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Johnstown Castle Estate,
County Wexford, Ireland

WASTE LICENCE
PROPOSED DECISION

Waste Licence	65-1
Register Number:	
Applicant:	Leitrim County Council
Location of Facility:	Mohill Landfill, Tullybardan, Mohill, Co. Leitrim

INTRODUCTION

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

This licence is for the orderly closure and restoration of a non-hazardous landfill at Tullybardan, Mohill, County Leitrim.

Leitrim County Council are only permitted to accept inert waste for capping/restoration purposes. Activities on site will consist of the recovery of inert waste for the purposes of restoration and aftercare. The hardstanding area at the south-western corner of the facility which currently serves as a Road Works Depot for Leitrim County Council shall be fenced off from the remainder of the facility. The licence provides, subject to a proposal being agreed by the Agency, for the use of this area as a Civic Waste Facility for the recovery and disposal of waste but not as a Waste Transfer Station. The restoration of the landfill part of the facility shall include upgrading of fencing, regrading of the deposited waste to achieve a more natural and stable landform, the provision of a final capping layer, a leachate extraction/collection system, a landfill gas venting system and landscaping.

Leitrim County Council must manage and operate the facility to ensure that the activities do not cause environmental pollution. The County Council 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.

The licence sets out in detail the conditions under which Leitrim County Council is allowed to operate and manage this facility.

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DECISION & REASONS FOR THE DECISION

The Agency is satisfied, on the basis of the information available, that the waste activity, or activities, licensed hereunder will comply with 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 Leitrim County Council to carry on the waste activities listed below at Mohill Landfill, Tullybardan, Mohill, Co. Leitrim subject to twelve 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): This activity is limited to the disposal of inert wastes only for capping/restoration purposes.
Class 4.	Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons: This activity is limited to the storage of collected leachate in a suitable container or lagoon pending dispatch to a suitable Waste Water Treatment Works.
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 temporary storage of inert capping wastes or unacceptable wastes received at the facility pending their dispatch to appropriate facilities.

Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Act 1996

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 the possible future use of the Road Works Depot as a Civic Waste Facility.
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INTERPRETATION

All terms in this licence should be interpreted in accordance with the definitions in the Waste Management Act, (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.
Application	The application by the licensee for this waste licence.
Appropriate facility	A waste management facility, duly authorised under relevant law and technically suitable.
Biodegradable waste	Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food, garden waste, sewage sludge, paper and paperboard.
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 with the Agency.
Daytime	8.00 a.m. to 10.00 p.m.
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 Limits	Those limits, including concentration limits and deposition levels established in <i>Schedule D: Monitoring</i> 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.
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.
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	Leitrim 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. 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.
Night-time	10.00 p.m. to 8.00 a.m.
Noise Sensitive Location	Any dwelling house, hotel or hostel, health building, educational establishment, places of worship, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
Road Works Depot/Civic Waste Facility	The northern boundary of this area shall be at least 33 metres north of the electricity pylon which is located in the south-western corner of the facility. The eastern boundary shall be at least 44 metres east of the same pylon. The southern and western boundaries shall be the existing facility boundary.
Recyclable Materials	Those waste types, such as cardboard, batteries, gas cylinders, etc. which may be recycled
Quarterly	At approximately three monthly intervals.

Sample(s)	Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments.
Specified Emissions	Those emissions listed in <i>Schedule C: Emission Limits</i> of this licence.
Specified Engineering Works	Those engineering works listed in <i>Schedule B: Specified Engineering Works</i> of this licence.
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: 9.00 a.m. to 5.30 p.m. Monday to Friday inclusive.

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. B2.1 Site Plan of the application. 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 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.
- 1.4. Only inert waste for the purposes of cover, capping and restoration of the landfill may be accepted at the facility subject to the maximum quantities and other constraints listed in *Schedule A: Waste Acceptance* of this licence.
- 1.5. Waste Acceptance Hours and Hours of Operation
 - 1.5.1. Landfill
 - 1.5.1.1. Waste shall only be accepted at the facility for disposal at the landfill between the hours of 8.30a.m. to 4.30p.m. Monday to Friday inclusive and 8.30a.m. to 12.30p.m. on Saturdays.
 - 1.5.1.2. The landfill at the facility shall only be operated during the hours of 8a.m. to 5p.m. Monday to Friday inclusive and 8a.m. to 1p.m. on Saturdays.
 - 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 only be accepted at the Civic Waste Facility between the hours of 8.30a.m. to 4.30p.m. Monday to Friday inclusive and 8.30a.m. to 12.30p.m. on Saturdays.
- 1.6. 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 trigger level specified in this licence which is attained or exceeded; and
- d) any indication that environmental pollution has, or may have, taken place.

1.7. Where the Agency considers that a non-compliance with any condition of this licence has occurred, it may serve a notice on the licensee specifying:

- 1.7.1. 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;
- 1.7.2. 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
- 1.7.3. 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 permission is received from the Agency.

1.8. 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.

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 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 Within three months from the date of grant of this licence, the licensee shall submit written details of the management structure of the facility to the Agency. Any proposed changes 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 Corrective Action Procedures

- 2.3.1 Within six months of the date of grant of this licence, the licensee shall establish Corrective Action Procedures which shall detail the corrective actions to be taken should the requirements of this licence not be fulfilled.

2.4 Awareness and Training Programme

- 2.4.1 Within six months of the date of grant of this licence, the licensee shall establish and maintain Awareness and Training Procedures for identifying training needs and for providing appropriate training, for personnel who work in or have responsibility for the licensed facility.

2.5 Communications Programme

- 2.5.1 The licensee shall establish and maintain a Communications Programme to ensure that members of the public can obtain information, at all reasonable times, concerning the environmental performance of the facility. This shall be established within six months of the date of grant of this licence.

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.

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 Specified Engineering Works

- 3.2.1 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.
- 3.2.2 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.
- 3.2.3 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.

3.3 Facility Notice Board

3.3.1 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.

3.3.2 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.

3.4 Facility Security

3.4.1 Security and stockproof fencing and gates shall be installed and maintained as described on Drawing No. II.0 titled *General Site Layout* with the addition of timber post/wire mesh fencing between points I and A as shown on this drawing within twelve months of the date of grant of this licence. The base of the security fencing shall be set in the ground.

3.4.2 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.

3.5 Facility Roads and Hardstanding

3.5.1 Effective site roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.

3.6 Waste Water

3.6.1 Any sewage which is produced within the curtilage of the facility shall be removed from the facility for treatment at a suitable waste water treatment plant.

3.7 Tank and Drum Storage Areas

3.7.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein.

- 3.7.2 All tank and drum storage areas shall, as a minimum, be banded, 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 banded area; or
 - (b) 25% of the total volume of substance which could be stored within the banded area.
- 3.7.3 All drainage from banded areas shall be diverted for collection and safe disposal.
- 3.7.4 All inlets, outlets, vent pipes, valves and gauges must be within the banded area.
- 3.7.5 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

3.8 Leachate Management Infrastructure

- 3.8.1 Within twenty four months of the date of grant of this licence, the licensee shall install leachate management infrastructure at the facility. The infrastructure shall provide for the active abstraction of leachate from the waste, its temporary storage at the facility and its removal for treatment at a suitable treatment works. The existing leachate lagoon (as described in the further information submitted to the Agency on 12th March 2001) shall be replaced by an impermeable leachate storage structure within twenty four months.

3.9 Landfill Gas Management

- 3.9.1 Within twenty four months of the date of grant of this licence and in conjunction with the capping programme, the licensee shall provide and maintain a landfill gas collection system which shall provide for the passive venting of landfill gas to the atmosphere. The licensee shall install a minimum of three passive landfill gas vents.
- 3.9.2 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.

3.10 Surface Water Management

- 3.10.1 Within six months of the date of grant of this licence, the licensee shall submit a proposal to the Agency concerning the diversion of the surface watercourse that currently is piped beneath the waste footprint as shown in drawing number C9.0.
- 3.10.2 The licensee shall prevent animal access from adjoining pasture fields to perimeter drains on the north-eastern and northern boundaries of the facility following consultation with the relevant property owner(s).
- 3.10.3 Effective surface water management infrastructure shall be provided and maintained at the facility during construction, operation, restoration and aftercare of the facility. As a minimum, the infrastructure shall be capable of the following:
- a) the prevention of contaminated water and leachate discharges into surface water drains and courses; and
 - b) the collection/diversion of run off arising from capped and restored areas.

3.11 Civic Waste Facility

- 3.11.1 A Civic Waste Facility may be provided at the existing Road Works Depot at the facility subject to the prior agreement of the Agency.

3.12 Monitoring Infrastructure

3.12.1 Landfill Gas

- (i) Within three months from the date of grant of this licence, the licensee shall install two additional monitoring points at the western boundary of the facility towards the southern end.

3.12.2 Replacement of Infrastructure

- (i) 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.

- 3.13 Within three months of the date of grant of licence, the licensee shall provide and maintain a fixed bench mark referenced in situ to Ordinance Datum Malin Head at the facility.

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

CONDITION 4 RESTORATION AND AFTERCARE

- 4.1. The restoration of the landfill facility shall be completed within thirty months of the date of grant of this licence.
- 4.2. The final profile of the landfill shall be domed and shall not exceed 60 mAOD Malin Head. The side slopes should have a maximum gradient of 1:3 (vertical:horizontal) and with the remaining slopes being at least 1:25 (a plateau finish is not acceptable).
- 4.3. The licensee shall within six months of the date of grant of this licence submit to the Agency for its agreement a Restoration and Aftercare Plan which, inter alia, provides for the following:
 - a) A hardstanding area located in the south-western corner of the facility to facilitate the Road Works Depot or a Civic Waste Facility (in accordance with Condition 3) unless otherwise agreed by the Agency;
 - b) A security fence around the Road Works Depot;
 - c) Access roads;
 - d) A landscaping proposal designed to blend the facility with the natural landscape of the area and which provides adequate aftercare for plantings;
 - e) A revised restoration plan of the facility based on the requirements of this licence;
 - f) A timescaled phasing plan for the adjustment of the landfill side slopes and overall waste profiling, the placement of the final capping/restoration layer, the installation of the leachate extraction boreholes and associated leachate storage structure, the abandonment of the existing leachate lagoon, surface water management, the installation of the landfill gas control system and landscaping.
- 4.4. Final Capping
 - 4.4.1. 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 1×10^{-4} m/s;

- d) 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;
 - e) gas collection layer of natural material (minimum 0.3m) or a geosynthetic layer; and,
 - f) where tree planting is to be carried out above waste-filled areas, a synthetic barrier shall be used to augment the clay cap.
- 4.5. 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.
- 4.6. Soil Storage
- 4.6.1. All soils shall be stored to preserve the soil structure for future use.

REASON: To provide for the restoration of the facility.

CONDITION 5 FACILITY OPERATIONS

- 5.1 Waste shall be deposited in the landfill such that the restoration elevation specified in Condition 4 is not exceeded. No waste shall be landfilled within the south-western corner of the facility which may be used as a Road Works Depot or as otherwise agreed with the Agency.
- 5.2 Waste Acceptance and Characterisation Procedures
- 5.2.1 The licensee shall provide detailed written procedures for the acceptance and handling of all wastes accepted as part of the restoration and aftercare plan.
- 5.2.2 All wastes shall be checked and any wastes not suitable for acceptance shall be removed for recovery or disposal at an appropriate alternative facility.
- 5.3 Intermediate Cover
- 5.3.1 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.
- 5.3.2 Within three months of the date of grant of this licence, appropriate cover material shall be placed across the whole landfill so that no waste other than waste suitable for specified engineering works is exposed.
- 5.4 Operational Controls
- 5.4.1 Wastes once deposited and covered shall not be excavated, disturbed or otherwise picked over unless with the prior agreement from the Agency.
- 5.4.2 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.
- 5.4.3 Scavenging shall not be permitted at the facility.
- 5.4.4 Gates shall be locked shut when the facility is unsupervised.
- 5.4.5 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.

- 5.4.6 All tanks and drums shall be labelled to clearly indicate their contents.
- 5.4.7 No smoking shall be allowed on the facility other than at an area to be agreed with the Agency.

- 5.5 Off-Site Disposal and Recovery
 - 5.5.1 Waste sent from the facility for recovery or disposal shall only be conveyed by a waste contractor agreed by the Agency.
 - 5.5.2 All waste transferred from the facility shall only be transferred to an appropriate facility agreed by the Agency.
 - 5.5.3 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.

- 5.6 Civic Waste Facility
 - 5.6.1 A Civic Waste Facility, if installed in accordance with Condition 3, shall only be used 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.
 - 5.6.2 All waste deposited in the Civic Waste Facility shall be either:
 - a) into a skip;
 - b) into the hopper of a compactor for disposal;
 - c) into a receptacle for recovery; or
 - d) in the case where inspection is required, into a designated inspection area.
 - 5.6.3 The licensee shall assign and clearly label each container at the Civic Waste Facility to indicate their contents.
 - 5.6.4 At the end of the working day the floor of the Civic Waste Facility, the hopper and the compactor shall be cleared of waste.

- 5.7 Leachate Management
 - 5.7.1 Once the leachate extraction system required by Condition 3 has been installed, leachate levels in the waste shall not exceed a level of 1.5m over the base of the waste.
 - 5.7.2 The level of leachate in the pump sumps shall be monitored monthly unless otherwise agreed by the Agency.
 - 5.7.3 The frequency of leachate removal/discharge from the leachate lagoon shall be such that a minimum freeboard of 0.75m shall be maintained in the leachate lagoon at all times.
 - 5.7.4 Leachate stored in the leachate storage lagoon shall be disposed of by tankering off-site in fully enclosed road tankers.
 - 5.7.5 There shall be no recirculation of leachate.

5.8 Maintenance

- 5.8.1 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.
- 5.8.2 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.
- 5.8.3 The licensee shall maintain and clearly label and name all sampling and monitoring locations.

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; and
 - b) Carbon dioxide, greater than or equal to 1.5% v/v.
- 6.4. Emissions to Surface Water
 - 6.4.1. No substance shall be discharged in a manner or at a concentration which, following initial dilution, causes tainting of fish or shellfish.
- 6.5. Disposal of Leachate
 - 6.5.1. All leachate or contaminated water tankered from the facility shall be transported to Mohill Waste Water Treatment Plant (or an alternative Treatment Plant agreed 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 10.00a.m. 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.
- 7.5 Bird Control
- 7.5.1 Birds shall be prevented from gathering on and feeding at the facility.

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. Landfill Gas
- 8.5.1. All landfill gas monitoring equipment, other than permanent monitoring systems within buildings, shall be certified as being intrinsically safe.
- 8.6. Groundwater Monitoring
- 8.6.1. Subject to the agreement of the well owners, all private wells within 350m of the facility shall be included in the monitoring programme set out in *Schedule D: Monitoring* of this licence.
- 8.7. Surface Water Monitoring

- 8.7.1. Within three months of the date of grant of this licence, the licensee shall submit to the Agency a report which assesses the suitability of SW-4 as the upstream, background surface water quality monitoring station.
- 8.8. Topographical Survey
- 8.8.1. A topographical survey shall be carried out within one month of the date of grant of this licence. It shall be repeated one month after the completion of the final capping layer. The survey shall be in accordance with any written instructions issued by the Agency.
- 8.9. Stability Assessment
- 8.9.1. 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.
- 8.10. Nuisance Monitoring
- 8.10.1. 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.

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;
 - 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; and
 - ii) identify and put in place any other appropriate remedial action.
- 9.2. 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. This shall include a risk assessment to determine the requirements at the facility for fire fighting and fire water retention facilities. The Fire Authority shall be consulted by the licensee during this assessment.

- 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.

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

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 previous year's AER for the facility;
 - c) all written procedures produced by the licensee which relate to the licensed activities.
- 10.2 Written Records
- The following written records shall be maintained by the licensee:
- a) the types and quantities (recorded in tonnes) 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.
- 10.3 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.
- 10.4 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.
- 10.5 A written record shall be kept for each load of waste departing from the Civic Waste Facility (if installed in accordance with Condition 3). 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);
 - d) 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.

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 Agency's headquarters;
 - (b) comprise one original and four 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;
 - (h) be certified as accurate and representative by the licensee; and,
 - (i) 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 10.00a.m. 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; and
 - c) in the event of any incident which relates to discharges to surface water, notify the Shannon Regional Fisheries Board as soon as practicable and in any case not later than 10:00a.m. on the following working day after such an incident.
 - 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 Monitoring Locations

- 11.3.1. Within six months of the date of grant of this licence, the licensee shall submit to the Agency an appropriately scaled drawing(s) showing all the monitoring locations that are stipulated in this licence. The drawing(s) shall include the reference code of each monitoring point.

11.4 Annual Environmental Report

- 11.4.1. 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).
- 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.

REASON: To provide for proper reports to and notifications of 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 £5,458 (€6,930) 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 2002 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 2001, the licensee shall pay a pro rata amount from the date of this licence to 31st December. This amount shall be paid to the Agency within one month of the date of grant of this licence.
- 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 or decreased the licensee shall contribute such sums as determined by the Agency to defraying its costs.

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:

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

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 Acceptance

A.1 Waste Acceptance

Table A.1 Waste Categories and Quantities

WASTE TYPE	MAXIMUM
Inert waste	70,000

SCHEDULE B: Specified Engineering Works

Specified Engineering Works
Final capping.
Civic Waste Facility.
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 noise sensitive receptor monitoring points indicated in *Table D.1.1*).

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

Level (mg/m ² /day) ^{Note 1}
350

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

SCHEDULE D: Monitoring

Monitoring to be carried out as specified below.

D.1 Monitoring Locations

Monitoring locations shall be those as set out in Table D.1.1 and Drawing A1.2 *Environmental Monitoring (revision 1)* of the application.

Table D.1.1 Monitoring Locations

LANDFILL GAS	DUST	NOISE	SURFACE WATER	GROUND WATER	LEACHATE
STATIONS	STATIONS	STATIONS	STATIONS	STATIONS	STATIONS
GP1	Western Boundary	N5	SW4 ^{Note 2}	MW-05 (S)	L4 ^{Note 5}
GP5	Northern Boundary	N6 ^{Note 1}	SW6	MW-05 (D)	L5 ^{Note 5}
GP9	Southern Boundary	N7 ^{Note 1}		MW-06 (S)	L6 ^{Note 5}
GP10	Eastern Boundary			MW-06 (D)	Leachate Storage Structure ^{Note 5}
GP11				MW-08 (S)	
GP13				MW-08 (D)	
GP14				MW-03	
GP15				Private well(s) ^{Note 4}	
^{Note 3}					

Note 1: The nearest two residences located west and south of the facility shall be monitored as Noise Sensitive Receptors in addition to N5.

Note 2: The suitability of this location shall be reviewed as required by Condition 8.

Note 3: Two additional points as required by Condition 3.

Note 4: Any private potable wells required by Condition 8.

Note 5: These leachate monitoring boreholes in the landfill shall be monitored as per Table D.1.1 until the leachate storage structure required by Condition 3 has been installed and can provide a representative leachate sample for analysis. Thereafter L4, L5 and L6 shall only be monitored for leachate level unless instructed otherwise by the Agency.

D.2 Landfill Gas

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

Parameter	Monitoring Frequency		Analysis Method ^{Note1} /Technique ^{Note2}
	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 with the Agency.

D.3 Dust

Table D.3.1 Dust Monitoring Frequency and Technique

Parameter (mg/m ² /day)	Monitoring Frequency	Analysis Method/Technique
Dust	Once per 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: To be completed 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 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."

D.5 Surface Water, Groundwater and Leachate

Table D.5.1 Water and Leachate - Parameters / Frequency

Parameter ^{Note 1}	SURFACE WATER Monitoring Frequency	GROUNDWATER Monitoring Frequency	LEACHATE Monitoring Frequency
Visual Inspection/Odour ^{Note 2}	Weekly	Quarterly	Quarterly
Groundwater Level	Not Applicable	Quarterly	Not Applicable
Leachate Level	Not Applicable	Not Applicable	Monthly
Ammoniacal Nitrogen	Quarterly ^{Note 5}	Quarterly	Quarterly
BOD (ATU)	Quarterly ^{Note 5}	Not Applicable	Quarterly
COD	Quarterly	Not Applicable	Quarterly
Chloride	Quarterly	Quarterly	Quarterly
Dissolved Oxygen	Quarterly	Not Applicable	Not Applicable
Electrical Conductivity	Quarterly ^{Note 5}	Quarterly	Quarterly
PH	Quarterly ^{Note 5}	Quarterly	Quarterly
Total Suspended Solids	Quarterly ^{Note 5}	Not Applicable	Not Applicable
Temperature	Quarterly ^{Note 5}	Monthly	Quarterly
Boron	Annually	Quarterly	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	Quarterly	Annually
Lead	Annually	Annually	Annually
List I/II organic substances ^{Note 3}	Note 6	Annually	Note 6
Magnesium	Annually	Annually	Annually
Manganese	Annually	Quarterly	Annually
Mercury	Annually	Annually	Annually
Potassium	Annually	Quarterly	Annually
Sulphate	Annually	Annually	Annually
Sodium	Annually	Quarterly	Annually
Total Alkalinity	Annually	Annually	Not Applicable
Total Phosphorus / orthophosphate	Annually ^{Note 5}	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	Not Applicable
Faecal Coliforms	Not Applicable	Quarterly ^{Note 4}	Annually
Total Coliforms	Not Applicable	Quarterly ^{Note 4}	Annually

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 by 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). Where there is reason to suspect organophosphorous contamination it is recommended to also scan for these compounds.

Note 4: In the case where groundwater is extracted for drinking water.

Note 5: These parameters shall apply to surface water discharges which have received the prior agreement of the Agency.

Note 6: Once off for List I/II organic substances unless otherwise instructed by the Agency.

SCHEDULE E: Recording and Reporting to the Agency

Report	Reporting Frequency ^{Note1}	Report Submission Date
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.
Dust Monitoring	Annually	Ten days after the period being reported on
Noise Monitoring	Annually	One month after end of the year being reported on.
Topographical Survey	Annually	As per Condition 8.
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 ^{Note 1}

Reporting Period.

Waste activities carried out at the facility.

Quantity and Composition of waste received for capping/restoration during the reporting period and each previous year.

Summary report on emissions.

Summary of results and interpretation of environmental monitoring.

Resource and energy consumption summary.

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

Report on restoration of the facility.

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

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.

Report on training of staff.

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.

Signed on behalf of the said Agency
on the 5th day of July 2001

Ana Bolger **Authorised Person**