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County Wexford, Ireland

**WASTE LICENCE
PROPOSED DECISION**

Waste Licence Register Number:	170-1
Applicant:	Clare County Council
Location of Facility:	Lisdeen Recycling Centre and Transfer Station, Cemetery Road, Lisdeen, Kilkee, Co. Clare.

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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 a non-hazardous transfer station and recycling centre. A total of 2,000 tonnes per annum of waste may be accepted at the facility. This includes 1,800 tonnes per annum of municipal waste which may be accepted for compaction and subsequent disposal and 200 tonnes per annum of waste which may be accepted for future recycling and recovery off-site. A closed landfill is also located at the facility. The licence caters for the restoration and monitoring of the closed landfill.

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

DECISION & REASONS FOR THE DECISION

The Environmental Protection Agency (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 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 Agency proposes, under Section 40(1) of the said Act to grant this Waste Licence to Clare County Council to carry on the waste activities listed below at Lisdeen Recycling Centre and Transfer Station, Cemetery Road, Lisdeen, Kilkee, Co. Clare subject to 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 12.	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule. This activity is limited to the compaction of waste and its transfer from the compactor unit to an enclosed container for storage prior to removal off-site to landfill.
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 was produced. This activity is limited to the storage of non-recoverable waste received at this facility, prior to its disposal at an appropriate facility.

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

Class 2.	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes): This activity is limited to the acceptance and storage of waste oils and cooking oils at the facility.
Class 3.	Recycling or reclamation of metals and metal compounds: This activity is limited to the acceptance of beverage cans, white goods and other metals at the facility.
Class 4.	Recycling or reclamation of other inorganic materials: This activity is limited to the acceptance of glass at the facility.
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 storage of waste types authorised by the licence at the facility prior to recovery at an appropriate facility and to the storage of inert wastes prior to use in the restoration of the closed Lisdeen landfill subject to the prior agreement of the Agency.

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.

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.
Bi-annually	All or part of a period of six consecutive months.
Condition	A condition of this licence.
Containment boom	A boom which can contain spillages and prevent them from entering drains or watercourses.
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.
Emergency	Those occurrences defined in Condition 9.4
Emission Limits	Those limits, including concentration limits and deposition levels established in <i>Schedule C: Emission Limits</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.
Hours of Operation	The hours during which the facility is authorised to be operational.
Hours of Waste Acceptance	The hours during which the facility is authorised to accept waste.
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.
Landfill Directive	Council Directive 1999/31/EC

Licence	A Waste Licence issued in accordance with the Act.
Licensee	Clare County Council.
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, calibration and repair as may be necessary to adequately perform its function.
Monthly	A minimum of 12 times per year, at approximately monthly intervals.
Municipal waste	As defined in Section 5(1) of the Act.
Night-time	10.00 p.m. to 8.00 a.m.
Noise Sensitive Location (NSL)	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
Oil Separator	Device installed according to the draft European Standard prEN 858 (Installations for the separation of light liquids, e.g. oil and petrol).
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.
Waste water	All sewage and surface water run-off from areas of the facility used for the handling and storage of waste (including the hopper and compactor and the waste container storage area).
Weekly	During all weeks of plant operation, and in the case of emissions, when emissions are taking place; with no more than one measurement in any one week.
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 blue on Figure 2 entitled 'Lisdeen – Land Ownership Map Location and Extent' of the application. Any reference in this licence to "facility" shall mean the area thus outlined in blue.
- 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. The maximum tonnage to be accepted at the facility shall not exceed 2,000 tonnes per annum.
- 1.5. Only those waste categories and quantities listed in *Schedule A: Waste Acceptance* of this licence, shall be accepted at the facility.
- 1.6. No hazardous wastes or liquid wastes shall be accepted for disposal at the facility.
- 1.7. Waste Acceptance Hours and Hours of Operation
 - 1.7.1.1. The facility shall only be operated during the hours of 8.00am and 6.00pm Monday to Saturday.
 - 1.7.1.2. Waste shall only be accepted at the facility between the hours of 8.00am and 5.30pm Monday to Saturday.
- 1.8 The following shall constitute an incident for the purposes of this licence:
 - a) an emergency;
 - b) any emission which does not comply with the requirements of this licence;
 - c) any exceedance of the daily duty capacity of the waste handling equipment;
 - d) any trigger level specified in this licence which is attained or exceeded; and
 - e) any indication that environmental pollution has, or may have, taken place.
- 1.9 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:
 - 1.9.1 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;
 - 1.9.2 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
 - 1.9.3 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.

- 1.10 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.
- 2.1.2 The facility manager and any replacement manager, shall successfully complete both the FAS waste management training programme (or as otherwise agreed with the Agency) and associated on site assessment appraisal within twelve months of appointment.

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

2.3 Environmental Management System (EMS)

- 2.3.1 The licensee shall establish and maintain an EMS. Within eighteen months from the date of grant of this licence, the licensee shall 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. The EMS shall be updated on an annual basis with amendments being submitted to the Agency for its agreement.
- 2.3.2 The EMS shall include as a minimum the following elements:

- 2.3.2.1 Schedule of Environmental Objectives and Targets

The objectives should be specific and the targets measurable. The Schedule shall address a five-year period as a minimum. The Schedule shall include a time-scale for achieving the objectives and targets and shall comply with any other written guidance issued by the Agency.

2.3.2.2 Corrective Action Procedures

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

2.3.2.3 Awareness and Training Programme

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

2.4 Communications Programme

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

3.3 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 fencing and gates shall be installed and maintained as described in Attachment D.1(a) of the application. The base of the 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
- 3.5.1 Site roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.
- 3.6 Facility Office
- 3.6.1 The licensee shall provide and maintain an office at the facility.
- 3.7 Waste Quarantine Area
- 3.7.1 Within three months of the date of grant of this licence, a Waste Quarantine Area shall be provided and maintained at the facility. This area will include a skip for the storage of rejected waste, a bunded pallet and appropriate containers for the storage of rejected liquid waste.
- 3.8 Waste Water Treatment System
- 3.8.1 The licensee shall provide and maintain a Waste Water Treatment System at the facility for the treatment of waste water and run-off arising on-site. Any percolation area shall satisfy the criteria set out in the Wastewater Treatment Manual, *Treatment Systems for Single Houses*, published by the Environmental Protection Agency.
- 3.8.2 All waste water and run-off from areas of the facility used for the handling and storage of waste (including the hopper and compactor and the waste container storage area) shall be directed to the Waste Water Treatment System.
- 3.9 Tank and Drum Storage Areas
- 3.9.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein.
- 3.9.2 All tank and drum storage areas (including the waste oil storage tank) shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:
- (a) 110% of the capacity of the largest tank or drum within the bunded area; or
 - (b) 25% of the total volume of substance which could be stored within the bunded area.
- 3.9.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.9.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.9.5 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 within six months of the date of grant of this licence or 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

3.10 Silt Traps and Oil Separators

3.10.1 Within six months of the date of grant of this licence, the licensee shall install and maintain a silt trap and oil separator at the facility to ensure that all surface water from impervious areas where waste is stored, other than that going to the Waste Water treatment system, pass through a silt trap and oil separator prior to discharge from the facility. The separator shall be a Class I bypass interceptor and the silt traps and separator shall be in accordance with European Standard prEN 858 (installations for the separation of light liquids).

3.11 Surface water collection system

3.11.1 The surface water collection system, bunds, silt traps and oil separators shall be inspected weekly, desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal. A written record shall be kept of the inspections, desludging, cleaning, disposal of associated waste products, maintenance and performance of the interceptors, bunds and drains.

3.12.1 Monitoring Infrastructure

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

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

CONDITION 4 RESTORATION AND AFTERCARE

4.1. A proposal for a Decommissioning and Aftercare Plan for the waste transfer station shall be submitted to the Agency within twelve months of the date of grant of this licence. The licensee shall update these schemes when required by the Agency.

4.2. Closed Lisdeen Landfill

4.2.1 Within nine months of the date of grant of this licence, the licensee shall ensure that the following are undertaken:

- a) All loose litter within and in the environs of the closed landfill is removed and appropriately disposed of.
- b) All exposed waste within the closed landfill is covered with a minimum of 500mm of inert material to a specification agreed in advance with the Agency.

4.2.2 Within twelve months of the date of grant of this licence, the licensee shall submit a Restoration Plan to the Agency for agreement on the closed landfill. This Restoration Plan must take account of the recommendations in the Agency's publication Landfill Manuals: Landfill Restoration and Aftercare and must include a proposed timescale for the implementation of any restoration works required. The final profile of the landfill and the details of landfilling to achieve the final landform shall be included in the Restoration Plan.

4.2.3 No waste shall be accepted at the landfill apart from inert waste conforming with a specification to be agreed in advance with the Agency for use in the restoration of the landfill site. No waste shall be disposed of at the landfill.

- 4.2.4 Completed areas of the closed 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.
- 4.2.5 No material or object that is incompatible with the proposed restoration of the site shall be present within one metre of the final soil surface levels.

REASON: To provide for the restoration of the facility

CONDITION 5 FACILITY OPERATIONS

5.1 Waste Acceptance

- 5.1.1 The facility shall only be used by private vehicles. The facility shall not be used as a transfer station for the acceptance of waste by commercial waste disposal contractors or local authority waste collection vehicles.
- 5.1.2 The following wastes shall be accepted for temporary storage at the facility prior to recovery or disposal: glass, beverage and food cans, plastic containers, white goods, batteries, waste oils, papers & cardboard unless otherwise agreed with the Agency.
- 5.1.3 All waste accepted at the facility shall be either deposited:
- a) into the hopper of the compactor for disposal;
 - b) into a receptacle for recovery; or
 - c) into the designated Waste Quarantine Area.
- 5.1.4 Waste Acceptance Procedures shall be carried out in accordance with Attachment E.3 of the application.
- 5.1.5 Any waste deemed unsuitable for processing at the facility and/or in contravention of this licence shall be immediately separated and removed from the facility at the earliest possible time. Temporary storage of such wastes shall be in a designated Waste Quarantine Area, once installed. Waste shall be stored under appropriate conditions in the quarantine area to avoid putrefaction, odour generation, the attraction of vermin and any other nuisance or objectionable condition.
- 5.1.6 The licensee shall assign and clearly label each container at the facility to indicate its contents.
- 5.1.7 At the end of the working day, the hopper and compactor shall be cleared of waste.

5.2 Operational Controls

- 5.2.1 Scavenging shall not be permitted at the facility.
- 5.2.2 Gates shall be locked shut when the facility is unsupervised.
- 5.2.3 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 5.2.4 Fuels shall only be stored at appropriately bunded locations on the facility.
- 5.2.5 All tanks and drums shall be labelled to clearly indicate their contents.

5.3 Off-site Disposal and Recovery

- 5.3.1 Waste sent off-site for recovery or disposal shall only be conveyed by a waste contractor agreed by the Agency;
- 5.3.2 All waste transferred from the facility shall only be transferred to an appropriate facility agreed by the Agency;
- 5.3.3 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.

5.4 Maintenance

- 5.4.1 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.
- 5.4.2 The licensee shall maintain and clearly label and name all sampling and monitoring locations.
- 5.4.3 The licensee shall maintain the hopper and compactor in accordance with the manufacturers instructions.

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. There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at any noise sensitive location.
- 6.4. Landfill Gas
 - 6.4.1 The following are the trigger levels for landfill gas emissions from the facility measured in any service duct or manhole, on, at or immediately adjacent to the facility and/or at any other point located outside the body of the waste:
 - a) Methane, greater than or equal to 1.0% v/v; or
 - b) Carbon dioxide, greater than or equal to 1.5% v/v.

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 licences, shall be removed, subject to the agreement of the landowners, immediately and in any event by 10.00am of the next working day after such waste is discovered.
- 7.3.2 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.

REASON: *To provide for the control of nuisances*

CONDITION 8 MONITORING

- 8.1. The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule D: Monitoring*, of this licence and as specified in this licence. Unless otherwise specified by this licence, all environmental monitoring shall commence no later than two months after the date of grant of this licence.
- 8.2. The licensee shall amend the frequency, locations, methods and scope of monitoring as required by this licence only upon the written instruction of the Agency and shall provide such information concerning such amendments as may be requested in writing by the Agency. Such alterations shall be carried out within any timescale nominated by the Agency.
- 8.3. Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturers' instructions (if any) so that all monitoring results accurately reflect any emission, discharge or environmental parameter.
- 8.4. The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 8.5. The licensee shall maintain all sampling and monitoring points, and clearly label and name all sampling and monitoring locations, so that they may be used for representative sampling and monitoring.
- 8.6. The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 8.7. All persons conducting the sampling, monitoring and interpretation as required by this licence shall be suitably competent.
- 8.8. Nuisance Monitoring

8.8.1. The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by litter, vermin, birds, flies, mud, dust and odours.

8.9 Landfill gas

8.9.1 All landfill gas monitoring equipment shall be certified as being intrinsically safe.

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. In the event of a complete breakdown of equipment or any other occurrence which results in the closure of the transfer station building, any waste arriving at or already collected at the facility shall be transferred directly to appropriate landfill sites or any other appropriate facility until such time as the transfer station building is returned to a fully operational status. Such a breakdown event will be treated as an emergency and rectified as soon as possible.

9.4.2. 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;

- 9.4.3. 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;
- 9.4.4. 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;

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 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.
- 10.2 Written Records
- The following written records shall be maintained by the licensee:
- a) the types and quantities of waste recovered and disposed of at the facility each year. These records shall include the relevant EWC Codes;
 - b) all training undertaken by facility staff;
 - c) results from all integrity tests of bunds and other structures and any maintenance or remedial work arising from them;
 - d) details of all nuisance inspections; and
 - e) the names and qualifications of all persons who carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring.
- 10.3 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 for each load of waste departing from the facility. The following shall be recorded:
- a) the name of the carrier;
 - b) the vehicle registration number;

- c) the destination of the waste (facility name and waste licence/permit number as appropriate);
- 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 three copies unless additional copies are required;
- c) be formatted in accordance with any written instruction or guidance issued by the Agency;
- d) include whatever information as is specified in writing by the Agency;
- e) be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;
- f) be submitted in accordance to the relevant reporting frequencies specified by this licence, such as in *Schedule E: Recording and Reporting to the Agency*, of this licence;
- g) be accompanied by a written interpretation setting out their significance in the case of all monitoring data; and
- h) be transferred electronically to the Agency's computer system if required by the Agency.

11.2 In the event of an incident occurring on the facility, the licensee shall:

- a) notify the Agency as soon as practicable and in any case not later than 10.00 am 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 10:00am 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 three 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 one month after the end of each calendar year thereafter, an Annual Environmental Report (AER).

11.4.2 The AER shall include as a minimum the information specified in Schedule H: Content of Annual Environmental Report and shall be prepared in accordance with any relevant written guidance issued by the Agency.

REASON: *To provide for proper reporting and notification 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 € 7,220.50 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 2003 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 2002, 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 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 (TONNES PER ANNUM)
Municipal Waste.	1,800
Wastes for recycling/recovery.	200 ^{Note 1}
TOTAL	2,000

Note 1: The amount of wastes accepted for recovery/recycling may be altered as long as the total accepted at the facility does not exceed 2,000 tonnes per annum.

SCHEDULE B: Specified Engineering Works

Specified Engineering Works
Installation of silt trap and oil interceptor.
Installation of bunded fuel/waste oil storage area.
Any other works notified in writing by the Agency.

SCHEDULE C: Emission Limits

C.1 *Treated Waste Water Limits:* (Measured at the outlet from the waste water treatment system).

Parameter	Emission Limit Value
	Daily Mean Concentration (mg/l) except pH
BOD	25
Ammoniacal Nitrogen	10
Suspended solids	35
pH	6-9
Fats, Oils, Grease	No visible traces

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

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 Fig. 12-1 entitled '1:1,500 Map of Environmental Monitoring Locations' received by the Agency on 29th May 2002.

Table D.1.1 Monitoring Locations

SURFACE WATER	GROUND-WATER	LEACHATE	LANDFILL GAS	WASTE WATER
STATIONS	STATIONS	STATIONS	STATIONS	STATIONS
SW1	BH1	L1	G1	Outlet of waste water treatment system.
SW3	BH3	L2	G2	
SW5	BH4			
SW7				

D.2 Waste Water

Table D.2.1 Waste Water Monitoring Frequency and Techniques

Parameter	Monitoring Frequency	Analysis Method/Technique
pH	Biannually	Electrometry
Biological Oxygen Demand	Biannually	Standard Methods ^{Note 1}
Suspended Solids	Biannually	Standard Methods ^{Note 1}
Fats, Oils, Grease	Biannually	Standard Methods ^{Note 1}
Ammoniacal nitrogen	Biannually	Standard Methods ^{Note 1}

Note 1: "Standards Methods for the Examination of Water and Wastewater", (prepared and published jointly by A.P.H.A., A.W.W.A & W.E.F) 20th Ed., American Public Health Association, 1015 Fifteenth Street, Washington DC 20005, USA.

D.3 Landfill Gas

Table D.3.1 Landfill Gas Monitoring Frequency and Techniques

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

Note1: All monitoring equipment used should be intrinsically safe.

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

D.4 Surface water, groundwater and leachate

Table D.4.1 Surface water, groundwater and leachate – Monitoring Frequency and Techniques

Parameter ^{Note 1}	Surface water	Groundwater	Leachate
	Monitoring Frequency	Monitoring Frequency	Monitoring Frequency
Visual Inspection/Odour	Weekly	Annually	Annually
Groundwater Level	Not Applicable	Annually	Not applicable
Leachate Level	Not applicable	Not applicable	Annually
Ammoniacal Nitrogen	Annually	Annually	Annually
BOD	Annually	Not Applicable	Annually
COD	Annually	Not Applicable	Annually
Chloride	Annually	Annually	Annually
Dissolved Oxygen	Annually	Not applicable	Not applicable
Electrical Conductivity	Annually	Annually	Annually
pH	Annually	Annually	Annually
Total Suspended Solids	Annually	Not Applicable	Not applicable
Temperature	Annually	Annually	Annually
Metals and non-metals ^{Note 2}	Annually	Annually	Annually
Cyanide (Total)	Not Applicable	Annually	Annually
Fluoride	Not Applicable	Annually	Annually
List I/II organic substances ^{Note 3}	Not Applicable	Once-off	Once-off
Mercury	Not Applicable	Annually	Annually
Sulphate	Not Applicable	Annually	Annually
Total Alkalinity	Not Applicable	Annually	Annually
Total Phosphorus / orthophosphate	Not Applicable	Annually	Annually
Total Oxidised Nitrogen	Not Applicable	Annually	Annually
Total Organic Carbon	Not Applicable	Annually	Annually
Residue on evaporation	Not applicable	Annually	Not applicable

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

Note 2: Metals and elements to be analysed by AA/ICP should include as a minimum: cadmium, boron, calcium, chromium (total), copper, iron, lead, magnesium, manganese, nickel, potassium, sodium and zinc.

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).

SCHEDULE E: Recording and Reporting to the Agency

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 calendar year thereafter.
Record of incidents	As they occur	Within five days of the incident.
Bund, tank & 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 Surface Water Quality	Annually	One month after end of the year being reported on.
Monitoring of Leachate Quality	Annually	One month after end of the year being reported on.
Monitoring of Landfill Gas	Annually	One month after end of the year being reported on.
Monitoring of Groundwater Quality	Annually	One month after end of the year being reported on.
Monitoring of Foul water	Annually	One month after end of the year being reported on.
Any other monitoring	As they occur	Within ten days of obtaining results.

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

SCHEDULE F: Content of the Annual Environmental Report

Annual Environmental Report Content
<p>Reporting Period.</p> <p>Waste activities carried out at the facility.</p> <p>Quantity and Composition of waste recovered and disposed of during the reporting period and each previous year (relevant EWC codes to be used)</p> <p>Summary report on emissions</p> <p>Summary of results and interpretations of environmental monitoring, including a location plan of all monitoring locations.</p> <p>Resource and energy consumption summary.</p> <p>Report on development works undertaken during the reporting period, and a timescale for those proposed during the coming year.</p> <p>Report on the progress towards achievement of the Environmental Objectives and Targets contained in previous year's report.</p> <p>Schedule of Environmental Objectives and Targets for the forthcoming year.</p> <p>Full title and a written summary of any procedures developed by the licensee in the year which relates to the facility operation.</p> <p>Tank, drum and bund testing and inspection report.</p> <p>Reported Incidents and Complaints summaries.</p> <p>Review of Nuisance Controls.</p> <p>Reports on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information.</p> <p>Report on training of staff.</p> <p>Any other items specified by the Agency.</p>

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 22nd day of August 2002

Patrick J. Nolan, Authorised Person