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County Wexford, Ireland

WASTE LICENCE PROPOSED DECISION

Waste Licence	60-1
Register Number:	
Applicant:	Louth County Council
Location of Facility:	Whiteriver Landfill, Whiteriver TD, County Louth

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Reasons for the Decision

The 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 not contravene any of the requirements of Section 40(4) of the Waste Management Act, 1996.

In reaching this decision the Agency has considered the application and supporting documentation received from the applicant, all submissions received from other parties and the report of its inspector.

Part I Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Act, 1996, the Environmental Protection Agency (the Agency) proposes, under Section 40(1) of the said Act to grant this Waste Licence to Louth County Council to carry on the waste activities listed below at Whiteriver Landfill, Whiteriver TD, County Louth subject to eleven conditions, with the reasons therefor and the associated schedules attached thereto set out in the licence.

Licensed waste disposal activities, in accordance with the Third Schedule of the Waste Management Act, 1996

- Class 1:* Deposit on, in or under land (including landfill).
- Class 4:* Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.
- Class 5:* Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.
- 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 10. of this Schedule.
- Class 7:* Physico-chemical treatment not referred to elsewhere in this Schedule (including evaporation, drying and calcination) which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1. to 10. of this Schedule.

INTERPRETATION

Act	The Waste Management Act, 1996 (No. 10 of 1996).
Aerosol	A suspension of solid or liquid particles in a gaseous medium.
Adequate lighting	20 lux measured at ground level.
Agreement	Agreement in writing.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of the waste licence application.
Application	The application by the licensee for this waste licence, including any other material submitted to the Agency in writing by the licensee between the date of the application and the date of grant of this 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 Integrated Pollution Prevention and Control.
Biodegradable waste	Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food and garden waste, and paper and paperboard.
Commercial waste	As defined in Section 5 (1) of the Act.
Condition	A condition of this licence. In any case where this licence refers to a numbered condition, the reference shall be taken to mean the condition and any sub-condition therein which the context of the reference requires that reference is made to
Containment boom	A boom which can contain spillages and prevent these 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 with the Agency.
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.
Emission	As defined in Section 5 (1) of the Act.
Emission Limit Value	Those limits, including concentration limits and deposition levels established in Schedule G.

Environmental Pollution	As defined in Section 5 (1) of the Act.
European Waste Catalogue (EWC)	The EWC is 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.
Facility	That area or areas defined under Condition 1.2
Green waste	Waste wood, plant matter and other vegetation.
Hazardous Waste	As defined in Section 4 (2) of the Act.
Household Waste	As defined in Section 5 (1) of the Act.
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.
Incident	Any reference to an incident in this licence means an incident as defined in Condition 3.1.
Industrial waste	As defined in Section 5 (1) of the Act.
Landfill	As defined in Section 5 (1) of the Act.
Landfill Gas	Gases generated from the landfilled waste.
Leachate	Any liquid percolating through the deposited waste and emitted from or contained within a landfill as defined in Section 5 (1) of the Act.
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	Louth County Council
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
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	At least 12 times per year, at approximately monthly intervals.

Municipal Waste	Municipal waste as defined in Section 5 (1) of the Act.
Night-time	10.00 p.m. to 8.00 a.m.
Non-hazardous waste	Non-Hazardous Waste is any waste which is not a hazardous waste as defined in the Act.
Quarterly	A period of three calendar months, the first period of which commences on the date of grant of this licence
Recovery	As defined in Section 4 (4) of the Act.
Sample(s)	Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments
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.
Specified Emissions	Those emissions listed in Schedule G: Emission Limits of this licence.
Specified Engineering Works	Those engineering works listed in Schedule E: Specified Engineering Works of this licence.
Submit	Unless the context of this licence indicates otherwise, submit in writing to the Agency for its agreement
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.
Trigger Level	A parameter value which when achieved or exceeded requires certain actions to be taken.
Waste	As defined in Section 4(1) of the Act.
Waste disposal activity	Includes the activities referred to in Section 4 of the Act and listed in the Third Schedule thereto.
White Goods	Refrigerators, cookers, ovens and other similar appliances.
Working Day	9.00am to 5.30pm Monday to Friday
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 II CONDITIONS

CONDITION 1 SCOPE

- 1.1. Waste activities at the facility shall be restricted to those listed and described in Schedule A: Waste Activities and required by the licence.
- 1.2. Waste activities shall be restricted to the area of land outlined in red on Drawing No. 4606.03/B3 "Site Plan" of the application. Any reference in this licence to "facility" shall mean the area thus outlined in red.
- 1.3. 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. Every 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.
- 1.4. This licence is for the purposes of waste licensing under the Waste Management Act 1996 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.5. Where the Agency considers that a non-compliance with the Conditions of this licence has occurred, it may serve a notice on the licensee specifying:
 - a) that only those wastes as specified, if any, in the notice are to be accepted at the facility after the date set down in the notice;
 - b) that the licensee shall undertake the works stipulated in the notice, and/or otherwise comply with the requirements of the notice as set down therein, within the time-scale contained in the notice; and,
 - c) that the licensee shall carry out any other requirement specified in the notice.

When the notice has been complied with, the licensee shall provide written confirmation that the requirements of the notice have been carried out. No waste, other than that which is stipulated in the notice, shall be accepted at the facility until written confirmation is received from the Agency that the notice is withdrawn.

Reason: *To clarify the scope of this licence.*

CONDITION 2 MANAGEMENT OF THE ACTIVITY

2.1 Environmental Management System

2.1.1 The licensee shall within twelve months from the date of grant of this licence, submit to the Agency for its agreement a proposal for a documented Environmental Management System (EMS) for the facility. Following the agreement of the Agency, the licensee shall establish and maintain such a system within eighteen months from the date of grant of this licence. The EMS shall be updated on an annual basis with amendments being submitted to the Agency for its agreement.

2.1.2 The EMS shall include as a minimum those elements specified in the Conditions 2.2 to 2.7 below:

2.2 Schedule of Environmental Objectives and Targets

2.2.1 The licensee shall, within six months from the date of grant of this licence, submit to the Agency for its agreement a Schedule of Objectives and Targets. The objectives should be specific and the targets measurable.

2.2.2 The Schedule shall address a five year period as a minimum and shall be reviewed and submitted annually to the Agency for its agreement.

2.3 Environmental Management Programme

2.3.1 The licensee shall, within nine months from the date of grant of this licence, submit to the Agency for its agreement an Environmental Management Programme (EMP). The EMP shall include a time-scale for achieving the Schedule of Objectives and Targets and shall comply with any other guidance issued by the Agency.

2.3.2 The EMP shall include, as a minimum, the information specified in Schedule B: Content of the Environmental Management Programme. The EMP shall be reviewed and submitted to the Agency for its agreement annually.

2.4 Corrective Action

2.4.1 Within three months of the date of grant of this licence the licensee shall establish and maintain written Corrective Action Procedures to ensure that corrective action is taken should specified requirements of this licence not be fulfilled.

2.5 Awareness and Training

2.5.1 Within three months of the date of grant of this the licensee shall establish and maintain Awareness and Training Procedures for identifying training needs and for providing appropriate training, for personnel whose work is related to the licensed facility. Written records of training shall be maintained.

2.6 Management Structure

2.6.1 Within three months from the date of grant of this licence, the licensee shall submit written details of the management structure of the facility for the agreement of the Agency. Any proposed changes in the management structure

shall be submitted in writing to the Agency for its agreement. Written details of the management structure shall include the following information:

- 2.6.2 the names of all persons who are to provide the management and supervision of the waste activities authorised by the licence;
 - 2.6.3 details of the responsibilities for each individual named under a) above;
 - 2.6.4 details of the relevant experience, competence and qualifications held by each of the persons nominated under a) above; and
 - 2.6.5 contingency arrangements for the absences of the named persons from the facility.
- 2.7 Communications
- 2.7.1 Within three months from the date of grant of this licence, the licensee shall submit to the Agency for its agreement a Communications Programme to ensure that members of the public can obtain information concerning the environmental performance of the facility at all reasonable times. The communication programme should have regard to the structure and role of the monitoring committee already in place.
- 2.8 Annual Environmental Report
- 2.8.1 The licensee shall submit to the Agency for its agreement, within thirteen months from the date of grant of this licence, and within one month of the end of each year thereafter, an Annual Environmental Report (AER).
 - 2.8.2 The AER shall include as a minimum the information specified in Schedule C: Content of Annual Environmental Report and shall be prepared in accordance with any relevant written guidance issued by the Agency.
- 2.9 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 suitably qualified and experienced deputy, shall be present at all times during the operation of the facility.
- 2.10 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and/or experience, as required and shall be aware of the requirements of this licence.

Reason: *To make provision for management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment.*

CONDITION 3 NOTIFICATION AND RECORD KEEPING

- 3.1 The licensee shall make written records of the following incidents:
- a) any nuisance caused by the activity
 - b) any emission which results in the contravention of any relevant standard, including any standard for an environmental medium, or any relevant emission limit value, prescribed under any relevant enactment;
 - c) any emission which does not comply with the requirements of this licence;
 - d) any trigger level specified in this licence which is attained or exceeded;
 - e) any indication that environmental pollution has, or may have, taken place;
 - f) any occurrence with the potential for environmental pollution; and,
 - g) any emergency.
- 3.2 The written record shall include all aspects described in Condition 10.8 (a-e).
- 3.3 Unless otherwise instructed in writing by the Agency, the licensee shall:
- a) notify the Agency as soon as practicable and in any case not later than 10.00 am the following working day after the occurrence of any incident;
 - b) submit the written record required by this condition to the Agency as soon as practicable and in any case within five working days after the occurrence of any incident; and
 - c) in the event of any incident which relates to discharges to surface water, notify the Eastern Regional Fisheries Board as soon as practicable and in any case not later than 10:00am on the following working day after such an incident.
- 3.4 Should any further actions be taken after the date of written notification, 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.
- 3.5 Unless otherwise agreed by the Agency, all documentation submitted to the Agency shall:
- (a) be sent to the Agency's headquarters;
 - (b) comprise one original and three copies;
 - (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; and

- (g) in the case of results of any environmental monitoring, be accompanied by a written interpretation setting out their significance.
- 3.6 Copies of all environmental monitoring data obtained by the licensee which relates to the facility shall be forwarded to the Agency at the frequencies set out in Schedule D: Recording and Reporting to the Agency of this licence.
- 3.7 Unless otherwise agreed with the Agency, all documentation and records required to be made under this licence, shall be retained by the licensee.
- 3.8 The licensee shall provide additional copies of any documentation and records referred to in this licence to the Agency upon written request, within the time specified in writing by the Agency.
- 3.9 The licensee shall keep the following documents at the facility office referred to in Condition 4.5.
- 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;
 - d) all written procedures produced by the licensee which relate to the licensed activities.
 - e) copies of the environmental monitoring reports submitted to the Agency.
- 3.10 The licensee shall maintain a written record for each load of waste arriving at the facility. The licensee shall record the following:
- a) Date the waste arrived and the name of the carrier (including if appropriate the waste carrier registration details);
 - b) the vehicle registration number;
 - c) the name of the producer(s)/collector(s) of the waste as appropriate;
 - d) the name of the waste facility (if appropriate) from which the load originated including the waste licence or waste permit register number ;
 - e) a description of the waste including the associated EWC codes;
 - f) the quantity of the waste, recorded in tonnes (or an estimate prior to the installation of the weighbridge required by Condition 4.8);
 - g) the name of the person checking the load;
 - h) a written record of all waste inspections carried out in the waste inspection area; and,
 - i) 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.
- 3.11 The licensee shall maintain a written record of the type and quantity, recorded in tonnes, of all wastes disposed of at the facility.
- 3.12 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;
 - e) any incidents or spillages of leachate during its removal or transportation.
- 3.13 The licensee shall maintain a written record of all complaints relating to the operation of the activity. 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.
- 3.14 Provision shall be made for the transfer of environmental information specified by the Agency, in relation to the activities carried out on under this licence, to the Agency's computer system within a timescale specified in writing by the Agency.

Reason : *To provide for the notification of incidents, to update information on the activity and to provide for the keeping of records.*

CONDITION 4 SITE INFRASTRUCTURE

- 4.1 The licensee shall establish all infrastructure referred to in this licence or as instructed by the Agency.
- 4.2 Site Notice Board
- 4.2.1 Within six months of the date of the grant of this licence, the licensee shall provide and maintain a Site Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the identification board shall be 1200 mm by 750 mm.
- 4.2.2 The board shall clearly show:
- a) the name and telephone number of the facility;
 - b) the normal hours of opening;
 - c) the name, address and telephone number of the licence holder;
 - d) an emergency out of hours contact telephone number;
 - e) the name, address and telephone number of the operator of the facility;
 - f) the licence reference number;
 - g) where and when environmental monitoring information relating to the facility can be obtained.
- 4.3 Site Security
- 4.3.1 Security and stockproof fencing and gates shall be installed and maintained as described in Attachment D1a "Site Security Arrangements" unless other wise agreed with the Agency. The security fence and gates shall be at the locations shown on Drawing No. 4606.03/D1 "Site Infrastructure". The base of the fencing shall be set in the ground.

- 4.3.2 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 or as otherwise agreed with the Agency.
- 4.3.3 Gates shall be locked shut when the facility is unsupervised.
- 4.4 Site Roads and Hardstanding
- 4.4.1 Effective site roads and hardstanding areas shall be provided and maintained to ensure the safe movement of vehicles within the facility.
- 4.4.2 Signage to ensure effective traffic control shall be installed.
- 4.5 The licensee shall provide and maintain an office on the facility, at the location shown in Drawing No.4606.03/D1 "Site Infrastructure". The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
- 4.6 The licensee shall provide and maintain a working telephone and facsimile machine in the office specified in Condition 4.5 above.
- 4.7 Inspection
- 4.7.1 Within six months of the date of grant of this licence, a Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained. The location and design of the Waste Inspection and Quarantine areas shall be agreed with the Agency.
- 4.7.2 The licensee shall ensure that 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 suitably and clearly segregated from each other.
- 4.7.3 Drainage from these areas shall be directed to the lined leachate lagoon as shown in Drawing No. "4606.03/D1 "Site Infrastructure".
- 4.8 Within nine months of the date of grant of this licence, the licensee shall provide and maintain a weighbridge. The location of the weighbridge shall be agreed with the Agency.
- 4.9 Wheelwash
- 4.9.1 The licensee shall maintain a wheelwash/dry wheel shake out at the facility in accordance with the specification shown in Drawing No. 3.723/C1/9 "Wheelwash Details". Unless otherwise agreed with the Agency the location of the wheelwash shall be as shown on Drawing No. 4606.03/D1 "Site Infrastructure".
- 4.9.2 The wheelwash 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 cleaner and disposed of at the working face. The soiled wheelwash water shall drain only to the lined leachate lagoon or as otherwise agreed with the Agency.
- 4.10 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 4.11 Waste Water

4.11.1 The licensee shall provide and maintain a septic tank in accordance with SR6 at the facility for the treatment of sewage arising on-site. Unless otherwise agreed with the Agency the location of the septic tank shall be as shown on Drawing No. 4606.03/D1A "Septic Tank Location". The outlet pipe from the septic tank shall discharge to the lined leachate lagoon.

4.12 Storage Areas

4.12.1 No fuel shall be stored at the facility unless the prior agreement of the Agency has been obtained.

4.12.2 All fuel, tank and drum storage areas shall be rendered impervious to the materials stored therein. In addition, fuel, 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.

4.12.3 All drainage from bunded areas shall be diverted for collection and safe disposal.

4.12.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.

4.12.5 The integrity and water tightness of all the bunds, tanks and containers and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee and shall be reported to the Agency as part of the AER. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. The licensee shall also submit to the Agency for its agreement in each case a written report on the storage of fuels at the facility. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.

4.12.6 All tanks and containers including tankers used to transport leachate from the facility shall be labelled to clearly indicate their contents.

4.13 Specified Engineering Works

4.13.1 The licensee shall submit written proposals for all Specified Engineering Works, as defined in Schedule E: Specified Engineering Works, 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.

4.13.2 All specified engineering works shall be supervised by a competent person(s) agreed in advance by the Agency and that person, or persons, shall be present at all times during which relevant works are being undertaken.

4.13.3 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) where relevant a drawing and sections showing the location of all samples and tests carried out;

- e) where relevant daily records sheets/diary;
- f) name(s) of contractor(s)/individual(s) responsible for undertaking the 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; and
- i) any other information requested in writing by the Agency.

4.14 Landfill Lining:

- 4.14.1 All new cells shall be lined to the a standard which satisfies the requirements of the Landfill Directive ((1999/31/EC), and unless otherwise agreed with the Agency, the landfill liner for all cells shall be a composite liner consisting of a basal mineral layer of at least 1m in thickness with a permeability of less than or equal to 1×10^{-9} m/s overlain by a 2mm thick high density polyethylene (HDPE) layer. The side walls shall be designed and constructed to achieve an equivalent protection.

4.15 Leachate Management

- 4.15.1 Unless otherwise agreed with the Agency, the management of leachate arising from waste deposited in Phases 1, 2 and 3 shall be as described in Attachment D.4 "Leachate Management" of the application and as specified in the following four drawings :

- Drawing No. 3.723/C2/14 "Leachate Treatment Lagoon General Arrangement";
- Drawing No. 3.723/C2/15 "Location Plan, Site Layout and outline of Proposed Leachate Treatment Control Scheme";
- Drawing No. 3.723/C2/16 "Leachate Treatment Lagoon Pipelines and Chamber Details"; and,
- Drawing No. 3.723/C2/17 "Leachate Treatment Lagoon - General Details".

- 4.15.2 The leachate collection and management system for all new lined cells shall as a minimum meet the recommendations specified in the Landfill Directive (1999/31/EC). Leachate collection pipes in new lined cells shall be connected to an upriser, from which the leachate will be removed to the leachate collection chamber.

- 4.15.3 Leachate levels in all cells shall not exceed a level of 1.0m over the top of the liner.

- 4.15.4 All leachate management structures on-site shall be inspected and certified fit for purpose on an annual basis by an independent and appropriately qualified chartered engineer. Any remedial works recommended in this report must be implemented within a time-scale to be agreed with the Agency.

- 4.15.5 Unless otherwise agreed with the Agency leachate stored in the leachate lagoon and holding tank shall be disposed of by tankering off-site in fully enclosed road tankers (by the contractor named in the application) and discharging to Ardee Waste Water Treatment Plant.

- 4.15.6 Within three months of the date of grant of this licence the licensee shall submit to the Agency for its agreement Operational Procedures for Leachate Management which include (1) procedures for the handling of leachate during removal and subsequent transport/discharge to the Ardee Waste Water

Treatment Plant and (2) monitoring infrastructure details and procedures for monitoring the level of leachate in the pump sumps, the cells and the lagoon.

4.15.7 The frequency of discharge from the leachate lagoon or storage tank, or removal by tanker, shall be such that a minimum freeboard of 0.75m shall be maintained in the leachate lagoon and holding tank at all times.

4.15.8 Recirculation of leachate or other contaminated water shall not be undertaken without the prior agreement of the Agency and shall only be undertaken within cells which have been lined to the satisfaction of the Agency.

4.16 Landfill Gas Management:

4.16.1 Within twelve months of the date of grant of this licence, a system for the active collection and flaring of landfill gas shall be installed at the facility. The flare shall be of an enclosed type design and shall meet the emission limits in Schedule G. Details of the system to be installed shall be submitted to the Agency for its agreement within six months of the date of grant of this licence.

4.16.2 Flare unit efficiency shall be tested once it is installed and once every three years thereafter.

4.16.3 The licensee shall maintain all gas wells, pipework, valves, pumps, flares and other infrastructure that form part of the landfill gas management scheme in a safe and fully operational manner.

4.16.4 All buildings constructed on the facility shall have regard to the guidance given in the Department of Environments 1994 publication "Protection of New Buildings and Occupants from Landfill Gas" and any subsequent revisions.

4.16.5 Until the installation of the landfill gas flare and unless otherwise agreed with the Agency, passive landfill gas management at the facility shall continue to be carried out as described in Attachment D5 "Landfill Gas Management". Landfill Gas management and infrastructure shall meet the recommendations given in the Agency Manual on "Landfill Operational Practices".

4.16.6 On an annual basis as part of the AER the licensee shall submit an assessment of whether the utilisation of landfill gas as an energy resource is feasible. If feasible such a system shall be installed within a timeframe agreed with the Agency.

4.17 Capping and Cover

4.17.1 Unless otherwise agree with the Agency daily cover and intermediate capping shall consist of the following :

- subsoils and other excavation waste or construction industry wastes such as bricks and crushed broken concrete. The material should be free draining and preferably of low clay content. Daily cover should be 150mm in depth, while intermediate capping should be 300mm in depth.

4.17.2 Unless otherwise agreed with the Agency final capping shall consist of the following:

- top soil (150 -300mm);
- subsoils, such that total thickness of top soil and subsoils is at least 1m;
- drainage layer of 0.5m thickness having a minimum hydraulic conductivity of 1×10^{-4} m/s;

- compacted mineral layer of a minimum 0.6m thickness with a permeability of less than 1×10^{-9} m/s or a geosynthetic material (e.g. GCL) or similar that provides equivalent protection; and
- gas collection layer of natural material (minimum 0.3m) or a geosynthetic layer.

4.17.3 Filled cells and completed areas shall be permanently capped to the required specification within twelve months of filling or completion.

4.17.4 The licensee shall provide a six monthly report to the Agency on the quantity of capping materials stockpiled at the facility. In the event that the stockpile fails to contain the requisite volume of capping materials for the next twelve months, the report required by this condition shall contain a proposal for the Agency's agreement for alternative sources of capping materials or for the utilisation of geosynthetic materials.

4.18 Surface Water Management

4.18.1 The licensee shall ensure effective control of surface water run-off from the facility during construction, operation and restoration. Surface water accumulating in lined cells will cease to be directed to nearby streams/ drains as soon as waste deposition commences in the cell.

4.18.2 Within twelve months of the date of grant of this licence the licensee shall establish a management plan for the control of surface water run off from the facility during construction, operation, restoration and potential contingency events. The plan as a minimum shall include (1) a storm water retention pond for the collection and storage of surface water from the facility prior to discharge to the perimeter streams via silt traps or a reed bed system and (2) the installation of an outlet penstock for preventing surface water discharges in the event that monitoring should indicate contamination of the surface water.

4.19 Soil Storage

4.19.1 Soils shall be removed and stored in the manner as described in the Agency's Manual on "Landfill restoration and Aftercare". The storage of soils shall be in such a manner to maximise the preservation of the soil structure for future use within the facility.

4.20 Facility Boundary /Perimeter Planting

4.20.1 The existing hedgerow network which forms the boundary of the facility shall be retained by the licensee unless otherwise agreed with the Agency.

4.20.2 Within six months of the date of grant of this licence the licensee shall reinforce the existing hedgerow and improve the perimeter screening and landscaping by planting suitable indigenous trees, shrubs and plants.

4.20.3 A perimeter bund shall be constructed along the western boundary of the facility such that it screens the landfilling operations from the adjoining road and the nearby residence. This bund must be constructed within six months of the date of grant of this licence. The bund shall be landscaped with indigenous trees and plants.

4.20.4 Proposals for the bund and landscaping required under Condition 4.20.1 and Condition 4.20.1 shall be submitted to the Agency for agreement within three months of the date of grant of this licence.

- 4.20.5 The landscaping works required above shall have regard to the requirements of Condition 8 and the guidance given in the Agency's manual on "Landfill Restoration and Aftercare".

Reason: *To provide for the protection of the environment.*

CONDITION 5 WASTE MANAGEMENT

- 5.1. Waste Acceptance
- 5.1.1. No hazardous waste (excluding waste oil collected for recovery), liquid waste, health care waste, animal waste/offal shall be disposed of at the facility.
- 5.1.2. Treated sewage sludge shall not be disposed of at the facility after twenty four months from the date of grant of this licence
- 5.1.3. Waste consisting mainly of green waste, white goods, glass and recyclable metals shall not be disposed of at the facility after six months from the date of grant of this licence.
- 5.1.4. Construction and demolition waste shall not be disposed of at the facility but can be accepted for use as daily cover, site construction works and landfill restoration. The amount of construction and demolition waste accepted shall not exceed 1,250 tonnes per annum, unless otherwise agreed with the Agency.
- 5.1.5. Non-hazardous asbestos based construction materials shall only be accepted for disposal at the facility with the prior agreement of the Agency.
- 5.2. Subject to Condition 5.1, and any requirements of Condition 5.3, only those waste types and quantities listed in Schedule H : Waste Acceptance shall be disposed of at the facility unless the prior agreement of the Agency has been obtained. Only treated sewage sludges shall be accepted at the facility, unless otherwise agreed with the Agency.
- 5.3. Waste Acceptance Procedures
- 5.3.1. Unless otherwise agreed with the Agency, waste acceptance procedures shall be carried out in accordance with those described in Attachment E of the licence application.
- 5.3.2. Within six months of the date of grant of this licence, the licensee shall submit to the Agency for its agreement updated detailed written procedures for the acceptance and handling of all wastes.
- 5.3.3. Subject to Condition 5.1.5, all non-hazardous asbestos based construction and demolition materials must be double wrapped in heavy gauge plastic which is clearly labelled to indicate the presence of asbestos. Disposal of such waste shall be into prepared bays or trenches of at least 2 metres in depth. Deposited asbestos shall be covered immediately with suitable material. A written record, including an appropriate grid reference, shall be kept of all such deposits.
- 5.4. A minimum of 1 in 10 waste loads shall tip into the Waste Inspection Area for an inspection of the waste unless otherwise agreed in advance with the Agency. A record of all inspections shall be maintained. All wastes shall be checked at the working face to ensure that they comply with the requirements of the licence. Any wastes deemed to be in contravention of this licence and/or unsuitable for recovery or disposal at this

facility shall be removed for recovery or disposal at an appropriate alternative facility. Such waste shall be stored in the Waste Quarantine Area only.

- 5.5. The quantity of wastes to be accepted for disposal at the landfill, shall not exceed 20,000 tonnes per annum, unless otherwise agreed in advance with the Agency. The total quantity of sludge to be accepted at the facility shall not exceed 4,200 tonnes per annum, unless otherwise agreed with the Agency. The total quantity of waste to be accepted at the facility for disposal from January 1998 onwards shall not exceed 160,000 tonnes.
- 5.6. Within three months of the date of grant of this licence, the licensee shall submit to the Agency, figures for the amount of waste deposited at the facility since January 1998.
- 5.7. Wastes shall not be deposited in any cell or part of the landfill without the prior agreement of the Agency.
- 5.8. Scavenging shall not be permitted at the facility.
- 5.9. Waste shall only be accepted at the facility between the hours of 08.30 to 16.00 Monday to Friday inclusive and 09.00 to 13.00 on Saturdays with the exclusion of Bank Holidays unless otherwise agreed in advance with the Agency.
- 5.10. 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;
 - 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; and,
 - c) all waste deposited at the working face shall be compacted as soon as is practicable and at any rate prior to the end of the working day.
- 5.11. The working face of the operational cell shall, at the end of each day, be covered with material suitable to minimise any nuisances occurring.
- 5.12. 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. Within three months of the date of grant of this licence, cover material shall be placed across the whole landfill so that no waste other than cover material or material suitable for specified engineering works is exposed.
- 5.13. Sludge
 - 5.13.1. Subject to Condition 5.1 sewage sludge shall only be accepted at the facility between the hours of 8:30 a.m. and 2.00 p.m. Monday to Friday inclusive. All sewage sludge shall be covered immediately with other waste.
 - 5.13.2. Sludges shall only be permitted to be disposed of at the facility from producers who hold a disposal permit. Copies of such permits shall be available for inspection at the facility and shall be presented by the producer on delivery of the sludge consignment to the facility.
- 5.14. A steel wheeled compactor or other such vehicle as agreed with the Agency shall be used for compacting all waste other than that used for restoration or construction purposes.

- 5.15. In order to prevent the formation of voids, all large hollow objects and other large articles deposited at the facility shall be crushed, broken up, flattened or otherwise treated.
- 5.16. Wastes once deposited and covered shall not be excavated, disturbed or otherwise picked over without the prior agreement from the Agency.
- 5.17. No smoking shall be allowed on the facility (other than in site office as shown on Drawing No. 4606.03/D1).

Reason: *To provide for the acceptance and management of wastes authorised under this waste licence.*

CONDITION 6 ENVIRONMENTAL NUISANCES

- 6.1. The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by vermin, birds, flies, mud, dust and odours. Written records shall be made of all inspections and any actions taken as a result of these inspections.
- 6.2. 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.
- 6.3. Litter Control
 - 6.3.1. The measures and infrastructure as described in Attachment F.3 of the application shall as a minimum be applied to control litter at the facility.
 - 6.3.2. Notwithstanding Condition 6.3.1, litter netting shall be installed and maintained around the perimeter of the active tipping area. The netting installed shall meet the guidance given in Agency's Manual on "Landfill Operational Practices". The netting shall be kept tidy and litter trapped in the netting shall be removed as soon as practicable.
 - 6.3.3. All litter control infrastructure shall be inspected on a daily basis and the licensee shall remedy any defect in the litter netting 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 netting shall be undertaken within three working days or as otherwise agreed with the Agency.
 - 6.3.4. Within three months of the date of grant of this licence the licensee shall submit to the Agency for its agreement proposals for the operation of the facility in adverse wind conditions.
 - 6.3.5. All loose litter accumulated within the facility and its environs, excluding that which is deposited on the working face, shall be removed subject to the agreement of the landowners and appropriately disposed of on a daily basis.
- 6.4. Any waste placed on or in the vicinity of the facility, other than in accordance with the requirements of this licence, shall be removed by the licensee immediately and in any event by 10:00am of the next working day, after such waste is discovered. Such waste shall be disposed of at an appropriate facility.

- 6.5. Notices shall be erected around the boundary of the facility to deter flytipping and illegal dumping.
- 6.6. The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.
- 6.7. Dust Control
 - 6.7.1. 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.
- 6.8. The licensee shall ensure that vermin, birds, flies, mud, dust and odours do not give rise to nuisance at the facility or the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution or contravene any national statutory protection granted in respect of protected species.
- 6.9. Within six months from the date of grant of this licence the licensee shall submit to the Agency for its agreement, an assessment of the effectiveness of the bird control measures at the facility. This assessment shall include, where required:
 - a) proposals for additional bird control measures including the use of a falcon;
 - b) method for assessing the effectiveness of such additional measures; and
 - c) timescales for the implementation of such measures.
- 6.10. Prior to exiting the facility, all waste vehicles shall use the wheelwash.
- 6.11. The licensee shall as a minimum apply the nuisance control measures outlined in Attachment F of the application, unless otherwise agreed with the Agency. Where nuisance control measures are clearly not being effective the licensee shall review the measures used and submit revised details to the Agency. In addition a review of the measures used shall be carried annually and the outcome of this review shall be incorporated into the summary report submitted to the Agency as part of the Annual Environmental report.
- 6.12. Records must be kept at the facility of the programme for the control and eradication of vermin and fly infestations at the facility. These records should include as a minimum, contractor details, details on the rodenticide(s) and insecticide(s) used, operator training, details of any infestations, mode, frequency and location of application and measures to contain sprays within the facility boundary.

Reason: *To provide for the control of nuisance.*

CONDITION 7 EMISSIONS AND ENVIRONMENTAL IMPACTS

- 7.1. No specified emission from the facility shall exceed the emission limit values set out in Schedule G: Emission Limits of this licence. There shall be no other emissions of environmental significance.
- 7.2. 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.

7.3. 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.

7.4. Landfill Gas

7.4.1. The following are the trigger levels for landfill gas emissions from the facility measured in any service 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; and
- b) Carbon dioxide, greater than or equal to 1.5% v/v.

7.4.2. The landfill gas flare shall meet the emission limit values specified in *Schedule G: Emission Limits*.

7.4.3. 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.

7.4.4. Emission limits for emissions to atmosphere in this licence shall be interpreted in the following way:-

7.4.4.1. Continuous monitoring

- (i) No 24 hour mean value shall exceed the emission limit value.
- (ii) 97% of all 30 minute mean values taken continuously over an annual period shall not exceed 1.2 times the emission limit value.
- (iii) No 30 minute mean value shall exceed twice the emission limit value.

7.4.4.2. Non-Continuous Monitoring

- (i) 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.
- (ii) For all other parameters, no 30 minute mean value shall exceed the emission limit value.
- (iii) For flow, no hourly or daily mean value shall exceed the emission limit value.

7.5. Emissions to Surface Water

7.5.1. Surface water discharges from the facility shall not result in a deterioration in the quality of the receiving waters.

- 7.5.2. No substance shall be discharged in a manner, or at a concentration which, following initial dilution causes tainting of fish or shellfish.
- 7.6. There shall be no direct emissions to groundwater.
- 7.7. Disposal of Leachate
- 7.7.1. All leachate tankered from the facility shall be transported to Ardee Sewage Treatment Works and disposed of there unless otherwise agreed in advance with the Agency. Disposal procedures for the leachate at the treatment plant shall be in accordance with any written requirements of the Sanitary Authority.
- 7.7.2. Leachate or leachate contaminated surface water shall not be discharged to any river, stream or surface water in the area.
- 7.7.3. Leachate or leachate contaminated surface water shall not be allowed to accumulate in areas other than the leachate management system.

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

CONDITION 8 RESTORATION AND AFTERCARE

- 8.1. Unless otherwise agreed in advance or instructed by the Agency, Final Restoration and Aftercare Plans for the facility shall be in accordance with Attachment G of the application and have regard to the requirements of the Landfill Directive (1999/31/EC) and the guidance published in the Agency's Landfill Manual : "*Landfill Restoration and Aftercare*".
- 8.2. Unless otherwise agreed in advance or instructed by the Agency, the final profile of the facility shall not exceed the levels shown in Drawing No. C7/12 "Closure and Restoration Proposal".
- 8.3. Unless otherwise agreed in advance with the Agency or instructed by the Agency, landscaping as described in Drawing No. C7/12 "Closure and Restoration Proposal" shall be undertaken.
- 8.4. Within six months of the date of grant of this licence, the licensee shall submit proposals for landfilling and restoration to achieve the final contours and landscaping defined in Condition 8.2 and 8.3 to the Agency for its agreement. This proposal shall include a schedule detailing the various stages of restoration and landscaping, and a timeframe for carrying out such works.
- 8.5. 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.
- 8.6. 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. No asbestos waste shall be present within 2.5 metres of the final surface levels.
- 8.7. Where tree planting is proposed to be carried out above waste-filled areas, a synthetic barrier shall be used to augment the clay cap. Topsoil and subsoil depths shall be a minimum of 1m unless otherwise agreed in advance with the Agency.
- 8.8. The restoration of Phase 1 of the landfill facility shall be completed within two years of the date of grant of this licence, unless otherwise agreed with the Agency. The restoration of Phase 2, 3 and 4 shall be completed within two years of reaching the final

profile agreed under Condition 8.2, 8.3 and 8.4, unless otherwise agreed with the Agency.

Reason: *To provide for the restoration and aftercare of the facility.*

CONDITION 9 ENVIRONMENTAL MONITORING

- 9.1. The licensee shall carry out such monitoring and at such locations and frequencies as set out in Schedule F: Monitoring and as specified in the Conditions of this licence.
- 9.2. Within six months from the date of grant of this licence, the licensee shall install additional landfill gas monitoring piezometers at 50m intervals along the southern boundary of the facility.
- 9.3. Within three months from the date of grant of this licence, the licensee shall install a permanent gas monitoring system in the site office and any other enclosed structures at the facility.
- 9.4. Within three months from the date of grant of this licence, the licensee shall repair or replace groundwater monitoring boreholes BHC and BH5 (as shown on Drawing No. 4606.03/J1/RevB). Any new boreholes shall be installed in close proximity to the existing boreholes at a location to be agreed by the Agency.
- 9.5. Subject to the agreement of the well owners, all private wells within 500m of the facility shall be included in the monitoring programme set out in Schedule F. Copies of the results of all monitoring, along with an interpretation of the results and details of any necessary corrective actions, shall be forwarded to the well owners or users as soon as such results become available.
- 9.6. Within nine months from the date of grant of this licence, the licensee shall install a system for monitoring leachate levels within the filled waste. Details of the proposed system shall be submitted to the Agency for its agreement within six months of the date of grant of this licence.
- 9.7. Within nine months of the date of grant of this licence, the licensee shall install a system for the continuous monitoring of leachate levels in the leachate lagoon and leachate storage tank. A similar system shall be installed during the development of all new lined cells. Details of the system to be installed shall be submitted to the Agency for agreement within six months of the date of grant of this licence.
- 9.8. The licensee shall make arrangements for representative meteorological data to be collated for the facility to fulfil the requirements of Schedule F.6: Meteorological Monitoring.
- 9.9. The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and off-site points as required by the Agency. All ditches and drains located around the perimeter of the facility are to be kept clear in the vicinity of monitoring points such that monitoring can be carried out successfully.
- 9.10. The licensee shall maintain all sampling and monitoring points, and clearly label and name (including national grid number) all sampling and monitoring locations, so that they may be used for representative sampling and monitoring.
- 9.11. 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 or discharge or environmental parameter.

- 9.12. The licensee shall amend the frequency, locations, methods and scope of monitoring, sampling, analyses and investigations 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.
- 9.13. Unless otherwise agreed with the Agency, a written record shall be kept of the names, qualifications and a summary of relevant experience 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.
- 9.14. A topographical survey including the void space shall be carried out within six months of the date of grant of this licence. It shall be repeated annually thereafter. The survey shall be in accordance with any written instructions issued by the Agency.
- 9.15. Prior to any development of the undisturbed area, the advice of Dúchas the Heritage Service shall be sought. On completion of such development a report of the results of any archaeological monitoring shall be submitted to Dúchas and copied to the Agency.
- 9.16. Unless otherwise specified by this licence or agreed by the Agency, all environmental monitoring shall commence no later than two months after the date of grant of this licence.
- 9.17. Unless otherwise agreed in advance with the Agency, monitoring infrastructure which proves to be unsuitable for its purpose shall be replaced within three months of monitoring results indicating that the monitoring infrastructure is damaged or unsuitable.
- 9.18. An assessment of the ecology of adjoining habitats shall be undertaken every three years and submitted to the Agency. The scope, content and details of the contractor carrying out the assessment shall be submitted to the Agency for its agreement prior to the assessment.
- 9.19. Within six months of the date of grant of this licence, and annually thereafter, the licensee shall carry out a stability assessment of the side slopes of the facility and provide a report on that assessment to the Agency.
- 9.20. All landfill gas monitoring equipment used for monitoring landfill gas under the requirements of this licence shall be certified as being intrinsically safe.
- 9.21. Within three months of the date of grant of this licence, the licensee shall submit to the Agency for its agreement an updated appropriately scaled drawing(s) showing all the monitoring locations that are stipulated in this licence. This drawing shall be titled Drawing No. 4606.03/J1 Rev C "Environmental Monitoring Plan" and shall include the twelve figure National Grid References for the various monitoring points.
- 9.22. The licensee shall, within six months of the date of grant of this licence, develop and establish a Data Management System for collation, archiving, assessing and graphically presenting the environmental monitoring data generated as a result of this licence.

Reason: *To ensure compliance with the requirements of other conditions of this licence by provision of a satisfactory system of measurement and monitoring of emissions.*

CONDITION 10 CONTINGENCY ARRANGEMENTS

- 10.1. The licensee shall, within six months of the date of grant of this licence, submit a written Emergency Response Procedure (ERP) to the Agency for its agreement. The ERP shall address any emergency situations which may originate on the facility and shall include provision for minimising the effects of any emergency on the environment.
- 10.2. Unless otherwise agreed with the Agency, Contingency Arrangements for the facility shall be as detailed in Attachment K of the application.
- 10.3. 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.
- 10.4. 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.
- 10.5. No waste shall be burnt within the boundaries of the facility. A fire at the facility shall be treated as an emergency. Immediate action shall be taken to extinguish it and the appropriate authorities notified. Fire extinguishers shall be provided on-site at all times.
- 10.6. In the event that monitoring of local wells and livestock water supplies 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 incident. The licensee shall submit to the Agency for its agreement and within a time specified in writing by the Agency, written proposals for the provision of an alternative supply of water to those affected.
- 10.7. In the event that monitoring should indicate contamination of the water in the stormwater retention pond (as required by Condition 4.18), the outlet penstock shall be closed and the contaminated water shall be pumped to the leachate lagoon until such time as the source of the contamination has been identified and appropriate measures introduced to prevent further contamination of surface water.
- 10.8. Unless otherwise notified in writing by the Agency, in the event that any monitoring, sampling, complaints or observations indicate that an incident has, or may have, taken place, 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;
 - c) isolate the source of the 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;
 - f) provide a proposal to the Agency for its agreement within one month to:
 - i) identify and put in place measures to avoid reoccurrence of the incident; and
 - ii) identify and put in place any other appropriate remedial action.

- 10.9. 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 incident and a proposal for remediation action submitted to the Agency for its agreement within one month of the date of the monitoring being carried out.

Reason: *To provide for the protection of the environment.*

CONDITION 11 CHARGES AND FINANCIAL PROVISIONS

11.1 Agency Charges

11.1.1 The licensee shall pay to the Agency an annual contribution of £13,142 or such sum as the Agency from time to time determines, towards the cost of monitoring the activity or otherwise in performing any functions in relation to the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996. The licensee shall in 2001 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Public Sector Average Earnings Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 2000, the licensee shall pay a pro rata amount from the date of this licence to 31st December 2000. This amount shall be paid to the Agency within one month of the date of grant of this licence.

11.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased or decreased the licensee shall contribute such sums as determined by the Agency to defraying its costs.

11.2 Financial Provision for Closure, Restoration and Aftercare

11.2.1 The licensee shall from a date to be set by the Agency establish and maintain a fund, or 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 8.1. The type of fund and means of its release/recovery shall be agreed by the Agency prior to its establishment.

11.2.2 The fund shall be maintained in an amount always sufficient to underwrite the current Restoration and Aftercare Plan.

11.2.3 The licensee shall revise the cost of restoration and aftercare annually and any details of the necessary adjustments to the fund 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.

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

$$\text{Cost} = (\text{ECOST} \times \text{WPI}) + \text{CiCC}$$

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.

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

SCHEDULE A :Waste Activities

Activities authorised by the licence shall be restricted to those described below.

Waste Management Act, 1996: Third Schedule ^{Note 1}	
Class 1.	Deposit on, in or under land (including landfill): This activity is limited to the landfilling of non-hazardous waste.
Class 4.	Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons: This activity is limited to the deposition of sludge and the re-circulation of leachate in lined cells.
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 the development of specifically engineered cells for the deposition of non-hazardous waste.
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 10. of this Schedule: This activity is limited to leachate treatment at the facility.
Class 7.	Physico-chemical treatment not referred to elsewhere in this Schedule (including evaporation, drying and calcination) which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1. to 10. of this Schedule: This activity is limited to leachate treatment at the facility.

Note 1: Any reference to an activity Class is to be taken as being from the Third Schedule of the Waste Management Act, 1996, unless otherwise stated.

SCHEDULE B :Content of the Environmental Management Programme

Environmental Management Programme
Items specified to be contained in an Environmental Management Plan in the Landfill Operational Practices Manual published by the Agency, or otherwise as agreed with the Agency
Timescale for achieving the objectives and targets listed in the Schedule of Objectives and Targets
Designation of Responsibility for Achieving Targets and Objectives
Other items specified by the Agency

SCHEDULE C :Content of the Annual Environmental Report

Annual Environmental Report Content ^{Note 1}

Reporting Period.

Waste activities carried out at the facility.

Quantity and Composition of waste received and disposed of during the reporting period and each previous year.

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 interpretations of environmental monitoring, including plans and any updates of all monitoring locations including 12 digit grid references. This must include the following :

- summary of monitoring results for key leachate indicator parameters;
- comparison of monitoring results against baseline data and relevant standards;
- graphical presentation of the trends in the concentration of key leachate indicator parameters; and,
- an assessment and explanation of the significance of the results and trends detected.

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.

On-site leachate pre-treatment efficiency.

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.

Assessment of the feasibility of the utilisation of landfill gas as an energy resource.

Estimated annual and cumulative quantity of indirect emissions to groundwater.

Monthly water balance calculation and interpretation.

Report on Environmental Management Programme

Schedule of Environmental Objectives and Targets for the forthcoming year, including proposals for recovery/recycling of waste which have regard to the targets specified in the Government publication "Changing our Ways".

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

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.

Any other items specified by the Agency.

Note 1 : Content to be revised subject to the agreement of the Agency after cessation of waste acceptance at the facility.

SCHEDULE D :Recording and Reporting to the Agency

Table D.1 Recurring Reports

Report	Reporting Frequency ^{Note1}	Report Submission Date
Environmental Management System Updates	Annually	One month after the end of the year reported on.
Annual Environment Report (AER)	Annually	Thirteen months from the date of grant of licence and one month after the end of each year thereafter.
Record of incidents	As they occur	Within five days of the incident.
Bund, tank and container integrity assessment	Every three years	Six months from the date of grant of licence and one month after end of the three year period being reported on.
Specified Engineering Works reports	As they arise	Prior to the works commencing.
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.
Meteorological Monitoring	Annually	One month after end of the year being reported on.
Dust Monitoring	Three times a year	Ten days after the period being reported on.
Noise Monitoring	Annually	One month after end of the year being reported on.
Ecological Survey	Every three years	One month after end of the three year period being reported on.
Topographical Survey	Annually	Six months from the date of grant of licence and one month after the end of each year thereafter.
Slope Stability Monitoring	Annually	One month after end of the year being reported on.
Capping Material Quantity	Twice 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 E : Specified Engineering Works

Specified Engineering Works

Development of Phases and future Cells of the facility including preparatory works and lining.

Landfill cap installation, including temporary and intermediate capping, installation and all other containment works (including any containment works relating to leachate control).

Fencing and site security works.

Bunding of fuel and oil storage areas and container for the recovery of waste oil.

Installation of landfill gas management and monitoring systems.

Installation of leachate management, detection, storage, treatment, monitoring and control systems.

Installation of alternative drinking water supplies.

Installation of groundwater control and/or monitoring systems.

Surface water management works.

Restoration and Aftercare Works including landscaping.

Installation of weighbridge, waste inspection and quarantine area.

Nuisance control measures.

Any other works notified in writing by the Agency.

SCHEDULE F : Monitoring

Monitoring to be carried out as specified below.

F.1 Landfill Gas

Landfill gas monitoring locations shall be those as set out in Table F.1.1 and as shown on Drawings No. 4606.03/J1 Rev B and/or Rev C "Environmental Monitoring Plan".

Table F.1.1 Monitoring Locations

STATION
Perimeter Monitoring Locations PZ 1 - PZ 17
Monitoring points in waste PZ 18 - PZ 20
Additional Monitoring Locations as required under Condition 9.2 and 9.3

Table F.1.2 Landfill Gas Monitoring Frequency and Technique

Parameter	Monitoring Frequency		Analysis
	Gas Boreholes/ Vents/Wells	Site Office	Method ^{Note1} /Technique ^{Note2}
Methane (CH₄) % v/v	Monthly	Continuous	Infrared analyser/flame ionisation detector
Carbon dioxide (CO₂)%v/v	Monthly	Continuous	Infrared analyser
Oxygen(O₂) %v/v	Monthly	Continuous	Electrochemical cell
Atmospheric Pressure	Monthly	Continuous	Standard
Temperature	Monthly	Continuous	Standard

Note1: All monitoring equipment used should be intrinsically safe.

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

F.2 Landfill Gas Flare / Combustion Plant

Monitoring of the landfill gas flare or combustion plant required to be installed under Condition 4.16 shall be carried out at those locations set out in Table F.2.1. Monitoring points to be agreed with the Agency prior to the operation of the plant.

Table F.2.1 Landfill Gas Flare / Combustion Plant Monitoring

Parameter	Monitoring Frequency	Analysis Method ^{Note1} /Technique ^{Note2}
Inlet		
Methane (CH ₄) % v/v	Weekly	Infrared analyser/flame ionisation detector
Carbon dioxide (CO ₂)%v/v	Weekly	Infrared analyser
Oxygen (O ₂) %v/v	Weekly	Infrared analyser
Outlet		
Volumetric Flow rate	Biannually	Pitot Tube Method
SO ₂	Biannually	Flue gas analyser
Nox	Biannually	Flue gas analyser
CO	Continuous ^{Note 3}	Flue gas analyser
Particulates	Annually	Isokinetic/Gravimetric
TA Luft Class I, II, III organics	Annually	Adsorption/Desorption / GC /GCMS ^{Note 4}
Hydrochloric acid	Annually	Impinger / Ion Chromatography
Hydrogen fluoride	Annually	Impinger / Ion Chromatography

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

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

Note 3: Biannually for flares.

Note 4: Test methods should be capable of detecting acetonitrile, dichloromethane, tetrachlorethylene and vinyl chloride as a minimum.

F.3 Dust

Dust monitoring locations shall be those as set out in Table F.3.1 and as shown on Drawing No. 4606.03/J1 Rev B and/or Rev C "Environmental Monitoring Plan".

Table F.3.1 Dust Monitoring Locations

STATION
DG 1
DG 2

Table F.3.2 Dust Monitoring Frequency and Technique

Parameter (mg/m ² /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, or as otherwise specified in writing by the Agency.

F.4 Noise

Noise monitoring locations shall be those as set out in Table F.4.1 and as shown on Figure 2 of Attachment C.8 of the application.

Table F.4.1 Noise Monitoring Locations

STATION
1
2
3

Table F.4.2 Noise Monitoring Frequency and Technique

Parameter	Monitoring Frequency	Analysis Method/Technique
L(A) _{Eq} [30 minutes]	Annual	Standard ^{Note 1}
L(A) ₁₀ [30 minutes]	Annual	Standard ^{Note 1}
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."

F.5 Surface Water, Groundwater and Leachate

Surface water monitoring locations shall be those as set out in Table F.5.1 and as shown on Drawing No. 4606.03/J1 Rev B and/or C "Environmental Monitoring Plan". Monitoring parameters and frequencies outlined in Table F.5.4.

Table F.5.1 Surface Water Monitoring Locations

STATION
S 1
S 2
S 3 ^{Note 1}
S4 ^{Note 2}
S 5 ^{Note 2}

Note 1: Location of monitoring point to be confirmed with the Agency.

Note 2: Additional monitoring point to be included subject to Condition 4.18 (Discharge of diverted surface water). At minimum, diverted surface water shall be monitored monthly (unless flow in that month does not allow monitoring) for parameters denoted by Note 6 in Table F.5.4, at a monitoring location to be agreed with the Agency.

Groundwater monitoring locations shall be those as set out in Table F.5.2 and as shown on Drawing No. 4606.03/J1 Rev B and/or Rev C "Environmental Monitoring Plan. Monitoring parameters and frequencies outlined in Table F.5.4.

Table F.5.2 Groundwater Monitoring Locations

STATION
BH1
BH3
BH4
BH5 ^{Note 1}
BH6
BH7
BH8
BHC ^{Note 1}
Private wells under Condition 9.5 : BH2

Note 1 : Boreholes to be repaired / replaced under Condition 9.4.

Leachate monitoring locations shall be those as set out in Table F.5.3 and as shown on Drawing No. 4606.03/J1 Rev C "Environmental Monitoring Plan". Monitoring parameters and frequencies outlined in Table F.5.4.

Table F.5.3 Leachate Monitoring Locations

LEACHATE INSPECTION MANHOLES ^{Note 1}
Leachate level monitoring points as required under Conditions 4.15, 9.6 and 9.7.
Leachate Lagoon and the four Phases (analysis for the parameters listed in Table F.5.4)

Note 1 : Leachate monitoring locations and grid references to be agreed with the Agency within three months of the date of this licence and to be submitted to the Agency along with the drawing required under with Condition 9.21.

Table F.5.4 Water and Leachate - Parameters /Frequency

Parameter ^{Note 1}	SURFACE WATER	GROUNDWATER	LEACHATE
	Monitoring Frequency	Monitoring Frequency	Monitoring Frequency ^{Note 8}
Visual Inspection/Odour ^{Note 2}	Weekly	Quarterly	Quarterly
Groundwater Level	Not Applicable	Monthly	Not Applicable
Leachate Level	Not Applicable	Not Applicable	Weekly / Continuous
Ammoniacal Nitrogen	Quarterly ^{Note 6}	Monthly	Quarterly
BOD	Quarterly ^{Note 6}	Not Applicable	Quarterly
COD	Quarterly	Not Applicable	Quarterly
Chloride	Quarterly	Quarterly	Quarterly
Dissolved Oxygen	Quarterly	Quarterly	Not Applicable
Electrical Conductivity	Quarterly ^{Note 6}	Monthly	Quarterly
PH	Quarterly ^{Note 6}	Monthly	Quarterly
Total Suspended Solids	Quarterly ^{Note 6}	Not Applicable	Not Applicable
Temperature	Quarterly	Monthly	Quarterly
Boron	Not Applicable	Annually	Annually
Cadmium	Annually	Annually	Annually
Calcium	Annually	Annually	Annually
Chromium (Total)	Annually	Annually	Annually
Copper	Annually	Annually	Annually
Cyanide (Total)	Not Applicable	Annually	Annually
Fluoride	Not Applicable	Annually	Annually
Iron	Annually	Annually	Quarterly
Lead	Annually	Annually	Annually
List I/II organic substances ^{Note 3}	Note 7	Note 7	Note 7
Magnesium	Annually	Annually	Annually
Manganese	Annually	Annually	Annually
Mercury	Annually	Annually	Annually
Potassium	Annually	Quarterly	Quarterly
Sulphate	Annually	Annually	Annually
Sodium	Annually	Quarterly	Quarterly
Total Alkalinity	Annually	Annually	Annually ^{Note 5}
Total Phosphorus / orthophosphate	Annually ^{Note 6}	Annually	Annually
Total Oxidised Nitrogen	Annually	Quarterly	Quarterly
Total Organic Carbon	Not Applicable	Quarterly	Not Applicable
Residue on evaporation	Not Applicable	Annually	Not Applicable
Zinc	Annually	Annually	Annually
Phenols	Not Applicable	Quarterly	Annually
Faecal Coliforms ^{Note 4}	Annually	Annually	Annually
Total Coliforms ^{Note 4}	Annually	Annually	Annually

Note 1: All the analysis shall be carried out by a competent laboratory using standard and internationally accepted procedures. The testing laboratory and the testing procedures shall be agreed with the Agency in advance.

- 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). In cases where large quantities of harbour dredgings have been accepted at the facility it is recommended to analyse for organotin compounds. Where there is reason to suspect organophosphorous contamination it is recommended to also scan for these compounds. Any pesticides used at the facility should be included in the analysis.
- Note 4: If there is evidence of bacterial contamination, the analysis at up gradient and downgradient monitoring points should include enumeration of total bacteria at 22°C and 37°C and faecal streptococci. Private well BH2 to be monitored quarterly,
- Note 5: Only to be analysed in instances of on-site treatment of leachate.
- Note 6: Discharge of surface water, at a monitoring location to be agreed in accordance with Condition 4.18 shall be monitored on a monthly basis for these parameters unless flow in that month does not allow such monitoring.
- Note 7: Surface Water: Once off for List I/II organic substances from representative upstream and downstream locations and thereafter as required by the Agency. Groundwater: Annually from representative upgradient borehole and two representative downgradient boreholes. Leachate: Annually from the leachate lagoon.
- Note 8: Quarterly analysis required from the lagoon and six-monthly from each of the 4 Phases.

F.6 Meteorological Monitoring

Table F.6.1 Meteorological Monitoring:

Data to be obtained from Ardee (Bohernamore) Weather Station unless otherwise agreed with the Agency.

Parameter	Monitoring Frequency	Analysis Method/Technique
Precipitation Volume	Daily	Standard
Temperature (min/max.)	Daily	Standard
Wind Force and Direction	Daily	Standard
Evaporation	Daily	Standard
Evapotranspiration	Daily	Standard
Humidity	Daily	Standard
Atmospheric Pressure	Daily	Standard

SCHEDULE G :Emission Limits

G.1 Noise Emissions: (Measured at the monitoring points indicated in Table F.4.1).

Day dB(A) $L_{Aeq}(30 \text{ minutes})$	Night dB(A) $L_{Aeq}(30 \text{ minutes})$
55	45

G.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

G.3 Dust Deposition Limits: (Measured at the monitoring points indicated in Table F.3.1).

Emission Limit Value (mg/m ² /day) ^{Note 1}
350

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

G.4 Surface Water Discharge Limits: Measured at the monitoring points required under Condition 4.18.

Emission Limit Value for Suspended Solids – daily mean concentration (mg/l)
35

G.5 Emission Limits Values for Landfill Gas Flare and/or Utilisation Plant

Emission Point reference nos: (to be agreed with the Agency)

Location: Landfill Flarestacks and/or Gas Combustion Plant.

Volume to be emitted:3000m³/hr

Minimum discharge height:5m

Parameter	Emission Limit Value ^{Note 1}
Nitrogen oxides as (NO ₂)	500 mg/m ³ for Combustion Plants 150mg/m ³ for Flare Stacks
CO	650 mg/m ³ for Combustion Plants 50mg/m ³ for Flare Stacks
Particulates	130 mg/m ³
TA Luft Organics Class I ^{Note 2}	20 mg/m ³ (at mass flows > 0.1 kg/hr)
TA Luft Organics Class II ^{Note 2}	100 mg/m ³ (at mass flows > 2 kg/hr)
TA Luft Organics Class III ^{Note 2}	150 mg/m ³ (at mass flows > 3kg/hr)
Hydrogen Chloride	50 mg/m ³ (at mass flows > 0.3 kg/h)
Hydrogen Fluoride	5 mg/m ³ (at mass flows > 0.05 kg/h)

Note 1: Dry gas referenced to 5% oxygen by volume.

Note 2: In addition to the above individual limits, the sum of the concentrations of Class I, II and III shall not exceed the Class III limits.

SCHEDULE H : Waste Acceptance

Table H.1 Waste Categories and Quantities

WASTE TYPE	MAXIMUM TONNES PER ANNUM ^{Note 1}
Household	4600
Commercial	8000
Treated Sewage Sludge ^{Note 2}	4200
Industrial Non- Hazardous	3200
TOTAL	20,000

Note 1 : The maximum annual tonnage of individual waste types (other than sewage sludge) listed in Table H.1 for disposal at the landfill may be altered subject to the agreement of the Agency provided that the total maximum tonnage deposited does not exceed 20,000 tonnes per annum.

Note 2 : The disposal of sewage sludge at the facility must cease after twenty four months from the date of grant of the licence.

Given by the Agency on the 15th day of May, 2000.

Signed on behalf of the said Agency

on the 15th day of May, 2000

Breda Sheehan

Authorised Person