



ENVIRONMENT
AGENCY

Variation Notice with introductory note

Pollution Prevention and Control Regulations 2000

**Packington Landfill
SITA UK Limited
Packington Lane
Meriden
Coventry
Warwickshire
CV7 7HN**

Variation Notice number

LP3936LC

Permit number

BW0533ID

Packington Landfill

Permit Number BW0533ID

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 part of 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.

There are no substantial changes to the installation as a result of this variation.

The non-technical summary from the original permit is repeated here for the sake of clarity:

The Packington Landfill is operated by SITA UK Limited and is located approximately 2.5km east of Birmingham airport and 3km south of Coleshill. The site is a former sand and gravel quarry, landfilling operations have continued on site since 1967. The site in total covers approximately 150 hectares. The installation is to be operated as an engineered non-hazardous landfill incorporating an asbestos monocell. The maximum quantities of waste deposited at the installation in any one-year shall not exceed 1,000,000 tonnes, of non-hazardous waste, 100,000 tonnes of asbestos waste and 300,000 tonnes of inert waste.

The installation incorporates an active landfill gas management system, which extracts landfill gas to the Landfill Gas Power Plant located on site, operated by Gastec Packington Partnership. A leachate management system is in place within the existing cells, this comprises leachate drainage and collection system, which allows for leachate to be pumped for recirculation or held in storage tanks prior to removal off site to undergo treatment.

An Environmental Management System (ISO 14001 accreditation) is in place on the site.

Status log of the permit

Detail	Date	Response Date
Application BW 0533	Received 09/12/2003	
Response to request for information	Request dated 27/04/04	Response dated 10/06/04
Schedule 4 Statutory Notice issued to request information on SNRHW monocell	Request dated 07/05/04	Response dated 04/06/04
Response to request for information	Request dated 09/07/04	Response dated 20/08/04
Telephone request for additional information on minimising leachate levels.	Request dated 25/10/04	Response dated 29/10/04
E-mail request for additional information on asbestos monocell.	Request dated 15/12/04	Response dated 02/02/05
E-mail request for a copy of Document PK/14	Request dated 11/01/05	Response dated 11/01/05
Permit determined	22 nd April 2005	
Groundwater Monitoring Plan PK/07 v5.0 submitted in accordance with improvement condition 2a.	Received March 2006	
Asbestos Monitoring Plan submitted in accordance with improvement condition 4.	Received November 2005	
Surface Emissions Assessment Criteria submitted in accordance with improvement condition 10.	Received May 2005	
Bird Hazard Management Plan V1.0 submitted in accordance with improvement condition 13.	Received May 2005	
Particulate monitoring Action Plan submitted in accordance with improvement condition 1a	Received 17 January 2006	
Document IC_6C 'Examination of leachate levels pursuant with improvement condition 6C'	Received 31 January 2007	
Variation determined	05 July 2007	

Other PPC Permits relating to this installation

Permit holder	Permit Number	Date of Issue
Gastec Packington Partnership	BX1187IM	30/09/2004

Other existing Licences/Authorisations/Registrations relating to this installation

Holder	Reference Number	Date of issue
SITA Holding UK Limited (Consent to Discharge)	T/12/35493/T	23/08/2001
SITA UK Limited (Waste Management Licence).	EAWML/40094	30/06/2003

Superseded Licences/Authorisations/Consents relating to this installation

Holder	Reference Number	Date of Issue
SITA UK Limited (Waste Management Licence)	SLW0365	03/10/1990
SITA Packington Limited (Consent to Discharge)	T/11/35633/T	05/10/2001

End of introductory Note

Variation Notice

Pollution Prevention and Control
(England and Wales) Regulations 2000



**ENVIRONMENT
AGENCY**

Variation Notice

Permit number BW0533ID

Variation Notice number LP3936LC

The Environment Agency in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I. 2000 No. 1973) (as amended), hereby varies the Permit held by you **SITA UK Limited** ("the Operator"), whose Registered Office is

**SITA House
Grenfell Road
Maidenhead
Berkshire
SL6 1ES**

Company registration number 2291198

to operate part of an installation at

**Packington Landfill Site
Packington Lane
Meriden
Coventry
Warwickshire
CV7 7HN**

to the extent set out in Schedules 1 to 3 of this Variation Notice.

This Notice shall take effect from 10 July 2007 at 00.01 hours.

Signed

A rectangular box containing a handwritten signature in black ink that reads "Claire Bibby".

Claire Bibby

Authorised to sign on behalf of the Environment Agency

Date

09 July 2007

SCHEDULE 1 - CONDITIONS TO BE DELETED

1. All existing conditions and schedules for Permit BW0533ID shall be deleted.

SCHEDULE 2 - CONDITIONS TO BE AMENDED

No conditions to be amended.

SCHEDULE 3 - CONDITIONS TO BE ADDED

The following conditions and schedules are added:

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 set out in the agreement made between the operator and the Agency dated 22 April 2005 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 Agency.

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.

1.6 Multiple operator installations

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

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 blue on the site plan at schedule 2 to this permit, which is within the area edged in red on the site plan that represents the extent of the installation covered by this permit and that of the other operator of the installation.

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.

2.3.2 For the purposes of the operation of an emergency flare within the installation permit number: BX1187IM the installation boundary to permit number: BW0533ID shall encompass this unit. SITA UK Limited will have overall responsibility for the control of the landfill gas and this control will contractually involve EDL Operations (Packington) Limited installing an emergency flare.

2.4 Off-site conditions

2.4.1 There are no conditions in this permit to which regulation 12(12) of the PPC Regulations apply.

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) from 30th October 2007 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, or liquid waste accepted for treatment at a permitted leachate treatment activity.
- (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 Lpl-PPCB-0403-09.

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.

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 parameter(s) and monitoring point(s) 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 S4.10, shall not be exceeded.
- 3.3.6 The limits for particulate matter arising from the installation set out in schedule 4, table S4.11, 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 and S4.9;
 - (d) Landfill gas specified in tables S4.4, S4.5, S4.6 and S4.10;
 - (e) Surface water specified in table S4.8; and
 - (f) Particulate matter specified in table S4.11.
- 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.

3.7 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) particulate matter;
 - (iii) sub-surface landfill gas monitoring;
 - (iv) leachate levels, quality and quantities;
 - (v) landfill gas generation and collection;
 - (vi) waste types and quantities; and

- (vii) the location of hazardous waste deposits; and
 - (viii) 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 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 in relation to this installation and any agreed amendments thereto;
 - (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 annual production/treatment set out in schedule 5 table S5.2;
 - (e) details of any contamination or decontamination of the site which has occurred;
 - (f) the topographical surveys required by condition 3.6.3 other than those submitted as part of a CQA validation report;
 - (g) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;
 - (h) an assessment of the settlement behaviour of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
 - (i) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
 - (j) 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

4.3 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 condition 2.8, as an integral part of landfilling.
Directly Associated Activity		
Leachate management	Storage of leachate in a facility with a capacity of <50 t/day, pre disposal or recovery.	Leachate arising from the landfill.
Water discharges to controlled waters.	Discharges of site drainage from the landfill.	From surface water management system to point of entry to controlled waters.

Table S1.2 Operating Techniques

Description	Parts	Date Received
Application	The response to questions 1.2, 2.1, 2.2, 2.3, 2.4 and 2.5 in part B of the Application Form Excluding:- Answer to Questions 2.3.54 & 2.3.55 regarding landfill gas monitoring – surface and aerial emissions Answers to Question 2.3.71 regarding Particulate Matter Monitoring. Answers to Question 2.3.84 regarding Bird Control Measures.	09/12/03
In response to Schedule 4 Notice dated 07/05/04 – Engineering designs proposals for asbestos monocell	All parts	04/06/04
In response to letter dated 09/07/04 – requesting further information on Hydrogeological, Gas, Stability and Nuisance and Health Risk Assessments. Also waste types and financial provision.	All parts	20/08/04
In response to request for additional information on minimising leachate levels.	All parts (excluding proposed leachate levels contained within the Draft Discussion Documents (1) & (2) on the Practical Minimum Leachate Levels dated 28 October 2004).	29/10/04

Table S1.2 Operating Techniques

Description	Parts	Date Received
Particulate monitoring Action Plan submitted in accordance with improvement condition 1a	All part	17 January 2006
Asbestos Monitoring Plan submitted in accordance with improvement condition 4.	All parts	November 2005
Surface Emissions Assessment Criteria submitted in accordance with improvement condition 10.	All parts	May 2005
Bird Hazard Management Plan V1.0 submitted in accordance with improvement condition 13.	All parts	May 2005
Document IC_6C 'Examination of leachate levels pursuant with improvement condition 6C'	All parts	31 January 2007

Table S1.3 Improvement Programme Requirements

Reference	Requirement	Date
Environmental Monitoring:		
2a	The Operator shall submit to the Agency the revised Monitoring Management Plan (PK/07), Version 6 which should, as a minimum, include details of all existing and proposed leachate, groundwater and surface water monitoring points.	5 September 2007
Cut-off wall		
3a	The Operator shall submit for Agency approval revised remedial proposals to the cut-off wall to prove successful remediation of the discharge. The revised proposal shall include a timetable of the works.	5 January 2008
3b	The Operator shall include within the revised Monitoring Management Plan (PK/07), the agreed monitoring criteria for the cut-off wall compliance.	Within 2 months of compliance of 3a above.
3c	The Operator shall remediate the cut-off wall in line the proposals submitted in accordance with 3a above.	Within 6 months of compliance of 3a above, or within a timescale agreed by the Agency
Leachate Management:		
6d	The Operator shall submit for Agency approval a revised leachate management plan, which provides full details of the proposed method of leachate management and monitoring for leachate head and leachate quality.	5 October 2007

Surface Water:		
12	The Operator shall compile into a report a minimum of 12 months analysis of relevant List I and List II substances (in accordance with Table S4.8) from samples of surface waters from each of the surface water monitoring points specified within Table S4.8. This is to fully determine the existing background concentrations within the surface waters. This report shall be submitted to the Agency for approval.	5 August 2008
Landfill Gas Collection System:		
14	The operator shall review their landfill gas risk assessment and data from the landfill gas collection system. Based on this review the operator shall assess whether fluctuations in the flow or composition of landfill gas in the collection system present a risk to controlling emissions to air or other environmental impact. The operator shall provide the results of the review to the Agency.	5 January 2008
Leachate Management:		
15a	The operator shall submit for Agency approval detailed construction proposals for the retro drilling of the remote leachate monitoring wells C6W5XR, C6W6XR, C8W4X, C10W3X, C11W2X, C17W4XR, C17W5XR, P11W6XR, P11W7XR, P12W6XR.	5 October 2007
15b	The operator shall in accordance with the agreed proposals submitted in compliance with improvement condition 15a, install the remote leachate monitoring wells.	Within 3 months of the date of Agency approval of item 15a above.

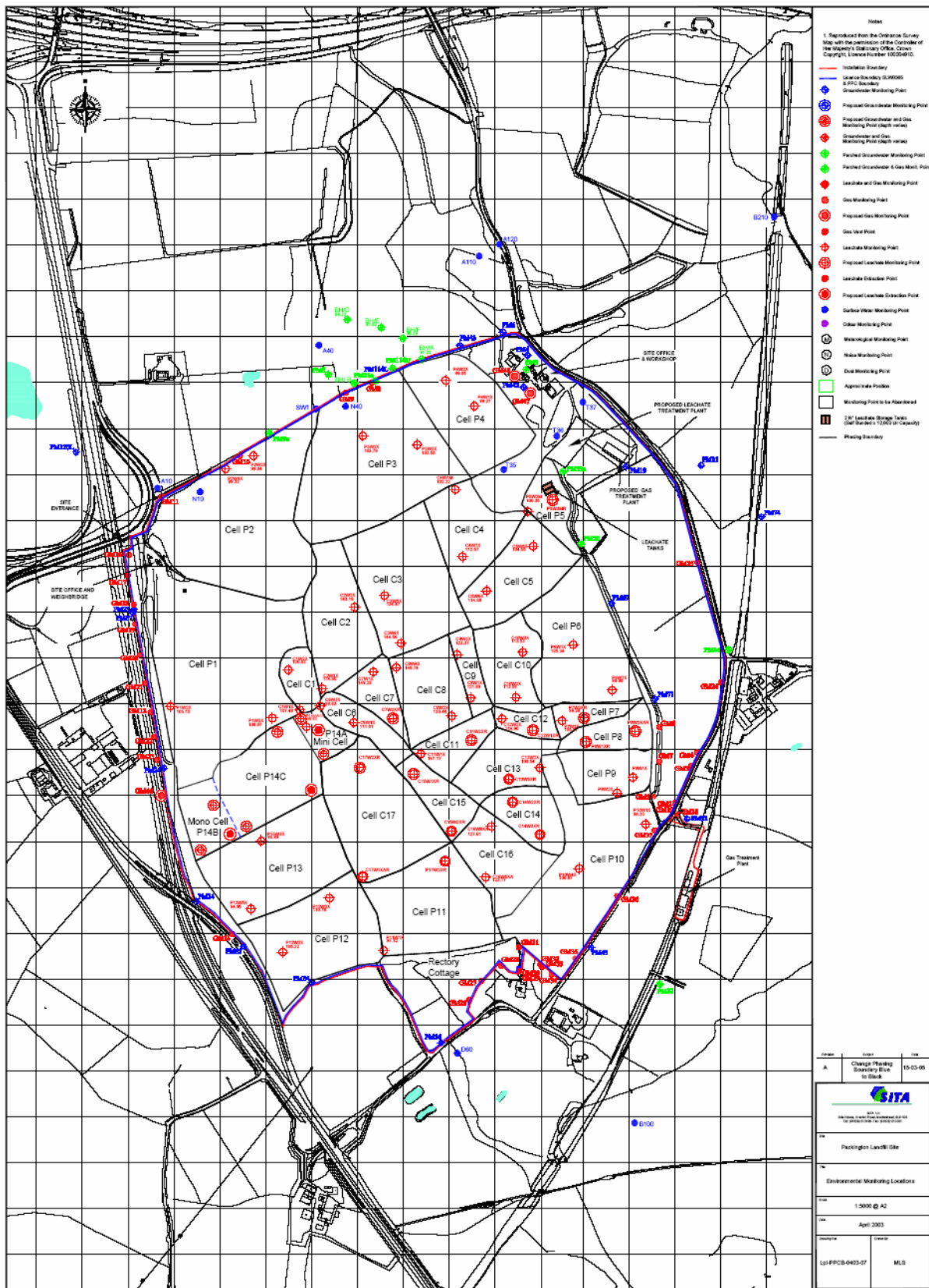
Table S1.4 Pre-operational Measures for Future Development

Reference	Operation	Pre-operational Measures
1	Waste disposal in any New Cell.	Leachate drainage layer - Minimum thickness 500mm or equivalence Materials: Stone drainage aggregates or equivalence
2	Prior to leachate recirculation in any phase of the site where there are temporary waste slopes.	The Operator shall submit for the Agency approval a pore fluid monitoring programme for the temporary waste slopes. The Operator shall reassess the stability of the waste slope at the site and provide suitable control values for inclusion in the monitoring plan. The Stability Risk Assessment does not address leachate recirculation and its potential impact on slope stability, therefore the Operator shall submit to the Agency for approval, the leachate recirculation methods and nominated phases/cells in which recirculation is proposed.

Table S1.5 Annual Waste Input Limits

Category	Limit Tonnes/ Year
Non-hazardous Waste	1,000,000
Inert Waste	300,000
Asbestos waste and construction material containing asbestos	100,000

Schedule 2 - Site plan



Schedule 3 - List of permitted wastes

01 Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals

01 01 wastes from mineral excavation

01 01 01 wastes from mineral metalliferous excavation

01 01 02 wastes from mineral non-metalliferous excavation

01 03 wastes from physical and chemical processing of metalliferous minerals

01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05

01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07

01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 07

01 04 wastes from physical and chemical processing of non-metalliferous minerals

01 04 08 waste gravel and crushed rocks other than those mentioned in 01 04 07

01 04 09 waste sand and clays

01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07

01 04 11 wastes from potash and rock salt processing other than those mentioned in 01 04 07

01 04 12 tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11

01 04 13 wastes from stone cutting and sawing other than those mentioned in 01 04 07

01 05 drilling muds and other drilling wastes

01 05 04 freshwater drilling muds and wastes

01 05 07 barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06

01 05 08 chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06

02 Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing

02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing

02 01 01 sludges from washing and cleaning

02 01 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 03 materials unsuitable for consumption or processing

02 02 04 sludges from on-site effluent treatment

02 03 wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation

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

02 03 02 wastes from preserving agents

02 03 03 wastes from solvent extraction

02 03 04 materials unsuitable for consumption or processing

02 03 05 sludges from on-site effluent treatment

02 04 wastes from sugar processing

02 04 01 soil from cleaning and washing beet

02 04 02 off-specification calcium carbonate

02 04 03 sludges from on-site effluent treatment

02 05 wastes from the dairy products industry

02 05 01 materials unsuitable for consumption or processing

02 05 02 sludges from on-site effluent treatment

02 06 wastes from the baking and confectionery industry

02 06 01 materials unsuitable for consumption or processing

02 06 02 wastes from preserving agents

02 06 03 sludges from on-site effluent treatment

02 07 wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)

02 07 01 wastes from washing, cleaning and mechanical reduction of raw materials

02 07 02 wastes from spirits distillation

02 07 03 wastes from chemical treatment

02 07 04 materials unsuitable for consumption or processing

02 07 05 sludges from on-site effluent treatment

03 Wastes from Wood Processing and the Production of Panels and Furniture, Pulp, Paper

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 finishing

04 02 wastes from the textile industry

- 04 02 09 wastes from composite materials (impregnated textile, elastomer, plastomer)
- 04 02 10 organic matter from natural products (for example grease, wax)
- 04 02 15 waste 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 wastes from petroleum refining

- 05 01 10 sludges from on-site effluent treatment other than those mentioned in 05 01 09
- 05 01 13 boiler feedwater sludges
- 05 01 14 wastes from cooling columns
- 05 01 16 sulphur-containing wastes from petroleum desulphurisation
- 05 01 17 bitumen

05 06 wastes from the pyrolytic treatment of coal

- 05 06 04 waste from cooling columns

05 07 wastes from natural gas purification and transportation

- 05 07 02 wastes containing sulphur

06 Wastes from Inorganic Chemical Processes

06 03 wastes from the MFSU of salts and their solutions and metallic oxides

- 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

06 03 16 metallic oxides other than those mentioned in 06 03 15

06 05 sludges from on-site effluent treatment

06 05 03 sludges from on-site effluent treatment other than those mentioned in 06 05 02

06 06 wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes

06 06 03 wastes containing sulphides other than those mentioned in 06 06 02

06 09 wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes

06 09 02 phosphorous slag

06 09 04 calcium-based reaction wastes other than those mentioned in 06 09 03

06 11 wastes from the manufacture of inorganic pigments and opacifiers

06 11 01 calcium-based reaction wastes from titanium dioxide production

06 13 wastes from inorganic chemical processes not otherwise specified

06 13 03 carbon black

06 13 04* wastes from asbestos processing

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 wastes containing silicones other than those mentioned in 07 02 16

07 03 wastes from the MFSU of organic dyes and pigments (except 06 11)

07 03 12 sludges from on-site effluent treatment other than those mentioned in 07 03 11

07 04 wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides

07 04 12 sludges from on-site effluent treatment other than those mentioned in 07 04 11

07 05 wastes from the MFSU of pharmaceuticals

07 05 12 sludges from on-site effluent treatment other than those mentioned in 07 05 11

07 05 14 solid wastes other than those mentioned in 07 05 13

07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

07 06 12 sludges from on-site effluent treatment other than those mentioned in 07 06 11

07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified

07 07 12 sludges from on-site effluent treatment other than those mentioned in 07 07 11

08 Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (Paints, Varnishes and Vitreous Enamels), Adhesives, Sealants and Printing Inks

08 01 wastes from MFSU and removal of paint and varnish

08 01 12 waste paint and varnish other than those mentioned in 08 01 11

08 01 14 sludges from paint or varnish other than those mentioned in 08 01 13

08 01 16 aqueous sludges containing paint or varnish other than those mentioned in 08 01 15

08 01 18 wastes from paint or varnish removal other than those mentioned in 08 01 17

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

08 02 01 waste coating powders

08 02 02 aqueous sludges containing ceramic materials

08 03 wastes from MFSU of printing inks

08 03 07 aqueous sludges containing ink

08 03 13 waste ink other than those mentioned in 08 03 12

08 03 15 ink sludges other than those mentioned in 08 03 14

08 03 18 waste printing toner other than those mentioned in 08 03 17

08 04 wastes from MFSU of adhesives and sealants (including 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

09 01 12 single-use cameras containing batteries other than those mentioned in 09 01 11

10 Wastes from Thermal Processes

10 01 wastes from power stations and other combustion plants (except 19)

10 01 01 bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)

10 01 02 coal fly ash

10 01 03 fly ash from peat and untreated wood

10 01 05 calcium-based reaction wastes from flue-gas desulphurisation in solid form

10 01 15 bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14

10 01 17 fly ash from co-incineration other than those mentioned in 10 01 16

10 01 19 wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18

10 01 21 sludges from on-site effluent treatment other than those mentioned in 10 01 20

10 01 23 aqueous sludges from boiler cleansing other than those mentioned in 10 01 22

10 01 24 sands from fluidised beds

10 01 25 wastes from fuel storage and preparation of coal-fired power plants

10 01 26 wastes from cooling-water treatment

10 02 wastes from the iron and steel industry

10 02 01 wastes from the processing of slag

10 02 02 unprocessed slag

10 02 08 solid wastes from gas treatment other than those mentioned in 10 02 07

10 02 10 mill scales

10 02 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 waste 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 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 15

10 11 16 solid wastes from flue-gas treatment other than those mentioned in 10 11 15

10 11 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17

10 11 20 solid wastes from on-site effluent treatment other than those mentioned in 10 11 19

10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products

10 12 01 waste preparation mixture before thermal processing

10 12 03 particulates and dust

10 12 05 sludges and filter cakes from gas treatment

10 12 06 discarded moulds

10 12 08 waste ceramics, bricks, tiles and construction products (after thermal processing)

10 12 10 solid wastes from gas treatment other than those mentioned in 10 12 09

10 12 12 wastes from glazing other than those mentioned in 10 12 11

10 12 13 sludge from on-site effluent treatment

10 13 wastes from manufacture of cement, lime and plaster and articles and products made from them

10 13 01 waste preparation mixture before thermal processing

10 13 04 wastes from calcination and hydration of lime

10 13 06 particulates and dust (except 10 13 12 and 10 13 13)

10 13 07 sludges and filter cakes from gas treatment

10 13 10 wastes from asbestos-cement manufacture other than those mentioned in 10 13 09

10 13 11 wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10

10 13 13 solid wastes from gas treatment other than those mentioned in 10 13 12

10 13 14 waste concrete and concrete sludge

11 Wastes from chemical surface treatment and coating of metals and other materials; Non-Ferrous Hydro-Metallurgy

11 01 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)

11 01 10 sludges and filter cakes other than those mentioned in 11 01 09

11 01 12 aqueous rinsing liquids other than those mentioned in 11 01 11

11 01 14 degreasing wastes other than those mentioned in 11 01 13

11 02 wastes from non-ferrous hydrometallurgical processes

11 02 03 wastes from the production of anodes for aqueous electrolytical processes

11 02 06 wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05

11 05 wastes from hot galvanising processes

11 05 01 hard zinc

11 05 02 zinc ash

12 Wastes from shaping and physical and mechanical surface treatment of Metals and Plastics

12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics

12 01 01 ferrous metal filings and turnings

12 01 02 ferrous metal dust and particles

12 01 03 non-ferrous metal filings and turnings

12 01 04 non-ferrous metal dust and particles

12 01 05 plastics shavings and turnings

12 01 13 welding wastes

12 01 15 machining sludges other than those mentioned in 12 01 14

12 01 17 waste blasting material other than those mentioned in 12 01 16

12 01 21 spent grinding bodies and grinding materials other than those mentioned in 12 01 20

15 Waste Packaging; Absorbents, Wiping Cloths, Filter Materials and Protective Clothing not otherwise specified

15 01 packaging (including separately collected municipal packaging waste)

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 03 wooden packaging

15 01 04 metallic packaging

15 01 05 composite packaging

15 01 06 mixed packaging

15 01 07 glass packaging

15 01 09 textile packaging

15 02 absorbents, filter materials, wiping cloths and protective clothing

15 02 03 absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

16 Wastes not otherwise specified in the list

16 01 end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)

16 01 06 end-of-life vehicles, containing neither liquids nor other hazardous components

16 01 11* brake pads containing asbestos

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 wastes from electrical and electronic equipment

16 02 14 discarded equipment other than those mentioned in 16 02 09 to 16 02 13

16 02 16 components removed from discarded equipment other than those mentioned in 16 02 15

16 03 off-specification batches and unused products

16 03 04 inorganic wastes other than those mentioned in 16 03 03

16 03 06 organic wastes other than those mentioned in 16 03 05

16 05 gases in pressure containers and discarded chemicals

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 08 04 spent fluid catalytic cracking catalysts (except 16 08 07)

16 11 waste linings and refractories

16 11 02 carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01

16 11 04 other linings and refractories from metallurgical processes other than those mentioned in 16 11 03

16 11 06 linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05

17 Construction and Demolition Wastes (including excavated soil from contaminated sites)

17 01 concrete, bricks, tiles and ceramics

17 01 01 concrete

17 01 02 bricks

17 01 03 tiles and ceramics

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

17 02 wood, glass and plastic

17 02 01 wood

17 02 02 glass

17 02 03 plastic

17 03 bituminous mixtures, coal tar and tarred products

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

17 04 metals (including their alloys)

17 04 01 copper, bronze, brass

17 04 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 01* insulation materials containing asbestos

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

17 06 05* construction materials containing asbestos

17 08 gypsum-based construction material

17 08 02 gypsum-based construction materials other than those mentioned in 17 08 01

17 09 other construction and demolition wastes

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

18 Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)

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

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

18 01 07 chemicals other than those mentioned in 18 01 06

18 02 wastes from research, diagnosis, treatment or prevention of disease involving animals

18 02 03 wastes whose collection and disposal is not subject to special requirements in order to prevent infection

18 02 06 chemicals other than those mentioned in 18 02 05

19 Wastes from waste management facilities, off-site waste water treatment plants and the Preparation of Water Intended for Human Consumption and Water for Industrial Use

19 01 wastes from incineration or pyrolysis of waste

19 01 02 ferrous materials removed from bottom ash

19 01 12 bottom ash and slag other than those mentioned in 19 01 11

19 01 14 fly ash other than those mentioned in 19 01 13

19 01 16 boiler dust other than those mentioned in 19 01 15

19 01 18 pyrolysis wastes other than those mentioned in 19 01 17

19 01 19 sands from fluidised beds

19 02 wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)

19 02 03 premixed wastes composed only of non-hazardous wastes

19 02 06 sludges from physico/chemical treatment other than those mentioned in 19 02 05

19 02 10 combustible wastes other than those mentioned in 19 02 08 and 19 02 09

19 03 stabilised/solidified wastes

19 03 05 stabilised wastes other than those mentioned in 19 03 04

19 03 07 solidified wastes other than those mentioned in 19 03 06

19 04 vitrified waste and wastes from vitrification

19 04 01 vitrified waste

19 05 wastes from aerobic treatment of solid wastes

19 05 01 non-composted fraction of municipal and similar wastes

19 05 02 non-composted fraction of animal and vegetable waste

19 05 03 off-specification compost

19 06 wastes from anaerobic treatment of waste

19 06 04 digestate from anaerobic treatment of municipal waste

19 06 06 digestate from anaerobic treatment of animal and vegetable waste

19 08 wastes from waste water treatment plants not otherwise specified

19 08 01 screenings

19 08 02 waste from desanding

19 08 05 sludges from treatment of urban waste water

19 08 12 sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11

19 08 14 sludges from other treatment of industrial waste water other than those mentioned in 19 08 13

19 09 wastes from the preparation of water intended for human consumption or water for industrial use

19 09 01 solid waste from primary filtration and screenings

19 09 02 sludges from water clarification

19 09 03 sludges from decarbonation

19 09 04 spent activated carbon

19 09 05 saturated or spent ion exchange resins

19 09 06 solutions and sludges from regeneration of ion exchangers

19 10 wastes from shredding of metal-containing wastes

19 10 01 iron and steel waste

19 10 02 non-ferrous waste

19 10 04 fluff-light fraction and dust other than those mentioned in 19 10 03

19 10 06 other fractions other than those mentioned in 19 10 05

19 11 wastes from oil regeneration

19 11 06 sludges from on-site effluent treatment other than those mentioned in 19 11 05

19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified

19 12 01 paper and cardboard

19 12 02 ferrous metal

19 12 03 non-ferrous metal

19 12 04 plastic and rubber

19 12 05 glass

19 12 07 wood other than that mentioned in 19 12 06

19 12 08 textiles

19 12 09 minerals (for example sand, stones)

19 12 10 combustible waste (refuse derived fuel)

19 12 12 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

19 13 wastes from soil and groundwater remediation

19 13 02 solid wastes from soil remediation other than those mentioned in 19 13 01

19 13 04 sludges from soil remediation other than those mentioned in 19 13 03

19 13 06 sludges from groundwater remediation other than those mentioned in 19 13 05

20 Municipal wastes (household waste and similar commercial industrial and institutional wastes) Including separately collected fractions

20 01 separately collected fractions (except 15 01)

20 01 01 paper and cardboard

20 01 02 glass

20 01 08 biodegradable kitchen and canteen waste

20 01 10 clothes

20 01 11 textiles

20 01 25 edible oil and fat

20 01 28 paint, inks, adhesives and resins other than those mentioned in 20 01 27

20 01 30 detergents other than those mentioned in 20 01 29

20 01 34 batteries and accumulators other than those mentioned in 20 01 33

20 01 36 discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35

20 01 38 wood other than that mentioned in 20 01 37

20 01 39 plastics

20 01 40 metals

20 01 41 wastes from chimney sweeping

20 02 garden and park wastes (including cemetery waste)

20 02 01 biodegradable waste

20 02 02 soil and stones

20 02 03 other non-biodegradable wastes

20 03 other municipal wastes

20 03 01 mixed municipal waste

20 03 02 waste from markets

20 03 03 street-cleaning residues

20 03 04 septic tank sludge

20 03 06 waste from sewage cleaning

20 03 07 bulky waste

Schedule 4 – Emissions and monitoring

Table S4.1 Leachate level limits and monitoring requirements

Monitoring point reference/ Description	Limit*	Monitoring frequency	Monitoring method
C1W2XR	103m AOD	Monthly	In accordance with Agency Guidance
C1W3XR	107m AOD		
C2W2X	100m AOD		
C2W3X	102m AOD		
C3W2X	105m AOD		
C3W6X	103m AOD		
C4W1M	95m AOD		
C4W2M	96m AOD		
C5W4X	95m AOD		
C5W6X	97m AOD		
C6W3X	101m AOD		
C7W1X	106m AOD		
C7W2XR	107m AOD		
C8W1X	100m AOD		
C8W5XR	107m AOD		
C9W1X	103m AOD		
C9W3XR	101m AOD		
C10W2X	100m AOD		
C10W5XR	101m AOD		
C11W1X	106m AOD		
C11W3XR	104m AOD		
C12W3XR	101m AOD		
C12W4XR	98m AOD		
C13W2X	96m AOD		
C13W3XR	98m AOD		
C14W2XR	96m AOD		
C14W3XR	96m AOD		
C15W2XR	97m AOD		
C15W3XR	96m AOD		
C16W6XR	100m AOD		
C16W7XR	99m AOD		
C17W2XR	99m AOD		
C17W3XR	100m AOD		
P1W2X	97m AOD		
P1W9X	96m AOD		
P2W1X	96m AOD		
P2W2X	96m AOD		
P3W2X	94m AOD		
P3W13XR	95m AOD		
P4W1X	93m AOD		
P4W3X	93m AOD		
P5W4XR	95m AOD		
P6W7X	93m AOD		
P6W8X	92m AOD		

Table S4.1 Leachate level limits and monitoring requirements

Monitoring point reference/ Description	Limit*	Monitoring frequency	Monitoring method
P7W3X	94m AOD	Monthly	In accordance with Agency Guidance
P7W5XR	94m AOD		
P8W2XR	94m AOD		
P8W3XR	95m AOD		
P9W2X	94m AOD		
P9W3XR	95 m AOD		
P10W1X	93m AOD		
P10W3X	93m AOD		
P11W1X	91m AOD		
P11W4XR	93m AOD		
P12W5XR	95m AOD		
P13W5X	97m AOD		
P13W7XR	96m AOD		
CM6W1X	95m AOD		
CM6W2X	95m AOD		
P14W1 mono	93m AOD		
P14W2 mono	95m AOD		
P14CLM4	95m AOD		
P14CLM5	96m AOD		

* - Prior to 05/07/2011 the leachate head within each cell shall be managed in accordance with SITA proposed initial level, specified in Document IC_6C ' Examination of leachate levels pursuant with improvement condition 6C' submitted 31 January 2007.

From 06/07/2011 the leachate head within each cell shall not exceed the compliance limit set out in Table S4.1above.

Table S4.2 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	
SW1, SW2, SW3, SW4	Biological Oxygen Demand	Surface water	5mg/l	Spot Sample	Monthly (during the months of April to September inclusive)	In accordance with Agency Guidance	
	Suspended Solids		45mg/l				
	Ammoniacal-N		2mg/l				
	Oil And Grease		None visible				
		Biological Oxygen Demand			6mg/l	Monthly (during the months of October to March inclusive)	
		Suspended Solids			75mg/l		
		Ammoniacal-N			3mg/l		
		Oil And Grease			None visible		
Bannerley Brook A120, River Blythe B210, Denbigh Stream D60	Ammoniacal-N Chloride	Surface water	1.1mg/l 250mg/l	Spot Sample	Monthly	In accordance with Agency Guidance	

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
PM03, PM04, PM19	Ammoniacal-N	1.7mg/l	Spot Sample	Quarterly	In accordance with Agency Guidance
	Chloride	666mg/l			
	Nickel	0.08mg/l			
	Mecoprop	0.4µg/l			
	Phenol	0.5µg/l			
	Naphthalene	0.5µg/l			
PM69, PM71, PM72	Ammoniacal-N	2.2mg/l	Spot Sample	Quarterly	In accordance with Agency Guidance
	Chloride	1600mg/l			
	Nickel	0.08mg/l			
	Mecoprop	0.4µg/l			
	Phenol	0.5µg/l			
	Naphthalene	0.5µg/l			
PM32, PM45	Ammoniacal-N	2.0mg/l	Spot Sample	Quarterly	In accordance with Agency Guidance
	Chloride	250mg/l			
	Nickel	0.08mg/l			
	Mecoprop	0.4µg/l			
	Phenol	0.5µg/l			
	Naphthalene	0.5µg/l			
PM09a, PM114U	Ammoniacal-N	408mg/l	Spot Sample	Quarterly	In accordance with Agency Guidance
	Chloride	1820mg/l			
	Nickel	0.08mg/l			
	Mecoprop	0.4µg/l			
	Phenol	0.5µg/l			
	Naphthalene	0.5µg/l			

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
PA/GM1, PA/GM2, PA/GM3, PA/GM4, PA/GM5, PA/GM6, PA/GM7, PA/GM10, PA/GM11, PA/GM12, PA/GM17, PA/GM18, PA/GM19, PA/GM20, PA/GM21, PA/GM22, PA/GM23, PA/GM24, PA/GM26, PA/GM27, PA/GM28, PA/GM29, PA/GM30, PA/GM31, PA/GM32, PA/GM33, PA/GM34, PA/GM35, PA/GM36, PA/GM37, PA/GM38	Methane	1 %v/v	Monthly	In accordance with Agency Guidance
	Carbon Dioxide	5 %v/v*		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Meteorological data	no limit		
PA/GM8, PA/GM9, PA/GM14, PA/GM16, PA/GM25, PA/GM46, PA/GM47, PA/GM48, PA/GM49, PA/GM50, PM19, PM31, PM56.	Methane	1 %v/v	Quarterly	In accordance with Agency Guidance
	Carbon Dioxide	5 %v/v*		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Meteorological data	no limit		

* - The limits specified shall take account of the agreed background concentrations as detailed in Appendix M Landfill Gas Monitoring Action Plan 2001.

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.	As per LFTGN 07 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.	As per LFTGN 07 or as otherwise agreed in writing by the Agency*.

* - 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. 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
Individual gas extraction wellheads (or manifold) as identified on Drawing Lpl-PCB-0403-11	Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Differential pressure Gas flow rate or suction	Monthly		Where the Oxygen level exceeds 5% or where the addition of the Carbon Dioxide and Methane percentages is less than 80%, an assessment of air ingress into the system shall be undertaken Where the concentration of carbon monoxide exceeds 100ppm then further investigation shall be undertaken.
Input to LFG Utilisation Compound or at Manifolds as appropriate	Trace gas analysis in accordance with LFTGN04.	Annually		The concentration of trace gas components shall be assessed against the assumptions made in the Landfill gas risk assessment and dispersion modelling.
Input to LFG Utilisation Compound	Methane Carbon Dioxide Oxygen Gas flow rate	Weekly until review under improvement condition 14 completed.		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
Leachate extraction well within each of the following: Cell C1, Cell C2, Cell C3, Cell C4, Cell C5, Cell C6, Cell C7, Cell C8, Cell C9, Cell C10, Cell C11, Cell C12, Cell C13, Cell C14, Cell C15, Cell C16, Cell C17, Cell P1, Cell P2, Cell P3, Cell P4, Cell P5, Cell P6, Cell P7, Cell P8, Cell P9, Cell P10, Cell P11, Cell P12, Cell P13, Cell P14A, P14B & P14C	Ammoniacal-N Chloride Nickel	Monthly	In accordance with Agency Guidance	
	Mecoprop Naphthalene Electrical Conductivity pH Chromium Zinc Total Alkalinity Magnesium Potassium Copper Iron Lead Cadmium Manganese Sulphate Calcium Sodium Biological Oxygen Demand Chemical Oxygen Demand Total Organic Carbon Total Organic Nitrogen Dissolved Oxygen Phenol	Quarterly	In accordance with Agency Guidance	
	List I suite Base of Monitoring Point (mAOD)	Annually	In accordance with Agency Guidance	
Leachate extraction well within Cell P14B & P14C	Total Petroleum Hydrocarbons Poly-Aromatic Hydrocarbons	Quarterly	In accordance with Agency Guidance	

Table S4.8 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
Bannerley Brook A120, River Blythe B210, Denbigh Stream D60, A10, A40, A110, B100, N10, N40, T35, T36 & T37	Ammoniacal-N Chloride pH Electrical Conductivity Suspended solids Sulphate Sodium Potassium Calcium Magnesium Total Alkalinity Cadmium Chromium Manganese Iron Copper Lead Nickel Zinc Mercury Phenol Mecoprop Chemical Oxygen Demand Dissolved Oxygen Biological Oxygen Demand Total Oxidised Nitrogen	Quarterly	In accordance with Agency Guidance	

Table S4.9 Groundwater – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
BH0A, BH0B, BH0D, BH0E, BH0F(S), BH0F(D), GM6, GM7, PM03, PM04, PM06, PM08, PM09a, PM19, PM20, PM21a, PM22a, PM23, PM24, PM28, PM31, PM32, PM33, PM34, PM39a, PM42, PM43, PM44, PM45, PM56, PM64, PM65, PM67, PM69, PM71, PM72, PM74, PM114U, PM114L PM120L & PM120U.	Full List I analyses Monitoring point base(mAOD) Groundwater Level (mAOD)	Annually Annually Monthly	In accordance with Agency Guidance	

Table S4.9 Groundwater – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
BH0A, BH0B, BH0D, BH0E, BH0F(S), BH0F(D), GM6, GM7, PM03, PM04, PM06, PM08, PM09a, PM19, PM20, PM21a, PM22a, PM23, PM24, PM28, PM31, PM32, PM33, PM34, PM39a, PM42, PM43, PM44, PM45, PM56, PM64, PM65, PM67, PM69, PM71, PM72, PM74, PM114U, PM114L, PM120L & PM120U.	Mecoprop Naphthalene Phenol Ammoniacal-N Chloride Nickel pH Electrical Conductivity Sulphate Sodium Potassium Calcium Magnesium Total Alkalinity Cadmium Chromium Manganese Iron Copper Lead Zinc COD, TOC, BOD, TON	Quarterly	In accordance with Agency Guidance	

Table S4.10 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
Installation boundary	Methane in ambient air	10 ppmv		Monthly	Flame Ionisation Detector
Installation boundary	Hydrogen sulphide in ambient air	10 ppbv		On exceedance of the methane limit	

Table S4.11 Particulate matter in ambient air - limits and monitoring requirements

Monitoring Point Ref. /Description	Parameter	Limit (Including Unit)	Monitoring Frequency	Monitoring Standard or Method
Weighbridge. At active cell perimeter down-gradient of the prevailing wind direction.	Particulate Matter (PM ¹⁰)	50µg/m ³ 35 times a year single exceedance	Weekly	In accordance with Agency Guidance
1 upwind at site boundary. 2 downwind at site boundary	Deposited Dust	200mg/m ²	Monthly	In accordance with Agency Guidance
1 upwind at site boundary. 1 centrally within active cell. 1 downwind at cell boundary. 1 downwind at site boundary	Fibres	0.001 fibres/ml above the background concentration at the site	Quarterly	In accordance with Agency Guidance
1 upwind at site boundary. 1 centrally within active cell. 1 downwind at cell boundary 1 downwind at site boundary	Asbestos fibres	0.001 asbestos fibres/ml above the background concentration at the site	In the event that the above fibres limit is exceeded, analysis shall be undertaken by scanning electron microscope (SEM) or energy dispersive analysis by X-ray (EDAX). Where asbestos fibres are detected by this analysis, the actions detailed in the Asbestos Fibres Action Plan shall be instigated.	In accordance with Agency Guidance

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	C7W1X, C7W2XR, C8W1X, C8W5XR, C9W1X, C9W3XR, C10W2X, C10W5XR, C11W1X, C11W3XR, C12W3XR, C12W4XR, C13W2X, C13W3XR, C14W2XR, C14W3XR, C15W2XR, C15W3XR, C16W6XR, C16W7XR, C17W2XR, C17W3XR, P1W2X, P1W9X, P2W1X, P2W2X, P3W2X, P3W13XR, P4W1X, P4W3X, P5W4XR, P6W7X, P6W8X, P7W3X, P7W5XR, P8W2XR, P8W3XR, P9W2X, P9W3XR, P10W1X, P10W3X, P11W1X, P11W4XR, P12W5XR, P13W5X, P13W7XR, CM6W1X, CM6W2X, P14W1 mono, P14W2 mono, P14CLM4, P14CLM5.	Every 3 Months	09/07/2007
Emissions to water Parameters as required by condition 3.6.1	SW1, SW2, SW3, SW4, Bannerley Brook A120, River Blythe B210, Denbigh Stream D60.	Every 3 months	09/07/2007
Groundwater Parameters as required by condition 3.6.1	PM03, PM04, PM19 PM69, PM71, PM72 PM32, PM45, PM09a, PM114U.	Every 6 Months	09/07/2007
Ambient air monitoring Parameters as required by condition 3.6.1	Installation boundary	Every 6 months	09/07/2007
Landfill gas surface emissions Parameters as required by condition 3.6.1	Permanently capped zone Temporarily capped zone	Every 12 months	09/07/2007
Particulate matter (PM ¹⁰) Parameters as required by condition 3.6.1	Weighbridge & Active cell perimeter down-gradient of the prevailing wind direction.	Every 6 months	09/07/2007
Deposited dust	1 upwind at site boundary. 2 downwind at site boundary		
Fibres & Asbestos Fibres	1 upwind at site boundary. 1 centrally within active cell. 1 downwind at cell boundary. 1 downwind at site boundary		

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Landfill gas lateral migration Parameters as required by condition 3.6.1	PA/GM1, PA/GM2, PA/GM3, PA/GM4, PA/GM5, PA/GM6, PA/GM7, PA/GM10, PA/GM11, PA/GM12, PA/GM17, PA/GM18, PA/GM19, PA/GM20, PA/GM21, PA/GM22, PA/GM23, PA/GM24, PA/GM26, PA/GM27, PA/GM28, PA/GM29, PA/GM30, PA/GM31, PA/GM32, PA/GM33, PA/GM34, PA/GM35, PA/GM36, PA/GM37, PA/GM38	Every 3 months	09/07/2007
	PA/GM8, PA/GM9, PA/GM14, PA/GM16, PA/GM25, PA/GM46, PA/GM47, PA/GM48, PA/GM49, PA/GM50, PM19, PM31, PM56.	Every 6 months	
Other Landfill gas monitoring Parameters as required by condition 3.6.1	Individual gas extraction wellheads as identified on Drawing Lpl-PCB- 0403-11	Every 3 months	09/07/2007
	Input to LFG Utilisation Compound	Weekly until review under improvement condition 13 completed.	
Trace gas analysis	Input to LFG Utilisation Compound or at Manifolds as appropriate	Every 12 months	
Other leachate monitoring Parameters as required by condition 3.6.1	Leachate abstraction well within each of the following:	Every 3 months	09/07/2007
	Cell C1, Cell C2, Cell C3, Cell C4, Cell C5, Cell C6, Cell C7, Cell C8, Cell C9, Cell C10, Cell C11, Cell C12, Cell C13, Cell C14, Cell C15, Cell C16, Cell C17, Cell P1, Cell P2, Cell P3, Cell P4, Cell P5, Cell P6, Cell P7, Cell P8, Cell P9, Cell P10, Cell P11, Cell P12, Cell P13, Cell P14A, P14B & P14C	Every 12 months	
Other surface water monitoring Parameters as required by condition 3.6.1	Bannerley Brook A120, River Blythe B210, Denbigh Stream D60, A10, A40, A110, B100, N10, N40, T35, T36 & T37	Every 3 months	09/07/2007
Other groundwater monitoring Parameters as required by condition 3.6.1	BH0A, BH0B, BH0D, BH0E, BH0F(S), BH0F(D), GM6, GM7, PM03, PM04, PM06, PM08, PM09a, PM19, PM20, PM21a, PM22a, PM23, PM24, PM28, PM31, PM32, PM33, PM34, PM39a, PM42, PM43, PM44, PM45, PM56, PM64, PM65, PM67, PM69, PM71, PM72, PM74, PM114U, PM114L PM120L & PM120U.	Every 6 months	09/07/2007
	List 1 Screen Base of Monitoring Point	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
Energy used (including for leachate treatment)	Annually		MWh of electricity

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 SITA UK 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 affect the agreed design criteria, specification or performance in a way that has a negative effect.

“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