



Waste Licence Application Form

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EPA Ref. N^o: <i>(Office use only)</i>	<input type="text"/>
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This document does not purport to be and should not be considered a legal interpretation of the provisions and requirements of the Waste Management Acts 1996 to 2003.

Environmental Protection Agency
P.O.Box 5000, Johnstown Castle Estate, County Wexford
Telephone: 053-60600 Fax: 053-60699



WASTE Application Form

Environmental Protection Agency
Application for a Waste Licence

WASTE MANAGEMENT ACTS 1996 to 2003

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INTRODUCTION

A valid application must contain the information prescribed in the Waste Management (Licensing) Regulations 2004 (SI No. 395 of 2004). The applicant is strongly advised to read the *Application Guidance Notes* for Waste Licensing, available from the EPA.

The applicant must conform to the format set out in the guidance notes for applications. Each page of the completed application form must be numbered, e.g. *page 5 of 45*, etc. Also duplicated pages from the application form should be uniquely numbered, e.g. page 5(i) of 45, etc. The basic information should for the most part be supplied in the spaces given in application form and any supporting documentation should be supplied as attachments, as specified. Consistent measurement units must be used throughout.

The applicant should note that the application form has been structured so that it requires information to be presented in an order of progressive detail.

When it is found necessary, additional information may be provided on supplementary attachments which should be clearly cross referenced with the relevant sections in the main document.

While all sections in the application form may not be relevant to the activity concerned, the applicant should look carefully through all aspects of the form and provide the required information, in the greatest possible detail.

All maps/drawings/plans must be no larger than A3 size and scaled appropriately such that they are clearly legible. In exceptional circumstances, where A3 is considered inadequate, a larger size may be requested by the Agency.

Information supplied in this application, including supporting documentation will be put on public display and open to inspection by any person. Should the applicant consider information to be confidential, this information should be submitted in a separate enclosure bearing the legend " In the event that this information is deemed not to be held as confidential, it must be returned to". In the event that information is considered to be of a confidential nature, then the nature of this information, and the reasons why it is considered confidential (with reference to the " Access to Information on the Environment" Regulations) should be stated in the Application Form, where relevant.

It should be noted that it will not be possible to process or determine the application until the required documents have been provided in sufficient detail and to a satisfactory standard.

CHECKLIST

Articles 12 and 13 of the Waste Management (Licensing) Regulations, 2004 (S.L No. 395 of 2004) set out the information which must, in all cases, accompany a waste licence application. In order to ensure that the application fully complies with the legal requirements of Articles 12 and 13 of the 2004 Regulations, all applicants should complete the following.

In each case, refer to the attachment number(s) of your application which contain(s) the information requested in the appropriate sub-article.

Article 12(1) In the case of an application for a waste licence, the application shall -

- (a) give the name, address and, where applicable, any telephone number and telefax of the applicant (and, if different, the operator of the facility concerned), the address to which relating to the application should be sent and, if the applicant or operator is a body corporate, the address of its registered office or principal office,

LOCATION	Section RI
CHECKED	Applicant <input checked="" type="checkbox"/> 1 Official 0

- (b) give the name of the planning authority in whose functional area the relevant activity is or will be carried on,

LOCATION	Section B.3
CHECKED	Applicant <input checked="" type="checkbox"/> 1 Official 0

- (c) in the case of a discharge of any trade effluent or other matter (other than domestic sewage or storm water) to a sewer of a sanitary authority, give the name of the sanitary authority in which the sewer is vested or by which it is controlled,

LOCATION	Section BA
CHECKED	Applicant <input checked="" type="checkbox"/> 1 Official D

- (d) give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the facility or premises to which the application relates,

LOCATION	Section R2
CHECKED	Applicant <input checked="" type="checkbox"/> 1 Official D

- (e) describe the nature of the facility or premises concerned, including the proposed capacity of the facility or premises, and in the case of application in respect of a landfill of waste, the requirements specified in Annex 1 of the Landfill Directive,

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LOCATION	Section B.?, D.I
CHECKED	Applicant <input checked="" type="checkbox"/> Official D

(t) specify the class or classes of activity concerned, in accordance with the Third and Fourth Schedules of the Act, and in the case of an application in respect of the landfill of waste, specify the class of landfill in accordance with Article 4 of the Landfill Directive,

LOCATION	Section B.?
CHECKED	Applicant <input checked="" type="checkbox"/> Official D

(g) specify, by reference to the relevant European Waste Catalogue codes as presented by Commission Decision 2000/532/EC of 3 May 2000, the quantity and nature of the waste or wastes which will be treated, recovered or disposed of,

LOCATION	Not Applicable
CHECKED	Applicant <input checked="" type="checkbox"/> Official D

(h) specify the raw and ancillary materials, substances, preparations, fuels and energy which will be utilised in or produced by the activity,

LOCATION	Section G
CHECKED	Applicant <input checked="" type="checkbox"/> Official D

(i) describe the plant, methods, processes, ancillary processes, abatement, recovery and treatment systems and operating procedures for the activity,

LOCATION	Not Applicable
CHECKED	Applicant <input checked="" type="checkbox"/> Official D

(j) provide information for the purpose of enabling the Agency to make a determination in relation to the matters specified in paragraphs (a) to (g) of section 40(4) of the Act,

LOCATION	Section L.I, L.2
CHECKED	Applicant <input checked="" type="checkbox"/> Official D

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(k) give particulars of the source, location, nature, composition, quantity, level and rate of emissions arising from the activity and, where relevant, the period or periods during which such emissions are made or are to be made,

LOCATION	Section E
CHECKED	Applicant <input checked="" type="checkbox"/> Official 0

(l) give details, and an assessment of the effects, of any existing or proposed emissions on the environment, including any environmental medium other than those into which the emissions are, or are to be made, and of proposed measures to prevent or eliminate or, where that is not practicable, to limit or abate such emissions,

LOCATION	Section F
CHECKED	Applicant Official 0

(m) identify monitoring and sampling points and indicate proposed arrangements for the monitoring of emissions and the environmental consequences of any such emissions,

LOCATION	Section F
CHECKED	Applicant <input checked="" type="checkbox"/> Official 0

(n) describe any proposed arrangements for the prevention, minimisation and recovery of waste arising from the activity concerned,

LOCATION	Not Applicable
CHECKED	Applicant <input checked="" type="checkbox"/> Official 0

(o) describe any proposed arrangements for the off-site treatment or disposal of solid or liquid wastes,

LOCATION	Section F
CHECKED	Applicant <input checked="" type="checkbox"/> Official 0

(P) describe the existing or proposed measures, including emergency procedures, to prevent unauthorised or unexpected emissions and minimise the impact on the environment of any such emission,

LOCATION	Section J
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/>

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(q) describe the proposed measures for the closure, restoration, remediation or aftercare of the facility concerned, after the cessation of the activity in question,

LOCATION	Section K		
CHECKED	Applicant	<input checked="" type="checkbox"/>	 Official D

(r) in the case of an application in respect of the landfilling of waste, give particulars of-

(i) such financial provision as is proposed to be made by the applicant, having regard to the provisions of Articles (7)(i) and (8)(a)(iv) of the Landfill Directive and section 53(1) of the Act, and

LOCATION	Not Applicable		
CHECKED	Applicant	<input checked="" type="checkbox"/>	 Official D

(ii) such charges as are proposed or made, having regard to the requirements of section 53A of the Act

LOCATION	Not Applicable		
CHECKED	Applicant	<input checked="" type="checkbox"/>	Official D

(s) state whether the activity is for the purposes of an establishment to which the European Communities (Control of Major Accident Hazards involving Dangerous Substances) Regulations, 2000 (S.L. No. 476 of 2000) apply,

LOCATION	Section 8.8		
CHECKED	Applicant	<input checked="" type="checkbox"/>	 Official 0

(t) in the case of an activity which gives rise or could give rise to an emission into an aquifer containing the List I and II substances specified in the Annex to Council Directive 80/68/EEC of 17 December 1979, describe the existing or proposed arrangements necessary to give effect to Articles 3,4,5,6,7,8,9 and 10 of the aforementioned Council Directive,

LOCATION	Not Applicable		
CHECKED	Applicant	<input checked="" type="checkbox"/>	 Official D

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(u) include a non-technical summary of information provided in relation to the matters specified in paragraphs (a) to (t) of this sub-article,

LOCATION	Attachment A.1
CHECKED	Applicant <input checked="" type="checkbox"/> , Official <input type="checkbox"/>

Article 12(4) Without prejudice to Article 13(1) and (2), an application for a licence shall be accompanied by -

(a) a copy of the relevant page of the newspaper(s) in which the notice in accordance with article 6 has been published,

LOCATION	Attachment B.6
CHECKED	Applicant <input checked="" type="checkbox"/> , Official <input type="checkbox"/>

(b) a copy of the text of the notice or notices erected or fixed in accordance with article 7,

LOCATION	Attachment B.6
CHECKED	Applicant <input checked="" type="checkbox"/> , Official <input type="checkbox"/>

(c) where appropriate, a copy of the notice given to a local planning under article 9,

LOCATION	Attachment B.6
CHECKED	Applicant <input checked="" type="checkbox"/> , Official <input type="checkbox"/>

(d) a copy of such plans (appropriately scaled and no larger than A3 size), including a site plan or plans and location map or maps, and such other particulars, reports and supporting documentation as are necessary to identify and describe, as appropriate -
 (i) the position of the notice in accordance with article 7,

LOCATION	Attachment B.6
CHECKED	Applicant <input checked="" type="checkbox"/> , Official <input type="checkbox"/>

(ii) the point or points from which emissions are made or are to be made, and

LOCATION	Attachment F
CHECKED	Applicant <input checked="" type="checkbox"/> , Official <input type="checkbox"/>

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(iii) the point or points at which monitoring and sampling are undertaken or are to be undertaken,

LOCATION	Attachment F
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/> D

(e) such fee as is appropriate having regard to the provisions of articles 40 and 41.

INCLUDED Y/N	Y
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/> D

Article 12(5)(a) & (b) An application shall comprise 1 signed original of the application and 2 copies in hardcopy format plus 2 copies of all files in electronic searchable PDF format on CD-Rom.

HARDCO Y/N	Y
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/> D

CD OF PDF FILES PROVIDED? Y/N	Y
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/> D

Article 13 Where a development requires an Environmental Impact Assessment to be carried out, 1 signed original and 2 copies in hardcopy format of the environmental impact statement plus 16 copies in electronic searchable PDF format on CD-ROM should accompany this application.

EIA REQUIRED ? Y/N	N
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/> D
3 HARD COPIES OF EIS INCLUDED ? Y/N	N
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/> D
16 CD versions of EIS, "as PDF files, Y/N"	N
CHECKED	Applicant <input checked="" type="checkbox"/> Official <input type="checkbox"/> D

PROCEDURES

It is recommended that pre-application consultations with the Agency are undertaken before a formal submission of the waste licence application.

The procedure for making and processing of applications for waste licences, and for the processing of reviews of such licences, appear in the Waste Management (Licensing) Regulations 2004 (S.I. No. 395 of 2004) and are summarised below. The application fees that shall accompany an application are listed in the Second Schedule to the Regulations.

Prior to submitting an application the applicant must publish in a local newspaper, and erect on site, a notice of intention to apply. An applicant, other than a local authority in whose functional area the development is located, must also notify the Local Planning Authority, in writing, of their intention to apply.

An application for a licence must be submitted on the appropriate form (available from the Agency) with the correct fee, and should contain relevant supporting documentation as attachments. The application should be based on responses to the form, supporting written text and the appropriate use of tables and drawings. Where point source emissions occur, a system of unique reference numbers should be used to denote each emission point. These should be simple, logical, and traceable throughout the application.

The application form is divided into a number of sections of related information. The purpose of these divisions being to facilitate both the applicant and the Agency in the provision of the information and its assessment. Attachments should be clearly numbered, titled and paginated and must contain the required information as set out in the application form. Additional attachments may be included to supply any further information supporting the application. Any references made should be supported by a bibliography.

All questions should be answered. No waste management facility is exactly the same and hence each application will require different information. It is therefore possible that some of the sections of this application form may not be relevant to the activity concerned. Where information is requested in the application form, which is not relevant to the application, the words "not applicable" should be clearly written on the form. The abbreviation "N/A" should not be used.

Additional information may need to be submitted beyond that which is explicitly requested on this form. Any references made should be supported by a bibliography. The Agency may request further information if it considers that its provision is material to the assessment of the application. Advice should be sought from the Agency where there is doubt about the type of information required or the level of detail.

Information supplied in this application, including supporting documentation will be put on public display and be open to inspection by any person. Should the applicant

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consider information to be confidential, then the nature of this information, and the reasons why it is considered confidential should be clearly stated in an attachment to the Application Form. This information should be submitted in a separate enclosure bearing the legend "In the event that this information is deemed not to be held as confidential, it must be returned to (representative of the applicant)".

Applicants should be aware that a contravention of the conditions of a waste licence is an offence under Section 39 of the Waste Management Acts 1996 to 2003.

The provision of information in an application for a waste licence which is false or misleading is an offence under Section 45 of the Waste Management Acts 1996 to 2003.

Note: Drawings. The following guidelines are included to assist applicants:

- *All drawings submitted should be titled and dated.*
- *They should have a unique reference number and should be signed by a clearly identifiable person.*
- *They should indicate a scale and the direction of north.*
- *All drawings should, generally, be to a scale of between 1:20 to 1:500, depending upon the degree of detail needed to be shown and the size of the facility. Drawings delineating the boundary can be to a smaller scale of between 1:1000 to 1:10560, but must clearly and accurately present the required level of detail. Drawings showing the site location can be to a scale of between 1:50000 to 1:126 720. All drawings should, however, be A3 or less and of an appropriate scale such that they are clearly legible. Provide legends on all drawings and maps as appropriate.*

The provision of information in an application for a waste licence, which is false or misleading, is an offence under s45 of the Acts.

SECTION A NON-TECHNICAL SUMMARY

A Non-Technical Summary is to be submitted. The summary should include information on those aspects outlined in the Guidance Note and must comply with the requirements of Article 12 (1) (u) of the Waste Management (Licensing) Regulations, S.L 395 of 2004.

The Non-Technical Summary should form **Attachment A.I.**

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SECTION B GENERAL

B.1 Applicant's Details

Name*: Cavan County Council

Address: Courthouse,

Cavan,

Co. Cavan.

Tel: 049 - 4331799

Fax: 049 - 4361565

e-mail: info@cavancoco.ie

* This should be the name of the applicant which is current on the date this Waste Licence Application is lodged with the Agency. It should be the name of the legal entity (which can be a limited company or a sole trader). A trading/business name is not acceptable.

Name and Address for Correspondence

Only application documentation submitted by the applicant and by the nominated person will be deemed to have come from the applicant.

Name: Mr. John Brannigan

Address: Cavan County Council,

Courthouse,

Cavan,

Co. Cavan.

Tel: 049 - 4331799

Fax: 049 - 4361565

e-mail: jbrannigan@cavancoco.ie

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Address of registered or principal office of Body Corporate (if applicable)

Address: Not Applicable

Tel:

Fax:

e-mail:

- If the applicant is a body corporate, the following information must be attached as Attachment B1:
- a) a Certified Copy of the Certificate of Incorporation or Memorandum and Article of Association;
 - b) the Company's Registration Number from the Companies Registry Office; and
 - c) a list of the Company Directors.



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State interest of applicant in land is subject to application. applicant is (please check):

Table with 2 columns: Category and Selection. Categories: Landowner (checked), Lessee (D), Prospective Purchaser (D), Other (please specify).

Name and address of all occupiers of land on which activity is situated (if different from applicant named above).

Form fields for Name, Address, Tel, Fax, e-mail.

Name and address of current* owner(s) and lessees of land, buildings and ancillary plant on which activity is or will be situated (if different from applicant named above). An appropriately scaled drawing (<= A3) showing above details should be included in Attachment B1.

Form fields for Name, Address, Tel, Fax, e-mail.

*Current at the time the application is submitted

B.2 Location of Activity

Form fields for Name, Address*, Tel, Fax, e-mail.

* Include any townland



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National Grid Reference (8 digit 4E,4N)	2443E 3078N (244297E 307793N)
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Location maps ($\leq A3$), appropriately scaled, with legible grid references should be enclosed in Attachment B.2. The site boundary must be outlined on the map in colour.

B.3 Planning Authority

Give the name of the planning authority in whose functional area the activity is or will be carried out.

Name: Cavan County Council

Address: Courthouse,
Cavan,
Co. Cavan.,

Tel: 049 - 4331799

Fax: 049 - 4331981

Has the Planning Authority received written notification from the applicant of the application to The Environmental Protection Agency for a Waste Licence under Article 9 of the Waste Management (Licensing) Regulations?

Planning Authority notified	Yes	<input type="radio"/>
	No	<input checked="" type="checkbox"/>

Planning Permission relating to this application:-

<i>has been obtained</i>	<input type="radio"/>
<i>is processed</i>	<input type="radio"/>
<i>is not yet applied for</i>	<input type="radio"/>
<i>is not required</i>	<input checked="" type="checkbox"/>

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Local Authority Planning File Reference N ^o :	
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Attachment B.3 should contain *the most recent* planning permission, including a copy of *all* conditions, and the required copies of any EIS should also be enclosed. For existing activities, Attachment B.3 should also contain copies of the most recent waste licence and any permits in force at the time of submission. Where planning permission is not required for the development, provide reasons, relevant correspondence, *etc.*



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B.4 Sanitary Authority

In the case of a discharge of any trade effluent or other matter (other than domestic sewage or storm water) to a sewer of a sanitary authority or other body, give the name of the sanitary authority in which the sewer is vested or by which it is controlled and the waste water treatment plant (if any) to which the sewer discharges.

Name: Cavan County Council

Address: Courthouse,

Cavan,

Co. Cavan.

Tel: 049 - 4331799

Fax: 049-4331981

The applicant must enclose, as Attachment BA, a copy of any effluent discharge licence and/or agreement between the applicant and the body with responsibility for the sewer.

B.5 Other Authorities

The applicant should tick the appropriate box below to identify whether the activity is located within the Shannon Free Airport Development Company (SFADCo.) area.

| Within SFADCo. Area | Yes | No

The applicant should indicate the Health Board Region where the activity is or will be located.

Name: HSE Cavan/Monaghan

Address: Cavan P.C.C.C. Offices,

Lisdaran,

Cavan.

Tel: 049 - 4361822

Fax:

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B.6 Notices and Advertisements

Articles 6 and 7 of the Waste Management (Licensing) Regulations 2004 requires all applicants to advertise the application in a newspaper and by way of a site notice. See *Guidance Note*.

Attachment B.6 should contain a copy of the site notice and an appropriately scaled drawing (≤A3) showing its location on site. The original application must include the complete newspaper in which the advertisement was placed. The relevant page of the newspaper containing the advertisement should be included with the original and three copies of the application.

B.7 Type of Waste Activity, Tonnages & Fees

B.7.1 Specify the class or classes of activity in Table B.7.1, in accordance with the Third Schedule or Fourth Schedule to the Waste Management Acts 1996 to 2003, to which the application relates (check the relevant box(es) and mark the principal activity with a 'P').

Attachment B.7 should identify the principle activity and include a brief technical description of each of the other activities specified. There can only be one principal activity.

TABLE B.7.1 THIRD AND FOURTH SCHEDULES OF THE WASTE MANAGEMENT ACTS 1996 TO 2003

Waste Management Acts 1996 to 2003			
THIRD SCHEDULE		FOURTH SCHEDULE	
W	Disposal Activities	Y/N	Waste Recovery Activities
			Y/N
	1. Deposit on, in or under land (including landfill).	y	1. Solvent reclamation or regeneration.
	2. Land treatment, including biodegradation of liquid or sludge discards in soils.		2. Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).
	3. Deep injection of the soil, including injection of pumpable discards into wells, salt domes or naturally occurring repositories.		3. Recycling or reclamation of metals and metal compounds.
	4. Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.		4. Recycling or reclamation of other inorganic materials.
	5. Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.	P	5. Regeneration of acids or bases.
	6. Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 7 to 10 of this Schedule.		6. Recovery of components used for pollution abatement.
	7. Physico-chemical treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 8 to 10 of this Schedule (including evaporation, drying and calcination).		7. Recovery of components from catalysts.
	8. Incineration on land or at sea.		8. Oil re-refining or other re-uses of oil.
	9. Permanent storage, including emplacement of containers in a mine.		9. Use of any waste principally as a fuel or other means to generate energy.
	10. Release of waste into a water body (including a seabed insertion).		10. The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.
	11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.		11. Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
	12. Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.		12. Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.
	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.		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.

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TABLE B.7.2 MAXIMUM ANNUAL TONNAGE

The maximum annual tonnage of waste to be handled at the site should be indicated and the year to which the quantity relates indicated.

Maximum Annual Tonnage (tpa)	Not Applicable
Year	Not Applicable

B.7.3 FEES

State each class of activity for which a fee is being submitted as per Part I of the Second Schedule of the Waste Management (Licensing) Regulations 2004, S.L. No. 395 of 2004. Note: two fees are required if disposal and recovery are to occur.

Waste Activity	Fee (in €)
Disposal of Waste (appropriate disposal activity 1.1 - 3.3)	6,000
Recovery of Waste (4)	Not Applicable
Total	6,000

TABLE B.7.4 (FOR A LANDFILL APPLICATION)

STATE WHICH OF THE FOLLOWING IS RELEVANT TO THE CURRENT APPLICATION.

(a) landfill for hazardous waste	D
(b) landfill for non-hazardous waste (closed)	<input checked="" type="checkbox"/>
(c) landfill for inert waste	D

B.8 SEVESO 11 DIRECTIVE

State whether the activity is for the purposes of an establishment to which the European Communities (Control of Major Accident Hazards involving Dangerous substances) Regulations, 2000 (S.L. No. 476 of 2000), apply.

Regulations Apply Yes No

If yes, Attachment B.8 should include the relevant details. Supporting information, as well as copies of any Hazardous Operation Studies (HAZOP) carried out for the site, should also be included in the attachment.

SECTION C MANAGEMENT OF THE FACILITY

Advice on completing this section is provided in the *Guidance Note*.

C.1 Technical Competence and Site Management

This information should form Attachment C 1.

Details of the applicant's experience and qualifications, along with that of other relevant employees, should be summarised as shown below. Statements of duties, responsibilities, experience and qualifications should be submitted for each position named below. Additional information, including the management structure and an organisational chart, should be included in Attachment C 1.

Name	Position	Duties and Responsibilities	Experience /Qualifications
John Brannigan	Project Manager	Responsible for overall operation of site	B. Eng C. Eng
Sinead Fox	Landfill Operations Manager	Landfill Compliance	B.Sc. Environmental Science 4 years Technician various County Councils (Environment Section) 2 years Environmental Consultancy January 2007 to present working at Corranure Landfill as Landfill Operations Manager Completed FÁS Waste Management Course in June 2007
Tommy Keaney	Waste Management Operator	General Operative	29 years working for Cavan County Council. 15 years working on waste collection for Cavan County Council. 11 years as a general operative including roads and waterworks. Since March 2004 working as general operative at

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C2 Environmental Management System

Attachment C 2 should contain the Environmental Management System (EMS) details required.

An EMS/Operations Plan exists for the current facility and will be revised when the Waste Licence Review is granted.

C3 Hours of Operation

Attachment C 3 should contain details of hours of operation for the waste facility civic waste facilities and other facilities.

- (a) Proposed hours of operation.
- (b) Proposed hours of waste acceptance/handling.
- (c) Proposed hours of any construction and development works at the facility and timeframes (required for landfill facilities).
- (d) Any other relevant hours of operation expected.

Attachment C 3

Proposed hours of any maintenance works: 8.00-18.00 Monday- Saturday.
However maintenance outside of these hours will be agreed with the Agency if required.

C4 Conditioning Plan

Address as Attachment C 4, in the case of a LANDFILL Application, and only for the review of a Landfill Waste Licence.

A revised Conditioning Plan will be updated and sent to the Agency for approval subsequent to the Waste Licence Review being granted.

SECTION D INFRASTRUCTURE & OPERATION

D.1 Infrastructure

Complete the following table detailing the site infrastructure. Attachment D 1 should contain the appropriate documentation. Information provided should follow the sequence, and use the headings, established in Table D.1. Additional advice on completing this section is provided in the application *Guidance Note*.

Table D.1. Infrastructure

		y/n	Comments
D.1.a	Site security arrangements including gates and fencing	Y	See Attachment D.1.a
D.1.b	Designs for site roads	Y	See Attachment D.1.b
D.1.c	Design of hardstanding areas	N	
D.1.d	Plant	N	
D.1.e	Wheel-wash	N	
D.1.f	Laboratory facilities	N	
D.1.g	Design and location of fuel storage areas	N	
D.1.h	Waste quarantine areas	N	
D.1.i	Waste inspection areas	N	
D.1.j	Traffic control	N	
D.1.k	Sewerage and surface water drainage infrastructure	Y	See Attachment D.1.k
D.1.l	All other services	Y	See Attachment D.1.l
D.1.m	Plant sheds, garages and equipment compound	N	
D.1.n	Site accommodation	N	
D.1.o	A fire control system, including	Y	See Attachment D.1.o
D.1.p	Civic amenity facilities	N	
D.1.q	Any other recovery infrastructure	N	
D.1.r	Composting infrastructure	N	
	Construction and Demolition waste infrastructure	N	
D.1.t	Incineration infrastructure (if applicable). Provide information to fulfil Article 4 & (3) of the Incineration of Waste	N	
D.1.u	Any other infrastructure	N	

Attachment D.1

D.1.a

Site security arrangements including gates and fencing

The perimeter of the site is fully fenced with palisade fencing. The fence is checked on a regular basis. There are secure gates at the main entrance to the landfill and to the south west of Cell 0 as shown on the Site Plan DG0052/01.

D.1.b

Designs for site roads

Access to the landfill is via the RI88 Cavan-Cootehill Road through the main site entrance, and additional site entrance for maintenance purposes to the south west of Cell 0 as shown on the Site Plan DG0052/01.

D.1.k

Sewerage and surface water drainage infrastructure

Sewerage and the surface water drainage systems is shown on the Services Plan DG0053/01 and Surface Water Drainage Layout DG0056/01.

D.1.l

All other services

All other services are shown on Services Plan DG0053/01.

D.1.o

A control system, including water supply

There is a fire hydrant and fire extinguishers present on site which are to be used in the event of a fire.

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D.2 Facility Operation

In Attachment D 2 describe the plant, methods, processes and operations of the waste facility, as required by the *Guidance Note*.

	yes <input type="radio"/>	no <input checked="" type="checkbox"/>	not applicable <input type="radio"/>
--	---------------------------	--	--------------------------------------

LANDFILLS

The following Sections D3 to D7 should only be completed for Landfill Applications. Reference should be made to the Agency landfill manual 'Landfill Site Design (2000)' when completing this section.

D.3 Liner System

WASTE Application Form

Complete the following table regarding the liner system to be used for the landfill/landfill extension and detail the information requested as Attachment D.3. *Items D3c to D3g should only be completed for immediate projects only (ie Years 1 & 2).* A schedule of Liner construction activities for the medium to long term need only be listed in item D3a below, since Condition 3 of any licences granted will provide reporting requirements for any future projects.

TABLE D.3 LINER SYSTEM

		y/n	Comments
D.3.a	Provide information to fulfil Annex 1 of the Landfill Directive	Y	See Attachment D3.a
D.3.b	What type of liner system is specified?		Not Applicable
D.3.c	Has a Quality Control Plan been specified?		Not Applicable
D.3.d	Has a Quality Assurance Plan been specified?		Not Applicable
D.3.e	Have independent, third-party supervision, testing and controls been specified?		Not Applicable
D.3.f	Have basal gradients for all cells and access ramps to the cells been designed?		Not Applicable
D.3.g	Has a leak detection survey been specified?		Not Applicable

Attachment D.3a

Cell 0 is unlined and until its closure in 2001 it operated under the dilute and disperse principle.

Cell 1 is north west of Cell 0 and was constructed during 2001/2002. This cell was fully lined during construction with a composite lining system consisting of a compacted low permeability clay layer overlain by HDPE liner. A leachate collection system was constructed for Cell 1.

The construction of Cell 2 which began in 2004 was similar to Cell 1 with a composite lining system and a leachate collection system. Waste was accepted in this cell from October 2005 to April 2007.

D.4 Leachate Management

Complete the following table detailing leachate management arrangements. Further information should be included in Attachment DA.

TABLE DA./ LEACHATE ARRANGEMENTS

	y/n	Comments
DA.a Is there a Leachate Management Plan?	Y	See Attachment DA
D.4.b Have annual quantities of leachate been calculated?	Y	See Attachment DA
D.4.c Has the total quantity of leachate been calculated?	y	See Attachment DA Section 2
D.4.d Have the size of the cells been specified taking account of the water balance calculations?	y	See Attachment DA Leachate Management Plan
D.4.e Has a leachate collection system been specified?	y	See Attachment DA Leachate Management Plan
D.4.f Has a leachate storage system been specified?	y	See Attachment DA Leachate Management Plan
DA.g Has a system for monitoring the level of leachate in the waste been designed?	y	See Attachment DA Leachate Management Plan
DA.h Is leachate recirculation proposed/practised?	N	
DA.i Has leachate treatment on-site been specified?	N	
DA.j Has leachate been	y	See Attachment DA Leachate Management Plan

D 5 Landfill Gas Management

All landfill sites should have suitable arrangements for the management of landfill gas. Attachment D.S should contain the appropriate documentation. Information provided should follow the sequence, and use the headings, established in Table D.5. *Items D5g to D5m should only be completed for immediate or current gas collection projects only (ie Years 1 & 2).* A schedule of gas management aspects for the medium to long term need only be listed in item D5f below, since Condition 3 of any proposed decision/licence will provide reporting requirements for any future projects.

Table D.S. Gas Management

		y/n	Comments
D.Sa	Is there a Gas Management Plan? Provide estimates of the volumes of gas to be produced by the waste disposed of in the site for the next 20 years, and compare to the EPER list for methane:	Y	See Attachment D.S Landfill Gas Management Plan
D.5b	Is there a passive venting system?	N	
D.5c	Does the passive system cover all of the filled area?	N	
D.5d	Have gas alarm systems been installed in the site buildings?	Y	See Attachment D.S Landfill Gas Management Plan
D.5e	Have measures been installed to prevent landfill gas migration (e.g. barriers)?	Y	See Attachment D.5 Landfill Gas Management Plan
D.5f	Has a time-scale been proposed for the installation of landfill gas infrastructure?		Not Applicable
D.5g	Is gas flaring undertaken at the site?	Y	See Attachment D.5 Landfill Gas Management Plan
D.5h	Is there an active (i.e., pumped) landfill gas extraction system?	Y	See Attachment D.5 Landfill Gas Management Plan
D.5i	Does the active system cover all of the filled area?	Y	See Attachment D.5 Landfill Gas Management Plan
D.5j	Is landfill gas used to generate energy at the site?	N	See Attachment D.5 Landfill Gas Utilisation Report
D.5k	Have emissions from the flarestack and utilisation plant been assessed for source, composition, quantity and level and rate?	Y	See Attachment D.5 Landfill Gas Utilisation Report
D.5l	Has a maintenance programme for the control system been specified?	Y	See Attachment D.5 Landfill Gas Management Plan
D.5m	Has a condensate removal system been designed?	Y	See Attachment D.5 Landfill Gas Management Plan

D.6 Capping System

Complete the following table detailing the design of the capping system. Attachment D.6 should contain the appropriate documentation. *Items D6e to D6k should be completed for immediate projects only (ie Years 1 & 2).* Condition 10 of any proposed decision/licence will provide reporting requirements for capping requirements beyond this timeframe.

Table D.6 Capping System

		Y/N	Comments
D.6a	Has been specified?		Not Applicable
D.6b	Has the intermediate cover		Not Applicable
D.6c	Has the temporary capping been specified?		Not Applicable
D.6d	Has the System been does it meet the requirements of the Landfill Directive 1 (3.3)?	Y	See Attachment D.6d
D.6e	Does the Capping System include a flexible membrane liner?		Not Applicable
D.6f	Have all capping materials been specified?		Not Applicable
D.6g	Has a Method Statement for construction been produced?		Not Applicable
D.6h	Has a Quality Control Plan been produced?		Not Applicable
D.6i	Has a Quality Assurance Plan been produced?		Not Applicable
D.6j	Has a programme for monitoring landfill stability been developed?		Not Applicable
D.6k	Has a programme for monitoring landfill settlement been developed?		Not Applicable



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Attachment D6d.

Cell 0

In 2001 remediation works began on Cell 0. The landfill was regraded and capped with an impermeable capping system as per the conditions of the original Waste Licence (Reg No. 77-1).

Cell 1

Cell 1 ceased accepting waste in late 2005/early 2006 and underwent remediation. The works included the following:

- Regrading the side slopes of the existing waste mass,
- Preparation of existing surface to receive geocomposites including, where necessary, placement of a clay regulation layer,
- Placement of geocomposite gas drainage layer, LLDPE membrane liner and geocomposite surface water drainage layer,
- Placement of subsoil and topsoil, and
- Landscaping.

Cell 2

Remediation of Cell 2 began in April 2007 and work was completed in August 2007. Cell 2 was capped in a similar manner to Cell 1 as described above.

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SECTION E EMISSIONS

Give particulars of the source, location, nature, composition, quantity, level and rate of emissions arising from the activity and, where relevant, the period or periods during which such emissions are made or are to be made.

The applicant should address in particular any emission point where the substances listed in the Schedule of S.L 394 of 2004 are emitted.

E.1 Emissions to Atmosphere

Details of all point emissions to atmosphere should be supplied. Table E.1(i) (for Landfill Gas Flare emissions) must be completed for all landfills with a flare.

Table E.1(ii) and E.1(iii) for all other main emission points, including stack sources (incinerator stacks, landfill gas utilisation plants, air handling unit emissions etc.). Complete Table E.1 (iv) for minor/fugitive/ground emission points.

E.2 Emissions to Surface Waters

Attachment E.2 Tables E.2 (i) and E.2 (ii) should be completed where relevant.

See Attachment E.2 for Tables on surface water emission points SW1 and SW2.

E.3 Emissions to Sewer

Attachment E.3 Tables E.3(i) and E.3(ii) should be completed, where relevant.

E.4 Emissions to Groundwater

Describe the existing or proposed arrangements necessary to give effect to Articles 3,4,5,6, and 7 of Council Directive 80/68/EEC of 17 December 1979 on the protection of groundwater against pollution by certain dangerous substances.

Table E.4(i) should be completed, as relevant, for each source.

Supporting information should form Attachment *EA*

E.5 Noise Emissions

Give particulars of the source, location, nature, level, and the period or periods during which the noise emissions are made or are to be made.

Table E.5(i) should be completed, as relevant, for each source.

Supporting information should form Attachment E.5



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E. 6 Environmental Nuisances

Attachment E.6 should contain the appropriate documentation. Information provided should follow the sequence, and use the headings as relevant established in Table D.6. Additional advice on completing this section is provided in the *Guidance Note*.

TABLE E.6 ENVIRONMENTAL NUISANCES

Bird Control	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Dust Control	Control method specified	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
	Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Fire Control	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Litter Control	Control method specified	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
	Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Traffic Control	Control method specified	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
	Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Vermin Control	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Road Cleansing	Control method specified	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
	Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

Attachment E.6

Bird & Vermin Control Measures

As the landfill is closed bird and vermin control measures will only be employed when necessary.

Fire Control Measures

An Emergency Response Procedure is in place. Refer to Section J.

SECTION F CONTROL & MONITORING

F.1: Treatment, Abatement and Control Systems

Describe the proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the installation/facility. Details of treatment/abatement systems (air and effluent emissions) should be included, together with appropriately scaled schematics ($\leq A3$) as appropriate.

For each Emission Point identified complete Table F.1 of the Annex, and include detailed descriptions and appropriately scaled schematics of all abatement systems.

Attachment F.1 should contain any supporting information.

DG0055/01 in Attachment F shows the location of the two surface water emission points SW1 and SW2.

DG0056/01 Surface Water Drainage Layout provides details on the treatment and abatement methods for surface water runoff.

Refer to Attachment F3 for more information.

F.2- F. 9. Monitoring and Sampling Points

Programmes for environmental monitoring should be submitted as part of the application. These programmes should be provided as Attachments F.2 to F.6 and meet the advice published by the Agency in the relevant BAT Note. For Landfills the additional Attachments F.7 to F.8 should be completed. Furthermore for a landfill application the applicant must refer to the Agency *Landfill Monitoring Manual (2003)* for further details on monitoring requirements for proposed facilities.

Include details of monitoring/sampling locations and methods.

F.2 Air

- to include Dust, Odour

Monitoring specified	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	not applicable <input type="checkbox"/>
Attachment included	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	not applicable <input type="checkbox"/>

F.3 Surface Water

Monitoring of surface water shall be carried out at not less than two points, one upstream from the waste facility and one downstream.

Monitoring Arrangements specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

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12-figure grid references)	
Attachment included	yes <input checked="" type="checkbox"/> no <input type="checkbox"/> not applicable <input type="checkbox"/>

Attachment F3

Drawing DG0055/01 shows the surface water monitoring and emission locations contained in Attachment F.

Chemical Monitoring Locations			
Monitoring Point	Grid Reference	Monitoring Frequency	Analysis Method
Lismagratty Stream			
S3	245166E 309483N	Quarterly, annually	Standard Method
Corranure Stream			
S4	242407E 306009N	Quarterly, annually	Standard Method
S5	243508E 307378N	Quarterly, annually	Standard Method

Biological Monitoring Locations			
Monitoring Point	Grid Reference	Monitoring Frequency	Analysis Method
Corranure Stream			
A1	244550E 30781 ON	Annually	Standard Method
A2	244180E 307490N	Annually	Standard Method
A3	243450E 307300N	Annually	Standard Method
A4	242870E 306720N	Annually	Standard Method
A5	242410E 306020N	Annually	Standard Method
Lismagratty Stream			
B1	244120E 308450N	Annually	Standard Method
B2	244530E 308860N	Annually	Standard Method
B3	245130E 309190N	Annually	Standard Method
B4	246100E 309600N	Annually	Standard Method
B5	246600E 309700N	Annually	Standard Method

*

Emission Point	Grid Reference	Monitoring Frequency	Analysis Method
Corranure Stream			
SW1	244132E 307467N	Monthly, quarterly, annually	Standard Method
Lismagratty Stream			
SW2	244325E 308642N	Monthly, quarterly, annually	Standard Method

The parameters to be analysed are listed in the current Waste Licence 77-02 in Table D.5.I.

F.4 Sewer Discharge

Monitoring of sewer discharge shall be carried out at the point specified by the local authority/Agency.

specified	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>

F.5 Groundwater

Groundwater monitoring is required at all landfill facilities; and certain other waste facilities depending on waste activities and the underlying aquifer vulnerability.

Monitoring Arrangements specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

Attachment FS

Drawing DG0055/01 shows the groundwater well and private well monitoring locations contained in Attachment F.

Monitoring Point	Grid Reference	Monitoring Frequency	Analysis Method
GW01	244519E 307729N	Monthly, quarterly, annually	Standard Method
GW02	244232E 307511N	Monthly, quarterly, annually	Standard Method
GW04	243981E 308127N	Monthly, quarterly, annually	Standard Method
GW05	244099E 308415N	Monthly, quarterly, annually	Standard Method
GW06	244422E 308130N	Monthly, quarterly, annually	Standard Method
GW07	244550E 307964N	Monthly, quarterly, annually	Standard Method
GW08	244841E 307862N	Monthly, quarterly, annually	Standard Method
GW09	244415E 307966N	Monthly, quarterly, annually	Standard Method

Monitoring Point	Grid Reference	Monitoring Frequency	Analysis Method
PW02	244513E 308125N	Annually	Standard Method
PW05-BT	244157E 307500N	Annually	Standard Method
PW08	244990E 307676N	Annually	Standard Method
PW09	245025E 307632N	Annually	Standard Method
PW10	245053E 307601N	Annually	Standard Method
PW11	244982E 307631N	Annually	Standard Method
PW13	244665E 307809N	Annually	Standard Method

PW15	243955E 307605N	Annually	Standard Method
PW16	245033E 307614N	Annually	Standard Method

The parameters to be analysed are listed in the current Waste Licence 77-02 in Table D.5.1.

F.6 Noise

Monitoring Arrangements specified	yes <input type="checkbox"/> D	no <input checked="" type="checkbox"/> D	not applicable <input type="checkbox"/> D
Monitoring points identified, (plus 12-figure grid references)	yes <input type="checkbox"/> D		not applicable <input type="checkbox"/> D
Attachment included	yes <input type="checkbox"/> D		not applicable <input type="checkbox"/> D

F.7 Meteorological Data

Monitoring Arrangements specified	yes <input type="checkbox"/> D		not applicable <input type="checkbox"/> D
Monitoring points identified, (plus 12-figure grid references)	yes <input type="checkbox"/> D		not applicable <input type="checkbox"/> D
Attachment included	yes <input type="checkbox"/> D		not applicable <input type="checkbox"/> D

Application for Landfills require the additional Attachments F.7 to F.8, to be completed:

F.8 Leachate

Monitoring Arrangements specified	yes <input checked="" type="checkbox"/> D	no <input type="checkbox"/> D	not applicable <input type="checkbox"/> D
Monitoring (plus references)	yes <input checked="" type="checkbox"/> D	no <input type="checkbox"/> D	not applicable <input type="checkbox"/> D
Attachment included	yes <input checked="" type="checkbox"/> D	no <input type="checkbox"/> D	not applicable <input type="checkbox"/> D

Attachment F8

Drawing DG0055/01 shows the leachate monitoring locations contained in Attachment F.

The leachate storage tank is analysed on an annual basis for qualitative parameters.

The leachate levels are monitoring continuously and the following leachate wells and leachate sumps are connected up to the telemetry system.

Monitoring Point	Grid Reference	Monitoring Frequency
LG03	244343E 307755N	Continuous

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LG04	244352E 307716N	Continuous
LG11	244307E 307664N	Continuous
LGB	244271E 307629N	Continuous
LG20	244280E 307806N	Continuous
LG21	244263E 307776N	Continuous
LG24	244301 E 307830N	Continuous
LP2	244142E 307914N	Continuous
LPO	244352E 307813N	Continuous
FLP3	244221 E 307822N	Continuous
Leachate Storage Tank	244383E 307879N	Annual

The parameters to be analysed are listed in the current Waste Licence 77-02 in Table D.5.I.

F.9 Landfill Gas

Complete each of the following tables to show whether information has been included on aspects of landfill gas monitoring. Attachment F.9 should also contain information to show whether the data given in Tables F.9.(a) and F.9(b) below represents actual or anticipated data. Complete Table F.9 as follows:

Table F.9 (a) Landfill Gas Monitoring for existing landfill gas flares / utilisation plants

Parameter	Consent	Information	Method of	Information
	Required	Required	Analysis	Required
Inlet				
Methane (CH ₄) % v/v				
Carbon dioxide (CO ₂) % v/v				
Oxygen (O ₂) % v/v				
Outlet				
Volumetric Flow Rate				
S02				
Nox				
CO				
Particulates				
TA Luft Class I, II, III organics				
Hydrochloric acid				
Hydrogen Fluoride				

Table F.9(b) Landfill Gas Monitoring

Parameter	Proposed Frequency of Analysis	Location	Information	Method of Analysis	Information
	Gas boreholes / vents/ wells/ perimeter locations	Facility Office	N		N
Methane (CH ₄) % v/v	Monthly	Not Applicable	N	Infrared analyser/ Flame Ionisation detector	N
Carbon Dioxide (CO ₂) % v/v	Monthly		N	As above	N



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Oxygen (O ₂) % v/v	Monthly		N	Electrochemical	N
Atmospheric Pressure	Monthly		N	Standard	N
Temperature	Monthly		N	Standard	N

Table F.9 (c) Landfill Gas Infrastructure

Equipment	Monitoring Program	Information Included Y/N	Monitoring Action	Information Included Y/N
Gas Collection System	Weekly checks or as required	N	Suction pressure on the line is checked: Concentrations of	N
Gas Control System	Weekly checks or as required	N	methane, carbon dioxide, oxygen and the remaining balance of gases are measured at each well. Then each well is balanced accordingly and the flare is adjusted with the amount of as available.	N

Monitoring Arrangements specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	noD	not applicableD
Monitoring points identified, (plus 12-figure grid references)	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	noD	not applicableD
Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	noD	not applicableD

Attachment F9

Drawing DG0055/01 contained in Attachment F shows the landfill gas wells within the waste body (Cell 0, 1 and 2) and the landfill perimeter gas wells around the landfill.

Landfill Gas wells within Waste Body	
Monitoring Point	Grid Reference
LG01	244299E 307803N
LG09	244350E 307691N
LG16	244295E 307724N
LG19	244262E 307791N
LG26	244228E 307854N
LG36	244238E 307908N

Landfill Perimeter Gas Wells	
Monitoring Point	Grid Reference
GW01	244519E 307729N
GW04	243981E 308127N
GW05	244099E 308415N
GO1	244231E 307545N
G02	224298E 308020N

G03	244329E307919N
G04	244368E 307898N
G05	244428E 307883N
G11	244125E 307903N
G12	244220E 307783N
G13	244222E 307633N
G14	244428E 307818N
G15	244379E 307811N

SECTION G RESOURCES USE & ENERGY EFFICIENCY

G.1 Raw Materials, Substances, Preparations and Energy

Attachment G.t should contain a list of all raw, product and ancillary materials, substances, preparations, fuels and energy which will be utilised in or produced by the activity. Information on any insecticides, herbicides or rat poisons etc. should also be provided with their respective data and safety sheets. The Standard Forms, provided in Annex 1, should be used in the description of these materials, substances, etc., where relevant. Additional advice on completing this section is provided in the *Guidance Note*.

Attachment included	yes <input checked="" type="checkbox"/> noD not applicableD
----------------------------	---

Attachment G.t

A total of 162,865 kWh of electricity were used at the facility throughout 2007.

Fuel usage for the year amounted to 89,468 litres of diesel.

G.2 Energy Efficiency

A description of the energy used in or generated by the activity must be provided in Attachment G.2.

Attachment included	yes <input checked="" type="checkbox"/> noD not applicableD
----------------------------	---

Attachment G.2

Currently landfill gas is not utilised as an energy source at the landfill. Options regarding future gas utilisation will be considered.

SECTION H MATERIALS HANDLING

H.1 Waste Types and Quantities - Existing & Proposed

Provide an estimation of the quantity of waste likely to be handled in relation to each class of activity applied for. This information should be included in Table H.1(a).

TABLE H.I(A). QUANTITIES OF WASTE IN RELATION TO EACH CLASS OF ACTIVITY APPLIED FOR

Waste Management Act 3rd Schedule (Disposal) Activities		Waste Management Act 4th Schedule (Recovery) Activities	
Class of Activity Applied For	Quantity (tpa)	Class of Activity Applied For	Quantity (tpa)
Class 1		Class 1	
Class 2		Class 2	
Class 3		Class 3	
Class 4		Class 4	
Class 5	Not Applicable	Class 5	Not Applicable
Class 6		Class 6	
Class 7		Class 7	
Class 8		Class 8	
Class 9		Class 9	
Class 10		Class 10	
Class 11		Class 11	
Class 12		Class 12	
Class 13		Class 13	

In Table H. 1 (B) provide the annual amount of waste handled/to be handled at the facility. Additional information should be included in Attachment H.I. The tonnage per annum should be given of that expected for the life of the licence, with at least the next five years tonnages provided. For Landfill Review applications provide an estimate of the quantity of waste already deposited in (i) lined cells; (ii) unlined cells.

TABLE H.I(B) ANNUAL QUANTITIES AND NATURE OF WASTE

Year	Non-hazardous waste (tonnes per annum)	Hazardous waste (tonnes per annum)	Total annual quantity of waste (tonnes per annum)
(i) Lined Cells Cell 1 & 2	189,053		
(ii) Unlined Cell Cell 0	300,000		

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A detailed inventory of the types and quantities of wastes currently handled at the site and proposed to be handled should be submitted as Table H.1 (C).

TABLE H.1 (C) WASTE TYPES AND QUANTITIES

WASTE TYPE	TONNES PER ANNUM (existing)	TONNES PER ANNUM (proposed)	TOTAL (over life of site) tonnes
Household	Not Applicable		
Commercial			
Sewage Sludge			
Construction and Demolition			
Industrial Non-Hazardous Sludges			
Industrial Non-Hazardous Solids			
Hazardous *(Specify detail in Table H 1.2)			
Inert Waste imported for restoration purposes	COMPLETION FOR LANDFILL & CONTAINMENT FACILITIES ONLY		

*** TABLE H.1.2 HAZARDOUS WASTE TYPES AND QUANTITIES**

HAZARDOUS WASTE	* REFERENCE SHOULD BE MADE TO THE RELEVANT EUROPEAN WASTE CATALOGUE CODES AS PRESENTED BY COMMISSION DECISION 2000/532/EC	Tonnes Per Annum (Existing)	(Tonnes Per Annum Proposed)
Waste Oil	Not Applicable		
Oil			
Asbestos			
Paint and Ink			
Batteries			
Fluorescent Light Bulbs			
Contaminated Soils			
OTHER HAZARDOUS WASTE (APPLICANT TO SPECIFY)			

Attachment H.1 should contain any relevant additional information.

It should be noted that an applicant may be issued with a licence which restricts the type of wastes which may be deposited.

Note: Sections H.2, H.3 and *HA* are Not Applicable.

H.2 Waste Acceptance Procedures

Procedures for checking waste loads as they arrive at the facility must be included. These should follow the requirements of the Agency's Waste Acceptance Manual. A copy of these procedures and other associated documentation should be included as Attachment H.2.

H.3 Waste Handling

Waste handling and the operating procedures used at the facility including waste treatment processes should be described in Attachment H.3. Included in the attachment should be information on the plant used on site and on the methods and processes for handling waste on-site. Special requirements hold for contaminated soil facilities, see *Guidance Note*.

In addition, an application for a Landfill requires Section H.3.a to be completed:

H.3a Waste Handling at the Landfill Facility

State whether all waste will be subject to treatment prior to landfilling. Provide information as to the quantities of biodegradable municipal waste and how the targets of the Landfill Directive (1999/31/EC) relating to that waste type are to be achieved. In particular describe how the following will be achieved:

- (a) a reduction by 16/07/06 to 75% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;
- (b) a reduction by 16/07/09 to 50% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;
- (c) a reduction by 16/07/16 to 35% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;
- (d) Evidence should be provided to show that energy will be used efficiently.

HA Waste Arisings

Waste Arisings should be considered for all contaminated soil applications. Details of all waste materials generated on the site including, name, description and nature as well as the source(s) should be identified. The quantities of each type of waste generated on an annual/monthly basis should be calculated and stated in Tables

H.1(i) and H. 1(ii) of the application form. Applicants should also provide conversion factors used to relate volume (m³) and tonnage (t) for their waste stream.

SECTION I EXISTING ENVIRONMENT & IMPACT OF THE FACILITY

Detailed information is required to enable the Agency to assess the existing environment. This section requires the provision of information on the ambient environmental conditions at the site prior to the commencement of waste management activities or prior to the receipt of a review application.

Where development is proposed to be carried out, being development which is of a class for the time being specified under Article 24 (First Schedule) of the Environmental Impact Assessment Regulations, the information on the state of the existing environment should be addressed in the EIS. In such cases, it will suffice for the purposes of this section to provide adequate cross-references to the relevant sections in the EIS.

L1. Assessment of atmospheric emissions

Describe the existing environment in terms of air quality with particular reference to ambient air quality standards.

Provide a statement whether or not emissions of main polluting substances (as defined in the Schedule of S.L 394 of 2004) to the atmosphere are likely to impair the environment.

summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Attachment 1.1 should also contain full details of any dispersion modelling of atmospheric emissions from the activity, where required.

Not Applicable

1.2. Assessment of Impact on Receiving Surface Water

Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Table L2(i) should be completed

Provide a statement whether or not emissions of main polluting substances (as defined in the Schedule of S.L 394 of 2004) to water are likely to impair the environment.

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

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Full details of the assessment and any other relevant information on the receiving environment should be submitted as Attachment 1.2.

Attachment 1.2

Surface water in the region of the landfill facility includes two streams; the Lismagratty Stream running north of the facility and the Corranure Stream running south west of the facility. Both streams are tributaries of the Analee River which flows into Lough Oughter forming part of the Upper and Lower Lough Erne system. Corranure Stream is classified as a high local value fishing stream on the basis of having good potential salmonid nursery habitats. However in 2003 electrofishing was carried out on this stream and no salmonid species of fish were noted.

Four surface water sampling locations (K1, K2, K3, K4) on Corranure Stream and one surface water sampling location (A2) on the Lismagratty Stream were chemically analysed on a quarterly basis in 2007 and parameters which require to be analysed on an annual basis are monitored during the fourth quarter. In addition a biological assessment of ten stream locations (A1 – A5, Corranure Stream and B1 - B5 Lismagratty Streams) was completed in October 2007. A new naming system for the surface water monitoring points was formulated in 2008. K1 and K4 have been discontinued but were located at the landfill upstream of K2. K2 is now called S5 and K3 is now called S4. A2 is now called S3. The locations of the various surface water monitoring locations are shown in Drawing DG0055/01 in Attachment F.

Surface Water Monitoring 2007 - Chemical Monitoring

Non compliances were recorded in 2007 at K2 and K3 on the Corranure Stream in relation to Ammonia, BOD, Chloride, Suspended Solids and Conductivity.

Surface Water Discharge Point SW1 which discharges into the Corranure Stream exceeded the emission limit of 35 mg/l for Suspended Solids (as per Schedule C3 of the Waste Licence) in the 1st, 2nd and 3rd quarters (225 mg/l, 364 mg/l and 50 mg/l).

Surface Water Monitoring 2007 - Biological Monitoring

In October 2007 a detailed biological assessment was undertaken on watercourses in the vicinity of Corranure Landfill. Macroinvertebrate surveys were carried out at 10 no. sites; 5 no. (A1 - A5) on the Corranure Stream and 5 no. (B1 - B5) on the Lismagratty Stream.

The monitoring sites A1 and B1 could not be sampled as these locations were dry. Overall in comparison with the biological assessment carried out in 2006 there has been no change on the Lismagratty stream with a Q3 rating at monitoring sites B2-B5. On the Corranure stream there was no change at monitoring site A2 (Q2 rating). There was an improvement in the water quality at site A3 from a rating of Q2 to Q3, seriously polluted to moderately polluted. Monitoring sites A4 and A5 have shown a decrease in water quality from a rating of Q2-3 and Q3 to Q2.

Surface Water Monitoring 2008 - Chemical Monitoring

In 2008 to date (1st, 2nd and 3rd quarters) non compliances were recorded at **K2** and **K4** on the Corranure Stream for Suspended Solids. The standard limit for Suspended Solids is 35 mg/l and on two occasions at **K2** (85 mg/l and 166 mg/l) and on one occasion at **K4** (144 mg/l) non compliances were recorded. **A2** on the Lismagratty Stream was also non compliant with Suspended Solids on one occasion at a level of 65 mg/l. **SW1** and **SW2** discharge points were also over the standard limit for Suspended Solids on one occasion with levels of 152 mg/l and 132 mg/l. These non compliances for suspended solids were probably due to high rainfall. The only other non compliances for Surface Water were recorded at **A2** for BOD with a concentration of 7 mg/l and **SW1** for Ammonia with a concentration of 0.38 mg/l which are both slightly higher than the standard limits (5 mg/l and 0.2 mg/l). Improvement/remedial works at the landfill were carried out in 2007 and as a result in 2008 significant improvements in the quality of the Surface Water is evident.

1.3. Assessment of Impact of Sewage Discharge.

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Full details of the assessment and any other supporting information should form Attachment 1.3.

Not Applicable

1A Assessment of impact of ground/groundwater emissions

The scope and detail of this assessment will depend to a large extent on the extent and type of ground emissions at any site, which in turn are related to the risk. Details should be included in Attachment 1.4. Comprehensive guidelines are contained in the *Application Guidance Note*, and include particular requirements for landfill and brownfield facilities.

Describe the existing groundwater quality. Tables 1.4(i) should be completed.

1.5 Ground and/or groundwater contamination

Summary details of known ground and/or groundwater contamination, historical or current, on or under the site must be given.

Full details including all relevant investigative studies, assessments, or reports, monitoring results, location and design of monitoring installations, appropriately scaled plans, drawings documentation, including containment engineering, remedial works, and any other supporting information should be included in Attachment 1.5.

Attachment 1.5

A hydrogeological investigation was carried out in and around the landfill in 2003 and demonstrated that the risk of pollution to the groundwater within the area of the landfill lies within zone R2¹ of the Geological Survey of Ireland's (GSI) classification for groundwater protection. This means that in terms of groundwater protection, landfills are acceptable in the area although engineering measures are likely to be necessary to provide adequate protection to the groundwater. Groundwater flow is north northeast in direction.

In accordance with the waste licence, groundwater monitoring is required up gradient and down gradient of the landfill within and around the parameter of the facility and at private wells within 500 metres of the landfill.

Groundwater Monitoring 2007

The locations of the various groundwater monitoring locations are shown in Drawing DG0055/01 in Attachment F.

GW01 is located at the south-eastern corner of the remediated landfill and at the entrance to the facility. The groundwater was coloured and turbid on all sampling occasions but the level of iron was much lower than that recorded last year (6.0 mg/l in Q4 2007 as compared to 22.58 mg/l noted in the 3rd Quarter of 2006). Elevated levels of chloride were recorded in the 3rd and 4th quarters (49.8 mg/l and 51.4 mg/l respectively) and during annual sampling (85.7 mg/l). During annual sampling, 20 no. Faecal Coliforms were detected in this borehole.

GW04 is located on the north western corner of the site. This location exhibited some evidence of microbiological contamination with 411 no. Total Coliforms and 2 no. Faecal Coliforms recorded during annual sampling. The level of chloride was slightly above the recommended standard of 30mg/l in the 3rd quarter of 2007 and in annual sampling carried out in the 4th quarter (34.4 mg/l and 35.9 mg/l respectively). There were no exceedences of any other relevant parameters at this sampling point. Groundwater samples were turbid and coloured on all sampling occasions.

GW05 is located to the north of the site. This location also showed signs of microbiological contamination with 276 no. Total Coliforms and 4 no. Faecal Coliforms recorded during annual sampling. An elevated level of Chloride was also recorded during the 3rd quarter (61.8 mg/l). Groundwater samples were turbid and straw-coloured on inspection in the 3rd and 4th quarters and turbid and coloured during annual sampling.

Groundwater levels remained fairly constant throughout the year, with the greatest change occurring at GW04, where levels varied from 13.3 m in October 2007 to 1.3 m in December 2007.

In summary, all groundwater monitoring locations recorded non-compliances in relation to Coliforms and Chloride. GW01 also showed elevated levels of Iron.

Access was obtained to the private well locations PW8, PW9, PW10, PW11, PW13, PW15, and PW16. PW05 BT was sampled during quarterly monitoring but was not sampled for annual parameters. Quarterly monitoring involved sampling for levels of Dissolved Oxygen and Chloride, as well as visual and olefactory inspection. Annual sampling of various other parameters was carried out in the 4th Quarter.

During the year all waters were clear and odourless except for PW 05 BT, PW8 and PW10, in which a straw colour was noted during quarterly sampling. PW10 also exhibited some colour on visual inspection during annual sampling, possibly due to a slightly elevated level of manganese detected. Two well locations, PW09 and PW16, exhibited elevated levels of Chloride in the 1st Quarter (38.85 mg/l at both locations) but returned to normal levels in subsequent sampling occasions. PW13 had normal levels of Chloride throughout the year but a slightly elevated level (41.1 mg/l) was recorded during annual sampling. Only one of the wells, PW13, exhibited evidence of microbiological contamination, with 179 no. Total Coliforms and 34 no. Faecal Coliforms 1 no. of Total Coliforms was recorded at PW10.

With the exception of elevated levels of coliforms at some of the locations and some locally high concentrations in Chloride, the quality of the water met the criteria as outlined in the European Communities (Drinking Water) (No. 2) Regulations, 2007.

Groundwater Monitoring 2008

In 2008 to date (1st, 2nd and 3rd quarters) non-compliances were recorded at GW01 on two occasions and at GW04 on one occasion for Chloride with levels of 111 mg/l and 33 mg/l and 121 mg/l respectively. The standard limit for Chloride is 30 mg/l. All other parameters were under the required limits.

1.6 Noise Impact.

Give details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Ambient noise measurements

Complete Table 1.6(i) in relation to the information required below:

- (i) State the maximum Sound Pressure Levels which will be experienced at typical points on the boundary of the operation. (State sampling interval and duration)
- (ii) State the maximum Sound Pressure Levels which will be experienced at typical noise sensitive locations, outside the boundary of the operation.
- (iii) Give details of the background noise levels experienced at the site in the absence of noise from this operation.



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Prediction models, appropriately scaled maps (≤ A3), diagrams and supporting documents, including details of noise attenuation and noise proposed control measures to be employed, should form Attachment 1.6.

Not Applicable

1.7 Assessment of Ecological Impacts & Mitigation Measures

The ecology of the site and the surrounding area should be assessed in the vicinity of the large scale waste facilities such as landfill or incinerator developments. An assessment of the ecology should form Attachment 1.7. Comprehensive guidelines are contained in the Application Guidance Note

Attachment 1.7

In 2003 an ecological assessment of the lands surrounding Corranure Landfill was carried out by Roger Goodwillie & Associates on behalf of Cavan County Council as part of the EIS that accompanied the previous Waste Licence Review Application. No habitats of significant importance were identified surrounding the landfill and the nearest designated site is Drumkeen House Woodland, proposed Natural Heritage Area (p NHA) which is located 2.9km from Corranure Landfill. Lough Oughter which is designated as a Special Area of Conservation (SAC), Natural Heritage Area (NHA) and Special Protection Area (SPA) is located 3.6km from the landfill.

SECTION J ACCIDENT PREVENTION & EMERGENCY RESPONSE

Describe the existing or proposed measures, including emergency procedures, to minimise the impact on the environment of an accidental emission or spillage.

Also outline what provisions have been made for response to emergency situations outside of normal working hours, i.e. during night-time, weekends and holiday periods.

Describe the arrangements for abnormal operating conditions including start-up, leaks, malfunctions or momentary stoppages.

Supporting information should form Attachment J.

Attachment included yes no not applicable

SECTION K. REMEDIATION, DECOMMISSIONING, RESTORATION AND AFTERCARE

Describe the existing or proposed measures to minimize the impact on the environment after the activity or part of the activity ceases operation, including provision for post-closure care of any potentially polluting residuals.

For Landfill Applications, capping proposals are required, and reference should be made to the *Landfill Manual on Restoration and Aftercare* published by the Agency, when completing this section.

Attachment included yes no not applicable

A Closure Restoration & Aftercare Plan (CRAMP) was prepared in August 2007 for Cells 0, 1 and 2 of Corranure Landfill and is shown in Attachment K.

L. STATUTORY REQUIREMENTS

L. t Section 40(4) WMA

Indicate how all the requirements of Section 40(4)[(a) to (i)] of the Waste Management Acts 1996 to 2003 will be met.

Applicants should also describe how the proposed facility will comply with the requirements of BAT. In particular reference should be made to the considerations referred to in Annex IV of Council Directive 96/61/EC concerning integrated pollution prevention and control.

WASTE Application Form

Attachment L.t should contain the documentation requested above, along any relevant additional information.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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Attachment L.t

Cavan County Council has sufficient funds to manage the remediated landfill. Cavan County Council are fully aware of their environmental responsibilities and realise that financial provisions maybe required for decommissioning, aftercare and environmental pollution incidents.

£.2 Fit and Proper Person

The WMA in Section 40(4)(d) specifies that the Agency shall not grant a licence unless it is satisfied that the applicant (if the applicant is not a local authority) is a fit and proper person. Section 40(7) of the WMA specifies the information required to enable a determination to be made by the Agency.

- Indicate whether the applicant or other relevant person has been convicted under the Waste Management Acts 1996 to 2003, the EPA Act 1992 and 2003, the Local Government (Water Pollution) Acts 1977 and 1990 or the Air Pollution Act 1987.
- Provide details of the applicant's technical knowledge and/or qualifications, along with that of other relevant employees (Link to Section C.1 of the application).
- Provide information to show that the person is likely to be in a position to meet any financial commitments or liabilities that may have been or will be entered into or incurred in carrying on the activity to which the application relates or in consequence of ceasing to carry out that activity (Link to Section K of the application).

Supporting information should be included as Attachment L2 with reference to where the information can be found in the application.

Attachment L2 included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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Attachment L2

The applicant has two prosecutions under Sections 39 (1) and 39 (9) of the Waste Management Act 1996 from the 8th December 2005 and 27th September 2007.

Details of the applicant's technical knowledge and/or qualifications are contained in Section C.I.



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Cavan County Council are in a position to meet any financial commitments and/or liabilities that may arise from the closed landfill.

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SECTION M DECLARATION

Declaration

I hereby make application for a licence / revised licence, pursuant to the provisions of the Waste Management Acts 1996 to 2003 and Regulations made thereunder.

I certify that the information given in this application is truthful, accurate and complete.

I give consent to the EPA to copy this application for its own use and to make it available for inspection and copying by the public, both in the form of paper files available for inspection at EPA and local authority offices, and via the EPA's website. This consent relates to this application itself and to any further information, submission, objection, or submission to an objection whether provided by me as Applicant, any person acting on the Applicant's behalf, or any other person.

Signed by: John Brannigan
(on behalf of the organisation)

Date : 4-9-2008

Print signature name: JOHN BRANNIGAN

Position in organisation PROJECTS MANAGER

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