relevant offence, (unless such information has already been notified to the Agency), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.
- 4.3.8 The Agency shall be notified within 14 days of the operator and/or any relevant person lodging an appeal against a conviction for any relevant offence and of the outcome when the appeal is decided.
- 4.3.9 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- (a) any change in the operator's trading name, registered name or registered office address;
 - (b) any change to particulars of the operator's ultimate holding company (including details of an ultimate holding company where an operator has become a subsidiary); and
 - (c) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 7 shall have the meaning given in that schedule.

Schedule 1 - Operations

Table S1.1 Activities

Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
Section 5.2 Part A(1) (a), The disposal of waste in a landfill.	Landfill for non-hazardous waste (landfill classification under the Landfill Regulations 2002)	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.8, as an integral part of landfilling.
Section 1.1, Part A(1)(b)(iii), Burning of waste as a fuel	Utilisation of landfill gas for energy recovery in an appliance with a rated thermal input of ≥ 3 MW, but < 50 MW.	Landfill gas arising from the landfill.
Directly Associated Activity		
Leachate management	Storage and re-circulation of leachate prior to disposal off-site	Leachate arising from the landfill.
Landfill gas flaring	Flaring of landfill gas for disposal in an appliance.	Landfill gas arising from the landfill.

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to questions 1.2.24, 1.2.25, 2.1, 2.2, 2.3, 2.4 and 2.5 in part B of the Application Form excluding: <ul style="list-style-type: none"> The reference to Appendix C in the answer to Question 2.2.4 The answer to Question 2.2.6 The answer to Question 2.3.8 given on Page 44c only The answer to Question 2.3.9 given on page 45c only The answers to Question 2.3.11 given on Pages 45a and 45c only Within the answers to Question 2.3.29 the reference 'Attachment 2.3.29 1 of 2' The answers to Question 2.3.40 The answer to Question 2.3.48 The answer to Question 2.3.49 The answers to Question 2.3.50 (excluding the monitoring point location reference) The answers to Question 2.3.51 The answers to Question 2.3.52 The answer to Question 2.4.9 	20/05/03
Document	Tables 1 and 2 only of the Document entitled 'Bletchley Landfill Site-Waste List for sub-cells on and after 16 th July 2004'	11/05/04
Document	Document entitled 'Shanks Waste Services Limited, Bletchley Landfill Site, Stable Non-Reactive Hazardous Cell Design, May 2004.'	11/05/04
Document	Document entitled 'Dispersion Modelling from a Landfill Gas Fuelled Power Station and Associated Flares' – October 2004	26/10/04
Document	Bletchley Landfill Site Leachate Management Plan – December 2005 Review, including the interim assessment levels for 2006 given in Table 4.4 and the Leachate Contingency Action Plan.	30/01/06
Letter	Letter dated 02/08/05 from WRG re: Bletchley Landfill Site Leachate Management Plan. Details what should be included in the annual Leachate Management Plan Review.	August 2005
Email	Email addendum dated 28/02/06 from Nick Rukin re: Bletchley Landfill Site Leachate Management Plan – December 2005 Review	28/02/06
Letter and Document	Letter and attached Surface Water Monitoring Plan – dated 25/08/04	31/08/04
Letter and Document	Letter dated 27/07/04 and attached CQA Plan for the installation of groundwater monitoring boreholes at Bletchley Landfill Site.	July 2004
Letter	Letter dated 20/10/04 from WRG re: CQA Plan	October 2004
Document	Bletchley Landfill Site: Auto-thermal Desorption Tube Methodology dated 19/01/2006	January 2006
	Site Protection and Monitoring Plan	

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
1	A review of the leachate management plan shall be submitted to the Agency for written approval. This shall include final compliance limits for Areas A2, B, B1, B2, C1, C1N, C2 and C2N equivalent to the external piezometric head for the Kellaways Sand.	01/02/2010

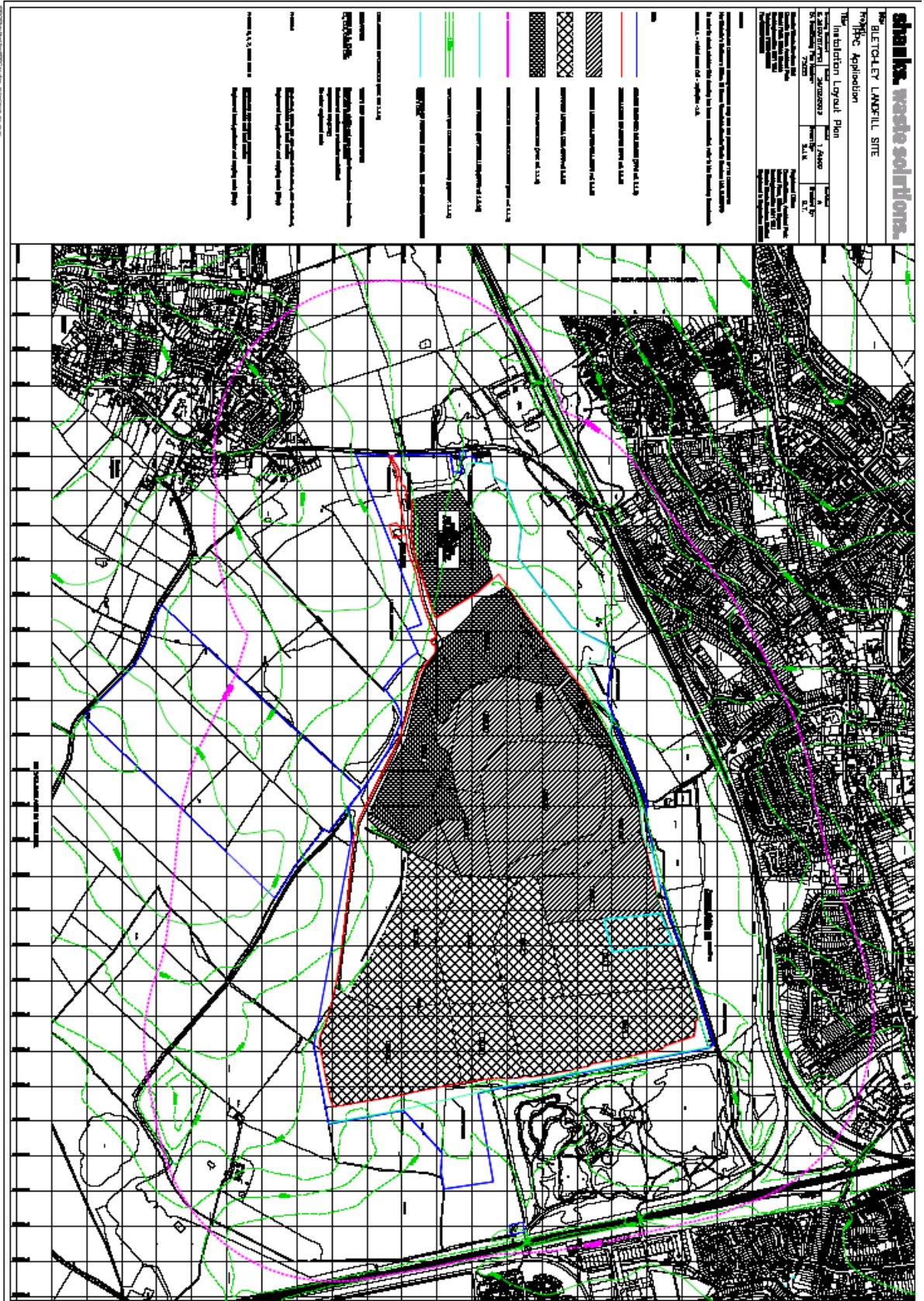
Table S1.4 Pre-operational measures for future development

Reference	Operation	Pre-operational Measures
1	Asbestos Cell	<p>No asbestos (or construction material containing asbestos) shall be deposited in the asbestos cell unless the following have been submitted to, and approved in writing by, the Agency:</p> <ol style="list-style-type: none"> 1. A procedure for the receipt and handling of wastes into that cell. 2. An asbestos fibres monitoring plan. The monitoring plan shall include, but need not be restricted to: <ul style="list-style-type: none"> • a monitoring methodology (in accordance with the methods given in Agency guidance 'M17 – Monitoring of particulate mater in ambient air around waste facilities'), • background concentration of fibres and fibre concentration within the cell • location of monitoring points, and • an asbestos fibres action plan. 3. A landfill gas monitoring plan for the asbestos cell which shall include, but need not be restricted to, the following elements: <p>number and location of gas monitoring boreholes, details of the gases to be monitored from those boreholes, the monitoring techniques, monitoring frequency, compliance limits and action plan, along with data management and reporting procedures.</p> 4. Leachate monitoring plan for asbestos fibres analysis which shall include, but need not be restricted to: <p>monitoring methodology, location of monitoring points, analysis methods, compliance values and a contingency action plan.</p>

Table S1.5 Annual waste input limits

Category	Limit Tonnes/ Year
Non-hazardous waste	4,600,000
Inert waste	700,000
Asbestos waste and construction material containing asbestos	50,000

Schedule 2 - Site plan



Schedule 3 - List of permitted wastes

01 WASTES RESULTING FROM EXPLORATION, MINING, DRESSING AND FURTHER 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 04 Wastes from further physical and chemical processing on 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 AGRICULTURAL, HORTICULTURAL, HUNTING, FISHING AND AQUACULTURAL PRIMARY PRODUCTION, FOOD PREPARATION AND PROCESSING

02 01 Primary production wastes

02 01 01 sludges from washing and cleaning

02 01 02 animal-tissue waste

02 01 03 plant-tissue waste

02 01 04 waste plastics (except packaging)

02 01 06 animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site

02 01 07 wastes from forestry

02 01 09 agrochemical waste other than those mentioned in 02 01 08

02 01 10 waste metal

02 02 Wastes from the preparation and processing of meat, fish and other foods of animal origin

02 02 01 sludges from washing and cleaning

02 02 02 animal-tissue waste

02 02 03 materials unsuitable for consumption or processing

02 02 04 sludges from on-site effluent treatment

02 02 99 wastes not otherwise specific (meat and bone meal wastes from rendering)

02 03 Wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee and tobacco preparation and processing; tobacco processing; conserve production

02 03 01 sludges from washing, cleaning, peeling, centrifuging and separation

02 03 02 wastes from preserving agents

02 03 03 wastes from solvent extraction

02 03 04 materials unsuitable for consumption or processing

02 03 05 sludges from on-site effluent treatment

02 04 Wastes from sugar processing

- 02 04 01 soil from cleaning and washing beet
- 02 04 02 off-specification calcium carbonate
- 02 04 03 sludges from on-site effluent treatment
- 02 05 Wastes from the dairy products industry**
- 02 05 01 materials unsuitable for consumption or processing
- 02 05 02 sludges from on-site effluent treatment
- 02 06 Wastes from the baking and confectionery industry**
- 02 06 01 materials unsuitable for consumption or processing
- 02 06 02 wastes from preserving agents
- 02 06 03 sludges from on-site effluent treatment
- 02 07 Wastes from the production of alcoholic and non alcoholic beverages (except tea, coffee and cocoa)**
- 02 07 01 wastes from washing, cleaning and mechanical reduction of raw materials
- 02 07 02 wastes from spirits distillation
- 02 07 03 wastes from chemical treatment
- 02 07 04 materials unsuitable for consumption or processing
- 02 07 05 sludges from on-site effluent treatment

03 WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PAPER, CARDBOARD, PULP, PANELS AND FURNITURE

- 03 01 Wastes from wood processing and the production of panels and furniture**
- 03 01 01 waste bark and cork
- 03 01 05 sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
- 03 03 Wastes from pulp, paper and cardboard production and processing**
- 03 03 01 waste bark and wood
- 03 03 02 green liquor sludge (from recovery of cooking liquor)
- 03 03 05 de-inking sludges from paper recycling
- 03 03 07 mechanically separated rejects from pulping of waste paper and cardboard
- 03 03 08 wastes from sorting of paper and cardboard destined for recycling
- 03 03 09 lime mud waste
- 03 03 10 fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
- 03 03 11 sludges from on-site effluent treatment other than those mentioned in 03 03 10

04 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES

- 04 01 Wastes from the leather and fur industry**
- 04 01 01 fleshings and lime split wastes
- 04 01 02 liming waste
- 04 01 06 sludges, in particular from on-site effluent treatment containing chromium
- 04 01 07 sludges, in particular from on-site effluent treatment free of chromium
- 04 01 08 waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
- 04 01 09 wastes from dressing and
- 04 02 Wastes from the textile industry**
- 04 02 09 wastes from composite materials (impregnated textile, elastomer, plastomer)
- 04 02 10 organic matter from natural products (for example grease, wax)
- 04 02 15 wastes from finishing other than those mentioned in 04 02 14
- 04 02 17 dyestuffs and pigments other than those mentioned in 04 02 16
- 04 02 20 sludges from on-site effluent treatment other than those mentioned in 04 02 19
- 04 02 21 wastes from unprocessed textile fibres
- 04 02 22 wastes from processed textile fibres

05 WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL

- 05 01 Oily sludges and solid wastes**

- 05 01 10 sludges from on-site effluent treatment other than those mentioned in 05 01 09
- 05 01 13 boiler feedwater sludges
- 05 01 14 wastes from cooling columns
- 05 01 16 sulphur-containing wastes from petroleum desulphurisation
- 05 01 17 bitumen
- 05 06 Wastes from the pyrolytic treatment of coal**
- 05 06 04 waste from cooling columns
- 05 07 Wastes from natural gas purification**
- 05 07 02 wastes containing sulphur

06 WASTES FROM INORGANIC CHEMICAL PROCESSES

- 06 03 Waste salts and their solutions**
- 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
- 06 03 16 metallic oxides other than those mentioned in 06 03 15
- 06 05 Sludges from on-site effluent treatment**
- 06 05 03 sludges from on-site effluent treatment other than those mentioned in 06 05 02
- 06 06 Waste from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes**
- 06 06 03 wastes containing sulphides other than those mentioned in 06 06
- 06 09 Wastes from phosphorus chemical processes**
- 06 09 02 phosphorous slag
- 06 09 04 calcium-based reaction wastes other than those mentioned in 06 09 03
- 06 11 Waste from the manufacture of inorganic pigments and opacifiers**
- 06 11 01 calcium-based reaction wastes from titanium dioxide
- 06 13 Wastes from other inorganic chemical processes**
- 06 13 03 carbon black

07 WASTES FROM ORGANIC CHEMICAL PROCESSES

- 07 01 Wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals**
- 07 01 12 sludges from on-site effluent treatment other than those mentioned in 07 01 11
- 07 02 Wastes from the MFSU of plastics, synthetic rubber and man-made fibres**
- 07 02 12 sludges from on-site effluent treatment other than those mentioned in 07 02 11
- 07 02 13 waste plastic
- 07 02 15 wastes from additives other than those mentioned in 07 02 14
- 07 02 17 Waste containing silicones other than those mentioned in 07 02 16
- 07 03 Wastes from the MFSU of organic dyes and pigments (except 06 11)**
- 07 03 12 sludges from on-site effluent treatment other than those mentioned in 07 03 11
- 07 04 Wastes from the MFSU of organic pesticides (except 02 01 05)**
- 07 04 12 sludges from on-site effluent treatment other than those mentioned in 07 04 11
- 07 05 Wastes from the MFSU of pharmaceuticals**
- 07 05 12 sludges from on-site effluent treatment other than those mentioned in 07 05 11
- 07 05 14 solid wastes other than those mentioned in 07 05 13
- 07 06 Wastes from the MFSU of fats, grease, soaps, detergents disinfectants and cosmetics**
- 07 06 12 sludges from on-site effluent treatment other than those mentioned in 07 06 11
- 07 07 Wastes from the MFSU of fine chemicals and chemical products not otherwise specified**
- 07 07 12 sludges from on-site effluent treatment other than those mentioned in 07 07 11

08 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 01 Wastes from MFSU and removal of paint and varnish

- 08 01 12 waste paint and varnish other than those mentioned in 08 01 11
- 08 01 14 sludges from paint or varnish other than those mentioned in 08 01 13
- 08 01 16 aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
- 08 01 18 wastes from paint or varnish removal other than those mentioned in 08 01 17

08 02 Wastes from MFSU of other coatings (including ceramic materials)

- 08 02 01 waste coating powders
- 08 02 02 aqueous sludges containing ceramic materials

08 03 Wastes from MFSU of printing inks

- 08 03 07 aqueous sludges containing ink
- 08 03 08 aqueous liquid waste containing ink
- 08 03 13 waste ink other than those mentioned in 08 03 12
- 08 03 15 ink sludges other than those mentioned in 08 03 14
- 08 03 18 waste printing toner other than those mentioned in 08 03 17

08 04 Wastes from MFSU of adhesives and sealants (including waterproofing products)

- 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09
- 08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11
- 08 04 14 aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13

09 WASTES FROM THE PHOTOGRAPHIC INDUSTRY

09 01 Wastes from the photographic industry

- 09 01 07 photographic film and paper containing silver or silver compounds
- 09 01 08 photographic film and paper free of silver or silver compounds
- 09 01 10 single-use cameras without batteries *Cameras - single use*
- 09 01 12 single-use cameras containing batteries other than those mentioned in 09 01 11

10 INORGANIC WASTES FROM THERMAL PROCESSES

10 01 Wastes from power stations and other combustion plants

- 10 01 01 bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
- 10 01 02 coal fly ash
- 10 01 03 fly ash from peat and untreated wood
- 10 01 05 calcium-based reaction wastes from flue-gas desulphurisation in solid form
- 10 01 07 calcium-based reaction wastes from flue-gas desulphurisation in sludge form
- 10 01 15 bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
- 10 01 17 fly ash from co-incineration other than those mentioned in 10 01 16
- 10 01 19 wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
- 10 01 21 sludges from on-site effluent treatment other than those mentioned in 10 01 20
- 10 01 23 aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
- 10 01 24 sands from fluidised beds
- 10 01 25 wastes from fuel storage and preparation of coal-fired power plants
- 10 01 26 wastes from cooling-water treatment

10 02 Wastes from the iron and steel industry

- 10 02 01 wastes from the processing of slag
- 10 02 02 unprocessed slag
- 10 02 08 solid wastes from gas treatment other than those mentioned in 10 02 07
- 10 02 10 mill scales

10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 03	Wastes from aluminium thermal metallurgy
10 03 02	anode scraps
10 03 05	waste alumina
10 03 16	skimmings other than those mentioned in 10 03 15
10 03 18	carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 20	flue-gas dust other than those mentioned in 10 03 19
10 03 22	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04	Wastes from lead thermal metallurgy
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05	Wastes from zinc thermal metallurgy
10 05 01	slags from primary and secondary production
10 05 04	other particulates and dust
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 05 11	dross and skimmings other than those mentioned in 10 05 10
10 06	Wastes from copper thermal metallurgy
10 06 01	slags from primary and secondary production
10 06 02	dross and skimmings from primary and secondary production
10 06 04	other particulates and dust
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07	Wastes from silver, gold and platinum thermal metallurgy
10 07 01	slags from primary and secondary production
10 07 02	dross and skimmings from primary and secondary production
10 07 03	solid wastes from gas treatment
10 07 04	other particulates and dust
10 07 05	sludges and filter cakes from gas treatment
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08	Wastes from other non-ferrous thermal metallurgy
10 08 04	particulates and dust
10 08 09	other slags
10 08 11	dross and skimmings other than those mentioned in 10 08 10
10 08 13	carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14	anode scrap
10 08 16	flue-gas dust other than those mentioned in 10 08 15
10 08 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09	Wastes from casting of ferrous pieces
10 09 03	furnace slag
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 08	casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 10	flue-gas dust other than those mentioned in 10 09 09
10 09 12	other particulates other than those mentioned in 10 09 11
10 09 14	waste binders other than those mentioned in 10 09 13
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15
10 10	Wastes from casting of non-ferrous pieces
10 10 03	furnace slag
10 10 06	casting cores and moulds which have not undergone pouring, other than

- 10 10 08 those mentioned in 10 10 05
- 10 10 08 casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
- 10 10 10 flue-gas dust other than those mentioned in 10 10 09
- 10 10 12 other particulates other than those mentioned in 10 10 11
- 10 10 14 waste binders other than those mentioned in 10 10 13
- 10 10 16 waste crack-indicating agent other than those mentioned in 10 10 15
- 10 11 Wastes from manufacture of glass and glass products**
- 10 11 03 waste glass-based fibrous materials
- 10 11 05 particulates and dust
- 10 11 10 waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
- 10 11 12 waste glass other than those mentioned in 10 11 11
- 10 11 14 glass-polishing and -grinding sludge other than those mentioned in 10 11 13
- 10 11 16 solid wastes from flue-gas treatment other than those mentioned in 10 11 15
- 10 11 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
- 10 11 20 solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
- 10 12 Wastes from manufacture of ceramic goods, bricks, tiles and construction products**
- 10 12 01 waste preparation mixture before thermal processing
- 10 12 03 particulates and dust
- 10 12 05 sludges and filter cakes from gas treatment
- 10 12 06 discarded moulds
- 10 12 08 waste ceramics, bricks, tiles and construction products (after thermal processing)
- 10 12 12 wastes from glazing other than those mentioned in 10 12 11
- 10 12 13 sludge from on-site effluent treatment
- 10 13 Wastes from manufacture of cement, lime and plaster and articles and products made from them**
- 10 13 01 waste preparation mixture before thermal processing
- 10 13 04 wastes from calcination and hydration of lime
- 10 13 06 particulates and dust (except 10 13 12 and 10 13 13)
- 10 13 07 sludges and filter cakes from gas treatment
- 10 13 10 wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
- 10 13 11 wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
- 10 13 13 solid wastes from gas treatment other than those mentioned in 10 13 12
- 10 13 14 waste concrete and concrete sludge

11 INORGANIC METAL-CONTAINING WASTES FROM METAL TREATMENT AND THE COATING OF METALS, AND NON-FERROUS HYDROMETALLURGY

- 11 01 Liquid wastes and sludges from metal treatment and coating of metals, (e.g. galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing)**
- 11 01 10 sludges and filter cakes other than those mentioned in 11 01 09
- 11 01 14 degreasing wastes other than those mentioned in 11 01 13
- 11 02 Wastes and sludges from non-ferrous hydrometallurgical processes**
- 11 02 03 wastes from the production of anodes for aqueous electrolytical processes
- 11 02 06 wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
- 11 05 Wastes from hot galvanising processes**
- 11 05 01 Hard zinc
- 11 05 02 Zinc ash

12 WASTES FROM SHAPING AND SURFACE TREATMENT OF METALS AND PLASTICS

- 12 01 Wastes from shaping (including forging, welding, pressing, drawing, turning, cutting and filing)**
- 12 01 01 ferrous metal filings and turnings
 - 12 01 02 ferrous metal dust and particles
 - 12 01 03 non-ferrous metal filings and turnings
 - 12 01 04 non-ferrous metal dust and particles
 - 12 01 05 plastics shavings and turnings
 - 12 01 13 welding wastes
 - 12 01 15 machining sludges other than those mentioned in 12 01 14
 - 12 01 17 waste blasting material other than those mentioned in 12 01 16
 - 12 01 21 spent grinding bodies and grinding materials other than those mentioned in 12 01 20

15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

- 15 01 Packaging**
- 15 01 01 paper and cardboard packaging
 - 15 01 02 plastic packaging
 - 15 01 03 wooden packaging
 - 15 01 04 metallic packaging
 - 15 01 05 composite packaging
 - 15 01 06 mixed packaging
 - 15 01 07 glass packaging
 - 15 01 09 textile packaging
- 15 02 Absorbents, filter materials, wiping cloths and protective clothing**
- 15 02 03 absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST

- 16 01 End-of-life vehicles and their components**
- 16 01 03 end-of-life tyres
 - 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
 - 16 01 17 ferrous metal
 - 16 01 18 non-ferrous metal
 - 16 01 19 plastic
 - 16 01 20 glass
 - 16 01 22 components not otherwise specified
- 16 02 Discarded equipment and its components**
- 16 02 14 discarded equipment other than those mentioned in 16 02 09 to 16 02 13
 - 16 02 16 components removed from discarded equipment other than those mentioned in 16 02 15
- 16 03 Waste from the MFSU of pharmaceuticals excluding waste medicinal products and pharmaceutically active waste materials arising from their manufacture**
- 16 03 04 inorganic wastes other than those mentioned in 16 03 03
 - 16 03 06 organic wastes other than those mentioned in 16 03 05
- 16 05 Chemicals and gases in containers**
- 16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
- 16 06 Batteries and accumulators**
- 16 06 04 alkaline batteries (except 16 06 03)
 - 16 06 05 other batteries and accumulators
- 16 08 Spent catalysts**
- 16 08 01 spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)

- 16 08 03 spent catalysts containing transition metals or transition metal compounds not otherwise specified
- 16 11 Waste linings and refractories**
- 16 11 02 carbon-based linings and refractories from metallurgical processes other than those mentioned in 16 11 01
- 16 11 04 other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
- 16 11 06 linings and refractories from non-metallurgical processes other than those mentioned in 16 11 05

17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING ROAD CONSTRUCTION)

17 01 Concrete, bricks, tiles, ceramics, and gypsum-based materials

- 17 01 01 concrete
- 17 01 02 bricks
- 17 01 03 tiles and ceramics
- 17 01 07 mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06

17 02 Wood, glass and plastic

- 17 02 01 wood
- 17 02 02 glass
- 17 02 03 plastic

17 03 Asphalt, tar and tarred products

- 17 03 02 bituminous mixtures other than those mentioned in 17 03 01

17 04 Metals (including their alloys)

- 17 04 01 copper, bronze, brass
- 17 04 02 aluminium
- 17 04 03 lead
- 17 04 04 zinc
- 17 04 05 iron and steel
- 17 04 06 tin
- 17 04 07 mixed metals
- 17 04 11 cables other than those mentioned in 17 04 10

17 05 Soil 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

- 17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03

17 09 Other construction and demolition wastes

- 17 09 04 Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

18 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)

18 01 Wastes from natal care, diagnosis, treatment or prevention of disease in humans

- 18 01 04 wastes whose collection and disposal is not subject to special requirements in order to prevent infection(for example dressings, plaster casts, linen, disposable clothing, diapers)

19 WASTES FROM WASTE TREATMENT FACILITIES, OFFSITE WASTE WATER TREATMENT PLANTS AND THE WATER INDUSTRY

19 01 Wastes from incineration or pyrolysis of waste

- 19 01 02 ferrous materials removed from bottom ash
- 19 01 12 bottom ash and slag other than those mentioned in 19 01 11
- 19 01 14 fly ash other than those mentioned in 19 01 13

19 01 16	boiler dust other than those mentioned in 19 01 15
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	sands from fluidised beds
19 02	Wastes from specific physico/chemical treatments of industrial waste, (e.g. dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 03	Stabilised/solidified wastes
19 03 05	stabilised wastes other than those mentioned in 19 03 04
19 03 07	solidified wastes other than those mentioned in 19 03 06
19 04	Vitrified waste and wastes from vitrification
19 04 01	vitrified waste
19 05	Wastes from aerobic treatment of solid wastes
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 07	Landfill leachate
19 07 03	landfill leachate other than those mentioned in 19 07 02
19 08	Wastes from waste water treatment plants not otherwise specified
19 08 01	screenings
19 08 02	waste from desanding
19 08 05	sludges from treatment of urban waste water
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09	Wastes from the preparation of drinking water or water for industrial use
19 09 01	solid waste from primary filtration and screenings
19 09 02	sludges from water clarification
19 09 03	sludges from decarbonation
19 09 04	spent activated carbon
19 09 05	saturated or spent ion exchange resins
19 09 06	solutions and sludges from regeneration of ion exchangers
19 10	Wastes from shredding of metal-containing waste
19 10 01	iron and steel waste
19 10 02	non-ferrous waste
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 06	other fractions other than those mentioned in 19 10 05
19 11	Wastes from oil regeneration
19 11 06	sludges from on site effluent treatment other than those mentioned in 19 11 05
19 12	Wastes from the mechanical treatment of waste (for examples sorting, crushing, compacting, palletising) not otherwise specified
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05

20 MUNICIPAL WASTES AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES INCLUDING SEPARATELY COLLECTED FRACTIONS

20 01	Separately collected fractions
20 01 01	paper and cardboard
20 01 02	glass
20 01 08	biodegradable kitchen and canteen waste
20 01 10	clothes
20 01 11	textiles
20 01 25	edible oil and fat
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 30	detergents other than those mentioned in 20 01 29
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 40	metals
20 01 41	wastes from chimney sweeping
20 01 99	other fractions not otherwise specified (feminine hygiene wastes, some group E clinical wastes)
20 02	Garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 02 02	soil and stones
20 02 03	other non-biodegradable wastes
20 03	Other municipal wastes
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 06	waste from sewage cleaning
20 03 07	bulky waste
20 03 99	municipal wastes not otherwise specified

Wastes permitted for asbestos cell:

06 13 04*	Wastes from asbestos processing
10 13 09*	Wastes from asbestos cement manufacture containing asbestos
16 01 11*	Brake pads containing asbestos
16 02 12*	Discarded equipment containing free asbestos
17 01 06*	Mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances
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
17 06 01*	Insulation materials containing asbestos
17 06 05*	Construction materials containing asbestos
19 03 04*	Wastes marked as hazardous, partly stabilised
19 03 06*	Wastes marked as hazardous, solidified

Schedule 4 – Emissions and monitoring

Table S4.1 Leachate level limits and monitoring requirements

Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
Leachate wells in Cells 4-11 (shown on plan S.2003/BT/PPC1)	2 metres above base of cell	Monthly	

Table S4.2 Point source emissions to air – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
A4 Engine Exhaust (located in Landfill Gas Power Station on plan 2003/BT/PPC4) Commissioned pre-1 January 1998 ¹	Oxides of Nitrogen	Gas utilisation plant	The limits shall not exceed by more than 30% the limits for engines A5 and A6	Hourly mean	Annually	ISO 10849: 1996
	CO	Gas utilisation plant		Hourly mean	Annually	ISO 12039: 2001
	Total VOCs	Gas utilisation plant		Hourly mean	Annually	BS EN 12619: 1999 or BS EN 13526: 2002
	NMVOcs	Gas utilisation plant		Hourly mean	Annually	ISO 13649
A5 and A6 Engine Exhausts (located in Landfill Gas Power Station on plan S.2003/BT/PPC4) Commissioned between 1 January 1998 and 31 December 2005 ¹	Oxides of Nitrogen	Gas utilisation plant	650 mg/m ³	Hourly mean	Annually	ISO 10849: 1996
	CO	Gas utilisation plant	1500 mg/m ³	Hourly mean	Annually	ISO 12039: 2001
	Total VOCs	Gas utilisation plant	1750 mg/m ³	Hourly mean	Annually	BS EN 12619: 1999 or BS EN 13526: 2002
	NMVOcs	Gas utilisation plant	150 mg/m ³	Hourly mean	Annually	ISO 13649
A7 to A16 Engine Exhausts (located in Landfill Gas Compound Shown on plan BL549-D5)	Oxides of Nitrogen	Gas utilisation plant	500 mg/m ³	Hourly mean	Annually	ISO 10849: 1996
	CO	Gas utilisation plant	1400 mg/m ³	Hourly mean	Annually	ISO 12039: 2001
	Total VOCs	Gas utilisation plant	1000 mg/m ³	Hourly mean	Annually	BS EN 12619: 1999 or BS EN 13526: 2002
	NMVOcs	Gas utilisation plant	75 mg/m ³	Hourly mean	Annually	ISO 13649

Table S4.2 Point source emissions to air – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
A1 to A3 Flare Stacks (located in Landfill Gas Compound on plan S.2003/BT/PPC4) ¹	Oxides of Nitrogen	Landfill Gas Flares	150 mg/m ³	Hourly mean	Annually	ISO 10849
	CO	Landfill Gas Flares	100 mg/m ³ 50 mg/m ³ *	Hourly mean	Annually	ISO 12039
	Total VOCs	Landfill Gas Flares	10 mg/m ³	Hourly mean	Annually	BS EN 12619 or BS EN 13526
	NMVOCs	Landfill Gas Flares	5 mg/m ³	Hourly mean	Annually	BS EN 13649
BG5 Flare Stack (shown on plan S.2003/BT/PPC4)	Oxides of Nitrogen	Landfill Gas Flares	150 mg/m ³	Hourly mean	Annually	ISO 10849
	CO	Landfill Gas Flares	100 mg/m ³ 50 mg/m ³ *	Hourly mean	Annually	ISO 12039
	Total VOCs	Landfill Gas Flares	10 mg/m ³	Hourly mean	Annually	BS EN 12619 or BS EN 13526
	NMVOCs	Landfill Gas Flares	5 mg/m ³	Hourly mean	Annually	BS EN 13649
	Sulphur Dioxide	Landfill Gas Flares	**	Hourly mean	Annually	ISO 11632 or instrumental method with heated sample line
A3 NEW Haase 4250 m ³ high temperature enclosed landfill gas flare (located in Landfill Gas Compound shown on plan BL549-D5)	Oxides of Nitrogen	Landfill Gas Flares	150 mg/m ³	Hourly mean	Annually	ISO 10849
	CO	Landfill Gas Flares	50 mg/m ³	Hourly mean	Annually	ISO 12039
	Total VOCs	Landfill Gas Flares	10 mg/m ³	Hourly mean	Annually	BS EN 12619 or BS EN 13526
Replacement for the existing A3 and BG5 flare stacks	NMVOCs	Landfill Gas Flares	5 mg/m ³	Hourly mean	Annually	BS EN 13649

Footnote: Annual monitoring is only required when flares operate in excess of 10% of the time, taken on an annual assessment period.

¹ Any system receiving significant quantities of sulphide must monitor and model SO₂ output (where significant is more than 140ppm H₂S or 200mg/m³ H₂S)

* For flares commissioned after 31 December 2003

** H1 EAL and/or current Air Quality Standard, whichever is the lower: apply advanced computer dispersion modelling to the monitoring data

Table S4.3 Trigger levels for emissions into groundwater and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
WBs 7A, 8, 9, 10, 11, 12, 13, 14, 15 and 25A (shown on plan S.2003/BT/PPC4) or additional points as agreed in writing by the Agency	Ammoniacal nitrogen	3mg/l	Spot Sample	Quarterly	In accordance with Environment Agency Guidance LFTGN02 Monitoring Landfill Leachate, Groundwater and Surface Water.
	Potassium	35mg/l	in Spot Sample	Quarterly	
		Kellaway Sands and 45 mg/l	in		
		Blisworth Limestone			
	TOC	16mg/l	Spot Sample	Quarterly	
	Mecoprop	0.04µg/l	Spot Sample	Quarterly	
	Benzene	1µg/l	Spot Sample	Quarterly	
	Cadmium	0.1µg/l	Spot Sample	Quarterly	

Table S4.4 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
External gas monitoring boreholes: BTGB0006, 7, 8, 9, 10, 11, 12 and 13 (shown on plan S.2003/BT/PPC4) or additional monitoring points as agreed in writing with the Agency	Methane	1 %v/v	Monthly	In accordance with Environment Agency Guidance LFTGN03 Guidance on the Management of Landfill Gas.
	Carbon Dioxide	1.5 %v/v		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Temperature	no limit		
	Meteorological data	no limit		

Gas probes: BTGP00010, 35, 36, 37, 38, 39 and 40 (shown on plan S.2003/BT/PPC4) or additional monitoring points as agreed in writing with the Agency

Table S4.5 Landfill gas from capped surfaces - monitoring requirements

Monitoring point Ref. /description	Parameter	Monitoring frequency	Other specifications	Monitoring Standard or method
Permanently capped zone	Average methane flux	Annually	Where a rate of 0.001 mg/m ² /second is exceeded appropriate measures must be taken to reduce the rate.	Flame ionisation detector walkover, flux box or as otherwise agreed in writing by the Agency*.
Temporarily capped zone	Average methane flux	Annually	Where a rate of 0.1 mg/m ² /second is exceeded appropriate measures must be taken to reduce the rate.	Flame ionisation detector walkover, flux box or as otherwise agreed in writing by the Agency*.

Footnote * If a cap has previously been shown compliant and there have been no significant physical changes in the gas management during the year, a detailed walkover survey with an FID 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. The values for flux and total methane emissions measured in the previous year may be reported and a fresh flux box survey is not necessary. If the zone remains stable, the results of a full walkover survey may be accepted as the site report for a period of four years before a further quantitative flux box survey is required.

Table S4.6 Landfill gas – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Gas extraction wells	Methane Carbon Dioxide Oxygen Atmospheric pressure Differential pressure	Monthly	LFTGN 03	Where the Oxygen level exceeds 5% or where the addition of the Carbon Dioxide and Methane percentages is less than 80%, an assessment of air ingress into the system shall be undertaken
	Carbon monoxide	Monthly	LFTGN03	Where the level exceeds 100ppm, there shall be confirmation by GC analysis and further investigation
	Gas flow rate	Quarterly	LFTGN 03	
One point per cell	Trace gas analysis	Annually	LFTGN 04	The concentration of trace gas components shall be assessed against the assumptions made in the Landfill gas risk assessment and dispersion modelling.
Input to Engines	Methane Carbon Dioxide Oxygen Gas flow rate	Continuous	LFTGN 03 LFTGN 04 LFTGN 05	Where the Oxygen level exceeds 5% or where the addition of the Carbon Dioxide and Methane percentages is less than 80%, an assessment of air ingress into the system shall be undertaken
Input to Flares	Methane Carbon Dioxide Oxygen Gas flow rate Flare temperature	Continuous	LFTGN 03 LFTGN 04 LFTGN 05	Where the Oxygen level exceeds 5% or where the addition of the Carbon Dioxide and Methane percentages is less than 80%, an assessment of air ingress into the system shall be undertaken

Table S4.7 Leachate– other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
One leachate abstraction point per Area/Cell	Alkalinity, Ammoniacal Nitrogen, BOD, Cadmium, Chromium, COD, EC, pH, Potassium, Sulphate, TOC, Zinc.	Six monthly	In accordance with Agency guidance 'LFTGN02 Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water.'	
One leachate abstraction point per Area/Cell	Calcium, Chloride, Copper, Lead, Magnesium, Mercury, Nickel.	Annually	In accordance with Agency guidance 'LFTGN02 Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water.'	
One leachate abstraction point per Area/Cell	List 1 screen	Annually	In accordance with Agency guidance 'LFTGN01 Hydrogeological Risk Assessment for Landfills'	
Leachate abstraction and monitoring points	Depth to base of monitoring well	Annually	In accordance with Agency guidance 'LFTGN02 Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water.'	

Table S4.8 Landfill gas in ambient air - limits and monitoring requirements

Monitoring point Ref. /Description	Parameter	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Ambient air *	Methane in ambient air	10 ppmv		Monthly	Flame Ionisation Detector
Ambient air *	Hydrogen sulphide in ambient air	10 ppbv		Monthly	Portable

* - Three evenly spaced upwind locations and the entire downwind perimeter unless there is no wind, in which case the entire perimeter must be monitored.

Schedule 5 - Reporting

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

Table S5.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Leachate levels As required by condition 3.6.1	Leachate wells in Areas A2, B, B1, B2, C1, C1N, C2, C2N and in Cells 4-11 (shown on plan S.2003/BT/PPC1)	Every 3 months	22/12/06
Emissions to air Parameters as required by condition 3.6.1	Engines and Flares	Every 12 months	22/12/06
Groundwater Parameters as required by condition 3.6.1	WBs 7A, 8, 9, 10, 11, 12, 13, 14, 15 and 25 (shown on plan S.2003/BT/PPC4) or additional points as agreed in writing by the Agency	Every 3 Months	22/12/06
Ambient air monitoring Parameters as required by condition 3.6.1	See Table S4.8	Every month	22/12/06
Landfill gas surface emissions Parameters as required by condition 3.6.1	Permanently capped zone Temporarily capped zone	Every 12 months	22/12/06
Landfill gas lateral migration Parameters as required by condition 3.6.1	External gas monitoring boreholes: BTGB0007, 8, 9, 10, 11, 12 and 13 (shown on plan S.2003/BT/PPC4) or additional monitoring points as agreed in writing with the Agency Gas probes: BTGP00010, 35, 36, 37, 38, 39 and 40 (shown on plan S.2003/BT/PPC4) or additional monitoring points as agreed in writing with the Agency	Every 3 months	22/12/06
Other Landfill gas monitoring Parameters as required by condition 3.6.1	Gas collection system Manifolds Input to Flares and Engines	Every 3 months Every 12 months Every 3 months	22/12/06
Other leachate monitoring (Parameters as required by condition 3.6.1)	One leachate abstraction point per Area/Cell	Every 6 months	22/12/06
List 1 Screen	One leachate abstraction point per Area/Cell	Every 12 months	
Depth to base of monitoring well	Leachate abstraction and monitoring points	Every 12 months	

Table S5.2: Annual production/treatment	
Leachate: Disposed of off site; Disposed of to any onsite effluent treatment plant; Recirculated into the waste mass.	Cubic metres/year
Surface water and/ or groundwater: Disposed of off site; Disposed of to any onsite effluent treatment plant.	Cubic metres/year
Landfill gas: combustion in flares; combustion in gas engines; Other methods of gas utilisation.	Normalised cubic metres/year

Table S5.3 Performance Parameters			
Parameter	Frequency of assessment	Annual total	Unit
Potable water use	Annually		Cubic metres
Energy used (including for leachate treatment)	Annually		MWh of electricity
Non potable water use	Annually		Cubic metres

Table S5.4 Reporting Forms		
Media/parameter	Reporting Format	Date of Form
Leachate	Form leachate 1 or other reporting format to be agreed in writing with the Agency	
Air	Form Air 1 or other reporting format to be agreed in writing with the Agency	
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Agency	
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Agency	
Sewer	Form Sewer 1 or other reporting format to be agreed in writing with the Agency	
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Agency	
Particulate matter	Form Particulate 1 or other reporting format to be agreed in writing with the Agency	
Waste Return	Waste Return Form RATS2E	
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Agency	

Schedule 6 - 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 PPC Regulations.

Part A

Permit Number	
Name of operator	
Location of Installation	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution

To be notified within 24 hours of detection	
Date and Time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit

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

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

Parameter	Notification period

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

Part B to be supplied as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of WRG Waste Services Limited

Schedule 7 - Interpretation

“*Accident*” means an accident that may result in pollution.

“*Annually*” means once every Year.

“*Application*” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 4 to the PPC Regulations

“*Authorised Officer*” means any person authorised by the 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.

“*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.

“*Fugitive emission*” means an emission to air, water or land from the activities which is not controlled by an emission or background concentration limit.

“*Groundwater Regulations*” means the Groundwater Regulations SI 1998 No. 2746, and words and expressions used in this permit which are also used in the Regulations shall have the same meanings as in those Regulations.

“*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;

within the site.

“*Landfill Regulations*” means the Landfill (England and Wales) Regulations SI 2002 No. 1559, and words and expressions used in this permit which are also used in the Regulations shall have the same meanings as in those Regulations.

“*Land Protection Guidance*” means Agency guidance “H7 - Guidance on the protection of land under the PPC Regime: Application site report and site protection monitoring programme”.

“*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.

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

- groundwater under-drainage system;
- permanent geophysical leak location system;
- leak detection layer;
- sub-grade;
- barriers;

- liners;
- leachate collection system;
- leachate abstraction system;
- separation bund/layer;
- cell or area surface water drainage system;
- side wall subgrade and containment systems;

for the New Cell.

"*No impact*" means that the change made to the construction process will not alter the agreed design criteria, specification or performance.

"notify without delay" and "notified without delay" means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

"*PPC Regulations*" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

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

"*Relevant person*" and "*relevant conviction*" shall have the meanings given to them in the Environmental Protection Act 1990

"*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 Groundwater 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 Groundwater Regulations

"*Site Protection and Monitoring Programme*" means a document which meets the requirements for Site Protection and Monitoring Programmes described in the Land Protection Guidance.

"*Technically competent management*" and "*technical competence*" shall have the meanings given to them in the Environmental Protection Act 1990.

"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, List of Wastes (Northern Ireland) Regulations 2005 (as amended), or The Special Waste Amendment (Scotland) Regulations 2004 as appropriate, and in relation to hazardous waste, includes the asterisk

"*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.

END OF PERMIT