



ENVIRONMENT AGENCY

ENVIRONMENTAL PROTECTION ACT 1990.
WASTE MANAGEMENT LICENCE.



LICENCE REF No :- EAWML26022

FACILITY TYPE :- Landfill,
Transfer Station

The Environment Agency, in pursuance of Part II of the Environmental Protection Act 1990, hereby grant a waste management licence authorising the disposal, keeping and treatment of controlled waste on or in the land specified in schedule 1 to this licence to Westcombe Waste Ltd, Freshfields, Cartway Lane, Somerton, Somerset TA11 6JH, company registration number 2205997 those persons being in occupation of the said land, the said licence being subject to the conditions specified in schedule 2 to this licence.

SCHEDULE 1. - SPECIFIED LAND.

The licence relates to the land at Whiscombe Hill, Somertonfield Road, Somerton Somerset (hereinafter called "the site") shown edged red on Drawing Reference Number 51137/001RevB, dated 6-1-00, and attached to this licence.

Signed Stan Chandler Name SD CHANDLER
Area Environment Planning Manager - North Wessex

Dated 1st March 2001

FOR ENVIRONMENT AGENCY OFFICIAL USE ONLY.

YOUR ATTENTION IS DRAWN TO THE RIGHTS OF APPEAL DETAILED IN THE NOTES AT THE END OF THIS LICENCE.



SCHEDULE 2 CONDITIONS RELATING TO THIS LICENCE

General considerations

1.1 Specified waste management operations

1.1.1 No waste management operations shall be authorised by this licence unless:

- a specified in and undertaken in accordance with the limitations in section 2.1 of the working plan;
or
- b otherwise required by the conditions of this licence as being an integral part of those operations:

Table 1.1 Specified waste management operations

Specified Waste Management Operation	Permitted Waste Types which may be subject to the Specified Operation	Limits on Specified Waste Management Operations
D1: Tipping of waste above or underground	As specified in section 2.2 of the working plan	In cells 1, 2 and 3
D5: Specially engineered landfill of waste	As specified in section 2.2 of the working plan	In cells 1, 2 and 3
D9: Physico-chemical treatment of waste not listed elsewhere in this table which results in final compounds or mixtures which are disposed of on this site by means of any of the category 'D' operations authorised under this column, or elsewhere than on this site, by means of any of the operations listed in Part III of Schedule 4 of the 1994 Regulations.	As specified in section 2.2 of the working plan	In the recycling area only
R2: Recycling or reclamation of organic substances which are not used as solvents.	As specified in section 2.2 of the working plan	In the recycling area only
R3: Recycling or reclamation of metals and metal compounds.	As specified in section 2.2 of the working plan	In the recycling area only
R4: Recycling or reclamation of other inorganic materials.	As specified in section 2.2 of the working plan	In the recycling area only

Specified Waste Management Operations and Exempt Waste Management Operations

- 1.1.2 Where wastes are being brought onto the site for waste management operations which are exempt from licensing under the 1994 Regulations, then the wastes which are subject to the specified waste management operations shall be kept clearly segregated and identified from those wastes which are being kept on the site for the exempt waste management operations.

1.2 Permitted wastes

Permitted categories and types of wastes

- 1.2.1 No wastes other than those which are both categorised below in Table 1.2.A and specified in detail in section 2.2 of the working plan shall be accepted at the site.

Permitted quantities of wastes

- 1.2.2 The quantities of wastes accepted shall not exceed those listed in Table 1.2.A and specified in detail in section 2.1 of the working plan. Whilst complying with the maximum quantities specified for each type of waste, the total quantity of waste accepted at the site per year shall not exceed 25,000 tonnes.

Table 1.2.A Permitted quantities of waste

Permitted Waste Categories	Maximum Permitted Quantities (tonnes/year)
Inert wastes	25,000 minus [total quantity of degradable industrial wastes and metal wastes] tonnes per year
Metal wastes	500 tonnes per year
Special Wastes	'Not Permitted
Degradable Household Wastes Degradable Commercial Wastes Degradable Industrial Wastes [excepting wastes specifically categorised under 'other wastes' below].	25,000 minus [total quantity of inert wastes and metal wastes] tonnes per year degradable industrial wastes degradable household and degradable commercial wastes not permitted
Other wastes:	Not Permitted

Exclusion of wastes with other specified characteristics

- 1.2.3 Notwithstanding the specification of permitted waste types under conditions 1.2.1 above, wastes shall not be accepted at the site which have any of the following characteristics:

Table 1 2 B Excluded wastes of specified form and type

Waste Characteristic	Type
Form and Type:	Powders Sludges Liquids Wet wastes Consisting of or containing List I substances Consisting of or containing List II substances
Properties:	Odour producing Likely to be dust producing
Form of containers and degree of mixing within containers:	Drums

1.3 Hours of operation

The specified waste management operations authorised by this licence shall only be carried out within the times specified in section 2.4 of the working plan.

1.4 Duration of activities - groundwater protection

1.4.1 Subject to the terms of this condition, the activities of disposal, or tipping for the purpose of disposal, of waste, that are authorised by this licence shall cease on 1 September 2004, unless by that date the Licence Holder has submitted to the Agency a written review of the report referenced Report No 51137/R2 (Ref. 51137/R130100.doc) which shows that, at the specified date, the level of risk to groundwater meets the terms of Regulation 15 of the 1994 Regulations.

1.4.2 In the event that the continuation of activities is authorised in accordance with this condition beyond 1 September 2004, they shall cease on every fourth anniversary thereafter, unless, by each of those dates, the Licence Holder has submitted to the Agency a further written review of the Report which shows that, at the specified dates, the level of risk to groundwater meets the terms of Regulation 15 of the 1994 Regulations.

Investigation and risk assessment under regulation 15

1.4.3 The reviews submitted to the Agency shall include the results of any investigations and reviews carried out, and, in particular, reviews of the following aspects of the Report :

- a recommendations of the essential technical precautions which must be taken, paying particular attention to the nature and concentration of the substances present in the matter being disposed of or tipped, the characteristics of the receiving environment and the proximity of the water catchment areas, in particular those for drinking, thermal and mineral water;
- b recommendations of the technical precautions necessary:

- i In the case where groundwater is considered to be permanently unsuitable for other uses, to ensure that no substance in list I can reach other aquatic ecosystems or harm other ecosystems, to ensure that the presence of any list I substance once discharged into the groundwater will not impede exploitation of ground resources and to prevent pollution of groundwater by list II substances; and
- ii in the case where groundwater is not considered to be permanently unsuitable for other uses, to prevent any discharges into groundwater of substances in list I and to prevent any pollution of groundwater by substances in list II.

1.5 Staffing and understanding of requirements of licence conditions and working plan

Minimum staffing and supervision

- 1.5.1 Whenever the site is open to receive or despatch waste, or is carrying out any of the specified waste management treatment or disposal operations, it shall be supervised in accordance with section 2.5 of the working plan by staff who are suitably trained and fully conversant with the requirements of the licence and the working plan regarding:
- a waste acceptance and control procedures;
 - b operational controls and environmental monitoring;
 - c maintenance;
 - d record-keeping;
 - e emergency action plans;
 - f notifications to the Agency.

Availability of licence and working plan

- 1.5.2 A copy of this licence and the working plan shall be kept available on site for reference when required by all site staff carrying out work under the requirements of the licence.

Understanding of licence and working plan

- 1.5.3 All site staff shall be, or shall work under the direct supervision of a member of staff who is, fully conversant with those aspects of the licence conditions and working plan which are relevant to their specific duties.

1.6 Changes in technically competent persons

- 1.6.1 Any changes in the technically competent management of the site and the name of any incoming person together with evidence that such person has the required technical competence shall be submitted to the Agency in writing within 5 working days of the change in management. Technically competent management and technical competence shall be as defined under section 74 of the Environmental Protection Act 1990 and Regulations 4 and 5 of the 1994 Regulations.

1.7 **Relevant convictions**

Notification of relevant convictions

- 1.7.1 In the event of the Licence Holder and/or any relevant person being convicted of any relevant offence and which is in addition to any already notified to the Agency, then full details shall be provided to the Agency within 14 days following sentencing, whether or not the conviction or sentence is subsequently appealed. Such details shall include, in respect of each relevant person (as defined in section 74(7) of the Environmental Protection Act 1990 or any subsequent amendments to that section), the nature of the offence, the place and date of conviction, and any fine or other penalty imposed.

Notifications of appeals against convictions

- 1.7.2 In the event that the Licence Holder and/or any relevant person lodges an appeal against any such conviction or sentence, the Licence Holder shall notify the Agency of this within 14 days of the lodging. The Licence Holder shall notify the Agency of the results of that appeal, within 14 days of the appeal being decided.

1.8 **Maintenance of financial provision**

- 1.8.1 The financial provision for meeting the obligations under this Licence set out in the Agreement made between the Licence Holder and the Agency dated the same as this waste management licence shall be maintained by the Licence Holder throughout the subsistence of this Licence and the Licence Holder shall produce evidence of such provision whenever required by the Agency.

1.9 **Amendments to working plan and supporting information**

Amendments to working plan requiring prior consent from the Agency

- 1.9.1 The Licence Holder shall give the Agency prior notice in writing of any proposed change to those sections of the working plan which are specified in Table 1.9 below, and to any appendices, drawings and figures which are referenced in those sections.

Table 1.9 Sections of working plan requiring prior consent for amendments

Number and Heading of Working Plan Sections and Appendices	Sections, Subsections and Appendices requiring Prior Consent for Amendments
2 Site description and characterisation of risk source	2.1 Specified site and waste management operations 2.2 Permitted wastes 2.3 Excluded wastes
3 Site engineering for pollution and prevention and control	3.1 General 3.2 Engineered site containment and drainage systems (recycling facility) 3.3 Engineered landfill containment system (Phase 2 – Cells 1, 2 and 3) 3.4 Leachate management system 3.5 Landfill gas management system 3.6 Surface water management systems 3.7 Final capping system
4 Site infrastructure	4.1 Site roads 4.3 Wheel cleaning facilities 4.6 Site Security
5 Site operations	5.1 Control of mud and debris 5.3 Waste acceptance, control systems and procedures 5.5 Storage of unacceptable wastes – recycling facility 5.6 Sorting – process equipment and procedures 5.7 Waste Discharge and emplacement 5.8 Use of daily and intermediate cover 5.10 Potentially polluting leaks and spillages of waste
6 Pollution control, monitoring and reporting	6.1 Monitoring of landfill gas 6.2 Leachate monitoring and reporting 6.3 Groundwater monitoring and reporting 6.4 Surface water and undercell drainage monitoring and reporting
7 Amenity management and monitoring	7.1 Control, monitoring and reporting of dust 7.2 Control of odours 7.3 Control and monitoring of noise 7.4 Control of pest infestations 7.5 Control of scavenging birds and other scavengers 7.6 Control of litter
Appendices	Appendix A Waste to be accepted for landfilling at Whiscombe Hill Appendix B Waste acceptance Appendix C Waste discharge and

	<p>emplacement</p> <p>Appendix E Environmental monitoring plan</p> <p>Appendix H CQA plan for engineering construction of cells 1, 2, 3 and recycling area</p>
Supplementary documents	<p>Appendix I Specification for engineering construction of cells 1, 2, 3 and recycling area</p> <p>Appendix J Leachate treatment and disposal system</p> <p>Appendix K CQA plan for leachate treatment and disposal system</p> <p>Appendix L Specification for Phase 1, 2, 3 capping</p> <p>Appendix N Restoration plan</p> <p>Appendix O CQA plan for the installation and maintenance of the landfill gas monitoring points, collection and control scheme</p>
Drawings	<p>51137 Fig 2 Landfill gas monitoring</p> <p>51137/001 Rev B Existing site layout plan (1999) and phased restoration</p> <p>51137/002 Rev A Sections A-A to C-C</p> <p>51137/003 Rev D Plan of proposed phase 2 extension and recycling facility</p> <p>51137/004 Rev A Sections D-D and F-F</p> <p>51137/005 Rev A Construction details</p>

- 1.9.2 The notice shall be accompanied by a copy of the proposed changes, and by a written assessment of the effect that implementing the proposed change to the working plan would have on the risk posed by the site to human health and the environment.
- 1.9.3 The Licence Holder shall provide up to 6 additional copies of the proposed change and supporting risk assessment to the Agency, when required by the Agency in writing.
- 1.9.4 The proposed change to the working plan shall not be implemented unless the Agency has given its written consent to it. Following consent, the Licence Holder shall give the Agency prior written notification of the implementation date of the change, and from that date the changed section shall be deemed to be incorporated in the working plan in replacement of the previous version of that section.

Amendments to the working plan requiring prior notification to the Agency

- 1.9.5 Except where it is specified under condition 1.9.1 above that the amendment of specified sections of the working plan requires the prior consent of the Agency, the Licence Holder shall give the Agency not less than 7 days prior written notice of any change to the working plan and to any appendices, drawings and figures which are referenced from those sections.
- 1.9.6 The notice shall be accompanied by a copy of the specified changes.
- 1.9.7 The Licence Holder shall provide up to 6 additional copies of the proposed change to the Agency, when required by the Agency in writing.

1.9.8 Such changes to the working plan shall be deemed to be incorporated in the working plan and implemented on the date specified to the Agency in the amendment notification.

1.10 **Notification of change of operator's or holder's details**

1.10.1 The following information shall be notified in writing within 5 working days to the Agency:

- a where the Licence Holder is an individual or named individuals:
 - i where the Licence Holder consists of more than one named individual, the death of any of those individuals;
 - ii any change in the Licence Holder's name(s) or address(es);
 - iii any steps taken with a view to the Licence Holder, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case them being in a partnership, dissolving the partnership;
 - iv the operator at the time of issue of the licence and of any change in the operator or in the operator's trading name, address, registered name or registered office address (if different from the Licence Holder);
- b where the Licence Holder is a registered company:
 - i any change in the Licence Holder's trading name, registered name or registered office address;
 - ii any steps taken with a view to the Licence Holder going into administration, entering into a company voluntary arrangement or being wound up;
 - iii the operator at the time of issue of the licence and of any change in the operator or in the operator's trading name, address, registered name or registered office address (if different from the Licence Holder);
- c where the Licence Holder is a corporate body other than a registered company:
 - i any change in the Licence Holder's name or address;
 - ii any steps taken with a view to the dissolution of the Licence Holder;
 - iii the operator at the time of issue of the licence and of any change in the operator or in the operator's trading name, address, registered name or registered office address (if different from the Licence Holder)

1.11 **Notification of preparatory works**

1.11.1 No preparatory works shall be undertaken until at least 7 days prior notice in writing has been given to the Agency of the intention to do so. The notification shall include details of what work is being done and when.

1.12 **Notification of commencement, cessation and recommencement of waste handling operations**

Specified waste management operations

1.12.1 No specified waste management operation shall be carried out until at least 7 days prior notice in writing has been given to the Agency of the intention to commence carrying out the specified waste management operation.

Cessation and recommencement of receiving wastes

- 1.12.2 In the event that the site ceases receiving wastes for longer than 3 months then within 7 days following the elapse of that time, the Licence Holder shall inform the Agency in writing of the date of cessation and of the planned date of recommencement. In the event that the site recommences receiving wastes sooner than the notified date then the Licence Holder shall give the Agency not less than 7 days prior notice in writing.

1.13 **Notifications and submissions to Agency**

- 1.13.1 Except where otherwise specified, all notifications and submissions to the Agency under the requirements of these licence conditions:
- a shall be made in writing to the address specified by the Agency in writing at the time of issue of this licence, or as subsequently specified by written notification to the Licence Holder;
 - b shall quote the licence reference number and the name of the Licence Holder.

2 Site engineering for pollution prevention and control

2.1 Engineering surveys

- 2.1.1 A network of stable, permanent survey control stations [minimum four] shall be established and maintained for the control of all survey work around the site. The stations shall be referenced to Ordnance Survey National Grid co-ordinates, the grid alignment to be within +/-1 metre and Levels referenced to Ordnance Datum. The accuracy of horizontal control shall not be less than 1:20 000. The level values of adjacent stations shall agree to less than or equal to 0.005 metres. No waste shall be accepted at the site until a schedule of descriptions, co-ordinates and level values of all control stations, together with details of Bench Marks used, has been submitted in writing to the Agency.
- 2.1.2 A topographic survey shall be carried out immediately before the start of filling of each phase or cell, at annual intervals (unless otherwise agreed in writing by the Agency), and at the completion of restoration. The scale shall adequately show surveyed features and be at least 1:625. The surveys shall be sufficient to produce plans that include all roads, structures, boundaries, monitoring points and all other relevant site features. The results of the survey shall be presented as a plan, including the immediate neighbouring landform or an indication of that landform. Plan positions of ground features to be shown to within 1 metre. Spot levels to 0.01m shall be shown at significant landform changes to a density to adequately indicate the true landform, no greater than 50 metre interval in open areas of even gradient, closer when indicating embankments, stockpiles, etc. A calculation of void space in cubic metres, taking account of settlement, shall be carried out at start and at each annual survey. The results of the survey and the calculation shall be submitted to the Agency within 1 month of the survey being carried out.

2.2 Engineered site containment and drainage systems

Provision and maintenance of site containment and drainage systems

- 2.2.1 No waste shall be deposited, stored, treated or otherwise handled in the recycling area of the site until the engineered site containment and drainage system for the recycling area has been constructed and completed in accordance with this condition, section 3.2 and Appendix H of the working plan and drawing no. 51137/003 Rev D or approved revisions showing:
- a Layout of areas of hardstanding;
 - b Layout of areas of impermeable pavement; and
 - c Layout of drainage systems, including details of the following, where provided:
 - i kerbing;
 - ii interceptors ;
 - iii discharge points ;
 - iv sumps;
 - v sealed drainage;
 - vi isolation systems;
 - d Location and layout of covered buildings and roofed areas, where provided;
 - e Location and design of fixed tanks – above ground and underground – where provided, with layout of bunds and impermeable pavements or other engineered secondary containment;

- f Location and layout of storage areas for drums and other mobile tanks and containers holding potentially polluting or hazardous wastes in liquid, sludge or powder form with layout of silled or bunded areas and impermeable pavements.

2.2.2 The engineered site containment and drainage systems shall be designed, constructed, inspected, validated and maintained, and shall be fully documented and recorded, to be fit for purpose and to meet the standards specified in section 3.2 of the working plan.

Construction quality assurance of new site containment and drainage systems

2.2.3 No wastes shall be deposited, stored, treated or otherwise handled in the recycling area for which an engineered site containment and drainage system has been newly constructed to meet the requirements of this condition until:

- a details of the identities, relevant experience and relevant qualifications of the personnel who will be providing Quality Assurance of the engineered site containment and drainage systems have been submitted in writing to the Agency and acknowledged in writing by the Agency;
- b the engineered site containment and drainage system has been constructed in accordance with Appendix H of the working plan;
- c the Validation Report on the construction of the engineered site containment and drainage system has been submitted in writing to the Agency and has been acknowledged in writing by the Agency.

2.3 **Engineered landfill containment system for solid and liquid wastes (leachate and gas generating)**

Provision of engineered landfill containment

2.3.1 Waste shall only be deposited in cells or phases which have an engineered landfill containment system which is constructed, completed, documented and recorded in accordance with section 3.3 and Appendix H of the working plan.

Construction quality assurance of engineered landfill containment

2.3.2 No wastes shall be deposited in any cell unless:

- a prior to construction, a Construction Quality Assurance Plan covering all elements of the engineered landfill containment system for that cell has been submitted in writing to the Agency and the Agency has given its written consent to it;
- b prior to construction, details of the identities, relevant experience and relevant qualifications of the personnel who will be providing third party or independent Quality Assurance of the construction have been submitted in writing to the Agency and acknowledged in writing by the Agency
- c the engineered containment system for that cell has been constructed and recorded in accordance with the Construction Quality Assurance Plan;
- d all changes to the Construction Quality Assurance Plan, third party or independent quality assurance, and detailed method statements have been notified in writing to the Agency, and the Agency has given its written consent to those changes;
- e the Validation Report on the construction of the engineered containment system for that cell has been submitted in writing to the Agency and has been acknowledged in writing by the Agency.

2.4 Leachate management systems

- 2.4.1 Waste shall only be deposited in cells which have an engineered leachate management system constructed, documented and recorded in accordance with section 3.4 and Appendix K of the working plan.
- 2.4.2 The engineered leachate management system provided for each cell shall be used to maintain depths of leachate within the maximum permitted depth within each cell, in accordance with section 3.4 of the working plan.

2.5 Landfill gas management systems

Provision of landfill gas management system

- 2.5.1 When monitoring of the landfill gas levels in the waste (see condition 5.1) indicate that there is sufficient landfill gas to support an engineered landfill gas management system, such system shall be constructed, completed, documented and recorded in accordance with section 3.5 and Appendix O of the working plan and conditions 2.5.3, 2.5.4, 2.5.5 and 2.5.6 below.
- 2.5.2 The engineered landfill gas management system provided for each cell shall be operated and maintained, and fully documented and recorded, in accordance with section 3.5 and Appendix O of the working plan and the standards specified in Table 2.1 below.

Table 2.1 Landfill gas management system standards

Landfill gas management system	Specified standards
Design of landfill gas management system	The system shall be designed to comply with BAT (Best available techniques) requirements at the time the system is required
Operation of landfill gas management systems	The landfill gas management system shall prevent the controlled or uncontrolled emission of methane from the landfill site to the ground, air or water.
Location of landfill gas monitoring points within the waste body	Minimum of 2 monitoring points per hectare in the unengineered area and a minimum of 2 monitoring points per engineered cell in the engineered phase
Installation of landfill gas monitoring points within the waste body	Installation of the monitoring points shall not damage or penetrate the base of the site or cell lining

Construction quality assurance of landfill gas management systems

- 2.5.3 Prior to construction, a Construction Quality Assurance Plan covering all elements of the engineered landfill gas management system for that cell or phase and details of the identities, relevant experience and relevant qualifications of the personnel who will be providing Quality Assurance of the construction shall be submitted in writing to the Agency and the Agency shall give its written consent to the Construction Quality Assurance Plan and acknowledge the details of the personnel providing the Quality Assurance of the construction in writing.

- 2.5.4 The engineered landfill gas management system for that cell or phase shall be constructed and recorded in accordance with the Construction Quality Assurance Plan, and the construction shall be completed within 6 months of the approval of the scheme.
- 2.5.5 Changes to the Construction Quality Assurance Plan, third party or independent quality assurance, and detailed method statements as referenced in Appendix O of the working plan shall not be implemented unless they have been notified in writing to the Agency, and the Agency has given its written consent to those changes.
- 2.5.6 Within 1 calendar month following completion of the specified engineering works for each cell or phase, the Validation Report on the construction of the engineered landfill gas collection and extraction system for that cell shall be submitted in writing to the Agency.

2.6 **Engineered surface water management systems**

Provision of engineered surface water management systems

- 2.6.1 Engineered surface water management systems for the site and each cell or phase shall be provided, which shall have been constructed, completed, documented and recorded in accordance with section 3.6 and Appendix H of the working plan.
- 2.6.2 The engineered surface water management system provided for each cell shall be operated and maintained, and fully documented and recorded in accordance with section 3.6 of the working plan.

2.7 **Installation, maintenance and protection of final capping**

Provision of final cap

- 2.7.1 No cell or phase shall be left without a final cap for longer than 6 months or such longer period as may be agreed in writing by the Agency after the final levels of waste specified in section 3.8 of the working plan have been attained.
- 2.7.2 Each final cap shall be designed, constructed, maintained and protected in accordance with section 3.7 and Appendices L and M of the working plan.

Construction quality assurance of final cap

- 2.7.3 No wastes shall be deposited in any cell or phase until a Construction Quality Assurance Plan covering the final cap for that cell or phase has been submitted in writing to the Agency and the Agency has given its written consent to it.
- 2.7.4 At least one month prior to the commencement of capping details of the identities, relevant experience and relevant qualifications of the personnel who will be providing Quality Assurance of the construction have been submitted in writing to the Agency and acknowledged in writing by the Agency.
- 2.7.5 The engineered final cap for that cell or phase shall be constructed and recorded in accordance with the Construction Quality Assurance Plan.
- 2.7.6 Changes to the Construction Quality Assurance Plan, and to the quality assurance procedures and detailed method statements as referenced in Appendix M of the working plan shall not be implemented unless they have been notified in writing to the Agency, and the Agency has given its written consent to those changes.

2.7.7 Within 1 calendar month following completion of the final cap for each cell, the Validation Report on the construction of the final cap for that cell shall be submitted in writing to the Agency.

2.8 **Site completion - final landform and engineering**

2.8.1 In the event that the specified waste management operations on the site cease and it is confirmed to the Agency that they will not be resumed, the Licence Holder shall ensure that any uncompleted cells are provided with the leachate and landfill gas collection and extraction systems and final cap and protection required under the other conditions of this licence, so as to achieve a landform that meets the following standards:

- a maximum gradient of 1 in 4;
- b minimum gradient of 1 in 25;
- c surface water is drained from the cell to a surface water drainage system provided in accordance with condition 2.6.

3 Site infrastructure

3.1 Provision of site identification board

- 3.1.1 No wastes shall be received at the site until an identification board has been provided at or near the site entrance.
- 3.1.2 The identification board shall be inspected at least once per week. In the event of damage or defect, the board shall be repaired or replaced within 7 working days.
- 3.1.3 The board shall be easily readable from outside the site entrance in daylight hours, and shall display the following information:

- a Site name and address;
- b Licence Holder name (company name, not individual name unless justified as necessary);
- c Licence number;
- d Emergency contact name and telephone number (for security reasons, personal names and home phone numbers should not be used except where no alternative is practicable);
- e Statement that the site is licensed by the Environment Agency;
- f Agency national numbers: 0845 9333111 and 0800 807060;
- g Days and hours site is open to receive waste.

The location of the noticeboard should be such that it is clear that it does not designate areas outside the licensed site and does not encourage illegal tipping.

3.2 Site security

- 3.2.1 Site security systems shall be provided at all times during the subsistence of this licence, the objective of which shall be to prevent access by humans and livestock which is not authorised either by the Licence Holder or under legal powers of entry. These shall be installed, operated and maintained, and shall be fully documented and recorded, in accordance with section 4.6 of the working plan.

4 Site operations

4.1 Control of mud and debris

Prevention of mud and debris on road

- 4.1.1 Whenever the site is receiving or despatching wastes or landfill engineering works are being carried out, measures shall be provided, operated and maintained in accordance with sections 4.3 and 5.1 of the working plan, with the objective of preventing the deposit or tracking of mud or debris arising from the site onto public areas outside the site, which shall include public highways and areas of public access outside the site.
- 4.1.2 All vehicles leaving areas of the site which are operational or upon which engineering works are being carried out shall, before leaving the site, be cleaned as necessary using the specified equipment and shall be checked to ensure that they are clear of loose waste and that their loads are secure.
- 4.1.3 The surface condition of the site roads shall be checked daily to ensure that the surface remains free from holes, cracks or deformation and can be maintained to prevent mud or other debris being carried onto the public highway. Any holes, cracks or deformation shall be repaired within 7 days of discovery.

Remediation of mud and debris on road

- 4.1.4 In the event that mud or debris arising from the site is deposited onto public areas outside the site, remedial measures shall be implemented immediately, in accordance with section 5.1 of the working plan.

4.2 Potentially polluting leaks and spillages of waste

Potentially polluting leaks and spillages from vehicles, plant and equipment

- 4.2.1 All vehicles used on the site by the operator, and all plant and all equipment used on the site in connection with specified waste management operations, shall be operated and maintained with the objective of preventing potentially polluting leaks and spillages of wastes.

Control and remediation of leaks and spillages

- 4.2.2 In the event of any potentially polluting leak or spillage occurring on site, documented control and remediation procedures shall be implemented immediately and recorded, in accordance with section 5.10 of the working plan.

Leak and spillage action plan

- 4.2.3 In the event of any leak or spillage which may compromise the effectiveness of the pollution control regime and which either is leading or may imminently lead to pollution of the environment, harm to human health or serious detriment of the amenities of the locality, a Leak and Spillage Action Plan shall be implemented immediately and recorded, in accordance with section 5.10 of the working plan.

4.3 **Fires on the site**

Prohibition of unauthorised fires on site

- 4.3.1 No wastes shall be burned on the site.

Fire action plan

- 4.3.2 In the event of a fire on the site, a fire action plan shall be implemented immediately and recorded, in accordance with section 5.2 and appendix E of the working plan and the following standards:
- a prevent contaminated water or other materials used to extinguish the fire from entering the surface water ditches and Whiscombe Brook
 - b prevent as far as is possible pollution of the environment or harm to human health by materials used to extinguish the fire or by combustion products from the fire
 - c any water used to extinguish the fire shall be analysed before disposal to ascertain the correct disposal route
 - d inform the Agency as soon as possible

4.4 **Waste acceptance and control procedures**

Waste acceptance procedures

- 4.4.1 All wastes shall be received, inspected, accepted or rejected, and recorded in accordance with section 5.3 and appendix B of the working plan

Waste control procedures

- 4.4.2 All wastes accepted at the site shall be handled, kept and recorded in accordance with sections 5.3.1, 5.5 and 5.6 of the working plan.

Waste despatch procedures

- 4.4.3 All outgoing wastes shall be inspected, despatched and recorded in accordance with section 5.3.3 of the working plan.

4.5 **Waste quantity measurement systems**

Means of measurement

- 4.5.1 All wastes accepted at and despatched from the site shall be measured in accordance with section 5.4 and appendix B of the working plan

4.6 **Sorting- process, plant and equipment and procedures**

Sorting

- 4.6.1 Sorting shall only be carried out on the site in accordance with section 5.6 of the working plan.

- 4.6.2 No sorting shall take place until proposals for construction and operation of the recycling area have been agreed by the Agency in writing.

4.7 Waste discharge and emplacement

Methods and procedures of waste discharge and emplacement

- 4.7.1 No wastes shall be deposited in any phase or cell of the landfill other than in accordance with section 5.7 and appendix C of the working plan.

4.8 Use of daily cover and intermediate cover

Daily cover

- 4.8.1 The working surface of areas of the site used for the deposit of degradable wastes shall be treated so that by the end of the working day all parts of such wastes deposited are covered. The methods, materials and depths of cover shall be in accordance with sections 5.7 and 5.8 of the working plan

Intermediate cover

- 4.8.2 In the event that no wastes are deposited in a phase or cell within 3 months of the previous deposit, the surface of the site shall be provided and maintained with an intermediate cover of sufficient thickness and durability that no waste is exposed, that no uncontrolled aerial releases occur, and to a suitable gradient to ensure that excess rainfall is shed from the surface of the site into the surface water management system.
- 4.8.3 No wastes shall be deposited on the intermediate cover, other than those required to form part of the engineered final cap and its protection.
- 4.8.4 The methods of installation, maintenance and removal, the materials and the thicknesses of intermediate cover shall be in accordance with section 5.8 of the working plan.

4.9 Removal of residual wastes from site

- 4.9.1 In the event that the specified waste management operations on the site cease and the Agency has reasonable grounds to believe that they will not be resumed within 3 months then, notwithstanding the operational limits on storage times of wastes specified in the other conditions of this licence, the licence holder shall ensure that all wastes remaining on the site shall be removed by the date specified by the Agency in writing. This shall not apply to any wastes which have been disposed of on the site in accordance with the other conditions of this licence or prior to the issue of this licence.

5 Pollution control, monitoring and reporting

5.1 Landfill gas monitoring and reporting within the waste and engineered containment

Landfill gas monitoring and sampling programme

- 5.1.1 Monitoring and sampling of landfill gas within the waste body of phase 1 and the engineered containment of each cell or phase shall be carried out and recorded in accordance with this condition and section 6.1 of the working plan and the standards specified in Table 5.1.A below.

Table 5.1.A Standards for landfill gas monitoring and sampling programme

Landfill gas monitoring determinands	Monitoring frequencies	Units and accuracies	Trigger levels
Methane	As given in appendix E of the working plan	% vol and L.E.L. and to 0.1%	>10% vol
Carbon dioxide	As for methane	% vol and to 0.1%	>10% vol
Oxygen	As for methane	% vol and to 0.1%	<18% vol
Temperature	As for methane	°C±0.5°C	
Atmospheric pressure	As for methane	mbar to 1mbar and whether rising or falling	N/A

Landfill gas monitoring and sampling records

- 5.1.2 A record of the landfill gas monitoring and sampling results shall be made and submitted to the Agency in accordance with section 6.1 of the working plan and the standards specified in Table 5.1.B below.

Table 5.1.B Standards for landfill gas monitoring and sampling records

Landfill gas monitoring and sampling records	Specified standards
Quality assurance of monitoring and sampling	<ul style="list-style-type: none"> a) Meters used to measure concentrations of constituent gases, atmospheric pressure and landfill gas temperature shall be serviced and calibrated in accordance with the manufacturers guidance (servicing documentation and calibration data shall be made available to the Agency on written request) b) Samples of landfill gas from at least one borehole shall be collected and sent for laboratory analysis to check accuracy of meters used on site, (results shall be reported to the Agency within 1 month of receipt of the results, the laboratory report shall include details of the method of analysis and whether the method is accredited) c) Personnel carrying out landfill gas monitoring shall be trained in the use of the meters and equipment for collecting samples of gas for laboratory analysis. Details of the training shall be forward to the Agency on written request.
Making of records	<p>Records should include the following:</p> <ul style="list-style-type: none"> a) Date and time sampling took place (day/month/year, hour/minute) b) Site and monitoring point (waste management licence number, sampling point identifier) c) Name of person carrying out the monitoring d) Serial number(s) of meter(s) used for sampling/monitoring. e) Concentrations of methane, carbon dioxide and oxygen; atmospheric pressure; landfill gas temperature. Including error limits. f) Whether monitoring is routine, QA/QC or non-routine. g) Interpretation and review of results against previous results; <p>Validation of accuracy and validity of results, by designated quality assurer.</p>
Submission of records	<p>A copy of the quality assured records of each monitoring and sampling result shall be submitted to the Agency within 1 month of its being carried out, either on paper or in electronic format (floppy disc or e-mail)</p>

Landfill gas generation action plan

- 5.1.3 In the event that any results exceed the trigger level specified in Table 5.1.A above:
- a) the results shall be notified to the Agency in writing within 5 working days
 - b) the landfill gas generation action plan specified in Table 5.1.C shall be implemented within the time scales given in Table 5.1.C.

Table 5.1.C Standards for landfill gas generation action plan

Landfill gas generation action plan - Specified standards

- a) Repeat monitoring in the relevant boreholes within 24 hours to determine whether the levels in excess of trigger levels are still present (using same meters if operating correctly).
- b) Check that results have been correctly recorded and reported.
- c) Test sampling/monitoring equipment to check whether operating correctly.
- d) If levels in excess of the trigger levels are recorded then the frequency of monitoring both externally to the waste and engineered cells and within the waste shall be increased to a level agreed, in writing, with the Agency to determine whether landfill gas control measures are required.
- e) Continue monitoring at increased frequency until reduction in frequency is agreed, in writing, with the Agency.
- f) If the trigger level given for methane is equalled or exceeded over a 6 month period then further investigations into the level of landfill gas production shall be carried out to determine the need for, and type of, engineered landfill gas control and management scheme.
- g) If required, an engineered landfill gas control scheme shall be proposed, agreed and installed within 6 months of the date the scheme is agreed.

5.2 **Landfill gas monitoring and reporting external to the waste and engineered containment**

Provision of engineered external landfill gas monitoring system

- 5.2.1 The engineered landfill gas monitoring system provided to enable monitoring of the gases in the ground outside the waste body and engineered containment system shall be maintained in accordance with this condition and section 6.1 of the working plan.
- 5.2.2 Where additions to the engineered external landfill gas monitoring system provided phase 1 and the cells in phase 2 are required, the additions shall be:
- a) designed, constructed, completed, and shall be fully documented and recorded; and
 - b) inspected and maintained, and fully documented and recorded;
- in accordance with section 6.1 of the working plan and the standards specified in Table 5.2.A below.

Table 5.2.A Standards for landfill gas monitoring system (external to the waste)

External landfill gas monitoring system requirements	Specified standards
Inspection and maintenance of landfill gas monitoring systems	Monitoring boreholes shall be inspected for defects and damage during each routine monitoring exercise. Defects and damage shall be noted in the site diary, remedial measures shall be undertaken as soon as possible and in any case within 1 month.
Records	A record shall be kept of all remedial actions undertaken. During construction of any new or replacement boreholes a record shall be made of the subsurface geology encountered during drilling. The geology shall be described by an appropriately qualified geotechnical engineer or similar person, who shall also provide a record of the 'as-built' dimensions of the monitoring borehole.

Construction quality assurance of landfill gas monitoring systems

- 5.2.3 New or replacement monitoring boreholes shall not be installed until:
- a a Construction Quality Assurance Plan covering the design construction and installation of the monitoring boreholes has been submitted in writing to the Agency and the Agency has given its written consent to it;
 - b details of the identities, relevant experience and relevant qualifications of the personnel who will be providing Quality Assurance of the construction have been submitted in writing to the Agency and acknowledged in writing by the Agency.
- 5.2.4 The new or replacement monitoring boreholes shall be constructed and recorded in accordance with the Construction Quality Assurance Plan.
- 5.2.5 Changes to the Construction Quality Assurance Plan, quality assurance, and detailed method statements as referenced in Appendix O of the working plan shall not be implemented unless they have been notified in writing to the Agency, and the Agency has given its written consent to those changes.
- 5.2.6 Within 1 calendar month following completion of the installation of the new or replacement monitoring boreholes, the Validation Report on the construction of the engineered external landfill gas monitoring system for that cell shall be submitted in writing to the Agency.

Landfill gas monitoring and sampling programme

- 5.2.7 Monitoring and sampling of landfill gas external to the waste body and engineered containment of each cell or phase shall be carried out and recorded in accordance with section 6.1 of the working plan and the standards specified in Table 5.2.B below.

Table 5.2.B Standards for landfill gas monitoring and sampling programme (external to the waste)

Landfill gas monitoring determinands	Monitoring frequencies	Units and accuracies	Trigger levels
Methane	As given in appendix E of the working plan	% vol and % L.E.L. and to 0.1% and 0.5% LEL	1.0% vol above background.
Carbon dioxide	As for methane	% vol and to 0.1%	1.5% vol above background.
Oxygen	As for methane	% vol and to 0.1%	Not applicable.
Differential pressure	As for methane		Not applicable.
Atmospheric pressure	As for methane		Not applicable.

Baseline monitoring results

- 5.2.8 No wastes shall be deposited in a cell until the results of background monitoring, obtained in accordance with section 6 and Appendix E of the working plan, and covering a period of 12 consecutive months prior to the programmed date for commencing deposit in such cell, have been collected, interpreted and a report compiled and submitted to the Agency and their receipt has been acknowledged in writing by the Agency.

Monitoring and sampling records

- 5.2.9 A record of the landfill gas monitoring and sampling results shall be made and submitted to the Agency in accordance with section 6.1 of the working plan and the standards specified in Table 5.1.B above.

Landfill gas monitoring action plan

- 5.2.10 In the event that any results exceed the trigger level specified in section 6.1 of the working plan:
- a the results shall be notified to the Agency immediately and confirmed in writing immediately;
 - b the landfill gas generation action plan specified in section 6.1 of the working plan and Table 5.2.C below shall be implemented immediately.

Table 5.2.C Standards for landfill gas monitoring action plan

Landfill gas monitoring action plan - Specified standards

- a) Repeat monitoring in all relevant boreholes within 24 hours to determine whether the levels in excess of trigger levels are still present (using the same meters if these are operating correctly).
- b) Test sampling/monitoring equipment to check that it is operating correctly.
- c) Check that results have been correctly recorded and reported.
- d) If the levels in excess of the trigger levels are correct then the frequency of monitoring shall be increased to a level agreed, in writing, with the Agency.
- e) Continue monitoring at the increased frequency until a reduction in frequency is agreed, in writing, with the Agency.
- f) If necessary a landfill gas control scheme shall be proposed, agreed and installed within a time scale agreed in writing with the Agency, but not longer than 6 months from the date on which the scheme was agreed.
- g) If a landfill gas control scheme is in place changes to the scheme must be investigated and implemented after written agreement with the Agency.
- h) If necessary a second line of monitoring boreholes shall be installed between the existing boreholes and any properties that may be at risk. These boreholes shall be monitored at a frequency agreed, in writing, with the Agency. A trigger level of 0.5% by vol of methane shall apply to these boreholes.

5.3 Leachate monitoring and reporting

Leachate monitoring and sampling programme

- 5.3.1 Monitoring and sampling of leachate arising in each cell or phase shall be carried out and recorded for each of the leachate monitoring points specified under condition 2.4, in accordance with this condition and section 6.2 of the working plan.

Leachate monitoring and sampling records

- 5.3.2 A record of the leachate monitoring and sampling results shall be made and submitted to the Agency in accordance with section 6.2 of the working plan and the standards specified in Table 5.3.A below.

Table 5.3.A Standards for monitoring and sampling records for leachate

Leachate Monitoring and Sampling Records	Specified Standards
Quality assurance of monitoring and sampling	<ul style="list-style-type: none"> a) Samples taken at the same identified locations on each occasion (monitoring points and sampling method to be agreed with the Agency prior to the start of sampling) b) Repeat/blank samples used to check sampling and analytical methods c) Use a laboratory with NAMAS, UKAS or equivalent accreditation for required analyses d) Personnel taking water samples must be aware of agreed sampling procedure
Making of records	<p>Records should include the following:</p> <ul style="list-style-type: none"> a) Date and time sampling took place (day/month/year, hour/minute) b) Site and monitoring point (waste management licence number, sampling point identifier) c) Name of person carrying out the monitoring d) Date received by the laboratory e) Date of analysis f) Id number for chain of custody of the sample g) Determinands to be analysed for h) Results of analyses for each determinand i) Whether monitoring is routine, QA/QC or non-routine j) Interpretation and review of results against previous results k) Validation of accuracy and validity of results, by designated quality assurer.
Submission of records	A copy of the quality assured records of each monitoring and sampling result shall be submitted to the Agency within 1 month of its being carried out, either on paper or in electronic format (floppy disc or e-mail)

Leachate generation action plan

5.3.3 In the event that any results exceed the trigger level specified in section 6.2 and appendix E of the working plan:

- a** the results shall be notified to the Agency immediately and confirmed in writing immediately;
- b** the leachate generation action plan specified in Table 5.3.B below shall be implemented immediately.

Table 5.3.B Standards for leachate generation action plan

Leachate generation action plan - Specified standards
<ul style="list-style-type: none"> a) If maximum depth of leachate is exceeded, recheck the results and equipment used for measuring the depth b) If the maximum depth of leachate is exceeded check the flow rate of the leachate through the leachate collection system. If the system is blocked the system should be flushed if possible or an alternative method of draining the leachate from the cell must be installed.

Table 5.3.B Standards for leachate generation action plan

Leachate generation action plan - Specified standards

- c) If List I species are found in the leachate the groundwater and surface water below the site discharge points should be analysed for List I species.

Reference elevations for leachate level monitoring points

- 5.3.4 On installation of each leachate level monitoring point, a reference elevation mark shall be permanently inscribed on the leachate level monitoring point and levelled-in to Ordnance Datum.
- 5.3.5 If the value of the reference elevation mark is changed as a result of damage, alteration, extension or movement to a monitoring point, the mark shall be re-levelled. Re-levelling shall take place before the next monitoring round or within 2 weeks, whichever is the sooner.

5.4 Groundwater monitoring and reporting systems

Provision of engineered groundwater monitoring system

- 5.4.1 The engineered groundwater monitoring system provided to enable monitoring of the groundwater outside the waste body and engineered containment system shall be maintained in accordance with this condition and section 6.3 of the working plan.

- 5.4.2 Where additions to the engineered external groundwater monitoring system provided for the site are required, the additions shall be:

- a) designed, constructed, completed, and shall be fully documented and recorded; and
- b) inspected and maintained, and fully documented and recorded;

in accordance with section 6.3 of the working plan and the standards specified in Table 5.4.A below.

Table 5.4.A Standards for groundwater monitoring and sampling system

Groundwater monitoring systems	Specified standards
Inspection and maintenance of groundwater monitoring systems	<ul style="list-style-type: none"> a) Monitoring boreholes shall be inspected for defects and damage during each routine monitoring exercise. Defects and damage shall be noted in the site diary, remedial measures shall be undertaken as soon as possible and in any case within 1 month b) Maintain clear and easily accessible access to the monitoring boreholes (this includes control of vegetation around the borehole).
Records	<ul style="list-style-type: none"> a) A record shall be kept of all remedial actions undertaken

Construction quality assurance of groundwater management systems

- 5.4.3 No new or replacement groundwater monitoring boreholes shall be installed until:
- a) a Construction Quality Assurance Plan covering the design, construction and installation for that borehole has been submitted in writing to the Agency, and the Agency has given its written consent to it;

- b details of the identities, relevant experience and relevant qualifications of the personnel who will be providing Quality Assurance of the construction have been submitted in writing to the Agency and acknowledged in writing by the Agency;
- c the engineered external groundwater monitoring system has been constructed and recorded in accordance with the Construction Quality Assurance Plan;
- d changes to the Construction Quality Assurance Plan, quality assurance, and detailed method statements as referenced in Appendix O of the working plan have been notified in writing to the Agency, and the Agency has given its written consent to those changes prior to their implementation;
- e the Validation Report on the construction of the engineered groundwater monitoring system has been submitted in writing to the Agency and acknowledged in writing by the Agency.

Groundwater monitoring and sampling programme

- 5.4.4 Monitoring and sampling of groundwater external to the waste body and engineered containment of each cell or phase shall be carried out and recorded in accordance with section 6.3 and appendix E of the working plan.

Baseline monitoring results

- 5.4.5 No wastes shall be deposited in the site until the results of baseline monitoring, obtained in accordance with section 6.3 and appendix E of the working plan, and covering a period of 6 consecutive months prior to the programmed date for commencing deposit in the site, have been collected, interpreted and a report compiled and submitted to the Agency and their receipt has been acknowledged in writing by the Agency.

Groundwater monitoring and sampling records

- 5.4.6 A record of the groundwater monitoring and sampling results shall be made and submitted to the Agency in accordance with section 6.3 of the working plan and the standards specified in Table 5.4.B below.

Table 5.4.B Standards for groundwater monitoring and sampling records

Groundwater Monitoring and Sampling Records	Specified Standards
Quality assurance of monitoring and sampling	<ul style="list-style-type: none"> a) Samples taken at the same identified locations on each occasion (monitoring points and sampling method to be agreed with the Agency prior to the start of sampling) b) Repeat/blank samples used to check sampling and analytical methods c) Use a laboratory with NAMAS, UKAS or equivalent accreditation for required analyses d) Personnel taking water samples must be aware of agreed sampling procedure
Making of records	<p>Records should include the following:</p> <ul style="list-style-type: none"> a) Date and time sampling took place (day/month/year, hour/minute) b) Site and monitoring point (waste management licence number, sampling point identifier) c) Name of person carrying out the monitoring d) Date received by the laboratory e) Date of analysis f) Id number for chain of custody of the sample g) Determinands to be analysed for h) Results of analyses for each determinand i) Whether monitoring is routine, QA/QC or non-routine j) Interpretation and review of results against previous results k) Validation of accuracy and validity of results, by designated quality assurer.
Submission of records	<p>A copy of the quality assured records of each monitoring and sampling result, with an interpretation of the results against background and trigger levels, shall be submitted to the Agency, within 1 month of its being carried out, either on paper or in electronic format (floppy disc or e-mail)</p>

Groundwater monitoring action plan

5.4.7 In the event that any results exceed the trigger level specified in section 6.3 and appendix E of the working plan:

- a) the results shall be notified to the Agency immediately and confirmed in writing immediately;
- b) the groundwater generation action plan specified in section 6.3 of the working plan and Table 5.4.C below shall be implemented immediately.

Table 5.4.C Standards for groundwater monitoring action plan

Groundwater monitoring action plan - Specified standards

- a) Repeat samples as soon as results indicate levels above the trigger levels given in section 6.3 of the working plan and Table 5.4.B above
- b) Check the sampling procedure for cross contamination or mislabelling of samples
- c) Check that the results have been recorded and reported correctly
- d) Check the laboratory QA/QC procedure for cross contamination, mislabelling of samples
- e) Identify the likely source of the contamination
- f) Short and long term engineering works to prevent contamination to a standard and within a time scale agreed, in writing, with the Agency

Reference elevations for groundwater monitoring points

- 5.4.8 On installation of each groundwater level monitoring point, a reference elevation mark shall be permanently inscribed on the groundwater level monitoring point and levelled-in to Ordnance Datum.
- 5.4.9 If the value of the reference elevation mark is changed as a result of damage, alteration, extension or movement to a monitoring point, the mark shall be re-levelled. Re-levelling shall take place before the next monitoring round or within 2 weeks, whichever is the sooner.

5.5 Surface water quality monitoring and reporting systems

Provision of surface water monitoring system

- 5.5.1 Monitoring of surface water quality shall take place at locations that are physically marked and that are described in section 6.4 of the working plan and plan/drawing reference number 51137/003 Rev D, to ensure that periodic measurements of quality are taken at the same position.

Surface water monitoring and sampling programme

- 5.5.2 Monitoring and sampling of surface water in the vicinity of the site shall be carried out and recorded in accordance with section 6.4 and appendix E of the working plan.

Baseline monitoring results

- 5.5.3 No wastes shall be deposited in the site until the results of baseline monitoring, obtained in accordance with section 6.3 and appendix E of the working plan, and covering a period of 12 consecutive months prior to the programmed date for commencing deposit in the site, have been collected, interpreted and a report compiled and submitted to the Agency and their receipt has been acknowledged in writing by the Agency.

Monitoring and sampling records

- 5.5.4 A record of the surface water monitoring and sampling results shall be made and submitted to the Agency in accordance with section 6.4 of the working plan and the standards specified in Table 5.5.A below.

Table 5.5.A Standards for surface water monitoring and sampling records

Surface water monitoring and Sampling Records	Specified standards
Quality assurance of monitoring and sampling	<ul style="list-style-type: none"> a) Samples taken at the same identified locations on each occasion (monitoring points and sampling method to be agreed with the Agency prior to the start of sampling) b) Repeat/blank samples used to check sampling and analytical methods c) Use a laboratory with NAMAS, UKAS or equivalent accreditation for required analyses d) Personnel taking water samples must be aware of agreed sampling procedure
Making of records	<p>Records should include the following:</p> <ul style="list-style-type: none"> a) Date and time sampling took place (day/month/year, hour/minute) b) Site and monitoring point (waste management licence number, sampling point identifier) c) Name of person carrying out the monitoring d) Date received by the laboratory e) Date of analysis f) Id number for chain of custody of the sample g) Determinands to be analysed for h) Results of analyses for each determinand i) Whether monitoring is routine, QA/QC or non-routine j) Interpretation and review of results against previous results k) Validation of accuracy and validity of results, by designated quality assurer.
Submission of records	<p>A copy of the quality assured records of each monitoring and sampling result, with an interpretation of the results against background and trigger levels, shall be submitted to the Agency, within 1 month of its being carried out, either on paper or in electronic format (floppy disc or e-mail)</p>

Surface water monitoring action plan

5.5.5 In the event that any results exceed the trigger level specified in section 6.4 and appendix E of the working plan:

- a) the results shall be notified to the Agency immediately and confirmed in writing immediately;
- b) the surface water generation action plan specified in section 6.4 of the working plan and Table 5.5.B below shall be implemented immediately.

Table 5.5.B Standards for surface water monitoring action plan

Surface water monitoring action plan - Specified standards

- a) Repeat samples as soon as results indicate levels above the trigger levels given in Table 5.5.A above
- b) Check the sampling procedure for cross contamination or mislabelling of samples
- c) Check that the results have been recorded and reported correctly
- d) Check the laboratory QA/QC procedure for cross contamination, mislabelling of samples
- e) Identify the likely source of the contamination
- f) Short and long term engineering works to prevent contamination to a standard and within a time scale agreed, in writing, with the Agency

6 Amenity management and reporting

6.1 Control, monitoring and reporting of dusts, fibres and particulates

- 6.1.1 Measures shall be implemented and maintained throughout the operational life of the site to control and monitor emissions of dusts, fibres and particulates from the site, in accordance with this condition and section 7.1 of the working plan. The objective of these measures shall be to minimise the release of airborne dusts, fibres and particulates arising from the specified waste management operations beyond the site boundary, and to prevent releases in such quantities or concentrations that are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality.
- 6.1.2 All emissions to air from the specified waste management operations on the site shall be free from visible concentrations of dusts, fibres or particulates as are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality outside the site boundary, as perceived by an authorised officer of the Agency.
- 6.1.3 In the event that any dusts, fibres or particulates arising from the site are released or are likely to be released outside the site boundary in such quantities or concentrations that they are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality, the actions specified in section 7.1 of the working plan shall be implemented immediately.

6.2 Control of odours

- 6.2.1 Measures shall be implemented and maintained throughout the operational life of the site to control and monitor emissions of odours from the site, in accordance with this condition and section 7.2 of the working plan. The objective of these measures shall be to minimise the release of odours from the specified waste management operations beyond the site boundary and to prevent releases that are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality.
- 6.2.2 All emissions to air from the specified waste management operations on the site shall be free from odours at levels as are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality outside the site boundary, as perceived by an authorised officer of the Agency.
- 6.2.3 In the event that any odours arising from the site are released or are likely to be released outside the site boundary at such levels that they are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality, the actions specified in section 7.2 of the working plan shall be implemented immediately.

6.3 Control of pest infestations

- 6.3.1 Measures shall be implemented and maintained throughout the operational life of the site to control and monitor the presence of pests on the site, in accordance with section 7.4 of the working plan. The objective of these measures shall be to prevent pest infestations that are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality.

6.4 **Control of scavenging birds and other scavengers**

6.4.1 Measures shall be implemented and maintained throughout the operational life of the site to control and monitor the presence of scavenging birds and other scavengers on the site, in accordance with section 7.5 of the working plan. The objective of these measures shall be to prevent scavenging birds and other scavengers from gathering on operational areas or scavenging wastes in such numbers that are likely to cause harm to human health or serious detriment to the amenity of the locality.

6.5 **Control of litter**

6.5.1 Measures shall be implemented and maintained throughout the operational life of the site to control and monitor the escape of litter from the confines of the site, in accordance with section 7.6 of the working plan. The objective of these measures shall be to prevent any litter escaping from the confines of the site.

6.5.2 In the event that litter does escape from the site, it shall be retrieved by the end of the working day.

7 Site records

7.1 Security and availability of records

Security of records

- 7.1.1 All records which are required to be made under the other conditions of this licence and the working plan shall be maintained and kept secure from loss, damage or deterioration, and shall be kept in accordance with section 8.1 of the working plan.

Availability of records

- 7.1.2 All records which are required to be made under the other conditions of this licence and the working plan shall be made available for inspection at the place where they are kept immediately when required by an authorised officer of the Agency.

7.2 Records of waste movements

Recording of wastes accepted and removed

- 7.2.1 A record shall be kept of each load of waste accepted and each load of waste removed from site. This record shall include the following details:
- a Loads in :- Nature (solid), waste type as specified under condition 1.2 and in section 2.2 of the working plan, quantity (tonnes), date received, date accepted.
 - b Loads out :- Nature (solid), waste type as specified under condition 1.2 and in section 2.2 of the working plan, quantity of waste removed (tonnes), date removed.

Summary records of wastes accepted and removed

- 7.2.2 A summary record of the waste types accepted and removed from the site shall be made for each quarter of the financial year, and shall be submitted to the Agency within 1 month following the end of the quarter. The summary record shall be in a format agreed by the Agency in writing and shall include the specified details:
- a) for both the landfill facility and the recycling facility each of the following
 - b) loads in: nature (solid); waste types using the UK waste classification; quantity (tonnes);
 - c) loads out: nature (solid); waste types using the UK waste classification; quantity (tonnes); destination and facility type.

7.3 Site diary

- 7.3.1 A site diary shall be kept secure and shall be available for inspection at the site when required by an authorised officer of the Agency. This shall include a record of the following events: set out in section 8.3 of the working plan.

Times that the technically competent manager arrives at the site and leaves the site
When environmental monitoring is carried out
Dust monitoring
Odour monitoring

Visits by the pest control operative/inspection by site staff for vermin/pests
Activities on site
Incidents
Visitors to site
Litter picking
Inspection of fences, gates, drains, inlets
Inspection for vegetation stress
Mechanical equipment breakdown
Waste import/export

7.3.2 Each record shall be completed within 24 hours of the relevant event.

7.4 Periodic reporting of environmental performance

7.4.1 The Licence Holder shall provide the Agency on an annual basis, or such other time as is agreed in writing with the Agency, a report on the environmental performance of the site, which shall include the following information:

- a an analysis and review of the environmental monitoring results recorded for the site under these conditions, with an interpretation of the trend of the results against background and trigger levels;
- b a review of the risk assessment for the site, taking account of the findings under (a);
- c where changes to the risk assessment are identified under (b), a review of the risk management systems provided for the site.

Interpretation

In these conditions and their interpretation, unless the context otherwise requires, the following terms have the specified meanings:

"accepted"

for waste being delivered to the site, shall mean accepted as waste input to the site for storage and/or processing and/or disposal under the specified waste management operations;

"authorised officer of the Agency"

means any person(s) authorised in writing by the Agency pursuant to section 108(1) of the 1995 Act to exercise any of the powers specified in subsection (4) of that section;

"clinical waste"

has the meaning as defined in regulation 1(2) of the Controlled Waste Regulations 1992 or any statutory provisions amending or replacing them;

"consequences"

for **risk assessments** carried out within these conditions, means the adverse effects of harm as a result of realising a **hazard** which cause the quality of human health (other than health and safety of site staff or visitors to the site covered under the Health and Safety at Work Act 1974) or the environment to be impaired in the short or longer term;

"engineer"

for engineering works specified in these conditions, means a person who works in the relevant branch of engineering, as a qualified professional;

"engineered"

for works specified in these conditions, means carried out and completed using the relevant engineering process specified in these conditions;

"engineered landfill containment system"

means all elements (other than leachate and landfill gas management systems, and intermediate and final caps), relating to engineered liners for final disposal to land, and incorporating liners for individual cells and the site as a whole, and including methods of liner protection and leakage detection;

"engineered site containment and drainage system"

means all elements relating to engineered containment of activities on the site, other than final disposal to land, and incorporating site surfacing, bunding and drainage systems, buildings and fixed tanks;

"engineering"

for engineering works specified in these conditions, means the relevant process of design, construction or installation, quality assurance or validation or commissioning specified in these conditions;

"engineering survey"

means a survey carried out in accordance with recognised or approved standards by a suitably qualified competent person;

"environmental targets or receptors"

for **risk assessments** carried out within these conditions, shall mean identified human and environmental populations or components, as specified in these conditions or otherwise agreed by the Agency within these conditions;

"groundwater"

means any water contained in underground strata;

"hazard"

means a property or situation that in particular circumstances could lead to harm;

"immediately"

for carrying out of actions under the conditions, shall mean without delay and within a reasonable time, taking into account any more immediate direct action necessary to prevent or minimise risk to human health and the environment. For carrying out notifications to the Agency, shall also mean by the fastest effective means available (for example, telephone) and confirmed in writing within 1 working day (or such other time as may be agreed by the Agency within the conditions);

"inert waste "

means waste which when disposed of in or on land does not undergo any significant physical, chemical or biological transformation;

"landfill gas management system"

means all elements relating to landfill gas extraction from individual landfill cells and the landfill mass as a whole, and incorporating methods of landfill gas drainage, containment and the subsequent disposal system, whether it be a methane oxidation system, landfill gas flare, landfill gas engine(s) or otherwise, either on or off the site;

"leachate management system"

means all elements relating to leachate extraction from individual landfill cells and the landfill mass as a whole, and incorporating methods of leachate drainage, containment and the subsequent treatment and/or disposal system, either on or off the site;

"maintenance"

for engineering maintenance specified in these conditions, means the process of inspection, testing, repair of the relevant engineering works specified in these conditions;

"preparatory works"

means engineering works required prior to the carrying out of the activities authorised by this licence;

"probability"

means the quantified expression of chance, denoted either as:
the ratio or percentage of the occurrence of a particular event as one among a number of possible events;
or as the frequency of occurrence of a particular event in a given period of time;

"received"

for waste being delivered to the site, shall mean delivered to the site and undergoing the waste acceptance procedures specified in the working plan, including storage of those wastes during those procedures prior to acceptance of the waste;

"release pathways"

for **risk assessments** carried out within these conditions, shall mean the routes by which defined **hazards** may potentially realise their **consequences**, defined in terms of releases or emissions from the site that go beyond the site containment or boundary via one or more of the following routes, either directly or indirectly: **Land; Groundwater; Surface water; Atmosphere;**

"relevant offences"

are offences within the meaning of regulation 3 of the Waste Management Licensing Regulations 1994 or any statutory provisions or regulations amending or replacing them;

"risk"

means a combination of the **probability** and **consequences** of occurrence of a defined **hazard**;

"risk assessment"

means the systematic identification, analysis, estimation and evaluation within a defined **scope** of the defined **risks** of a particular activity, operation, process or design, carried out and reported by suitably qualified or competent persons, using recognised quantified or semi-quantified methods and techniques.

Unless otherwise agreed by the Agency within these conditions, a risk assessment shall include and record the following:

definition of the **hazards** associated with an activity, operation, process or design;

assessment of the **probability** of those **hazards** occurring;

determination of the potential **consequences** of those hazards for defined **environmental targets or receptors**, taking into account defined **release pathways** and defined protective measures;

evaluation of the potential **magnitude** of those consequences and the **probability** of their occurrence;

"scope of risk assessment"

means the boundaries of the **risk assessment** and the **risks** to be assessed within those boundaries, as defined in the conditions or otherwise agreed by the Agency within the conditions;

"special waste"

has the meaning as defined by regulation 2 of the Special Waste Regulations 1996 or any statutory provisions or regulations amending or replacing them;

"specified waste management operations"

means the waste management operations authorised by condition 1.1 of this licence;

"surface water management system"

means all elements relating to collection of rain water or surface water from individual landfill phases and the landfill site as a whole, and incorporating methods of water collection, containment and the subsequent treatment and/or disposal system, either on or off the site;

"surface water"

means any lake, pond, river or watercourse whether natural or artificial;

"the 1994 Regulations"

means the Waste Management Licensing Regulations 1994 and any statutory provisions or regulations amending or replacing them.

"the Agency"

means the Environment Agency;

"the Licence Holder"

means the Licence Holder specified in this licence or other person to whom the licence has been transferred in accordance with section 40 of the Environmental Protection Act 1990;

"the operator"

means a person who is in occupation of the site and has responsibility for carrying out day to day activities at the site;

"the site"

means the land, structures, plant and equipment to which this licence relates;

"time periods, e.g. annually, quarterly, monthly, per year, etc. "

Where periods are referred to in conditions, they shall be calculated in the following way:

annually or per year: 1 April to 31 March;

quarterly: 1 April to 30 June, 1 July to 30 September, 1 October to 31 December, 1 January to 31 March;

monthly: calendar month;

weekly: Monday to Sunday.

Where the issue of the licence does not coincide with the start of any of these periods, then any relevant limits for the first period shall apply pro rata;

"waste"

means controlled waste as defined in section 75(4) of the 1990 Act and the Controlled Waste Regulations 1992 or any statutory provisions or regulations amending or replacing them;

"working plan"

means the working plan identified in writing by the Agency at the time of issue of this licence and any subsequent amendments to it made in accordance with the conditions of this licence.

RIGHTS OF APPEAL

Section 43(1) of the Environmental Protection Act 1990 provides that:

Where, except in pursuance of a direction given by the Secretary of State, a licence is granted subject to conditions, the applicant may appeal from the decision to the Secretary of State.

Therefore, if you feel aggrieved by the decision detailed on the attached notice, you may obtain the appropriate form on which to give written notice of an appeal from:-

The Planning Inspectorate
Room 14/13
Tollgate House
Houlton Street
Bristol
BS2 9DJ

Tel: 0117 987 8812
Fax: 0117 987 6093

For Wales, the address is

The Planning Inspectorate
Crown Buildings
Cathays Park
Cardiff
CF10 3NQ

Tel: 02920 823859
Fax: 02920 825150

This notice of appeal should be accompanied by the following information:

- a statement of the grounds of appeal;
- a copy of the licence;
- a copy of any correspondence relevant to the appeal;
- a copy of any other document relevant to the appeal including, in particular, any relevant consent, determination, notice, planning permission, established use certificate or certificate of lawful use or development and
- a statement indicating whether you wish the appeal to be in the form of a hearing or on the basis of written representations.

You are also required to serve a copy of your notice of appeal, together with copies of any the above documents that have accompanied your notice of appeal, on the Environment Agency (at the address overleaf). You should appeal within 6 months of the date that this notice takes effect but the Secretary of State may allow notice of appeal to be given after the expiry of this time period.