

Waste Management Acts, 1996 to 2008

NOTIFICATION OF A PROPOSED DECISION OF A REVIEW OF A WASTE LICENCE IN ACCORDANCE WITH SECTION 42(2) OF THE WASTE MANAGEMENT ACTS, 1996 TO 2008

In pursuance of the powers conferred on it by the above mentioned Acts, the Environmental Protection Agency (the Agency) proposes, under Section 46(8)(a) of the said Acts, to determine the following review of a waste licence.

Waste Licence Register No:

W0068-03

Applicant:

Cork County Council, County Hall, Carrigrohane Road, Cork,

Facility:

Youghal Landfill, Youghal Mudlands, Youghal, County Cork.

The Environmental Protection Agency initiated the review of this waste licence on 18th June 2009.

Proposed Decision: It is proposed, for the reasons hereinafter set out, to grant a revised waste licence to the above named applicant to carry on the following activities at the above named facility, subject to Twelve Conditions:

Licensed waste disposal activities in accordance with the Third Schedule of the Waste Management Acts, 1996 to 2008;

Class 1	Deposit on, in or under land (including landfill):	
	This activity is limited to the disposal of the waste types specified in this licence into the existing landfill and the lined landfill extension.	
Class 5	Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment:	
	This activity is limited to landfilling operations in the lined cells of the facility.	
Class 6	Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 7 to 10 of this Schedule:	
	This activity is limited to the treatment of leachate at the facility.	
Class 7	Physico-chemical treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 8 to 10 of this Schedule (including evaporation, drying and calcination):	
	This activity is limited to the treatment of leachate at the facility.	
Class 12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.	
	This activity is limited to disposal activities in the Civic Waste Facility.	
Class 13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced:	
	This activity is limited to the storage of waste, prior to disposal at an alternative appropriate facility, of waste not acceptable for disposal at this facility and the temporary storage of waste at the Civic Waste Facility in containers prior to disposal at the landfill while in operation or an alternative appropriate facility.	





Licensed waste recovery activities in accordance with the Fourth Schedule of the Waste Management Acts, 1996 to 2008:

Class 2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes):
	This activity is limited to the composting of wastes at the facility subject to a limit of 1000m ³ at any one time and the shredding of timber at the facility, both subject to prior written approval by the Agency.
Class 3	Recycling or reclamation of metals and metal compounds:
	This activity is limited to the storage of white goods and other recyclable metals deposited at the Civic Waste Facility and to the receipt, holding and collection of metals and wire found in construction and demolition wastes.
Class 4	Recycling or reclamation of other inorganic materials:
	This activity is limited to the collection of glass and the recovery and reuse of construction and demolition waste at the Civic Waste Facility and the reuse of inert waste for landfill restoration and construction works.
Class 9	Use of any waste principally as a fuel or other means to generate energy:
	This activity is limited to the collection of gas and its conversion to electricity.
Class 10	The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system:
	This activity is limited to the use of composted materials as a landfill restoration material at the facility. It does not permit liquid leachate to be injected under the cap.
Class 11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule:
•	This activity is limited to the reuse of inert waste and the use of composted waste for landfill restoration purposes.
Class 13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced:
	This activity is limited to activities at the Civic Waste Facility and the temporary storage of recyclable, reusable, and green wastes, fridges and white goods pending their collection.

Proposed Licence: A copy of the proposed licence, including the reasons for the proposed decision, the proposed (Twelve) Conditions and the reasons therefor and associated schedules attached thereto accompanies this notification. A copy of the proposed licence may also be obtained from the Environmental Protection Agency, P.O. Box 3000, Johnstown Castle Estate, County Wexford.





OBJECTIONS & ORAL HEARINGS

Any person may object to the proposed decision, in accordance with Section 42 of the Waste Management Acts, 1996 to 2008, at any time no later than 5.00 pm on 15th November 2009. A person making an objection may also request an oral hearing of the objection, in accordance with Section 42 of the Acts, at any time no later than the date specified above. It is important to note that any objection to a proposed decision request for an oral hearing must be received by the Agency before the appropriate period expires.

An objection request for an oral hearing must be made on-line on the Agency's website at <u>www.epa.ie</u> or by sending the objection or request by prepaid post to the Agency, or by leaving the objection or request with an employee of the Agency at the principal offices of the Agency in Wexford during office hours, i.e. 9.00 a.m. to 5.00 p.m. Monday to Friday.

An objection against the proposed decision must state in full the grounds of the objection. An objection and a request for an oral hearing of an objection must each be accompanied by the appropriate fee and also comply with the other statutory requirements set out in the Waste Management Acts, 1996 to 2008 and the Waste Management (Licensing) Regulations, S.I. No. 395 of 2004. Extracts from the Acts and the Regulations accompany this notification. For the purposes of making an objection and/or a request for an oral hearing, the address of the principal office of the Agency is P.O. Box 3000, Johnstown Castle Estate, County Wexford.

In the event that:

- (a) no objection is taken against the proposed decision or
- (b) an objection or objections is or are taken against the proposed decision and the objection or objections is or are withdrawn.

the decision of the Agency will be in accordance with the proposed decision and will be issued as soon as may be after the appropriate period expires.

Signed on behalf of the Agency: on the 19th of October 2009

Brian Meaney, Authorised Person



re: Proposed Decisions of the Environmental Protection Agency in respect of Waste Licence applications

Fees for the making of Objections and Oral Hearing requests

Fees for making an Objection:

- Article 42 (1) A fee shall be paid to the Agency in respect of the making of an objection.
 - (2) Subject to sub-article (3), the fee payable under sub-article (1) shall be the amount indicated in column (3) of Part II of the Second Schedule opposite the appropriate mention of objection in column (2) of the said Part of the Schedule.
 - (3) Where an objection is made to the Agency by -
 - (a) A local authority.
 - (b) A planning authority.
 - (c) A sanitary authority.
 - (d) The Central Fisheries Board.
 - (e) An Taisce The National Trust for Ireland.
 - (f) Failte freland.
 - (g) In the case of an activity any part of which is situate within the functional area of the Shannon Free Airport Development Company Limited, that Company.

a reduced fee shall be payable in respect of the said objection, in accordance with sub-article (2).

Fees for making a request for an Oral Hearing (payable in addition to the fee payable for making the associated objection)

Article 44

- (1) A fee shall be paid to the Agency in respect of a request for an oral hearing of an objection. (See table of fees below).
- (1) The fee payable under sub-article (1) shall be the amount indicated in column (3) of Part II of the Second Schedule opposite the mention of a request for an oral hearing in column (2) of the said Part of the Schedule.

Table of Fees for Objections and Requests for Oral Hearings

(1)	(2)	(3)
		Amount of fee (€)
Article 42	Objection by the applicant or licensee	€500
	Objection by an authority or body mentioned in Article 42(3)	€100
	Objection by any other person	€200
Article 44	Request for an oral hearing	€100

Making an Objection and requesting an Oral Hearing of an objection on a Proposed Decision of the Environmental Protection Agency on a Waste Licence Application.

Extracts from the relevant sections of the Waste Management Acts, 1996 to 2007.

Section

- Before making a decision under Section 40 in respect of an application made to it for the grant of a waste licence, or *under Section* 46(2) in consequence of a review of a waste licence that has been conducted by it under that section, the Agency shall give notice in writing to—
 - (a) the applicant or the holder of the licence, as the case may be.
 - (b) any person who has made a written submission to it in relation to the application or the review, in accordance with regulations under this Part.
 - (c) where relevant, the local authority in whose functional area the activity, the subject matter of the proposed waste licence or the waste licence, as the case may be, is intended to be, or is, carried on, and
 - (d) such other persons as may be prescribed.

of the decision it proposes to make in respect of the application or in consequence of the review and, where the decision so notified is a decision to grant a waste licence or a revised waste licence, shall specify where a copy of the proposed licence or revised licence may be obtained.

- Any person may, subject to compliance with the requirements of any regulations under Sections 45 and 50, and at any time before the expiration of the appropriate period, make an objection to the Agency in relation to a decision referred to in subsection (2) that it proposes to make.
- 42(4) An objection shall—
 - (a) be made in writing,
 - (b) state the name and address of the objector.
 - (c) state the subject matter of the objection.
 - (d) state in full the grounds of objection and the reasons, considerations and arguments on which they are based, and
 - (e) be accompanied by such fee (if any) as may be payable in respect of the making of such objection in accordance with regulations *under Section 50*.
- 42(5) (a) An objection which does not comply with the requirements of *subsection (4)* shall be invalid.
 - (b) The requirement of *subsection (4) (d)* shall apply whether or not the objector requests, or proposes to request, under *subsection (9)* an oral hearing of the objection.
- 42(6) An objection shall be accompanied by such documents, particulars, or other information relating to the objection as the objector considers necessary or appropriate.
- Without prejudice to the provisions of any regulations under Section 45, an objector shall not be entitled to elaborate in writing upon, or make further submissions in writing in relation to. the grounds of objection stated in the objection, and any such elaboration, submissions or further grounds of objection that is or are received by the Agency shall not be considered by it.
- 42(8) Any documents, particulars or other information submitted by an objector, other than such documents, particulars or other information which accompanied the objection or which were furnished to the Agency under and in accordance with a requirement of, or made pursuant to, regulations under Section 45, shall not be considered by the Agency.
- 42(9) (a) A person making an objection under *subsection* (3) may request an oral hearing of the objection.
 - (b) (i) A request for an oral hearing of an objection shall be made in writing to the Agency and shall be accompanied by such fee (if any) as may be payable in respect of such request in accordance with regulations under Section 50.

- (ii) A request for an oral hearing of an objection which is not accompanied by such fee (if any) as may be payable in respect of such request shall not be considered by the Agency.
- (c) A request for an oral hearing of an objection shall be made within the appropriate period, and any request received by the Agency after the expiration of that period shall not be considered by it.
- 42(10) An objection, or a request for an oral hearing under subsection (9), shall be made
 - (a) by sending the objection or request by prepaid post to the Agency, or
 - (b) by leaving the objection or request with an employee of the Agency, at the principal office of the Agency, during office hours, or
 - (c) by such other means as may be prescribed.
- (a) Where a request for an oral hearing of an objection is made in accordance with *subsection* (9), or otherwise where an objection has been made, the Agency shall have an absolute discretion to hold an oral hearing in relation to the objection and, if it decides to hold such a hearing, it shall give notice in writing of that decision to—
 - (i) the applicant or the holder of the licence, as the case may be.
 - (ii) where relevant, the local authority in whose functional area the activity, the subject matter of the pro-posed waste licence or the waste licence, as the case may be, is intended to be, or is, carried on,
 - (iii) any person who requested an oral hearing, and
 - (iv) such other person as may be prescribed.
 - (b) Where the Agency decides not to hold an oral hearing under this subsection, it shall give notice in writing of its decision to the person who requested the oral hearing.
- 42(12) In this section "the appropriate period" means the period of 28 days beginning on the day on which notification is sent under subsection (2) in respect of the matter concerned.
- 42A Calculation of appropriate period and other time limits over holidays

When calculating the appropriate period (within the meaning of Section 42) or any other time limit under this Act or in any regulations made under this Act, the period between the 24th day of December and the 1st day of January, both days inclusive, shall be disregarded.

- 43(1) (a) Where
- (i) no objection is made in accordance with Section 42(3) to the Agency in relation to a decision that it proposes to make in respect of an application made to it for the grant of a waste licence or in consequence of a review conducted by it of a waste licence, or
- (ii) any objection or objections that has or have been so made to it in relation thereto is or are withdrawn.

the decision of the Agency in relation to that application or in consequence of the review shall be that as notified by it under Section 42(2).

(b) Where the decision of the Agency is to grant a waste licence or a revised waste licence, such a licence shall be granted by it as soon as may be after the making of the decision.



Headquarters
P.O. Box 3000

Johnstown Castle Estate
County Wexford
Ireland

PROPOSED DECISION FOR A WASTE LICENCE REVIEW LANDFILL FOR NON-HAZARDOUS WASTE

Waste Licence

W0068-03

Register Number:

Licensee:

Cork County Council

Location of Facility:

Youghal Landfill, Youghal Mudlands,

Youghal, County Cork.

INTRODUCTION

This introduction is not part of the licence and does not purport to be a legal interpretation of the licence.

Youghal Landfill is operated by Cork County Council and is authorised to accept up to 170,000 tonnes of waste per annum, including 128,000 tonnes of municipal waste.

This review of the licence is primarily concerned with ensuring that the landfill is operating in compliance with all relevant requirements of the Landfill Directive (1999/31/EC) including the need to divert biodegradable municipal waste from landfill. Waste must be treated before disposal in the landfill and treatment must now reflect pre-treatment technical guidelines published in 2009 by the Agency – *Municipal Solid Waste – Pre-treatment and Residuals Management: An EPA Technical Guidance Document.* Limits on the acceptance of biodegradable municipal waste are introduced. There is a consequential need, set out in the licence, to update and revise waste acceptance procedures, maintain records to demonstrate compliance with new requirements and provide periodic reports on waste disposal and recovery at the facility. New conditions for the prevention, control and monitoring of odour have been introduced.

The licence sets out in detail the conditions under which Cork County Council will operate and manage this facility.

The licensee must manage and operate the facility to ensure that the activities do not cause environmental pollution. The licensee is required to carry out regular environmental monitoring and submit all monitoring results and a wide range of reports on the operation and management of the facility to the Agency.

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DECISION & REASONS FOR THE DECISION

Reasons for the Decision

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this licence, any emissions from the activity will comply with and will not contravene any of the requirements of Section 40(4) of the Waste Management Acts 1996 to 2008.

In reaching this decision the Environmental Protection Agency has considered documentation received from the licensee, submissions received from other parties and the report of its inspector.

INTERPRETATION

All terms in this licence should be interpreted in accordance with the definitions in the Waste Management Acts, 1996 to 2008 (the Act), unless otherwise defined in this section.

Aerosol

A suspension of solid or liquid particles in a gaseous medium.

Adequate lighting

20 lux measured at ground level.

Agreement

Agreement in writing.

Annually

At approximately twelve monthly intervals.

Attachment

Any reference to Attachments in this licence refers to attachments submitted as part of the Waste Licence Application Reg No. 68-2.

Application

The application by the licensee for this waste licence.

Appropriate facility

A waste management facility, duly authorised under relevant law and

technically suitable.

BAT

Best Available Techniques as defined in Article 2(11) of Council Directive 96/61/EC concerning integrated pollution prevention and control.

Biodegradable

waste:

Waste that is capable of undergoing anaerobic or aerobic decomposition, such

as food and garden waste and paper and cardboard.

Biodegradable municipal waste (BMW)

The biodegradable component of municipal waste, not including bio-stabilised residual waste. Biodegradable municipal waste is typically composed of food and garden waste, wood, paper, cardboard and textiles.

Bio-stabilised residual waste

Residual biodegradable municipal waste that has been treated to achieve an EPA-approved biodegradability stability standard (as defined in this licence) prior to landfilling or alternative use agreed.

CEN

Comité Européen De Normalisation – European Standardisation.

Characterisation of waste

The sampling and analysis of waste to determine, amongst other things, its nature and composition, including the proportions of biodegradable, recyclable and other materials in the waste.

Classification of waste

The classification of waste as inert, non-hazardous or hazardous for the purpose of article 4 of Council Directive (1999/31/EC) on the landfill of waste.

Coding of waste

The allocation of a European Waste Catalogue/Hazardous Waste List code and a concise/standardised description of the waste, including information on the source of the waste, e.g. municipal, industrial, construction and demolition

Condition

A condition of this licence.

Construction and **Demolition Waste**

All wastes which arise from construction, renovation and demolition activities.

Containment boom

A boom which can contain spillages and prevent them from entering drains or watercourses.

Cover material

Bricks, crushed concrete, tarmac, earth, soil, sub-soil, stone, rock or other

similar natural materials; or

other cover material the use of which has been agreed by the Agency.

Daily Cover

Is the term used to describe material spread (about 150mm if soil cover is used) over deposited waste at the end of each day. Synthetic materials may also be used. Its objective is to minimise odour, the amount of litter generated and to control flies and access to the waste by birds and vermin. Where soils are used for daily cover, it is recommended that they be removed at the start of the day and subsequently reused as much as possible.

Daytime

0800 hrs to 2200 hrs.

Documentation

Any report, record, result, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.

Drawing

Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.

Emergency

Those occurrences defined in Condition 9.4.

Emission Limits

Those limits, including concentration limits and deposition levels established in *Schedule C: Emission Limits*, of this licence.

European Waste Catalogue (EWC)

A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 94/3/EC and any subsequent amendment published in the Official Journal of the European Community.

Green waste

Waste wood (excluding timber), plant matter such as grass cuttings, and other vegetation.

Hours of Operation

The hours during which the facility is authorised to be operational. The hours of operation of a facility are usually longer than the hours of waste acceptance to facilitate preparatory and completion works, such as the removal and laying of daily cover. Different activities within the facility, such as the landfill and the civic waste facility, may have different hours of waste acceptance.

Hours of Waste Acceptance

The hours during which the facility is authorised to accept waste. Different activities within the facility, such as the landfill and the civic waste facility, may have different hours of waste acceptance.

Incident

The following shall constitute an incident for the purposes of this licence:

- a) an emergency;
- b) any emission which does not comply with the requirements of this licence;
- c) any exceedance of the daily duty capacity of the waste handling equipment
- d) any trigger level specified in this licence which is attained or exceeded; and,
- e) any indication that environmental pollution has, or may have, taken place.

Inert waste

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

Initial Development Works Means such works, actions or constructions as may be specified, which for the purposes of environmental protection and safe construction and operation of the facility, have to be carried out in the initial stages of site development, and in any case prior to the commencement of construction of the landfill cells.

Intermediate Cover

Refers to placement of material (minimum 300mm if soil is used) for a period of time prior to restoration or prior to further disposal of waste.

Landfill

Refers to the area of the facility where the waste is disposed of by placement on the ground or on other waste.

Landfill Gas

Gases generated from the landfilled waste.

LEL (Lower Explosive Limit) The lowest percentage concentration by volume of a mixture of flammable gas with air which will propagate a flame at 25°C and atmospheric pressure.

Licence

A waste licence issued in accordance with the Act.

Licensee

Cork County Council, County Hall, Carrigrohane Road, Cork.

List I/II Organics

Substances classified pursuant to EC Directives 76/464/EEC and 80/68/EEC.

Liquid Waste

Any waste in liquid form and containing less than 2% dry matter. Any waste tankered to the facility.

Maintain

Keep in a fit state, including such regular inspection, servicing and repair as may be necessary to adequately perform its function.

Mobile Plant

Self-propelled machinery used for the emplacement of wastes or for the construction of specified engineering works.

Monthly

A minimum of 12 times per year, at approximately monthly intervals.

Municipal solid waste (MSW)

Household waste as well as commercial and other waste which, because of its nature or composition, is similar to household waste. Excluding municipal sludges and effluents.

Night-time

 $2200\ hrs$ to $0800\ hrs.$

Noise Sensitive Location

Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.

Recyclable Materials Those waste types, such as cardboard, batteries, gas cylinders, etc which may be recycled.

Residual waste

The fraction of collected waste remaining after a treatment or diversion step, which generally requires further treatment or disposal.

Quarterly

At approximately three monthly intervals.

Sample(s) Unle

Unless the context of this licence indicates to the contrary, samples shall

include measurements by electronic instruments.

SCADA system

Supervisory Control and Data Acquisition system.

Sludge

The accumulation of solids resulting from chemical coagulation, flocculation and/or sedimentation after water or wastewater treatment with between 2%

and 14% dry matter.

SOP

Standard Operating Procedure.

Specified Emissions

Those emissions listed in Schedule C: Emission Limits, of this licence.

Specified
Engineering Works

Those engineering works listed in Schedule B: Specified Engineering Works,

Engineering Works of this licence.

TOC

Total Organic Carbon.

Treated Sludge

Sludge which has undergone biological, chemical or heat treatment, long-term storage or any other appropriate process so as significantly to reduce its fermentability and the health hazards resulting from its use.

Treatment/pretreatment In relation to waste, any manual, thermal, physical, chemical or biological processes that change the characteristics of waste in order to reduce its volume or hazardous nature or facilitate its handling, disposal or recovery.

Trigger Level

A parameter value specified in the licence, the achievement or exceedance of which requires certain actions to be taken by the licensee.

White Goods

Refrigerators, cookers, ovens and other similar appliances.

EPA Working Day

Refers to the following hours: 0900 hrs to 1730 hrs Monday to Friday inclusive.

Working Face

The area of the site in which waste other than cover material or material for the purposes of the construction of specified engineering works is being deposited.

Part I: Schedule of Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Acts 1996 to 2008, the Environmental Protection Agency (the Agency) proposes, under Section 46(8)(a) of the said Acts to grant this waste licence to Cork County Council Headquarters, County Hall, Cork, to carry on the waste activity/activities listed below at Youghal Landfill, Youghal Mudlands, Youghal, County Cork, subject to conditions, with the reasons therefore and the associated schedules attached thereto set out in the licence. For the purpose of Article 48 of the Waste Management (Licensing) Regulations 2004 (S.I. No. 395) this facility is classed as a non-hazardous waste landfill.

Licensed Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Acts, 1996 to 2008

Class 1	Deposit on, in or under land (including landfill):	
	This activity is limited to the disposal of the waste types specified in this licence into the existing landfill and the lined landfill extension.	
Class 5	Specially engineered landfill, including placement into lined discrete cells which a capped and isolated from one another and the environment:	
	This activity is limited to landfilling operations in the lined cells of the facility.	
Class 6	Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 7 to 10 of this Schedule: This activity is limited to the treatment of leachate at the facility.	
Class 7	Physico-chemical treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 8 to 10 of this Schedule (including evaporation, drying and calcination):	
	This activity is limited to the treatment of leachate at the facility.	
Class 12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.	
	This activity is limited to disposal activities in the Civic Waste Facility.	
Class 13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced:	
	This activity is limited to the storage of waste, prior to disposal at an alternative appropriate facility, of waste not acceptable for disposal at this facility and the temporary storage of waste at the Civic Waste Facility in containers prior to disposal at the landfill while in operation or an alternative appropriate facility.	

Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Acts, 1996 to 2008

Class 2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes):
	This activity is limited to the composting of wastes at the facility subject to a limit of 1000m ³ at any one time and the shredding of timber at the facility, both subject to prior written approval by the Agency.
Class 3	Recycling or reclamation of metals and metal compounds:
	This activity is limited to the storage of white goods and other recyclable metals deposited at the Civic Waste Facility and to the receipt, holding and collection of metals and wire found in construction and demolition wastes.
Class 4	Recycling or reclamation of other inorganic materials:
	This activity is limited to the collection of glass and the recovery and reuse of construction and demolition waste at the Civic Waste Facility and the reuse of inert waste for landfill restoration and construction works.
Class 9	Use of any waste principally as a fuel or other means to generate energy:
	This activity is limited to the collection of gas and its conversion to electricity.
Class 10	The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system:
	This activity is limited to the use of composted materials as a landfill restoration material at the facility. It does not permit liquid leachate to be injected under the cap.
Class 11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule:
	This activity is limited to the reuse of inert waste and the use of composted waste for landfill restoration purposes.
Class 13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced:
	This activity is limited to activities at the Civic Waste Facility and the temporary storage of recyclable, reusable, and green wastes, fridges and white goods pending their collection.

PART II CONDITIONS

CONDITION 1 SCOPE OF THE LICENCE

- 1.1. Waste activities at the facility shall be restricted to those listed and described in *Part I: Activities Licensed* and authorised by this licence.
- 1.2. For the purposes of this licence, the facility is the area of land outlined in red on Drawing No. 2003-004-04 Figure 2.4 Rev A of the Environmental Impact Statement (EIS). Any reference in this licence to "facility" shall mean the area thus outlined in red.
- 1.3. This licence is for the purposes of waste licensing under the Waste Management Acts, 1996 to 2008 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.4. Only those waste categories and quantities listed in *Schedule A: Waste Acceptance* of this licence, shall be accepted at the facility.
- 1.5. Waste Acceptance Hours and Hours of Operation
 - 1.5.1. Landfill
 - 1.5.1.1. Waste may be accepted at the facility for disposal at the landfill only between the hours of 8.30am 7.00pm Monday to Saturday inclusive and 8.30am 11.30pm on Sundays.
 - 1.5.1.2. The landfill at the facility may be operated only during the hours of 8am 8pm Monday to Saturday inclusive and 8.30am 12.30pm on Sundays.
 - 1.5.1.3. Waste shall not be accepted at the landfill on Bank Holidays.

1.5.2. Civic Waste Facility

- 1.5.2.1. Waste shall be accepted at the Civic Waste Facility only between the hours of 8.30am 8pm Monday to Saturday inclusive and 8.30am 12.30pm on Sundays.
- 1.6. Every plan, programme or proposal submitted to the Agency for its agreement pursuant to any condition of this licence shall include a proposed timescale for its implementation. The Agency may modify or alter any such plan, programme or proposal in so far as it considers such modification or alteration to be necessary and shall notify the licensee in writing of any such modification or alteration. Every such plan, programme or proposal shall be carried out within the timescale fixed by the Agency but shall not be undertaken without the agreement of the Agency. Every such plan, programme or proposal agreed by the Agency shall be covered by the conditions of this licence.
- 1.7. This licence (Register No: W0068-03) is being granted in substitution for the waste licence granted to the licensee on 18th January 2005 and bearing Waste Licence Register No: W0068-02. The previous Waste Licence (Register No: W0068-02) is superseded by this licence.
- 1.8. Notwithstanding the requirements of any other condition of this licence the licensee may accept waste electrical and electronic equipment at the civic waste facility delivered to the facility from commercial retail premises.

REASON: To clarify the scope of this licence.

CONDITION 2 MANAGEMENT OF THE FACILITY

2.1 Facility Management

- 2.1.1 The licensee shall employ a suitably qualified and experienced facility manager who shall be designated as the person in charge. The facility manager or a nominated, suitably qualified and experienced, deputy shall be present on the facility at all times during its operation.
- 2.1.2 The Civic Waste Facility shall be supervised by an appropriately qualified and competent person at all times while waste may be accepted.
- 2.1.3 Both the facility manager and deputy, and any replacement manager or deputy, shall successfully complete both the FAS Waste Management Training Programme (or equivalent agreed by the Agency) and associated on site assessment appraisal within twelve months of appointment.
- 2.1.4 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience, as required and shall be aware of the requirements of this licence.

2.2 Management Structure

- 2.2.1 Written details of the management structure at the facility shall be maintained at the facility. Any proposed replacement in the management structure shall be notified in advance in writing to the Agency. Written details of the management structure shall include the following information:
 - a) The names of all persons who are to provide the management and supervision of the waste activities authorised by the licence, in particular the name of the facility manager and any nominated deputies;
 - b) Details of the responsibilities for each individual named under a) above; and
 - c) Details of the relevant education, training and experience held by each of the persons nominated under a) above.

2.3 Environmental Management System (EMS)

- 2.3.1 The licensee shall maintain an Environmental Management System (EMS) at the facility. The EMS shall be updated on an annual basis with amendments being submitted to the Agency for its agreement as part of the Annual Environmental Report.
- 2.3.2 The EMS shall include as a minimum the following elements.
 - 2.3.2.1 Schedule of Environmental Objectives and Targets

The licensee shall prepare and maintain a Schedule of Environmental Objectives and Targets. The schedule shall, as a minimum, provide for a review of all operations and processes, including an evaluation of practicable options, for energy and resource efficiency, the use of cleaner technology (including emissions prevention/reduction), and the beneficial recovery/recycling of waste in subsequent landfill engineering operations. The schedule shall include time frames for the achievement of set targets and shall address a five-year period as a minimum. The schedule shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER).

The licensee shall ensure insofar as practicable that environmental objectives and targets are met according to the stated schedule.

2.3.2.2 Landfill Environmental Management Plan (EMP)

Within 12 months from the date of grant of this licence, the licensee shall prepare and maintain a LEMP, including a time schedule, for achieving the Environmental Objectives and Targets prepared under Condition 2.3.2.1. The LEMP shall have regard to the guidance set out in the EPA Manual on Landfill Operational Practices. The LEMP shall replace any existing EMP and shall include:

- designation of responsibility for targets;
- the means by which they may be achieved; and
- the time within which they may be achieved.

The LEMP shall be reviewed annually and take into account operational experiences at the facility, the stage of development of the facility (active, closure, aftercare), evolving legislative and BAT requirements, as well as any Agency instructions that may issue. Amendments shall be notified to the Agency for agreement as part of the Annual Environmental Report (AER).

A report on the programme, including the success in meeting agreed targets, shall be prepared and submitted to the Agency as part of the AER. Such reports shall be retained on-site for a period of not less than seven years and shall be available for inspection by authorised persons of the Agency.

2.3.2.3 Corrective Action Procedures

The Corrective Action Procedures shall detail the corrective actions to be taken should any of the procedures detailed in the EMS not be followed.

2.3.2.5 Awareness and Training Programme

The Awareness and Training Programme shall identify training needs, for personnel who work in or have responsibility for the licensed facility.

2.4 Communications Programme

2.4.1 The licensee shall establish and maintain a Communications Programme to ensure that members of the public can obtain information at the facility, at all reasonable times, concerning the environmental performance of the facility.

2.5 Resource Use and Energy Efficiency

- 2.5.1 The licensee shall carry out an audit of the energy efficiency of the site within one year of the date of grant of this licence. The audit shall:-
 - (i) identify all opportunities for energy use reduction and efficiency;
 - (ii) be carried out in accordance with the guidance published by the Agency "Guidance Note on Energy Efficiency Auditing".; and
 - (iii) be repeated at intervals as required by the Agency.

The recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2.3.2.1 above.

- 2.5.2 The licensee shall identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible. Reductions in water usage shall be incorporated into the Schedule of Environmental Objectives and Targets.
- 2.5.3 The licensee shall undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into the Schedule of Environmental Objectives and Targets.

REASON: To make provision for the proper management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment. To provide for the efficient use of resources and energy inall site operations.

CONDITION 3 FACILITY INFRASTRUCTURE

3.1 The licensee shall establish all infrastructure referred to in this licence as required by the conditions of this licence.

3.2 Phased Construction Plan

3.2.1 Two months prior to the commencement of any site development, the licensee shall submit to the Agency for its agreement a construction schedule, sequence and timescale (Construction Plan) incorporating the requirements of this licence. This Plan shall have regard to the following development phases: (i) Initial Development Works (ii) Main infrastructure development works (pre-intensification of waste for disposal), and (iii) Future/planned works (in parallel with waste disposal, e.g. future cell development/phasing). The Construction Plan for cell development shall have regard to the sequencing necessary to provide medium and long term screening of the completed cells.

3.3 Specified Engineering Works

- 3.3.1 The licensee shall submit proposals for all Specified Engineering Works, as defined in Schedule B: Specified Engineering Works, of this licence, to the Agency for its agreement at least two months prior to the intended date of commencement of any such works. No such works shall be carried out without the prior agreement of the Agency.
- 3.3.2 All specified engineering works shall be supervised by a competent person(s) and that person, or persons, shall be present at all times during which relevant works are being undertaken.
- 3.3.3 Following the completion of all specified engineering works, the licensee shall complete a construction quality assurance validation. The validation report shall be made available to the Agency on request. The report shall include the following information:
 - a) A description of the works;
 - b) As-built drawings of the works;
 - c) Records and results of all tests carried out (including failures);
 - d) Drawings and sections showing the location of all samples and tests carried out;
 - e) Daily record sheets/diary;
 - f) Name(s) of contractor(s)/individual(s) responsible for undertaking the specified engineering works;
 - g) Name(s) of individual(s) responsible for supervision of works and for quality assurance validation of works;
 - h) Records of any problems and the remedial works carried out to resolve those problems; and
 - i) Any other information requested in writing by the Agency.

3.4 Facility Notice Board

- 3.4.1 The licensee shall provide and maintain a Facility Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the board shall be 1200 mm by 750 mm.
- 3.4.2 The board shall clearly show:
 - a) The name and telephone number of the facility;
 - b) The normal hours of opening;
 - c) The name of the licence holder;
 - d) An emergency out of hours contact telephone number;
 - e) The licence reference number; and
 - f) Where environmental information relating to the facility can be obtained.

3.5 Facility Security

3.5.1 Security and stockproof fencing and gates shall be installed and maintained as described in Attachment D1. The base of the fencing shall be set in the ground. Subject to the implementation of the restoration and aftercare plan and to the agreement of the Agency, the requirement for such site security may be removed.

- 3.5.2 The licensee shall remedy any defect in the gates and/or fencing as follows:
 - a) A temporary repair shall be made by the end of the working day; and
 - b) A repair to the standard of the original gates and/or fencing shall be undertaken within three working days.

3.6 Facility Roads and Hardstanding

- 3.6.1 Effective site roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.
- 3.6.2 Landfill traffic management shall be provided and maintained at the facility as described in Section 2.2.2 (Traffic Control) of the EIS and specified in Figure 2.6 of the EIS.

3.7 Facility Office

- 3.7.1 The licensee shall provide and maintain an office at the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
- 3.7.2 The licensee shall provide and maintain a working telephone and a method for electronic transfer of information at the facility.

3.8 Waste Inspection and Quarantine Areas

- 3.8.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained at the facility.
- 3.8.2 These areas shall be constructed and maintained in a manner suitable, and be of a size appropriate, for the inspection of waste and subsequent quarantine if required. The waste inspection area and the waste quarantine area shall be clearly identified and segregated from each other.
- 3.8.3 Drainage from these areas shall be directed to the wastewater interceptor.

3.9 Weighbridge and Wheel Cleaner

- 3.9.1 The licensee shall provide and maintain a weighbridge and a wheel cleaner at the facility.
- 3.9.2 The licensee shall provide and maintain a second weighbridge at the facility as described in Section 2.2.2 of the EIS and shown on Drawing No 2003-004-04 Figure 2.4 Rev A, unless otherwise agreed by the Agency.
- 3.9.3 The licensee shall maintain at the facility written details of the traffic/weighbridge management structure of the facility.
- 3.9.4 The wheel cleaner shall be used by all vehicles leaving the facility as required to ensure that no process water or waste is carried off-site. All water from the wheel cleaning area shall be directed to the wastewater treatment system via the interceptor.

3.10 Wastewater Treatment Plant

3.10.1 The licensee shall provide and maintain a Wastewater Treatment plant at the facility for the treatment of wastewater arising on-site. Any percolation area shall satisfy the criteria set out in the *Wastewater Treatment Manual, Treatment Systems for Single Houses*, published by the Environmental Protection Agency.

3.11 Tank and Drum Storage Areas

- 3.11.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein
- 3.11.2 All tank and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:-
 - (a) 110% of the capacity of the largest tank or drum within the bunded area; or
 - (b) 25% of the total volume of substance which could be stored within the bunded area.
- 3.11.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.11.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.11.5 Bunds should be designed having regard to Agency guidelines 'Storage and Transfer of Materials for Scheduled Activities' (2004). The integrity and water tightness of all the bunds and their resistance to penetration by water or other materials stored therein shall be confirmed by the licensee and shall be reported to the Agency following its installation and prior to its use as a storage area.

This confirmation shall be repeated at least once every three years thereafter and reported to the Agency on each occasion.

3.12 Landfill Lining

- 3.12.1 Unless otherwise agreed in writing, the landfill liner shall comprise:
 - a) A composite liner consisting of a 1m layer of compacted soil with a hydraulic conductivity of less than or equal to 1x10⁻⁹m/s, (or equivalent to be agreed by the Agency) overlain by a 2mm thick high density polyethylene (HDPE) layer;
 - b) A geotextile protection layer placed over the HDPE layer;
 - c) A 500mm thick drainage layer placed over the geotextile layer with a minimum hydraulic conductivity of 1 x 10⁻³ m/s, of pre-washed, uncrushed, granular, rounded stone (16 32mm grain size) incorporating leachate collection drains; and
 - d) The side walls shall be designed and constructed to achieve an equivalent protection.
- 3.12.2 The liner detailed design and its construction shall have regard to the guidelines provided in the Agency's *Landfill Manual*, *Landfill Site Design*.
- 3.12.3 The liner system at Cell Nos. 6 and 7 shall meet the construction quality assurance validation requirements set out in Condition 3.3.3 of this licence and be submitted to the Agency for its agreement at least two months prior to the intended date of waste acceptance at those cells.
- 3.12.4 An outline report which includes a detailed design for the lining system interface between the existing waste body at Area 5 and Cells No. 6 and 9 shall be submitted to the Agency as per the requirements of Condition 3.3.1 of this licence.

3.13 Leachate Management Infrastructure

- 3.13.1 Leachate management infrastructure shall be provided and maintained at the facility as described in Attachment D 4 and specified in Drawing No. 2001-004-26-04 Layout of Lined Cells.
- 3.13.2 All structures for the storage and/or treatment of leachate shall be fully enclosed except for inlet and outlet piping.

3.14 Landfill Gas Management

- 3.14.1 Landfill gas management infrastructure shall be provided and maintained at the facility as described in Attachment D 5 of the application subject to conditions of this licence.
- 3.14.2 The licensee shall provide and maintain a landfill gas flare at the facility. The flare shall be of an enclosed type design unless otherwise agreed by the Agency.

- 3.14.3 Flare unit efficiency shall be tested once it is installed and once every three years thereafter.
- 3.14.4 All buildings constructed on the facility shall have regard to the guidance given in the Department of Environment 1994 publication "Protection of New Buildings and Occupants from Landfill Gas" and any subsequent revisions.
- 3.14.5 The active landfill gas management infrastructure shall consist of horizontal and vertical gas collection. The horizontal systems shall be installed at lifts no greater than 5 metres, and shall be used during cell filling to, in as far as practicable, provide a negative pressure within the waste body. In addition this shall include provision of a horizontal gas collection system at the top of side slopes to minimise gas emanating from the leachate collection layer.
- 3.14.6 All landfill gas extraction well-heads shall be designed to include a regulating valve and monitoring points either side of the said valve. The licensee shall also provide monitoring ports at regular intervals along the gas extraction system. The monitoring ports shall be suitable for the monitoring outlined in *Schedule D: Monitoring*, of this licence.

3.14.7 Condensate Management

The licensee shall implement a landfill gas condensate management plan at the facility and this shall include, as a minimum, the following:

- a) Identification of all areas of the landfill gas extraction system where condensate is likely to accumulate;
- b) Daily maintenance schedule to provide for the inspection and removal of condensate from landfill gas extraction pipework; and
- c) The rationalisation/elimination of narrow diameter pipework (i.e. 50mm I.D. or less) at the facility.

3.15 Surface Water Management

3.15.1 The surface water management infrastructure described in Attachment D1 shall be provided and maintained at the facility.

3.16 Construction and Demolition Waste Recovery Area

- 3.16.1 Prior to commencement of recovery operations, the licensee shall provide and maintain a construction and demolition waste recovery area. This infrastructure shall at a minimum comprise the following:
 - a) An impermeable concrete slab; and
 - b) Collection and disposal infrastructure for all run-off.

3.17 Civic Waste Facility

3.17.1 The licensee shall provide and maintain the Civic Waste Facility infrastructure referred to in and shown in Attachment D1 and Drawing No. 2003-004-04.

3.18 Monitoring Infrastructure

3.18.1 Landfill Gas

a) The licensee shall maintain an effective permanent gas monitoring system in the site office.

3.18.2 Groundwater

a) The licensee shall provide and maintain three groundwater monitoring points at the locations specified in *Schedule D.1: Monitoring Locations*, of this licence to allow for the sampling and analyses of groundwater.

3.18.3 Replacement of Infrastructure

a) Monitoring infrastructure which is damaged or proves to be unsuitable for its purpose shall be replaced within three months of it being damaged or recognised as being unsuitable.

REASON: To provide appropriate infrastructure for the protection of the environment.

CONDITION 4 RESTORATION AND AFTERCARE

- 4.1. The licensee shall restore the facility on a phased basis. The Restoration and Aftercare Plans for the facility shall be maintained in compliance with the conditions of this licence. The licensee shall submit to the Agency any revisions to the Restoration and Aftercare Plan to reflect changes due to:
 - (i) the requirements of this licence; and
 - (ii) the cell interface design;
- 4.2. The final profile/height of the facility shall be as shown in Drawing No. 2003-004-04 Figure 2.4 Rev A mOD Malin with a maximum height of 15mOD.
- 4.3. Final Capping
 - 4.3.1. Unless otherwise agreed by the Agency, the final capping shall consist of the following:-.
 - a) Top soil (150 -300mm);
 - b) Subsoils, such that total thickness of top soil and subsoils is at least 1m;
 - c) Drainage layer of 0.5m thickness having a minimum hydraulic conductivity of 1x10⁻⁴ m/s or a geosynthetic material that provides equivalent transmissivity;
 - d) Compacted mineral layer of a minimum 0.6m thickness with a permeability of less than 1x10⁻⁹ m/s or a geosynthetic material (e.g. GCL) or similar that provides equivalent protection; and
 - e) Gas collection layer of natural material (minimum 0.3m) or a geosynthetic layer.
- 4.4. No material or object that is incompatible with the proposed restoration of the facility shall be present within one metre of the final soil surface levels.
- 4.5. Where tree planting is to be carried out above waste-filled areas, a synthetic barrier shall be used to augment the clay cap. Combined topsoil and subsoil depths shall be a minimum of 1m.
- 4.6. Soil Storage
 - 4.6.1. All soils shall be stored to preserve the soil structure for future use.
- 4.7. A final validation report to include a certificate of completion for the Restoration and Aftercare Plan, for all or part of the site as necessary, shall be submitted to the Agency within three months of execution of the plan. The licensee shall carry out such tests, investigations or submit certification, as requested by the Agency, to confirm that there is no continuing risk to the environment.

REASON: To provide for the restoration of the facility.

CONDITION 5 FACILITY OPERATION AND WASTE MANAGEMENT

- 5.1 Wastes shall not be deposited in any new cell or part of the landfill without the prior agreement of the Agency.
- 5.2 Waste Acceptance and Characterisation Procedures
 - 5.2.1 Waste shall be accepted at the facility only from Local Authority waste collection or transport vehicles or holders of waste permits, unless exempted or excluded, issued under the Waste Management (Collection Permit) Regulations 2007 to 2008. Copies of these waste collection permits must be maintained at the facility.
 - 5.2.2 Whole used tyres (other than bicycle tyres and tyres with an outside diameter greater than 1400mm) shall not be disposed of at the facility. Shredded tyres shall not be disposed of at the facility.
 - 5.2.3 No hazardous wastes or liquid wastes shall be disposed of at the facility.
 - 5.2.4 The licensee shall ensure that inert waste accepted at the facility is subject to treatment where technically feasible.
 - 5.2.5 Within one month of the date of grant of this licence, the licensee shall submit to the Agency for its agreement updated written procedures for the acceptance and handling of all wastes. These procedures shall include details of the treatment of all waste to be carried out in advance of acceptance at the facility and shall also include methods for the characterisation, classification and coding of waste. The procedures shall have regard to the Council Decision (2003/33/EC) establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 of and Annex II to Directive 1999/31/EC on the landfill of waste.
 - 5.2.6 The acceptance of inert waste for recovery shall be as specified in EU Decision (2003/22/EC).
 - 5.2.7 Waste Treatment

Only waste that has been subject to treatment shall be accepted for disposal at the landfill facility.

- (i) Treatment shall reflect published EPA technical guidance as set out in *Municipal Solid Waste Pre-treatment and Residuals Management*, EPA, 2009.
- (ii) With the agreement of the Agency, this condition shall not apply to:
 - inert wastes for which treatment is not technically feasible;
 - other waste for which such treatment does not contribute to the objectives of the Landfill Directive as set out in Article 1 of the Directive by reducing the quantity of the waste or the hazards to human health or the environment.
- 5.2.8 Limit on acceptance of biodegradable municipal waste

Unless otherwise as may be specified by the Agency, the following limits shall apply:

- (i) From 1 July 2010 to 30 June 2013 inclusive, a maximum of 40% by weight of municipal solid waste (MSW) accepted for disposal to the body of the landfill shall comprise biodegradable municipal waste (BMW), measured on a calendar year basis or, in 2010 and 2013, part thereof,
- (ii) From 1 July 2013 to 30 June 2016 inclusive, a maximum of 24% by weight of MSW accepted for disposal to the body of the landfill shall comprise BMW, measured on a calendar year basis or, in 2013 and 2016, part thereof, and

(iii) From 1 July 2016, a maximum of 15% by weight of MSW accepted for disposal to the body of the landfill shall comprise BMW, measured on a calendar year basis or, in 2016, part thereof,

unless an alternative has been agreed in writing by the Agency in accordance with Condition 5.2.9.

5.2.9 Two or more licensed landfills may seek the agreement of the Agency that collectively they will arrange to comply with Condition 5.2.8. Such agreement may be sought by review of the landfill licence for any facility seeking an increase in the limits set out in Condition 5.2.8, and by technical amendment of any licence for a facility seeking a decrease. Such agreement will be contingent on the net combined acceptance of biodegradable municipal waste at the participating facilities remaining unchanged.

Determination of biodegradable municipal waste content of municipal waste.

- 5.2.10 The licensee shall determine the biodegradable municipal waste content of MSW accepted for disposal to the body of the landfill. Waste that has been bio-stabilised in accordance with Condition 5.2.13 shall not be considered BMW.
- 5.2.11 Bio-stabilised residual wastes meeting the requirements of
 - Condition 5.2.13, or
 - an alternative protocol as may be agreed by the Agency based on biological treatment process parameters (e.g. validated residence time and temperature parameters at the treatment facility),

received at the landfill facility may be included in the determination of MSW quantities accepted at the facility for the purposes of Condition 5.2.8.

- 5.2.12 In determining BMW content, the licensee shall use approved calculation factors for BMW content of municipal waste streams published by the EPA. With the agreement of the EPA, alternative factors can be used if they have been determined following waste characterisation carried out in accordance with EPA-approved characterisation protocols including, where appropriate, the use of EPA-approved contractors.
- 5.2.13 In the case of bio-stabilised residual wastes, stabilisation means the reduction of the decomposition properties of the waste to such an extent that offensive odours are minimised and that the respiration activity after four days is <10mg O₂/g DM until 1 January 2016 and <7mg O₂/g DM thereafter.
- 5.2.14 Bio-stabilised residual wastes shall be monitored in accordance with *Schedule D.8: Waste Monitoring*, of this licence.
- 5.2.15 Waste that was accepted to the body of the landfill as stabilised waste, but subsequently is found not to meet the stabilisation standard set out in Condition 5.2.13 shall be notified to the Agency and included in the calculation of BMW accepted to the body of the landfill when assessing compliance with Condition 5.2.8.
- 5.2.16 The licensee is required to maintain on-site as part of their waste acceptance procedures and associated documentation, evidence to demonstrate compliance with Condition 5.2.8, which shall be available for inspection by Agency personnel.
- 5.2.17 No waste which in the conditions of the landfill, is explosive, corrosive, oxidising, highly flammable or flammable as defined in EU Council Directive 91/689/EEC shall be accepted at the landfill.
- 5.2.18 The dilution or mixture of waste solely in order to fulfil relevant waste acceptance criteria established under Condition 5.2.5 is prohibited.
- 5.2.19 The waste acceptance procedures established under Condition 5.2.5 shall provide:
 - d) For the checking of waste documentation on receipt of waste in the waste reception area;
 - e) For non pre-cleared customers, the visual inspection and testing of waste in the waste inspection area pending acceptance/rejection;
 - f) For the visual inspection of waste when deposited at the working face;

- g) For the keeping for two months of any samples associated with on-site verification sampling of waste accepted at the facility.
- 5.2.20 The procedures established under Condition 5.2.5 shall ensure that all waste accepted at the facility shall not, when emplaced, compromise the stability of the mass of waste and associated structures.
- 5.3 All wastes shall be checked at the working face. Any waste deemed unsuitable for acceptance at the facility and/or in contravention of this licence shall be immediately separated and removed from the facility at the earliest possible time. Temporary storage of such wastes shall be in a designated Waste Quarantine Area. Waste shall be stored under appropriate conditions in the quarantine area to avoid putrefaction, odour generation, the attraction of vermin and any other nuisance or objectionable condition.

5.4 Working Face

- 5.4.1 Unless the prior agreement of the Agency is given, the following shall apply at the landfill:
 - a) Only one working face shall exist at the landfill at any one time for the deposit of waste other than cover or restoration materials; and
 - b) The working face of the landfill shall be no more than 2.5 metres in height after compaction, no more than 25 metres wide and have a slope no greater than 1 in 3.
- 5.4.2 All waste deposited at the working face shall be compacted, using a steel wheeled compactor, and covered as soon as is practicable and at any rate prior to the end of the working day.
- 5.4.3 The working face, or faces, shall each day at the end of the day, be covered with suitable material.

5.5 Daily and Intermediate Cover

- 5.5.1 Any cover material at any location within the facility which is eroded, washed off or otherwise removed shall be replaced by the end of the working day.
- 5.5.2 Appropriate cover material shall be placed across the whole landfill so that no waste, other than the following is exposed:
 - a) Waste suitable for specified engineering works; and
 - b) Waste on the working face during the operational hours of the facility.
- 5.5.3 Bio-stabilised residual waste shall only be used as landfill cover where it has been stabilised in accordance with Condition 5.2.13 (or meets the requirements of an alternative protocol as may be agreed under Condition 5.2.11), complies with any requirements of the Department of Agriculture, Fisheries and Food relating to the management of animal by-products and has been agreed in advance with the Agency.
- 5.5.4 Materials other than inert soil and stone shall not be used as daily or intermediate cover unless agreed by the Agency in advance.
- 5.5.5 Unless otherwise agreed in writing by the Agency, daily cover shall be replaced by intermediate cover in any area of an active cell where a new covering lift of waste is not proposed within seven days.

5.6 Operational Controls

- 5.6.1 All large hollow objects and other large articles deposited at the facility shall be crushed, broken up, flattened or otherwise treated.
- 5.6.2 Wastes once deposited and covered shall not be excavated, disturbed or otherwise picked over unless required to comply with the conditions of this licence.
- 5.6.3 Completed areas of the landfill shall be profiled so that no depressions exist in which water may accumulate. Any depressions arising after profiling shall be rectified by the emplacement of suitable capping or restoration materials.
- 5.6.4 Filled cells shall be permanently capped within twelve months of the cells having been filled to the required level.

- 5.6.5 Scavenging shall not be permitted at the facility.
- 5.6.6 Gates shall be locked shut when the facility is unsupervised.
- 5.6.7 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 5.6.8 Fuels shall be stored only at appropriately bunded locations on the facility.
- 5.6.9 All tanks and drums shall be labelled to clearly indicate their contents.
- 5.6.10 No smoking shall be allowed on the facility.
- 5.6.11 In relation to waste lifts above the level of the landfill liner at the top of the side walls, the licensee shall install a soil berm along any flank area where that flank forms part of the external perimeter of the waste body. This berm shall be installed before waste is deposited in the lift and shall be constructed so as to minimise landfill gas and leachate emissions and litter that may arise from flank areas prior to the installation of intermediate/final capping.

5.7 Waste Handling

- 5.7.1 Sludges
 - 5.7.1.1 Treated industrial and treated sewage sludges shall be accepted at the facility only between the hours of 0830 hrs and 14.00 hrs. Monday to Friday inclusive. All sludges shall be covered immediately with other waste.
 - 5.7.1.2 In addition to the characterisation required under the Waste Acceptance Procedures, the licensee shall carry out analyses on a minimum of two samples per annum for all industrial sludges being accepted at the facility. The results of these analyses shall be presented in the Annual Environmental Report (AER).
- 5.8 Gypsum wastes shall not be placed in any landfill cell accepting biodegradable waste.
- 5.9 Off-site Disposal and Recovery
 - 5.9.1 Waste sent off-site for recovery or disposal shall be conveyed only by a waste contractor agreed by the Agency.
 - 5.9.2 All waste transferred from the facility shall be transferred only to an appropriate facility agreed by the Agency.
 - 5.9.3 All wastes removed off-site for recovery or disposal shall be transported from the facility to the consignee in a manner which will not adversely affect the environment.

5.10 Civic Waste Facility

- 5.10.1 The Civic Waste Facility shall be used only by private vehicles. The facility shall not be used as a transfer station for disposal of waste by commercial waste disposal contractors or local authority waste collection vehicles.
- 5.10.2 All waste deposited in the Civic Waste Facility shall be either:
 - a) Into a skip;
 - b) Into the hopper of the compactor for disposal;
 - c) Into a receptacle for recovery; and
 - d) In the case where inspection is required, into a designated inspection area.
- 5.10.3 The licensee shall assign and clearly label each container at the Civic Waste Facility to indicate their contents.
- 5.10.4 At the end of the working day the floor of the Civic Waste Facility shall be cleared of waste.

5.11 Construction and Demolition Waste Recovery Area

- 5.11.1 Only Construction and Demolition waste shall be accepted at this Area. Wastes which are capable of being recovered shall be separated and shall be stored temporarily in this area prior to being subjected to other recovery activities at the facility or transport off the facility.
- 5.11.2 All stockpiles shall be maintained so as to minimise dust generation.

5.12 Leachate Management

- 5.12.1 Leachate management shall be as Attachment D 4 of the application.
- 5.12.2 Leachate levels in the waste shall not exceed a level of 1.0m over the top of the liner at the base of the landfill.
- 5.12.3 The frequency of leachate removal/discharge from the leachate lagoon shall be such that a minimum freeboard of 0.50m shall be maintained in the leachate lagoon at all times.
- 5.12.4 Unless treated on the facility, leachate stored in the leachate storage lagoon shall be disposed of by tankering off-site in fully enclosed road tankers.
- 5.12.5 Recirculation of leachate or other contaminated water shall not be undertaken without the prior agreement of the Agency and, in any case, shall be undertaken only within cells which have been lined to the satisfaction of the Agency.
- 5.12.6 Leachate arising from areas where deposition has taken place shall not be allowed to enter any adjacent new cells/sub-cells where waste deposition has not commenced.

5.13 Maintenance

- 5.13.1 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer. Written records of the calibrations and maintenance shall be made and kept by the licensee.
- 5.13.2 All lagoon structures on the facility shall be inspected and certified fit for purpose every three years by an independent and appropriately qualified chartered engineer.
- 5.13.3 The licensee shall maintain and clearly label and name all sampling and monitoring locations.
- 5.13.4 The wheel-wash shall be inspected on a daily basis and drained as required. Silt, stones and other accumulated material shall be removed as required from the wheel-wash and disposed of at the working face or to a skip.

REASON: To provide for appropriate operation of the facility to ensure protection of the environment.

CONDITION 6 EMISSIONS

- 6.1. No specified emission from the facility shall exceed the emission limit values set out in *Schedule C: Emission Limits*, of this licence. There shall be no other emissions of environmental significance.
- 6.2. The licensee shall ensure that the activities shall be carried out in a manner such that emissions do not result in significant impairment of, or significant interference with the environment beyond the facility boundary.

6.3. Landfill Gas

6.3.1. The following are the trigger levels for landfill gas emissions from the facility measured in any service duct or manhole on, at or immediately adjacent to the facility and/or at any other point located outside the body of the waste:-

- a) Methane, greater than or equal to 1.0% v/v; or
- b) Carbon dioxide, greater than or equal to 1.5% v/v.
- 6.3.2. The concentration limits for emissions to atmosphere specified in this licence shall be achieved without the introduction of dilution air and shall be based on gas volumes under standard conditions of:
 - a) In the case of landfill gas flare:

Temperature 273 K, pressure 101.3 kPa, dry gas at 3% oxygen; and

- b) In the case of landfill gas combustion plant:
 - Temperature 273 K, pressure 101.3 kPa, dry gas; 5% oxygen.
- 6.3.3. Emission limits for emissions from landfill gas flare/combustion plant to atmosphere in this licence shall be interpreted in the following way.
 - 6.3.3.1. Continuous monitoring
 - a) No 24 hour mean value shall exceed the emission limit value;
 - b) 97% of all 30 minute mean values taken continuously over an annual period shall not exceed 1.2 times the emission limit value; and
 - c) No 30 minute mean value shall exceed twice the emission limit value.
 - 6.3.3.2 Non-Continuous Monitoring
 - a) For any parameter where, due to sampling/analytical limitations, a 30 minute sample is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value;
 - b) For all other parameters, no 30 minute mean value shall exceed the emission limit value; and
 - c) For flow, no hourly or daily mean value shall exceed the emission limit value.

6.4. Groundwater

- 6.4.1 There shall be no direct emissions to groundwater.
- 6.4.2 The licensee shall maintain and submit to the Agency for its agreement any proposals for their revision, groundwater monitoring trigger levels in accordance with the requirements of Directive 1999/31/EC.
- 6.4.3 The trigger levels as specified in Condition 6.4.2 for groundwater shall be measured at monitoring boreholes MW1, MW4 and MW7 unless otherwise agreed by the Agency.
- 6.5. Emissions to Surface Water
 - 6.5.1. No raw leachate, treated leachate or contaminated surface water shall be discharged to the River Blackwater catchment.
 - 6.5.2. No substance shall be discharged in a manner, or at a concentration which, following initial dilution causes tainting of fish or shellfish.
- 6.6. Disposal of Leachate
 - 6.6.1. All leachate or contaminated water tankered from the facility shall be transported to a Cork County Council Water Treatment Plant, or alternative facility agreed in advance by the Agency, and disposed of there.

REASON: To control emissions from the facility and provide for the protection of the environment.

CONDITION 7 NUISANCE CONTROL

- 7.1 The licensee shall ensure that vermin, birds, flies, mud, dust, litter and odours do not give rise to nuisance at the facility or in the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution.
- 7.2 The road network in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay.

7.3 Litter Control

- 7.3.1 All loose litter or other waste, placed on or in the vicinity of the facility, other than in accordance with the requirements of this licence, shall be removed, subject to the agreement of the landowners, immediately and in any event by 10.00am of the next working day after such waste is discovered.
- 7.3.2 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.

7.4 Dust Control

- 7.4.1 In dry weather, site roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
- 7.4.2 Prior to exiting the facility, all waste vehicles shall use the wheelwash.

7.5 Bird Control

7.5.1 Birds shall be prevented from gathering on and feeding at the facility by the use of birds of prey and/or other bird scaring techniques. The birds of prey and/or other techniques shall be in place and shall be employed every day, from before dawn to after dark, until the waste activities cease and all the waste is capped to the written satisfaction of the Agency.

7.6 Odour Control & Monitoring

- 7.6.1 Within six months of the date of grant of this licence, the licensee shall submit to the Agency for agreement, an Odour Management Plan (OMP) for the facility.
- 7.6.2 The OMP referred to in Condition 7.6.1 shall include measures to control potential sources of odour nuisance, including inter alia, provisions regarding:
 - (i) Requirements of relevant conditions of this licence;
 - (ii) Adequate resources and training on-site to provide for the maintenance, monitoring and operation of the landfill gas extraction system;
 - (iii) Acceptance and management of odorous waste deliveries;
 - (iv) Arrangements for the biannual preparation of an independent assessment and report on surface VOC emissions at the facility following completion of waste acceptance in any cell/sub-cell;
 - (v) Use of sacrificial gas extraction systems; phased capping of the waste body;
 and an interim capping system at inter-cell boundaries;
 - (vi) Working face/active cell sizing and covering;
 - (vii) Landfill gas collection:- locations of infrastructure including access/haul roads, well design and density, monitoring, condensate management, field balancing, flare/combustion plant operation, flare run-time per day and flow rate:
 - (viii) Identification of fugitive sources of landfill gas emissions (e.g. from leachate management infrastructure and/or from side slopes);
 - (ix) Monitoring:- VOC surface emissions from capped areas, odour checks offand on-site, receipt and evaluation/verification of odour complaints received.

- 7.6.3 To meet the requirements of the OMP, the licensee shall carry out a monthly review of control measures in place at the facility and maintain findings in a monthly report. This review shall include:
 - (i) Consideration of odour complaints received during period (including details and nature of complaints, times and weather conditions, any unusual circumstances, problems, etc.);
 - (ii) Review of any monitoring, including ambient odour monitoring in accordance with *Schedule D.9: Ambient Odour Monitoring*, of this licence, carried out (including investigation of complaints and actions taken where relevant);
 - (iii) An update on the existing landfill gas control infrastructure (including operational status, number of wells & vents connected and unconnected to the landfill gas collection system, quantity of gas collected and flared/utilised, estimated quantity of landfill gas being produced, details of any problems with equipment during period);
 - (iv) Details of any remedial/corrective actions taken, where relevant, including actions taken on foot of recommendations from previous report; and
 - (v) Recommendations.

The licensee shall maintain these reports on site and forward them to the Agency on request.

- 7.6.4 Unless otherwise agreed by the Agency, the licensee shall submit the recommendations under Condition 7.6.3.5 to the Agency on a monthly basis for Agency agreement and shall implement the recommendations as agreed by the Agency within a timeframe specified by the Agency.
- 7.6.5 The OMP shall be reviewed annually and any updates/amendments submitted to the Agency as part of the Annual Environmental Report.
- 7.6.6 In relation to surface emissions from the waste body and identified features, the following shall constitute a trigger level:
 - VOC greater than or equal to 50ppmv as methane average over capped area;
 or
 - (ii) VOC greater than or equal to 100ppmv as methane instantaneous reading on open surfaces within the landfill footprint; or
 - (iii) VOC greater than or equal to 500ppmv as methane around all identified features.
- 7.6.7 Leachate holding tanks/lagoons shall be covered, and head gases vented to treatment as may be required by the Agency.
- 7.6.8 All odorous or odour-forming wastes shall be covered as soon as practicable and in any case at the end of the working day.
- 7.6.9 Where it is proposed to take biological sludges at the facility, these must be subject to appropriate pre-treatment in advance of acceptance at the facility.
- 7.6.10 When siting and operating landfill gas infrastructure, regard shall be had to the potential for, and mitigation of, odour nuisance.

7.7 Landfill Gas

- 7.7.1 In order to minimise release of untreated landfill gas at nuisance forming concentrations/volumes, the landfill gas flare shall be capable of operating with a gas support fuel (e.g. natural gas) to allow effective treatment of landfill gas in the event that the landfill gas itself cannot support combustion. Alternative appropriate treatment techniques may be employed with the written prior approval of the Agency.
- 7.7.2 The licensee shall ensure that measures are in place to ensure the continuous operation of the required landfill gas management infrastructure at all times.
- 7.7.3 The landfill gas flaring/utilisation plant shall be designed, managed and operated to ensure the optimum collection of gas irrespective of the quality of the gas. At least one

on-site staff member shall have adequate knowledge and training on the operation of the landfill gas management system and balancing of the gas fields to maximise landfill gas control. The licensee shall ensure that regular (daily/weekly routines) assessment of the operation of the landfill gas management system, e.g. field balancing and control of condensate, is carried out and that records of these assessments are maintained on site.

7.7.4 For cells accepting biodegradable/gas forming wastes, the licensee shall arrange for an annual independent assessment of the landfill gas management system. The licensee shall undertake actions, as necessary, having regard to the recommendations of this independent assessments as may be required by the Agency.

REASON: To provide for the control of nuisances.

CONDITION 8 MONITORING

- 8.1 The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule D: Monitoring*, of this licence and as specified in this licence. Unless otherwise specified by this licence, all environmental monitoring shall commence no later than two months after the date of grant of this licence.
- 8.2 The licensee shall amend the frequency, locations, methods and scope of monitoring as required by this licence only upon the written instruction of the Agency and shall provide such information concerning such amendments as may be requested in writing by the Agency. Such alterations shall be carried out within any timescale nominated by the Agency.
- 8.3 Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturers' instructions (if any) so that all monitoring results accurately reflect any emission, discharge or environmental parameter.
- 8.4 The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 8.5 The licensee shall install a permanent gas monitoring system in the site office and any other enclosed structures at the facility. All landfill gas monitoring equipment, other than permanent monitoring systems within buildings, shall be certified as being intrinsically safe.
- 8.6 Any proposed changes the following information shall be submitted to the Agency for its agreement: the names, qualifications and a summary of the relevant experience of all persons that will carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring.
- 8.7 All monitoring locations shall be as stipulated in this licence or as agreed by the Agency. Following any alteration or addition to monitoring locations stipulated herein, as may be agreed by the Agency, the licensee shall submit to the Agency for its agreement an updated appropriately scaled drawings showing all the monitoring locations. The drawing shall include the twelve figure National Grid Reference for the various monitoring points.
- 8.8. Meteorological Monitoring
 - 8.8.1. The licensee shall make arrangements for representative meteorological data to be collated for the facility to fulfil the requirements of *Schedule D.6: Meteorological Monitoring* of this licence.

- 8.9. Topographical Survey
 - 8.9.1. Unless otherwise agreed by the Agency, a topographical survey shall be carried out biannually until the facility is capped. The survey shall include a measurement of the remaining available void space and shall be in accordance with any written instructions issued by the Agency.
- 8.10. Stability Assessment
 - 8.10.1 The licensee shall carry out a stability assessment of the side slopes of the facility annually.
- 8.11. Nuisance Monitoring
 - 8.11.1. The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by litter, vermin, birds, flies, mud, dust and odours.
- 8.12. The licensee shall ensure that any waste acceptance testing and analysis required by this licence shall be carried out by competent laboratories in accordance with CEN-standards. If CEN standards are not available, ISO, national or international standards or alternative methods shall apply with the agreement of the Agency.

REASON: To ensure compliance with the conditions of this licence by provision of a satisfactory system of monitoring of emissions.

CONDITION 9 CONTINGENCY ARRANGEMENTS

- 9.1. In the event of an incident the licensee shall immediately:
 - a) Identify the date, time and place of the incident;
 - b) Carry out an immediate investigation to identify the nature, source and cause of the incident and any emission arising therefrom;
 - c) Isolate the source of any such emission;
 - d) Evaluate the environmental pollution, if any, caused by the incident;
 - e) Identify and execute measures to minimise the emissions/malfunction and the effects thereof; and
 - f) Provide a proposal to the Agency for its agreement within one month of the incident occurring to:-
 - (i) Identify and put in place measures to avoid reoccurrence of the incident;
 - (ii) Identify and put in place any other appropriate remedial action.
- 9.2. The licensee shall maintain, review annually and update as necessary an Emergency Response Procedure (ERP).
- 9.3. The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility. Once used the absorbent material shall be disposed of at an appropriate facility.
- 9.4. Emergencies
 - 9.4.1. All significant spillages occurring at the facility shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects.
 - 9.4.2. No waste shall be burnt within the boundaries of the facility. A fire at the facility shall be treated as an emergency and immediate action shall be taken to extinguish it and notify the appropriate authorities.

- 9.4.3. In the event that monitoring of local wells indicates that the facility is having a significant adverse effect on the quantity and/or quality of the water supply this shall be treated as an emergency and the licensee shall provide an alternative supply of water to those affected.
- 9.4.4. In the event that monitoring of the side slopes of the facility indicate that there may be a risk of slope failure this will be treated as an emergency.
- 9.5. The licensee shall ensure that a documented Accident Prevention Policy is in place, which will address the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary.

REASON: To ensure compliance with the conditions of this licence by provision of a satisfactory system of monitoring of emissions. To provide for the protection of the environment.

CONDITION 10 RECORDS

- 10.1 The licensee shall keep the following documents at the facility office:
 - a) The current waste licence relating to the facility;
 - b) The current EMS for the facility;
 - c) The previous year's AER for the facility; and.
 - d) All written procedures produced by the licensee which relate to the licensed activities.
- 10.2 The licensee shall maintain a written record for each load of waste arriving at the facility. The licensee shall record the following:
 - (i) the date and time;
 - (ii) the name of the carrier (including if appropriate, the waste carrier registration details);
 - (iii) the vehicle registration number;
 - (iv) the trailer, skip or other container unique identification number (where relevant);
 - (v) the name of the producer(s)/collector(s) of the waste as appropriate;
 - (vi) the name of the waste facility (if appropriate) from which the load originated including the waste licence or waste permit register number;
 - (vii) a description of the waste including the associated EWC/HWL codes;
 - (viii) the quantity of the waste, recorded in tonnes;
 - (ix) details of the treatment(s) to which the waste has been subjected;
 - (x) the classification and coding of the waste, including whether MSW or otherwise;
 - (xi) whether the waste is for disposal or recovery and if recovery for what purpose;
 - (xii) the name of the person checking the load; and
 - (xiii) where loads or wastes are removed or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed.

10.3 Written Records

The following written records shall be maintained by the licensee:-

- a) The types and quantities of waste recovered and disposed of at the facility each year. These records shall include the relevant EWC Codes;
- b) All training undertaken by facility staff;
- c) Results from all integrity tests of bunds and other structures and any maintenance or remedial work arising from them;
- d) Details of all nuisance inspections; and

- e) The names and qualifications of all persons who carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring.
- 10.4 The licensee shall maintain a written record of all complaints relating to the operation of the facility. Each such record shall give details of the following:
 - a) Date and time of the complaint;
 - b) The name of the complainant;
 - c) Details of the nature of the complaint;
 - d) Actions taken on foot of the complaint and the results of such actions; and
 - e) The response made to each complainant.
- 10.5 A written record shall be kept of each consignment of leachate removed from the facility. The record shall include the following:
 - a) The name of the carrier;
 - b) The date and time of removal of leachate from the facility;
 - c) The volume of leachate, in cubic metres, removed from the facility on each occasion;
 - d) The name and address of the Waste Water Treatment Plant to which the leachate was transported; and
 - e) Any incidents or spillages of leachate during its removal or transportation.
- 10.6 A written record shall be kept for each load of waste departing from the Civic Waste Facility. The following shall be recorded:
 - a) The name of the carrier:
 - b) The vehicle registration number;
 - c) The destination of the waste (facility name and waste licence/permit number as appropriate);
 - A description of the waste (if recovered or rejected waste, the specific nature of the waste);
 - e) The quantity of waste, recorded in tonnes;
 - f) The name of the person checking the load; and
 - g) The time and date of departure.
- 10.7 A written record shall be kept at the facility of the programme for the control and eradication of vermin and fly infestations at the facility. These records shall include as a minimum the following:
 - a) The date and time during which spraying of insecticide is carried out;
 - b) Contractor details;
 - c) Contractor logs and site inspection reports;
 - d) Details of the rodenticide(s) and insecticide(s) used;
 - e) Operator training details;
 - f) Details of any infestations;
 - g) Mode, frequency, location and quantity of application; and
 - h) Measures to contain sprays within the facility boundary.
- 10.8 The licensee shall provide a written acknowledgement (to carrier/waste contractor) of receipt of each delivery of waste to the facility (for disposal in the landfill).

REASON: To provide for the keeping of proper records of the operation of the facility.

CONDITION 11 REPORTS AND NOTIFICATIONS

- 11.1 Unless otherwise agreed by the Agency, all reports and notifications submitted to the Agency shall:
 - a) Be sent to the EPA, Regional Inspectorate, Inniscarra, Co. Cork;
 - b) Comprise one original and two copies unless additional copies are required;
 - c) Be formatted in accordance with any written instruction or guidance issued by the Agency;
 - d) Include whatever information as is specified in writing by the Agency;
 - e) Be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;
 - f) Be submitted in accordance to the relevant reporting frequencies specified by this licence, such as in *Schedule E: Recording and Reporting to the Agency*, of this licence;
 - g) Be accompanied by a written interpretation setting out their significance in the case of all monitoring data; and
 - h) Be transferred electronically to the Agency's computer system if required by the Agency.
- 11.2 In the event of an incident occurring on the facility, the licensee shall:
 - a) Notify the Agency as soon as practicable and in any case not later than 1000 hrs the following working day after the occurrence of any incident;
 - b) Submit a written record of the incident, including all aspects described in Condition 9.1(a-e), to the Agency as soon as practicable and in any case within five working days after the occurrence of any incident;
 - c) In the event of any incident which relates to discharges to surface/sewer water, notify the Southern Regional Fisheries Board as soon as practicable and in any case not later than 1000 hrs on the following working day after such an incident; and
 - d) Should any further actions be taken as a result of an incident occurring, the licensee shall forward a written report of those actions to the Agency as soon as practicable and no later than ten days after the initiation of those actions.

11.3 Waste Recovery Reports

The licensee shall as part of the Annual Environmental Report for the site submit a report on the contribution by this facility to the achievement of the waste recovery objectives stated in Condition 2.3.2.1 and as otherwise may be stated in National and European Union waste policies and shall, as a minimum, include tonnages of the following:

- (i) the recovery of Construction and Demolition Waste;
- (ii) the recovery of other waste in landfill operations, including restoration:
- (iii) the recovery of energy through landfill gas combustion.

11.4 Annual Environmental Report

- 11.4.1 The licensee shall submit to the Agency for its agreement, by 31st March of each year an Annual Environmental Report (AER).
- 11.4.2 The AER shall include as a minimum the information specified in *Schedule F: Content of the Annual Environmental Report* of this licence and shall be prepared in accordance with any relevant written guidance issued by the Agency.
- 11.5 Reporting to demonstrate compliance with diversion targets

The Licensee shall report to the Agency such data and records, and at such frequency, as may be specified by the Agency in order to demonstrate compliance with the requirements of Condition 5.2.8. From 1 January 2010, and unless otherwise advised by the Agency, the licensee shall

submit quarterly summary reports to the Agency within one week of the end of each quarter on the quantity of MSW and BMW accepted at the landfill during the preceding quarter and on a cumulative basis for the calendar year to date. The report shall detail the tonnage of MSW and BMW accepted and the basis (including all calculation factors) on which the figures have been calculated.

11.6 The licensee shall, in writing, notify the Agency without delay of any waste that arrived at the facility that does not meet the waste acceptance criteria.

REASON: To provide for proper reports to and notifications to the Agency.

CONDITION 12 CHARGES AND FINANCIAL PROVISIONS

12.1 Agency Charges

- 12.1.1 The licensee shall pay to the Agency an annual contribution of €24,078, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Waste Management Acts 1996 to 2008. The first payment shall be a pro-rata amount for the period from the date of grant of this licence to the 31st day of December, and shall be paid to the Agency within one month from the date of grant of the licence. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Waste Management Acts 1996 to 2008, and all such payments shall be made within one month of the date upon which demanded by the Agency.
- 12.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased, the licensee shall contribute such sums as determined by the Agency to defray its costs in regard to items not covered by the said annual contribution.

12.2 Financial Provision for Closure, Restoration and Aftercare

- 12.2.1 The licensee shall from a date to be set by the Agency establish and maintain a fund, or provide a written guarantee, that is adequate to assure the Agency that the licensee is at all times financially capable of implementing the Restoration and Aftercare Plan required by Condition 4. The type of fund established and means of its release/recovery shall be agreed by the Agency prior to its establishment.
- 12.2.2 Any fund established shall be maintained in an amount always sufficient to underwrite the current Restoration and Aftercare Plan.
- 12.2.3 The licensee shall revise the cost of restoration and aftercare annually and any details of the necessary adjustments to the fund or guarantee must, within two weeks of the revision, be forwarded to the Agency for its agreement. Any adjustment agreed by the Agency shall be effected within four weeks of said written agreement.

12.2.4 Unless otherwise agreed any revision to the fund shall be computed using the following formula:-

 $Cost = (ECOST \times WPI) + CiCC$ Where:-

Cost = Revised restoration and aftercare cost

ECOST = Existing restoration and aftercare cost

WPI = Appropriate Wholesale Price Index [Capital Goods, Building & Construction (i.e. Materials & Wages) Index], as published by the Central Statistics Office, for the year since last closure calculation/revision.

CiCC = Change in compliance costs as a result of change in site conditions, changes in law, regulations, regulatory authority charges, or other significant changes.

12.3 Cost of landfill of waste

In accordance with the provisions of Section 53A of the Waste Management Acts 1996 to 2008, the licensee shall ensure the costs involved in the setting up and operation of the facility, as well as the costs of closure and after-care (including cost of provision of financial security) for a period of at least 30 years (post closure) shall be covered by the price to be charged for the disposal of waste at the facility. The statement required under Section 53A(5) of said Acts is to be included as part of the AER.

12.4 Environmental Liabilities

- 12.4.1 The licensee shall as part of the AER, provide an annual statement as to the measures taken or adopted at the site in relation to the prevention of environmental damage, and the financial provisions in place in relation to the underwriting of costs for remedial actions following anticipated events (including closure) or accidents/incidents, as may be associated with the carrying on of the activity.
- 12.4.2 The licensee shall arrange for the completion, by an independent and appropriate qualified consultant, of a comprehensive and fully costed Environmental Liabilities Risk Assessment (ELRA) to address the liabilities from past and present activities. A report on this assessment shall be submitted to the Agency for agreement within twelve months of date of grant of this licence. The ELRA shall be reviewed as necessary to reflect any significant change on site, and in any case every three years following initial agreement. The results of the review shall be notified as part of the AER.
- 12.4.3 As part of the measures identified in Condition 12.4.1, the licensee shall, to the satisfaction of the Agency, make financial provision to cover any liabilities associated with operation (including closure and aftercare) of the facility not already covered in Condition 12.2. The amount of indemnity held shall be reviewed and revised as necessary, but at least annually. Proof of renewal or revision of such financial indemnity shall be included in the annual 'Statement of Measures' report identified in Condition 12.4.1.

REASON: To provide for adequate financing for monitoring and financial provisions for measures to protect the environment.

SCHEDULE A: Waste Acceptance

A.1 Waste Acceptance

Table A.1 Waste Categories and Quantities

WASTE TYPE Note 1	MAXIMUM QUANTITY Note 2 (Tonnes per Annum)
Household & Commercial	128,000
Treated sewage sludge	9,700
Industrial non-hazardous waste	27,000
Construction & Demolition Waste	5,300
TOTAL	170,000

Note 1: Only pre-treated wastes are acceptable for disposal as set out in Article 6(a) of the Landfill Directive.

Note 2: Quantities of waste types may be altered, subject to the agreement of the Agency, provided the total quantity for disposal does not exceed 170,000 tonnes per annum.

Table A.2 Waste Categories for Recovery at the facility up until completion of the restoration of the landfill

WASTE TYPE	LIMITATION
Recyclable wastes	Subject to Condition 5.11
Inert wastes	Subject to Condition 5.2.6. For use on site - in road making material, as cover material and in capping and restoration works.

Table A.3 Total Permitted Landfill Capacity

	Total quantity of waste permitted to be placed at the landfill facility (over authorised life of facility)	450,000 m ³
ì	the landing facility (over authorised life of facility)	,

SCHEDULE B: Specified Engineering Works

Specified Engineering Works

Development of the facility including preparatory works and lining.

Lined/Unlined landfill interface.

Final capping.

Installation of Compost Facility with a maximum capacity of 1000m³.

Installation of Landfill Gas Management Infrastructure.

Installation of Leachate Management Infrastructure.

Installation of Groundwater Control Infrastructure.

Installation of Surface Water Management Infrastructure.

Any other works notified in writing by the Agency.

SCHEDULE C: Emission Limits

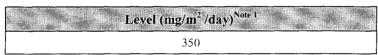
C.1 Noise Emissions: (Measured at the facility boundary monitoring points indicated in Table D.1.1 Monitoring Locations), or other locations agreed or instructed by the Agency.

Day dB(A) L _{Aeq} (30 minutes)	Night dB(A) L _{Aeq} (30 minutes)
55	45

C.2 Landfill Gas Concentration Limits: (Measured in any building on or adjacent to the facility).

Methane	Carbon Dioxide
20 % LEL (1% v/v)	1.5 % v/v

C.3 Dust Deposition Limits: (Measured at the monitoring points indicated in *Table D.1.1 Monitoring Locations*).



Note 1: 30 day composite sample with the results expressed as mg/m²/day.

C.4 Emission Limits Values for Landfill Gas Plant

Emission Point Reference Nos.:

(to be agreed by the Agency)

Location:

Landfill Gas Combustion Plant and Flare Stacks

Minimum discharge height:

5m

Parameter	Flare (enclosed) Emission Limit Value Note 1	Utilisation Plant Emission Limit Value Note 1
Nitrogen oxides (NO _x)	150 mg/m ³	500 mg/m ³
СО	50 mg/m ³	650 mg/m³
Particulates	Not applicable	130 mg/m ³
Total organic carbon (TOC)	10 mg/m ³	Not applicable

Note 1: Dry gas referenced to 5% oxygen by volume for utilisation plants and 3% oxygen by volume for flares.

SCHEDULE D: Monitoring

D.1 Monitoring Locations

Monitoring locations shall be those as set out in Table D.1.1, as shown in Drawing No. 2003-004-04-05 of the application unless otherwise indicated or agreed by the Agency.

 Table D.1.1
 Monitoring Locations

LANDFILL GAS	DUST	NOISE	SURFACE WATER	GROUND WATER	LEACHATE
*STATIONS	STATIONS	STATIONS	STATIONS	STATIONS	STATIONS
G1	ST1	NI	SW1	MWI	Ll
G2	ST2	N2	SW2	MW4	L2
G3	ST3	N3	SW3	MW7	L3
G4	ST4	N4	SW6		L4
G5		SI	GA127		
G6		S2			
G7					

D.2 Landfill Gas

 Table D.2.1
 Landfill Gas Monitoring Parameters, Frequency and Technique

Parameter	Monitoring Frequency		Analysis Method Note1/Technique Note2
The control of the state of the	Gas Boreholes/ Vents/Wells	Site Office	
Methane (CH ₄) % v/v	Monthly	Weekly	Infrared analyser/flame ionisation detector
Carbon dioxide (CO ₂) % v/v	Monthly	Weekly	Infrared analyser/ flame ionisation detector
Oxygen(O ₂) % v/v	Monthly	Weekly	Electrochemical cell
Atmospheric Pressure	Monthly	Weekly	Standard
Temperature	Monthly	Weekly	Standard

Note 1: All monitoring equipment used should be intrinsically safe.

Note 2: Or other methods agreed in advance by the Agency.

D.3 Dust

Table D.3.1 Dust Monitoring Frequency and Technique

Parameter (mg/m²/day)	Monitoring Frequency	Analysis Method/Technique	
Dust	Three times a year Note 2	Standard Method Note 1	

Note 1: Standard method VDI2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute). A modification (not included in the standard) which 2 methoxy ethanol may be employed to eliminate interference due to algae growth in the gauge.

Note 2: Twice during the period May to September.

D.4 Noise

 Table D.4.1
 Noise Monitoring Frequency and Technique

Parameter	Monitoring Frequency	Analysis Method/Technique
L(A) _{EQ} [30 minutes]	Annual	Standard Note !
L(A) ₁₀ [30 minutes]	Annual	Standard Note I
L(A) ₉₀ [30 minutes]	Annual	Standard Note 1
Frequency Analysis(1/3 Octave band analysis)	Annual	Standard Note 1

Note 1: "International Standards Organisation, ISO 1996. Acoustics - description and Measurement of Environmental noise, Parts 1, 2 and 3."

D.5 Surface Water, Groundwater and Leachate

Table D.5.1 Water and Leachate - Parameters /Frequency

Parameter Note 1	SURFACE WATER	GROUNDWATER	LEACHATE Note 5
	Monitoring	Monitoring	Monitoring
	Frequency	Frequency	Frequency
Visual Inspection/Odour Note 2	Weekly	Quarterly	Quarterly
Groundwater Level	Not Applicable	Monthly	Not Applicable
Leachate Level	Not Applicable	Not Applicable	Quarterly
Ammoniacal Nitrogen	Quarterly	Quarterly	Quarterly
BOD	Quarterly	Not Applicable	Quarterly
COD	Quarterly	Not Applicable	Quarterly
Chloride	Quarterly	Quarterly	Quarterly
Dissolved Oxygen	Quarterly	Annually	Not Applicable
Electrical Conductivity	Quarterly	Quarterly	Quarterly
pН	Quarterly	Quarterly	Quarterly
Total Suspended Solids	Quarterly	Not Applicable	Not Applicable
Temperature	Quarterly	Quarterly	Quarterly
Cadmium	Annually	Annually	Annually
Chromium (Total)	Annually	Annually	Annually
Copper	Annually	Annually	Annually
Cyanide (Total)	Not Applicable	Annually	Not Applicable
Iron	Annually	Quarterly	Annually
Lead	Annually	Annually	Annually
List I/II organic substances Note 3	Not Applicable	Annually	Not Applicable
Magnesium	Annually	Annually	Annually
Manganese	Annually	Annually	Annually
Mercury	Annually	Annually	Annually
Nickel	Not Applicable	Annually	Annually
Potassium	Annually	Annually	Annually
Sulphate	Annually	Annually	Annually
Total Alkalinity	Annually	Annually	Not Applicable
Total Phosphorus / orthophosphate	Annually	Annually	Annually
Total Oxidised Nitrogen	Annually	Quarterly	Quarterly
Zinc Zinc		` '	•
Phenols	Annually Not Applicable	Annually	Annually Not Applicable
	Not Applicable Bi-Annually Note 4	Annually Not Applicable	Not Applicable
Biological Assessment	BI-Annually	Not Applicable	Not Applicable

Note 1: All the analysis shall be carried out by a competent laboratory using standard and internationally accepted procedures.

Note 2: Where there is evident gross contamination of leachate, additional samples should be analysed.

Note 3: Samples screened for the presence of organic compounds using Gas Chromatography / Mass Spectrometry (GC/MS) or other appropriate techniques and using the list I/II Substances from EU Directive 76/464/EEC and 80/68/EEC as a guideline. Recommended analytical techniques include: volatiles (US Environmental Protection Agency method 524 or equivalent), semi-volatiles (US Environmental Protection Agency method 525 or equivalent, and pesticides (US Environmental Protection Agency method 608 or equivalent).

Note 4: Appropriate biological methods (such as EPA Q-Rating System to be used for the assessment of rivers and streams).

Note 5: Visual Inspection and Leachate Levels for all leachate stations referred to in Table D.1.1. Sampling and analysis to be carried out for leachate in leachate storage lagoon/tank and two leachate boreholes in waste.

D.6 Meteorological Monitoring

Table D.6.1 Meteorological Monitoring:

Parameter	Monitoring Frequency	Analysis Method/Technique
Precipitation Volume	Daily	Standard
Temperature (min/max.)	Daily	Standard
Wind Force and Direction	Daily	Standard
Atmospheric humidity (14.00h CET)	Daily ^{Note1}	Standard

Note 1: Daily during operational phase, monthly average in aftercare phase.

D.7 Landfill Gas Combustion Plant/Enclosed Flare

Location: Utilisation plant and enclosed flare (location of flare to be agreed by the Agency in advance).

Table D.7.1 Landfill Gas Utilisation Plant/Enclosed Flare Parameters and Monitoring Frequency

Parameter =	Flare (enclosed) Monitoring Frequency	Utilisation Plant Monitoring Frequency	Analysis Method ^{Nofel} /Technique ^{Nofe2}
Inlet			
Methane (CH ₄) % v/v	Continuous	Weekly	Infrared analyser/flame ionisation detector/thermal conductivity
Carbon dioxide (CO ₂) % v/v	Continuous	Weekly	Infrared analyser/thermal conductivity
Oxygen (O ₂) % v/v	Continuous	Weekly	Electrochemical/thermal conductivity
Process Parameters			
Combustion Temperature	Continuous	Quarterly	Temperature Probe/datalogger
Outlet			
СО	Continuous	Continuous	Flue gas analyser/datalogger
Nox	Annually	Annually	Flue gas analyser
SO_2	Annually	Annually	Flue gas analyser
Particulates	Not applicable	Annually	Isokinetic/Gravimetric
TOC	Annually	Not applicable	Flame ionisation

Note 1: All monitoring equipment used should be intrinsically safe.

Note 2: Or other methods agreed in advance by the Agency.

D.8 Waste Monitoring

Table D.8.1 Waste Monitoring

Waste class	Frequency	Parameter	Method
Bio-stabilised residual waste	Every 200 tonnes from each source Note 1	Respiration activity after 4 days	To be agreed by the Agency

Note 1: Frequency can be reduced if an alternative protocol is agreed by the Agency under condition 5.2.11.

D.9 Ambient Odour Monitoring

Table D.9.1 Ambient Odour Monitoring

Parameter	Frequency	Analysis Method/Technique
Odour	Monthly	As Agreed

D.10 Balancing of landfill gas

Locations: To be agreed by the Agency under Condition 7.7.3

Table D.10.1

Parameter	Frequency	Analysis Method/Technique Notel
Methane (CH ₄)	To be agreed by the Agency	Infrared analyser/FID
Carbon dioxide (CO ₂)	under Condition 7.7.3	Infrared
Oxygen (O2)		Electrochemical cell
Flow		Anemometer/Pitot tube
Or		Manometer
Pressure		

Note 1: Or other method agreed.

SCHEDULE E: Recording and Reporting to the Agency

Report	Reporting Frequency Notel	Report Submission Date	
Notification of waste loads not meeting waste acceptance criteria	As they occur	As per Condition 11.6	
Compliance with waste diversion targets	As required by the Agency	As per Condition 11.5	
Annual Environment Report (AER)	Annually	By 31 st March of each year.	
Record of incidents	As they occur	Within five days of the incident.	
Bund, tank and container integrity assessment	Every three years	As part of the AER.	
Specified Engineering Works reports	As they arise	Prior to the works commencing.	
Phased Construction Plans	As they arise	Two months prior to the commencement of any site development.	
Procedures for the acceptance and handling of all wastes	Once-off	Within one month of the date of grant of this licence	
Waste Recovery Reports	Annually	As part of the AER.	
Monitoring of Landfill Gas	Quarterly	Ten days after end of the quarter being reported on.	
Monitoring of Surface Water Quality	Quarterly	Ten days after end of the quarter being reported on.	
Monitoring of Groundwater Quality	Quarterly	Ten days after end of the quarter being reported on.	
Monitoring of Leachate	Quarterly	Ten days after end of the quarter being reported on.	
Dust Monitoring	Three times a year	Ten days after the period being reported on.	
Any other monitoring	As they occur	Within ten days of obtaining results.	

Note 1: Unless altered at the request of the Agency.

SCHEDULE F: Content of the Annual Environmental Report

Annual Environmental Report Content

Reporting Period.

Waste activities carried out at the facility.

Calculated remaining capacity of the facility and year in which final capacity is expected to be reached.

Methods of deposition of waste.

Summary report on emissions.

Summary of results and interpretation of environmental monitoring.

Resource and energy consumption summary.

Proposed development of the facility and timescale of such development.

Volume of leachate produced and volume of leachate transported / discharged off-site.

Report on development works undertaken during the reporting period, and a timescale for those proposed during the coming year.

Report on restoration of completed cells / phases.

Site survey showing existing levels of the facility at the end of the reporting period.

Estimated annual and cumulative quantities of landfill gas emitted from the facility.

Estimated annual and cumulative quantity of indirect emissions to groundwater.

Annual water balance calculation and interpretation.

Report on the progress towards achievement of the Environmental Objectives and Targets contained in previous year's report.

Schedule of Environmental Objectives and Targets for the forthcoming year.

Updates/Amendments to Odour Management Plan (OMP).

Updates to Landfill environmental Management Plan (LEMP).

Review of Environmental Liabilities.

Report on waste recovery.

Full title and a written summary of any procedures developed by the licensee in the year which relates to the facility operation.

Tank, pipeline and bund testing and inspection report.

Reported incidents and Complaints summaries.

Review of Nuisance Controls.

Reports on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information.

Report on training of staff.

Statement of compliance of facility with any updates of the relevant Waste Management Plan.

Statement on the achievement of the waste acceptance and treatment obligations.

Any other items specified by the Agency.

Signed on behalf of the said Agency On the 19th day of October, 2009

Brian Meaney, Authorised Person