WARNING

IF YOUR ACTIVITY FALLS UNDER THE INDUSTRIAL EMISSIONS DIRECTIVE 2010/75/EU

DO NOT USE THIS APPLICATION FORM.

PLEASE REFER TO THE ENVIRONMENTAL PROTECTON AGENCY (INDUSTRIAL EMISSIONS) (LICENSING) REGULATIONS 2013, S.I. 137 OF 2013

AND

THE EUROPEAN UNION (INDUSTRIAL EMISSIONS) REGULATIONS 2013, S.I. 138 OF 2013.

CONTACT THE ENVIRONMENTAL LICENSING PROGRAMME FOR FURTHER INFORMATION.

Waste Licence Application Form

*ELECTRONIC COPIES OF THE APPLICATION **MUST** BE SUBMITTED IN ACCORDANCE WITH THE "INSTRUCTIONS FOR LICENCE APPLICANTS" DOCUMENT AT THE LINK BELOW.*

FAILURE TO DO SO MAY RESULT IN A DELAY IN PROCESSING YOUR APPLICATION.

http://www.epa.ie/pubs/forms/lic/waste/epainstructionstolicenceapplicants.html

EPA Ref. Nº: *(Office use only)*	

This document does not purport to be and should not be considered a legal interpretation of the provisions and requirements of the Waste Management Act 1996 as amended.

Environmental Protection Agency
P.O.Box 5000, Johnstown Castle Estate, County Wexford
Telephone: 053-9160600 Fax: 053-9160699

Tracking Amendments to Application Form

Version No.	Date	Amendment since previous version	Reason
V.1	04/09/2012	Amended various sections to take account of the requirements of the European Communities (Waste Directive) Regulations 2011.	To accurately reflect the new requirements in the Regulations which transpose the Waste Framework Directive 2008/98/EC.
V.1	04/09/2012	Amended Section E.5 Noise Emissions, I.7 Noise Impact, Table E.5.(i) and Table I.7.(i) to take account of the document Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4) (2012).	To accurately reflect the changes in the document Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4) (2012).
V.1	04/09/2012	Amended Section B.3 to take account of the requirements of European Union (Environmental Impact Assessment) (Waste) Regulations 2012 (SI No 283 of 2012); in terms of Environmental Impact Assessment under the Environmental Impact Assessment Directive (Council Directive 2011/92/EU on the assessment of the effects of certain public and private projects on the environment). Update references to new legislation	To accurately reflect the European Union (Environmental Impact Assessment) (Waste) Regulations 2012 (SI No 283 of 2012) requirements. To reflect changes in legislation
V.2	June 2015	Amendments to Section A Amendments to Section B.3	To require summary table of impacts in Non-Technical summary Additional requirements in relation to planning history and the

		New Section B.9	submission of EISs. Additional information required in relation to waste storage and closure costs.

Environmental Protection Agency
Application for a Waste Licence

WASTE MANAGEMENT ACT 1996 as amended

CONTENTS

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.I. 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 correspondence 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 B1 B2	
CHECKED	**Applicant** ☒	**Official** ☐

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

LOCATION	Section B3	
CHECKED	**Applicant** ☒	**Official** ☐

(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 B4	
CHECKED	**Applicant** ☒	**Official** ☐

(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 B2	
CHECKED	**Applicant** ☒	**Official** ☐

(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,

LOCATION	Attachment B	
CHECKED	**Applicant** ☒	**Official** ☐

(f) specify the class or classes of activity concerned, in accordance with the Third and Fourth Schedules of the Act[1] 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	Attachment B 7	
CHECKED	**Applicant** ☒	**Official** ☐

(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	Attachment B 7	
CHECKED	**Applicant** ☒	**Official** ☐

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

LOCATION	Attachment G	
CHECKED	**Applicant** ☒	**Official** ☐

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

LOCATION	Attachment D	
CHECKED	**Applicant** ☒	**Official** ☐

(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	Attachment L	
CHECKED	**Applicant** ☒	**Official** ☐

[1] Note that the Third and Fourth Schedules of the Act were amended by the European Communities (Waste Directive) Regulations, 2011.

(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	Attachment E	
CHECKED	**Applicant** ☒	**Official** ☐

(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	Attachment E	
CHECKED	**Applicant** ☒	**Official** ☐

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

LOCATION	Attachment E	
CHECKED	**Applicant** ☒	**Official** ☐

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

LOCATION	Attachment H	
CHECKED	**Applicant** ☒	**Official** ☐

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

LOCATION	Attachment H	
CHECKED	**Applicant** ☒	**Official** ☐

(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	Attachment J	
CHECKED	**Applicant** ☒	**Official** ☐

(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	Attachment K	
CHECKED	**Applicant** ☒	**Official** ☐

(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	Attachment K	
CHECKED	**Applicant** ☒	**Official** ☐

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

LOCATION	Attachment K	
CHECKED	**Applicant** ☒	**Official** ☐

(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.I. No. 476 of 2000) apply,

LOCATION	Section B8	
CHECKED	**Applicant** ☒	**Official** ☐

(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	Attachment A Attachment E	
CHECKED	**Applicant** ☒	**Official** ☐

(t bis) describe in outline the main alternatives, if any, to the proposals contained in the application which were studied by the applicant,

LOCATION	Attachment D	
CHECKED	**Applicant** ☒	**Official** ☐

(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	
CHECKED	**Applicant** ☒	**Official** ☐

(v) describe how the waste hierarchy in section 21A of the Act is applied.

LOCATION	Attachment B	
CHECKED	**Applicant** ☒	**Official** ☐

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	
CHECKED	**Applicant** ☒	**Official** ☐

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

LOCATION	Attachment B	
CHECKED	**Applicant** ☒	**Official** ☐

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

LOCATION	Attachment B	
CHECKED	**Applicant** ☒	**Official** ☐

(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	
CHECKED	**Applicant** ☒	**Official** ☐

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

LOCATION	Attachment B E	
CHECKED	**Applicant** ☒	**Official** ☐

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

LOCATION	Attachment F	
CHECKED	**Applicant** ☒	**Official** ☐

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

INCLUDED Y/N	Yes	
CHECKED	**Applicant** ☒	**Official** ☐

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.

HARDCOPIES PROVIDED Y/N	Y	
CHECKED	**Applicant** ☒	**Official** ☐

CD OF PDF FILES PROVIDED? Y/N	Y	
CHECKED	**Applicant** ☒	**Official** ☐

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	No	
CHECKED	**Applicant** ☒	**Official** ☐
3 HARD COPIES OF EIS INCLUDED ? Y/N		
CHECKED	**Applicant** ☐	**Official** ☐
16 CD versions of EIS, as PDF files, PROVIDED? Y/N		
CHECKED	**Applicant** ☐	**Official** ☐

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. <u>The abbreviation "N/A" should not be used.</u>**

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**

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 Act 1996, as amended.

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 Act 1996, as amended.

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 1:50 000 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 Section 45 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.I. 395 of 2004.

Where an EIS is submitted as part of the licence application, summarise the likely significant effects of the activity in the following format:

Environmental Factor	**Likely effects identified**	**Brief description of effect**	**Mitigation measures proposed to control effect**
Human Beings			
Flora and fauna			
Soil			
Water			
Air			
Climate			
Landscape			
Material Assets			
Cultural Heritage			

The Non-Technical Summary should form **Attachment A.1**.

SECTION B GENERAL

B.1 Applicant's Details

Name*:	Donegal County Council
Address:	County Council
	Lifford
	Co Donegal
Tel:	074 9172222
Fax:	074 9141205
e-mail:	info@donegalcoco.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:	Julie McMahon
Address:	Donegal County Council
	County Council
	Lifford
	Co Donegal
Tel:	074 91 53900
Fax:	074 91 72812
e-mail:	julie.mcmahon@donegalcoco.ie

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

Address:	N/A
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 Companies Registration Number from the Companies Registry Office; and
c) a list of the Company Directors.

Has an Article 11 request been submitted previously in relation to this site?

Yes	☐
No	☒

If yes, please provide the Article 11 request number:-

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

Landowner	☐
Lessee	☐
Prospective Purchaser	☒
Other (please specify)	

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

Name:
Address:

Tel:
Fax:
e-mail:

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

Name: Mr Robert Smith
Address: Ballybogan
Lifford
Co Donegal

Tel:
Fax:
e-mail:
*Current at the time the application is submitted

Primary Contact details for enforcement purposes where licence is granted. PLEASE NOTE THIS CONTACT CANNOT BE A CONSULTANT. ALSO IT MUST NOT BE A PERSON WHO IS ALREADY A REGISTERED EDEN CONTACT FOR ANY OTHER LICENCE ISSUED BY THE AGENCY.
***mandatory fields**

***Name:**	Julie McMahon
Position in organisation:	Executive Engineer
Tel:	074 91 53900
***e-mail:**	julie.mcmahon@donegalcoco.ie

B.2 Location of Activity

Name:	Churchtown Landfill Site
Address*:	Churchtown
	Lifford
	Co Donegal

Tel:	
Fax:	
e-mail:	

* Include any townland

National Grid Reference (8 digit 4E,4N)	230985E 395986N

Location maps (≤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 and/or Public Authority

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

Name:	Donegal County Council
Address:	County House,
	The Diamond,
	Lifford,
	Co. Donegal, F93 Y622
Tel:	074 91 53900
Fax:	074 91 72812

Considering the entire site to which the activity relates, has planning permission ever been required for the site? (Tick No or Yes in the table)

No	√	See Section **B.6(a)** below **NOTE:** For **Agency initiated reviews**, you can disregard the instructions in B.6(a) and progress to Section B.7.
Yes		See **all** of Sections **B.6(b) to (f)** below. Please note that **all** structures comprising or for the purposes of the activity must be accounted for in the tables in sections below B.6(c) to B.6(f) below. **NOTE:** For **Agency initiated reviews**, you only need to complete the tables in Sections B.6(c), B.6(d) and B.6(e) below. You **DO NOT** need to submit an EIS or the letters on confirmation referred to below.

If this is a licence review application, was planning permission required for the changes proposed as part of this review application? (Tick No or Yes in the table)

No	√	Provide confirmation in writing from the planning authority or An Bord Pleanála that this is the case.	
Yes		Planning Ref No:	

B.6 (a) Where planning has never been required

Does this application relate to a site where planning permission has never been required?	√	**Yes**
		No
Letter of confirmation from Planning Authority or An Bord Pleanála included.	√	**Yes**

Where the activity which is the subject of this licence/review application has never required a grant of planning permission previously, **Attachment Nº B.6** must include a confirmation in writing from the planning authority or An Bord Pleanála, as the case may be, that the activity does not involve development or that the activity constitutes development but is exempted development.

B.6 (b) Environmental Impact Statements

In the following table, indicate the option which applies to your application and provide the information requested accordingly.

No.	Option	
1(a)	Is this a new licence application OR review application where the last licence (excluding reviews initiated by the EPA) was determined **before** 30th September 2012?	**Applicable? (Yes/No)**
1(b)	If yes, provide the following: Where planning permission has been/is required for the site of the activity, **you must submit the most recent EIS associated with a planning application or planning permission for the site of the activity.** Where planning is granted, the planning decision and planners report associated with the EIS should also be submitted.	**Documents Provided ? (Yes/No/n/a)**
2(a)	Is this a review application where the last licence (excluding reviews initiated by the EPA) was determined **after** 30th September 2012?	**Applicable? (Yes/No)**
2(b)	If yes, provide the following: If this is an application for a licence review, and the last licence review (not including reviews initiated by the EPA) **was determined after 30th September 2012**, you are only required to submit the most recent EIS which has arisen through the planning process **since the last licence review**. The planning decision and planners report associated with the EIS should also be submitted.	**Documents Provided ? (Yes/No/n/a)**
3(a)	Does this application relate to a site where an EIS has never been required at planning stage ?	**Applicable? (Yes/No)**
3(b)	If yes, you must provide confirmation in writing from the planning authority or An Bord Pleanála that an environmental impact assessment was not required by or under the Planning and Development Act 2000, as amended for **each** of the planning permissions associated with the site of the activity. This information should be included in **Attachment Nº B.6**.	**Documents Provided ? (Yes/No/n/a)**

B.6 (c) Planning under Consideration

Where there is currently a planning application under consideration with a Planning Authority or An Bord Pleanala for any aspect of the site to which this licence application relates:

1. Provide confirmation in writing from a planning authority or An Bord Pleanála, as the case may be, that an application for permission comprising or for the purposes of the activity to which the application for a licence relates is currently under consideration.
2. Complete the Planning under Consideration Table below, indicating whether an Environmental Impact Statement (EIS) is required by the Planning Authority/An Bord Pleanala as part of that application.
3. Where an EIS is not required by the Planning Authority/An Bord Pleanala for a planning application, you must provide confirmation in writing from the planning authority or An Bord Pleanála that an environmental impact assessment is not required by or under the Planning and Development Act 2000 in **each** case. This information should be included in **Attachment Nº B.6**.

Planning under Consideration Table:

Planning or Appeal Reference Number	Planning Authority (PA)/An Bord Pleanala (ABP)	Date of application	Brief description	Letter of confirmation from PA/ABP that application is under consideration?	EIS required with Planning Application? (Yes/No)	If "no", letter of confirmation from PA/ABP that EIA is not required?

Note: Please be advised that in accordance with Section 42(1D)(d) of the Waste Management Act 1996, as amended, a Proposed Determination **cannot** issue on a licence application while a planning application (for a development comprising or for the purposes of an activity to which the licence application relates and for which EIA is required) is under consideration with a planning authority or An Bord Pleanala.

B.6 (d) Planning Granted

Where planning permissions have been granted for the site of the activity:

1. List all of the permissions relating to the site in the Planning Granted Table below and indicate whether an EIS was required by the Planning Authority/An Bord Pleanala as part of that permission. Submit the planners report and final decision for each permission granted that was associated with an EIS.

2. Where an EIS was not required by the Planning Authority/An Bord Pleanala for a planning permission, you must provide confirmation in writing from the planning authority or An Bord Pleanála that an environmental impact assessment was not required by or under the Planning and Development Act 2000 for **each** planning permission granted. This information should be included in **Attachment Nº B.6**.

Planning Granted Table:

Planning or Appeal Reference Number	Planning Authority/An Bord Pleanala	Date of Planning Decision (Final)	Brief description	EIS required with Planning Application? (Yes/No)	If "no", Letter of confirmation from planning authority/An Bord Pleanala that EIA was not required?

Note: Please be advised that where planning permission has been granted or a planning application is under consideration, and in accordance with Section 42(1C) of the Waste Management Act 1996, as amended, the Agency shall ***refuse to consider*** the licence application if the applicant does not comply with the requirements of Section 42(1B) of the Waste Management Act 1996, as amended.

B.6 (e) Exempted Developments and structures/modifications not regarded as "development".

Where any structure or modification on site has been determined by the planning authority or An Bord Pleanála to be "exempted development" or is onsidered not to be development, provide confirmation in writing from the relevant authority. List all of the structures/modifications considered to be "exempted development" or to not involve development in the table below.

Exempted Development/No Development:

Planning Authority/An Bord Pleanala	Date of letter from PA/ABP confirming their determination	Brief description of structure/modification	Tick if exempted development	Tick if considered not to be development

B.6 (f) Other Consents Granted

List all consents (**other than planning permissions**) issued by any relevant competent authority (other than the planning authority/An Bord Pleanala) for the development relating to this application which required EIA to be carried out as part of the consent process e.g. a foreshore licence. These EISs are **not** required to be submitted with the licence application at this point.

Consent Reference Number	Competent Authority	Date of Grant of Consent	Brief description	EIS required with Consent Application?

Licences and permits

For existing activities, **Attachment Nº B.3** should also contain a table of references to all licences and permits past and presently in force at the time of submission of this application.

Licence/Permit reference number	Brief Description	Date granted	Currently in force? (Yes/No)
W0062-01	Waste Licence	19/05/2000	Yes

Appropriate Assessment

Where applicable, provide a copy of any screening for Appropriate Assessment report and Natura Impact Statement (NIS) that was prepared for consideration by any planning/public authority as defined in Regulation 2(1) of the European Communities (Birds and Natural Habitats) Regulations 2011 (S.I. No. 477 of 2011) in relation to the activity. Where a determination that an Appropriate Assessment is required has been made by any planning/public authority in relation to the activity, a copy of that determination and any screening report and Natura Impact Statement (NIS), and any supplemental information furnished in relation to any such report or statement, which has been provided to the planning/public authority for the purposes of the Appropriate Assessment shall be included in **Attachment Nº B.3.**

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:	Not Applicable
Address:	
Tel:	
Fax:	

The applicant must enclose, as **Attachment B.4,** 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 indicate the **Health Board Region** where the activity is or will be located.

Name:	HSE West
Address:	PCCC Offices
	St. Joseph's Hospital
	Stranorlar , Co. Donegal
Tel:	074 9191768
Fax:	074 9190024

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 2010, as amended by the European Communities (Waste Directive) Regulations, 2011, to which the application relates (check the relevant box(es) and mark the principal activity with a 'P').

Attachment B.7 should identify the principal 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 ACT 1996, AS AMENDED.

Waste Management Act 1996, as amended.					
Third Schedule Waste Disposal Operations		**Y/N**	**Fourth Schedule Waste Recovery Operations**		**Y/N**
D 1	Deposit into or on to land (e.g. including landfill, etc.).	Y P	R 1	Use principally as a fuel or other means to generate energy: This includes incineration facilities dedicated to the processing of municipal solid waste only where their energy efficiency is equal to or above: - 0.60 for installations in operation and permitted in accordance with applicable Community acts before 1 January 2009, - 0.65 for installations permitted after 31 December 2008, using the following formula, applied in accordance with the reference document on Best Available Techniques for Waste Incineration: Energy efficiency = (Ep - (Ef + Ei)/ (0.97x(Ew+Ef) where— 'Ep' means annual energy produced as heat or electricity and is calculated with energy in the form of electricity being multiplied by 2.6 and heat produced for commercial use multiplied by 1.1(GJ/year), 'Ef' means annual energy input to the system from fuels contributing to the production of steam (GJ/year), 'Ew' means annual energy contained in the treated waste calculated using the net calorific value of the waste (GJ/year), 'Ei' means annual energy imported excluding Ew and Ef(GJ/year), '0.97' is a factor accounting for energy losses due to bottom ash and radiation.	
D 2	Land treatment (e.g. biodegradation of liquid or sludgy discards in soils, etc.).		R 2	Solvent reclamation/regeneration.	
D 3	Deep injection (e.g. injection of pumpable discards into wells, salt domes or naturally occurring repositories, etc.).		R 3	Recycling /reclamation of organic substances which are not used as solvents (including composting and other biological transformation	

				processes), which includes gasification and pyrolisis using the components as chemicals.	
D 4	Surface impoundment (e.g. placement of liquid or sludgy discards into pits, ponds or lagoons, etc.).	Y	R 4	Recycling/reclamation of metals and metal compounds.	
D 5	Specially engineered landfill (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc.).		R 5	Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials.	
D 6	Release into a water body except seas/oceans.		R 6	Regeneration of acids or bases.	
D 7	Release to seas/oceans including sea-bed insertion.		R 7	Recovery of components used for pollution abatement.	
D 8	Biological treatment not specified elsewhere in this Schedule which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12.		R 8	Recovery of components from catalysts.	
D 9	Physico-chemical treatment not specified elsewhere in this Schedule which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcinations, etc.).		R 9	Oil re-refining or other reuses of oil.	
D 10	Incineration on land.		R 10	Land treatment resulting in benefit to agriculture or ecological improvement.	
D 11	Incineration at sea (this operation is prohibited by EU legislation and international conventions).		R 11	Use of waste obtained from any of the operations numbered R 1 to R 10.	
D 12	Permanent storage (e.g. emplacement of containers in a mine, etc).		R 12	Exchange of waste for submission to any of the operations numbered R 1 to R 11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as, amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, separating, blending or mixing prior to submission to any of the operations numbered R1 to R11).	
D 13	Blending or mixing prior to submission to any of the operations numbered D 1 to D 12 (if there is no other D code appropriate, this can include preliminary operations prior to disposal including pre-processing such as, amongst others, sorting, crushing, compacting, pelletising, drying, shredding, conditioning or separating prior to submission to any of the operations numbered D1 to D12).		R 13	Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage (being preliminary storage according to the definition of 'collection' in section 5(1)), pending collection, on the site where the waste is produced).	
D 14	Repackaging prior to submission to any of the operations numbered D 1 to D 13.				
D 15	Storage pending any of the operations numbered D 1 to D 14 (excluding temporary storage (being preliminary storage according to the definition of 'collection' in section 5(1)), pending collection, on the site where the waste is produced).	Y			

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. *Not Applicable*

Maximum Annual Tonnage (tpa)	
Year	

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.I. 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)	5000
Recovery of Waste (4)	

TABLE B.7.4 (FOR A LANDFILL APPLICATION)

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

(a) landfill for hazardous waste	☐
(b) landfill for non-hazardous waste	☒
(c) landfill for inert waste	☐

TABLE B.7.5 (FOR A LANDFILL APPLICATION)

In accordance with the requirements of Article 9(b) of the Landfill Directive, state the total quantity of waste for which authorisation is sought to be deposited in the landfill – complete the following table: ***Not Applicable***

Total quantity of waste to be deposited at the landfill facility	**Tonnes***	**Void in cubic metres (m^3)**
(a) Waste deposited to date		
(b) Total waste to be deposited over lifetime of development (including deposited to date)		

* Explain any conversion/density factors used in calculating tonnage from void, or vice versa.

B.8 SEVESO II DIRECTIVE

State whether the installation is an establishment to which the Chemicals Act (Control of Major Accident Hazards Involving Dangerous Substances) Regulations 2015 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.

B.9 Waste Storage and Closure Costs

State the maximum amount of waste that will be held or stored at the installation at any one time. This should include waste in:

- reception, inspection and quarantine areas,
- storage pending treatment,
- storage after treatment, and
- vessels, chambers or tanks during treatment or processing.

State the cost of disposing of waste (including treated waste) held, in storage or in process at the installation. Do not provide the recovery/recycling cost and do not assume that the waste will have a positive monetary value (it may have degraded in the period before removal from the closed facility).

Complete the following table (consistently using either tonnes or cubic metres as your unit of measurement for all entries):

Location of waste	**Tonnes**	**Cubic metres**	**Unit cost (per tonne or m^3) for** - **removal AND** - **disposal in case of sudden closure**	**Disposal route and/or technique**	**Notes, rationale, clarifications**
Holding areas					
Quarantine areas					
Inspection areas					
Storage areas (untreated					

waste)					
Storage areas (treated waste)					
Treatment chambers, vessels and tanks					
Other (add rows as necessary)					
Total					

* add rows to the table as necessary

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
Post currently vacant. Position currently overseen by Acting Director	Senior Engineer	Overall responsibility for the management of the site and maintenance of the Waste Licence. Delegation of authority and responsibility to ensure the effective management of the facility.	Refer to PAC
Julie McMahon	Executive Engineer:	Responsible for the operational management of the facility as directed by the Senior Engineer.	Hold an honours degree (level 8 in the National Framework of Qualifications) or equivalent professional qualification in engineering, Have at least five (5) years satisfactory experience of engineering works.

C.2 Environmental Management System

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

C.3 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.

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
D.1.b	**Designs for site roads**	N	Not applicable
D.1.c	**Design of hard-standing areas**	N	Not applicable
D.1.d	**Plant**	N	Not applicable
D.1.e	**Wheel-wash**	N	Not applicable
D.1.f	**Laboratory facilities**	N	Not applicable
D.1.g	**Design and location of fuel storage areas**	N	Not applicable
D.1.h	**Waste quarantine areas**	N	Not applicable
D.1.i	**Waste inspection areas**	N	Not applicable
D.1.j	**Traffic control**	N	Not applicable
D.1.k	**Sewerage and surface water drainage infrastructure**	N	Not applicable
D.1.l	**All other services**	N	Not applicable
D.1.m	**Plant sheds, garages and equipment compound**	N	Not applicable
D.1.n	**Site accommodation**	N	Not applicable
D.1.o	**A fire control system, including water supply**	N	Not applicable
D.1.p	**Civic amenity facilities**	N	Not applicable
D.1.q	**Any other waste recovery infrastructure**	N	Not applicable
D.1.r	**Composting infrastructure**	N	Not applicable
D.1.s	**Construction and Demolition waste infrastructure**	N	Not applicable
D.1.t	**Incineration infrastructure (if applicable).** **Provide information to fulfil Article 4 (2) & (3) of the Incineration of Waste Directive**	N	Not applicable
D.1.u	**Any other infrastructure**	N	Not applicable

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*.

The requirements of article 12(1)(t bis) of the Licensing Regulations should be addressed in **Attachment D.2** by outlining the main alternatives to the proposals contained in the application which were studied by the applicant.

Attachment included	**yes** ☒	**no** ☐	**not applicable** ☐

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

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 (i.e., 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**	N	Not applicable
D.3.b	**What type of liner system is specified?**	N	Not applicable
D.3.c	**Has a Quality Control Plan been specified?**	N	Not applicable
D.3.d	**Has a Quality Assurance Plan been specified?**	N	Not applicable
D.3.e	**Has independent, third-party supervision, testing and controls been specified?**	N	Not applicable
D.3.f	**Have basal gradients for all cells and access ramps to the cells been designed?**	N	Not applicable
D.3.g	**Has a leak detection survey been specified?**	N	Not applicable

D.4 Leachate Management

Complete the following table detailing leachate management arrangements. Further information should be included in **Attachment D.4.**

TABLE D.4.1 LEACHATE MANAGEMENT ARRANGEMENTS

		y/n	Comments
D.4.a	**Is there a Leachate Management Plan?**	Y	See attachment D.4
D.4.b	**Have annual quantities of leachate been calculated?**	Y	See attachment D.4
D.4.c	**Has the total quantity of leachate been calculated?**	Y	See attachment D.4
D.4.d	**Has the size of the cells been specified taking account of the water balance calculations?**	Y	See attachment D.4
D.4.e	**Has a leachate collection system been specified?**	Y	See attachment D.4
D.4.f	**Has a leachate storage system been specified?**	Y	See attachment D.4
D.4.g	**Has a system for monitoring the level of leachate in the waste been designed?**	N	Not applicable
D.4.h	**Is leachate recirculation proposed/practised?**	N	Not applicable
D.4.i	**Has leachate treatment on site been specified?**	Y	See attachment D.4
D.4.j	**Has leachate removal been specified?**	N	Not applicable

D 5 Landfill Gas Management

All landfill sites should have suitable arrangements for the management of landfill gas. **Attachment D.5** 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 (i.e., 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.5. Landfill Gas Management

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

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

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.I. 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. Complete 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.

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 and the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010.

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

Supporting information should form **Attachment E.4**

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**

The Agency's *Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)* (2012) should be consulted (available on www.epa.ie) where a noise impact assessment is required. A planned programme of improvement towards meeting upgraded standards is required and should have due regard to the noise control and mitigation measures outlined in

section 8, and Appendix IX of the *Guidance Note*. This programme should highlight specific goals and a time scale, together with options for modification, upgrading or replacement, as required, to bring the emissions within the limits as set out in the *Guidance Note*.

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** ☐	**no** ☐	**not applicable** ☒
	Attachment included	**yes** ☐	**no** ☐	**not applicable** ☒
Dust Control	**Control method specified**	**yes** ☐	**no** ☐	**not applicable** ☒
	Attachment included	**yes** ☐	**no** ☐	**not applicable** ☒
Fire Control	**Control method specified**	**yes** ☐	**no** ☐	**not applicable** ☒
	Attachment included	**yes** ☐	**no** ☐	**not applicable** ☒
Litter Control	**Control method specified**	**yes** ☐	**no** ☐	**not applicable** ☒
	Attachment included	**yes** ☐	**no** ☐	**not applicable** ☒
Traffic Control	**Control method specified**	**yes** ☐	**no** ☐	**not applicable** ☒
	Attachment included	**yes** ☐	**no** ☐	**not applicable** ☒
Vermin Control	**Control method specified**	**yes** ☐	**no** ☐	**not applicable** ☒
	Attachment included	**yes** ☐	**no** ☐	**not applicable** ☒
Road Cleansing	**Control method specified**	**yes** ☐	**no** ☐	**not applicable** ☒
	Attachment included	**yes** ☐	**no** ☐	**not applicable** ☒

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 (≤A3) as appropriate.

For each Emission Point identified complete Table F.1 of the Annex and include detailed descriptions and appropriately scaled schematics (≤A3) of all abatement systems.

Attachment F.1 should contain any supporting 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 Arrangements specified	**yes** ☐	**no** ☐	**not applicable** ☒
Monitoring points identified, (plus 12-figure grid references)	**yes** ☐	**no** ☐	**not applicable** ☒
Attachment included	**yes** ☐	**no** ☐	**not applicable** ☒

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** ☒	**no** ☐	**not applicable** ☐
Monitoring points identified, (plus 12-figure grid references)	**yes** ☒	**no** ☐	**not applicable** ☐
Attachment included	**yes** ☒	**no** ☐	**not applicable** ☐

F.4 Sewer Discharge

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

Monitoring Arrangements specified	**yes** ☐	**no** ☐	**not applicable** ☒
Monitoring points identified, (plus 12-figure grid references)	**yes** ☐	**no** ☐	**not applicable** ☒
Attachment included	**yes** ☐	**no** ☐	**not applicable** ☒

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** ☒	**no** ☐	**not applicable** ☐
Monitoring points identified, (plus 12-figure grid references)	**yes** ☒	**no** ☐	**not applicable** ☐
Attachment included	**yes** ☒	**no** ☐	**not applicable** ☐

F.6 Noise

Monitoring Arrangements specified	**yes** ☐	**no** ☐	**not applicable** ☒
Monitoring points identified, (plus 12-figure grid references)	**yes** ☐	**no** ☐	**not applicable** ☒
Attachment included	**yes** ☐	**no** ☐	**not applicable** ☒

F.7 Meteorological Data

Monitoring Arrangements specified	**yes** ☐	**no** ☐	**not applicable** ☒
Monitoring points identified, (plus 12-figure grid references)	**yes** ☐	**no** ☐	**not applicable** ☒
Attachment included	**yes** ☐	**no** ☐	**not applicable** ☒

An application for landfill requires the additional Attachments F.7 to F.8, to be completed:

F.8 Leachate

Monitoring Arrangements specified	**yes** ☒	**no** ☐	**not applicable** ☐
Monitoring points identified, (plus 12-figure grid references)	**yes** ☒	**no** ☐	**not applicable** ☐
Attachment included	**yes** ☒	**no** ☐	**not applicable** ☐

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	Concentration (mg/Nm^3)	Proposed Frequency of Analysis	Information Included Y/N	Method of Analysis	Information Included Y/N
Inlet					
Methane (CH_4) % v/v					
Carbon dioxide (CO_2) %v/v					
Oxygen (O_2) % v/v					
Outlet					
Volumetric Flow Rate					
SO_2					
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**		**Information Included Y/N**	**Method of Analysis**	**Information Included Y/N**
	Gas boreholes / vents/ wells/ perimeter locations	Facility Office			
Methane (CH_4) % v/v					
Carbon Dioxide (CO_2) % v/v					
Oxygen (O_2) % v/v					
Atmospheric Pressure					
Temperature					

Table F.9 (c) Landfill Gas Infrastructure

Equipment	**Monitoring Frequency**	**Information Included Y/N**	**Monitoring Action**	**Information Included Y/N**
Gas Collection System				
Gas Control System				

Monitoring Arrangements specified	**yes** ☒	**no** ☐	**not applicable** ☐
Monitoring points identified, (plus 12-figure grid references)	**yes** ☒	**no** ☐	**not applicable** ☐
Attachment included	**yes** ☒	**no** ☐	**not applicable** ☐

SECTION G RESOURCES USE & ENERGY EFFICIENCY

G.1 Raw Materials, Substances, Preparations and Energy

Attachment G.1 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** ☒ **no** ☐ **not applicable**

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** ☒ **no** ☐ **not applicable** ☐

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.1(A). QUANTITIES OF WASTE IN RELATION TO EACH CLASS OF ACTIVITY APPLIED FOR

Waste Management Act 1996, as amended. 3rd Schedule (Disposal) Operations			Waste Management Act 1996, as amended. 4th Schedule (Recovery) Operations		
Class of Activity Applied For		Quantity (tpa)	Class of Activity Applied For		Quantity (tpa)
Class D 1			Class R 1		
Class D 2			Class R 2		
Class D 3			Class R 3		
Class D 4			Class R 4		
Class D 5			Class R 5		
Class D 6			Class R 6		
Class D 7			Class R 7		
Class D 8			Class R 8		
Class D 9			Class R 9		
Class D 10			Class R 10		
Class D 11			Class R 11		
Class D 12			Class R 12		
Class D 13			Class R 13		
Class D 14					
Class D 15					

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.1.** 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 licence review applications provide an estimate of the quantity of waste already deposited in (i) lined cells; (ii) unlined cells.

TABLE H.1(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)

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			
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	COMPLETE FOR LANDFILL & CONTAMINATED LAND FACILITIES ONLY		

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

HAZARDOUS WASTE	DETAILED DESCRIPTION	Tonnes Per Annum (Existing)	(Tonnes Per Annum Proposed)
Waste Oil			
Oil filters			
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 accepted.

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 and, for landfills, Council Decision 2003/33/EC. 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 the manner in which it will be verified or assured that waste will be subject to treatment prior to landfilling in accordance with the requirements of article 6 of the Landfill Directive.

Provide information on the quantity of biodegradable municipal waste to be accepted and how the targets of article 5 of the Landfill Directive (1999/31/EC), as they have been adopted in Ireland, are to be achieved. In particular describe how operation of the landfill will contribute to:

(a) a reduction by 16/07/2010 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 16/07/2013 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 16/07/2016 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.

Evidence should be provided to show that energy will be used efficiently.

H.4 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.4(i) and H.4(ii) of the application form. Applicants should also provide conversion factors used to relate volume (m^3) and tonnage (t) for their waste stream.

H.5 Waste Recycling and Recovery

Applicants should describe in **Attachment H.5** how waste activities will contribute to the requirements of regulation 31(1) and (2) of the European Communities (Waste Directive) Regulations 2011.

Applicants should also describe how they intend complying with the requirements of regulation 29(2A) of the Regulations regarding waste recovery.

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.**

I.1.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.I. 394 of 2004) to the atmosphere 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.

Attachment I.1 should also contain full details of any dispersion modelling of atmospheric emissions from the activity, where required.

I.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 I.2(i) should be completed

Provide a statement whether or not emissions of main polluting substances (as defined in the Schedule of S.I. 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.

The requirements of and environmental quality standards contained in the European Communities Environmental Objectives (Surface Waters) Regulations 2009 (S.I. No. 272 of 2009) should be considered. Information should be provided on the manner in which these Regulations were taken into account in the assessment of the impact of emissions to surface waters.

Full details of the assessment and any other relevant information on the receiving environment should be submitted as **Attachment I.2.**

I.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 I.3.**

I.4 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 I.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 I.4(a) should be completed.

The requirements of the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010) should be considered. Information should be provided on the manner in which these Regulations were taken into account in the assessment of the impact of the activity on groundwater.

I.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 (≤A3), documentation, including containment engineering, remedial works and any other supporting information should be included in **Attachment I.5**.

The requirements of the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010) should be considered. Information should be provided on the manner in which these Regulations were taken into account in the assessment of groundwater contamination and any remedial works carried out or proposed.

I.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 I.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 (or residual) noise levels experienced at the site in the absence of noise from this operation.

Prediction models, maps (no larger than A3), diagrams and supporting documents, including details of noise attenuation and noise proposed control measures to be employed, should form **Attachment Nº I.6.**

I.7 Assessment of Ecological Impacts & Mitigation Measures

The ecology of the site and the surrounding area should be assessed in the vicinity of the largescale waste facilities such as landfill or incinerator developments. An assessment of the ecology should form **Attachment I.7.** Comprehensive guidelines are contained in the *Application Guidance Note*

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 minimise 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** ☐

SECTION L STATUTORY REQUIREMENTS

L.1 Section 40(4) WMA

Indicate how all the requirements of Section 40(4)[(a) to (j)] of the Waste Management Act 1996, as amended, will be met.

Undertake a screening for Appropriate Assessment and state whether the activity, individually or in combination with other plans or projects, is likely to have a significant effect on a European Site(s), in view of best scientific knowledge and the conservation objectives of the site(s).

Where it cannot be excluded on the basis of objective scientific information, following screening for Appropriate Assessment, that an activity, either individually or in combination with other plans or projects, will have a significant effect on a European Site, provide a Natura Impact Statement, as defined in Regulation 2(1) of the European Communities (Birds and Natural Habitats) Regulations (S.I. No. 477 of 2011).

Where, based on screening, it is considered that an Appropriate Assessment is not required, provide a reasoned response.

The screening report and Natura Impact Statement, where applicable, shall be provided in **Attachment L.1.**

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.

Attachment L.1 should contain the documentation requested above, along with any relevant additional information.

Attachment included	**yes** ☐	**no** ☐	**not applicable** ☐

L.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 Act 1996, as amended, the EPA Act 1992, as amended, 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 L.2** with reference to where the information can be found in the application.

Attachment included	**yes** ☐	**no** ☐	**not applicable** ☐

L.3 Waste hierarchy

Section 21A of the Waste Management Act 1996, as amended, as amended, requires that the waste hierarchy shall apply. When applying the waste hierarchy, the Agency is obliged to take measures to encourage the options that deliver the best overall environmental outcome. Any departures from the hierarchy can be justified by life-cycle thinking on the overall impacts of the generation and management of specific waste streams. Applicants should justify any departures from the hierarchy on this basis and as set out in section 21A(2) of the Acts.

Applicants should be aware of the requirements related to recovery of waste set out in section 29(2A) of the Acts. (See section H.5 above).

In accordance with article 12(1)(v) of the Waste Management (Licensing) Regulations, 2004, as amended, describe in **Attachment L.3** how the waste hierarchy is applied in or by the proposed activity.

Attachment included	**yes** ☐	**no** ☐	**not applicable** ☐

L.4 Principles of self-sufficiency and proximity

Applicants should state in **Attachment L.4** how the proposed activity contributes to the requirements of Section 37A of the Waste Management Act 1996, as amended.

Attachment included	**yes** ☐	**no** ☐	**not applicable** ☐

SECTION M DECLARATION

Declaration

I hereby make application for a licence / revised licence, pursuant to the provisions of the Waste Management Act 1996, as amended 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 or any person acting on the Applicant's behalf.

Signed by :_____ **Date :**_____
(on behalf of the organisation)

Print signature name: _____

Position in organisation :_____

Company stamp or seal:

SECTION M DECLARATION

Declaration

I hereby make application for a licence / revised licence, pursuant to the provisions of the Waste Management Act 1996, as amended 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 or any person acting on the Applicant's behalf.

Signed by : _____ **Date :** 19/05/17
(on behalf of the organisation)

Print signature name: MICHAEL M'GARVEY

Position in organisation : A/DOS

Company stamp or seal:

Seal of Donegal County Council affixed hereto as authenticated by the signature of:-

Nominated Officer

ANNEX 1 STANDARD FORMS

Standard forms are provided in this section for the recording and presentation of environmental monitoring and site investigation results

TABLE E.1(i) LANDFILL GAS FLARE EMISSIONS TO ATMOSPHERE
Emission Point: ***NOT APPLICABLE***

Emission Point Ref. N^{o}:	
Location :	
Grid Ref. (12 digit, 6E,6N):	
Vent Details Diameter: Height above Ground(m):	
Date of commencement of emission:	

Characteristics of Emission :

CO		mg/m^3
Total organic carbon (TOC)		mg/m^3
NOx		mg/Nm^3 0^{o}C. 3% O_2(Liquid or Gas), 6% O_2(Solid Fuel)
Maximum volume of emission		m^3/hr
Temperature	^{o}C(max) ^{o}C(min)	^{o}C(avg)

(i) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up/shutdown to be included):*

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr

TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE (1 Page for each emission point)
NOT APPLICABLE

Emission Point Ref. N^{o}:	
Source of Emission:	
Location :	
Grid Ref. (12 digit, 6E,6N):	
Vent Details Diameter: Height above Ground(m):	
Date of commencement:	

Characteristics of Emission :

(i) Volume to be emitted:			
Average/day	m^3/d	Maximum/day	m^3/d
Maximum rate/hour	m^3/h	Min efflux velocity	$m.sec^{-1}$
(ii) Other factors			
Temperature	^{o}C(max)	^{o}C(min)	^{o}C(avg)
For Combustion Sources: Volume terms expressed as : ☐ wet. ☐ dry. _____$\%O_2$			

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr

TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission (1 table per emission point)

Emission Point Reference Number: _____

NOT APPLICABLE

Parameter	Prior to treatment(1)				Brief description of treatment	As discharged(1)					
	mg/Nm^3		kg/h			mg/Nm^3		kg/h.		kg/year	
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max

1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0^{o}C,101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.

TABLE E.1(iv): EMISSIONS TO ATMOSPHERE - Minor /Fugitive

NOT APPLICABLE

Emission point Reference Numbers	Description	Emission details[1]				Abatement system employed
		material	mg/Nm$^{3(2)}$	kg/h.	kg/year	

1 The maximum emission should be stated for each material emitted, the concentration should be based on the maximum 30 minute mean.
2 Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0^{o}C101.3kPa). Wet/dry should be clearly stated. Include reference oxygen conditions for combustion sources.

TABLE E.2(i): EMISSIONS TO SURFACE WATERS
(One page for each emission)

Emission Point:

Emission Point Ref. N^{o}:	SW8
Source of Emission:	Discharge to SW Channel from SRC Willow
Location :	Churchtown Landfill Site
Grid Ref. (10 digit, 5E,5N):	230908.08 395942.73
Name of receiving waters:	River Finn
Flow rate in receiving waters:	_____ $m^3.sec^{-1}$ Dry Weather Flow **0.816** $m^3.sec^{-1}$ 95%ile flow
Available waste assimilative capacity:	**Please refer to Table 2and 3 of assimilative capacity**. kg/day

Emission Details:

(i) Volume to be emitted *Discharge rates will be variable depending on volumes to be treated and climatic conditions Please refer to Attachment D.4*			
Normal/day	m^3	Maximum/day	m^3
Maximum rate/hour	m^3		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr

TABLE E.2(i): EMISSIONS TO SURFACE WATERS
(One page for each emission)

Emission Point:

Emission Point Ref. N^{o}:	SW9
Source of Emission:	Discharge to SW Channel from ICW
Location :	Churchtown Landfill Site
Grid Ref. (10 digit, 5E,5N):	231076.62 231076.62
Name of receiving waters:	River Finn
Flow rate in receiving waters:	_____ $m^3.sec^{-1}$ Dry Weather Flow **0.816** $m^3.sec^{-1}$ 95%ile flow
Available waste assimilative capacity:	**Please refer to Table 2 and 3 of assimilative capacity** kg/day

Emission Details:

(i) Volume to be emitted *Discharge rates will be variable depending on volumes to be treated and climatic conditions. Please refer to Attachment D.4*			
Normal/day	m^3	Maximum/day	m^3

Maximum rate/hour	m^3		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr

TABLE E.2(i): EMISSIONS TO SURFACE WATERS
(One page for each emission)

Emission Point:

Emission Point Ref. Nº:	SW10
Source of Emission:	Discharge to SW Channel from SRC Willow
Location :	Churchtown Landfill Site
Grid Ref. (10 digit, 5E,5N):	231069.70 395759.63
Name of receiving waters:	River Finn
Flow rate in receiving waters:	_____ $m^3.sec^{-1}$ Dry Weather Flow **0.816** $m^3.sec^{-1}$ 95%ile flow
Available waste assimilative capacity:	**Please refer to Table 2 and 3 of assimilative capacity** kg/day

Emission Details:

(i) Volume to be emitted *Discharge rates will be variable depending on volumes to be treated and climatic conditions. Please refer to Attachment D.4*			
Normal/day	m^3	Maximum/day	m^3

Maximum rate/hour	m^3		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr

TABLE E.2(i): EMISSIONS TO SURFACE WATERS
(One page for each emission)

Emission Point:

Emission Point Ref. N^{o}:	SW11
Source of Emission:	Discharge to SW Channel from ICW
Location :	Churchtown Landfill Site
Grid Ref. (10 digit, 5E,5N):	231172.31 395897.03
Name of receiving waters:	River Finn
Flow rate in receiving waters:	_____ $m^3.sec^{-1}$ Dry Weather Flow **0.816** $m^3.sec^{-1}$ 95%ile flow
Available waste assimilative capacity:	**Please refer to Table 2 and 3 of assimilative capacity** kg/day

Emission Details:

(i) Volume to be emitted *Discharge rates will be variable depending on volumes to be treated and climatic conditions. Please refer to Attachment D.4*			
Normal/day	m^3	Maximum/day	m^3
Maximum rate/hour	m^3		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr

TABLE E.2(ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission (1 table per emission point)

Emission point reference number : SW8, 9, 10, and 11 grab samples on a weekly basis

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
BOD Suspended Solids Orthophosphate Total Ammonia (as N)						20 mg/l 30 mg/l 2mg/ 3 mg /l			

TABLE E.3(i): EMISSIONS TO SEWER (One page for each emission)

Emission Point:
NOT APPLICABLE

Emission Point Ref. N^{o}:	
Location of connection to sewer :	
Grid Ref. (10 digit, 5E,5N):	
Name of sewage undertaker:	

Emission Details:

(i) Volume to be emitted			
Normal/day	m^3	Maximum/day	m^3
Maximum rate/hour	m^3		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr

TABLE E.3(ii): EMISSIONS TO SEWER - Characteristics of the emission (1 table per emission point)

Emission point reference number : _____

NOT APPLICABLE

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	

TABLE E.4(i): EMISSIONS TO GROUNDWATER (1 Page for each emission point)

Emission Point or Area:
NOT APPLICABLE

Emission Point/Area Ref. Nº:	
Emission Pathway: (borehole, well, percolation area, soakaway, landspreading, etc.)	
Location :	
Grid Ref. (10 digit, 5E,5N):	
Elevation of discharge: (relative to Ordnance Datum)	
Aquifer classification for receiving groundwater body:	
Groundwater vulnerability assessment (including vulnerability rating):	
Identity and proximity of groundwater sources at risk (wells, springs, etc):	
Identity and proximity of surface water bodies at risk:	

Emission Details:

(i) Volume to be emitted			
Normal/day	m^3	Maximum/day	m^3
Maximum rate/hour	m^3		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included):*

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr

Table E.5 (i): NOISE EMISSIONS - Noise sources summary sheet

NOT APPLICABLE

Source	Emission point Ref. No	Equipment Ref. No	Sound Pressure[1] dBA at reference distance	Octave bands (Hz) Sound Pressure[1] Levels dB(unweighted) per band									Impulsive or tonal qualities	Periods of Emission[2]
				31.5	63	125	250	500	1K	2K	4K	8K		

1. For items of plant, sound power levels may be used.
2. Periods of emission should state if the plant item in question operates on a continuous or intermittent basis. If intermittent then further details of the hours of operation and any potential impulsive components associated with the source should be clearly identified.

TABLE F.1: ABATEMENT / TREATMENT CONTROL

A rainfall meter and temperature probe have been installed to enact the controls required of the leachate dosing system to the Willow Plantation zones and ICW's
The two outlets from the Willow plantation are being monitored by Ammonia analysers and flowmeters and recorded on the SCADA system

***Emission point reference number* : SW8 and SW10 For Ammonia only**

Control[1] parameter	Equipment[2]	Equipment maintenance	Equipment calibration	Equipment back-up
Ammonia	Ammonia analysers "Hach" installed on discharge points from Willow Plantations within precast concrete chambers.	As per manufacture instructions	By DCC staff	None

Control[1] parameter	Monitoring to be carried out[3]	Monitoring equipment	Monitoring equipment calibration

[1] List the operating parameters of the treatment / abatement system which control its function.
[2] List the equipment necessary for the proper function of the abatement / treatment system.
[3] List the monitoring of the control parameter to be carried out.

TABLE F.2 to F.8 : EMISSIONS MONITORING AND SAMPLING POINTS - (1 table per media)

Emission Point Reference No(s). : SW8, SW9, SW10, AND SW11

Parameter	Monitoring frequency	Accessibility of Sampling Points
pH	Quarterly	Accessible
BOD	Quarterly	Accessible
Suspended Solids	Quarterly	Accessible
Orthophosphate	Quarterly	Accessible
Total Ammonia (as N)	Quarterly	Accessible

TABLE Ff: Fugitive ENVIRONMENT MONITORING AND SAMPLING LOCATIONS (1 table per media)

Monitoring Point Reference No :_____

NOT APPLICABLE

Parameter	Monitoring frequency	Accessibility of Sampling point

Table G.1 Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site

NOT APPLICABLE

Ref. Nº or Code	Material/ Substance[1]	CAS Number	Danger[2] Category	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	R[3] - Phrase	S[3] - Phrase

Notes: 1. In cases where a material comprises a number of distinct and available dangerous substances, please give details for each component substance.
2. c.f. Article 2(2) of SI Nº 77/94
3. c.f. Schedules 2 and 3 of SI Nº 77/94

TABLE H.4(i): WASTE - Hazardous Waste Recovery/Disposal

NOT APPLICABLE

Waste material	EWC Code	Main source[1]	Quantity		On-site Recovery/Disposal (Method & Location)	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month	m^3 / month			

[1] A reference should be made to the main activity / process for each waste.

TABLE H.4(ii) WASTE - Other Waste Recovery/Disposal

NOT APPLICABLE

Waste material	EWC Code	Main source[1]	Quantity		On-site recovery/disposal[2] (Method & Location)	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month	m^3 / month			

1 A reference should be made to the main activity/ process for each waste.
2 The method of disposal or recovery should be clearly described and referenced to Attachment H.1

Table I.2(i) SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____SW1_____

Parameter	Results (mg/l)				Sampling method[2] (grab, drift etc.)	Normal Analytical Range[2]	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
pH	6.4	6.9	6.3	6.6			
Temperature	11.6	18		7.6			
Electrical conductivity EC	812	216.8	238	275			
Ammoniacal nitrogen NH_4-N	1.99	0.224	0.28	0.481			
Chemical oxygen demand	41	1	15	< 8			
Biochemical oxygen demand	61.3	<1	<1	< 1			
Dissolved oxygen DO	3.3	9.5	8	11.45			
Calcium Ca	64.5						
Cadmium Cd	0.2 (ug/l)						
Chromium Cr	<3.0 (ug/l)						
Chloride Cl	109.19	15.88	19	20			
Copper Cu	<0.003	<0.003	< 0.003	< 0.003			
Iron Fe	25000 (ug/l)						
Lead Pb	<0.3 (ug/l)						
Magnesium Mg	6.3						
Manganese Mn	6200 (ug/l)						
Mercury Hg	<0.02 (ug/l)						

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
Nickel Ni	2.4 (ug/l)						
Potassium K	5						
Sodium Na	40.1						
Sulphate SO_4	18						
Zinc Zn	2.6 (ug/l)	<0.001	0.005	2.1 (ug/l)			
Total alkalinity (as $CaCO_3$)	171						
Total organic carbon TOC	6						
Total oxidised nitrogen TON	0.191						
Nitrite NO_2	0.0421	<0.01	0.006	< 0.005			
Nitrate NO_3	0.191	1.72105	6.6	7.5			
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Phosphate PO_4	<0.01	<0.01	< 0.005				

Table I.2(i) SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____SW2_____

Parameter	Results (mg/l)				Sampling method[2] (grab, drift etc.)	Normal Analytical Range[2]	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
pH	7.5	7.5	6.5	7.1			
Temperature	20	19		5.2			
Electrical conductivity EC	1288	706	238	882			
Ammoniacal nitrogen NH_4-N	54.4	18.5	11	25.65			
Chemical oxygen demand	62	20	31	22			
Biochemical oxygen demand	12.5	6	> 15.8	2.5			
Dissolved oxygen DO	7.35	7.2	9	7.91			
Calcium Ca	120.3						
Cadmium Cd	0.1 (ug/l)						
Chromium Cr	<3 (ug/l)						
Chloride Cl	70.74	37.72	31	43			
Copper Cu	<0.003	<0.003	0.004	< 0.003			
Iron Fe	1700 (ug/l)						
Lead Pb	<0.3 (ug/l)						
Magnesium Mg	35.6						
Manganese Mn	1500 (ug/l)						
Mercury Hg	<0.02 (ug/l)						

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
Nickel Ni	4.1 (ug/l)						
Potassium K	41.1						
Sodium Na	53.6						
Sulphate SO_4	2.2						
Zinc Zn	2.8	0.002	0.006	3.6 (ug/l)			
Total alkalinity (as $CaCO_3$)	201						
Total organic carbon TOC	17.36						
Total oxidised nitrogen TON	0.208						
Nitrite NO_2	0.0609	0.0841	0.047	0.019			
Nitrate NO_3	0.208	0.4569	4.7	3.6			
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Phosphate PO_4	<0.01	<0.01	0.007				

Table I.2(i) SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____SW3_____

Parameter	Results (mg/l)				Sampling method[2] (grab, drift etc.)	Normal Analytical Range[2]	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
pH	7.4	7.3	7	7			
Temperature	15.9	21		5.3			
Electrical conductivity EC	134.4	117.9	176.8	178.6			
Ammoniacal nitrogen NH_4-N	<0.04	0.618	0.081	0.075			
Chemical oxygen demand	21	44	13	13			
Biochemical oxygen demand	3.96	4	1.2	1.4			
Dissolved oxygen DO	9.2	7.7	9	12.63			
Calcium Ca	16.2						
Cadmium Cd	0.1 (ug/l)						
Chromium Cr	<3.0 (ug/l)						
Chloride Cl	19.85	13.9	18	22			
Copper Cu	<0.003	0.003	<0.003	<0.003			
Iron Fe	510 (ug/l)						
Lead Pb	<0.3 (ug/l)						
Magnesium Mg	2.4						
Manganese Mn	42 (ug/l)						
Mercury Hg	<0.02 (ug/l)						

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
Nickel Ni	0.7 (ug/l)						
Potassium K	1.3						
Sodium Na	10.1						
Sulphate SO_4	7.4						
Zinc Zn	2 (ug/l)	0.004	0.013	2.7 (ug/l)			
Total alkalinity (as $CaCO_3$)	49						
Total organic carbon TOC	6.33						
Total oxidised nitrogen TON	0.17						
Nitrite NO_2	0.0236	0.0155	0.01	< 0.005			
Nitrate NO_3	0.17	0.2755	0.71	0.67			
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Phosphate PO_4	<0.01	<0.01	0.011				

Table I.2(i) SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____SW4_____

Parameter	Results (mg/l)				Sampling method[2] (grab, drift etc.)	Normal Analytical Range[2]	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
pH	7.2	7.2	7	7			
Temperature	20	21		5.7			
Electrical conductivity EC	910	122	175.8	543			
Ammoniacal nitrogen NH_4-N	32.2	<0.04	0.073	4.791			
Chemical oxygen demand	45	46	12	14			
Biochemical oxygen demand	7.12	1	<1	6.8			
Dissolved oxygen DO	6.8	7.7	9	10.02			
Calcium Ca	52.1						
Cadmium Cd	0.1 (ug/l)						
Chromium Cr	<3.0 (ug/l)						
Chloride Cl	57.57	13.9	18	40			
Copper Cu	<0.003	<0.003	0.005	< 0.003			
Iron Fe	1700 (ug/l)						
Lead Pb	<0.3 (ug/l)						
Magnesium Mg	13.4						
Manganese Mn	820 (ug/l)						
Mercury Hg	<0.02 (ug/l)						

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
Nickel Ni	5.4 (ug/l)						
Potassium K	14						
Sodium Na	26.9						
Sulphate SO_4	30						
Zinc Zn	2.3 (ug/l)	0.003	0.004	5.9 (ug/l)			
Total alkalinity (as $CaCO_3$)	242						
Total organic carbon TOC	11.47						
Total oxidised nitrogen TON	0.15						
Nitrite NO_2	0.0524	0.0164	0.007	0.027			
Nitrate NO_3	0.15	<0.1	0.96	4.8			
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Phosphate PO_4	<0.01	<0.01	0.009				

Table I.2(i) SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____SW5_____

Parameter	Results (mg/l)				Sampling method[2] (grab, drift etc.)	Normal Analytical Range[2]	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
pH	7.4	7.1	7.2	7.3			
Temperature	16	21		6.4			
Electrical conductivity EC	134.1	116.4	174.9	205.1			
Ammoniacal nitrogen NH_4-N	4.67	0.702	0.062	0.419			
Chemical oxygen demand	20	41	15	10			
Biochemical oxygen demand	3.27	6	1.8	2.5			
Dissolved oxygen DO	9.3	7.8	9	11.53			
Calcium Ca	50.6						
Cadmium Cd	0.1 (ug/l)						
Chromium Cr	<0.3 (ug/l)						
Chloride Cl	20.84	34.74	18	23			
Copper Cu	<0.003	<0.003	< 0.003	< 0.003			
Iron Fe	1700 (ug/l)						
Lead Pb	<0.3 (ug/l)						
Magnesium Mg	13.7						
Manganese Mn	790 (ug/l)						
Mercury Hg	<0.02 (ug/l)						

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
Nickel Ni	5.3 (ug/l)						
Potassium K	13.8						
Sodium Na	27.7						
Sulphate SO_4	29						
Zinc Zn	2.3	0.002	0.008	3 (ug/l)			
Total alkalinity (as $CaCO_3$)	239						
Total organic carbon TOC	12.64						
Total oxidised nitrogen TON	0.183						
Nitrite NO_2	0.0356	<0.01	0.008	0.005			
Nitrate NO_3	0.183	<0.1	1.1	0.91			
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Phosphate PO_4	<0.01	0.585	0.008				

Table I.2(i) SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____SW6_____

Parameter	Results (mg/l)				Sampling method[2] (grab, drift etc.)	Normal Analytical Range[2]	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
pH	7.3	7.1	7	7.1			
Temperature	16	21		5.7			
Electrical conductivity EC	133.4	112.3	74.8	172.5			
Ammoniacal nitrogen NH_4-N	0.042	0.0616	0.089	0.085			
Chemical oxygen demand	19	48	25	11			
Biochemical oxygen demand	<1	1	1.1	1.7			
Dissolved oxygen DO	9.3	7.8	9	12.3			
Calcium Ca	15.7						
Cadmium Cd	0.1 (ug/l)						
Chromium Cr	<3.0 (ug/l)						
Chloride Cl	20.84	13.9	18	22			
Copper Cu	<0.003	<0.003	< 0.003	< 0.003			
Iron Fe	590 (ug/l)						
Lead Pb	<0.3 (ug/l)						
Magnesium Mg	2.4						
Manganese Mn	54 (ug/l)						
Mercury Hg	<0.02 (ug/l)						

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
Nickel Ni	0.7 (ug/l)						
Potassium K	1.3						
Sodium Na	10.5						
Sulphate SO_4	6.1						
Zinc Zn	2.2 (ug/l)	0.002	0.011	4.2 (ug/l)			
Total alkalinity (as $CaCO_3$)	52						
Total organic carbon TOC	7.77						
Total oxidised nitrogen TON	0.361						
Nitrite NO_2	0.016	0.014	0.01	< 0.005			
Nitrate NO_3	0.378	0.278	0.99	0.75			
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Phosphate PO_4	<0.01	<0.01	0.012				

Table I.2(i) SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____SW7_____

Parameter	Results (mg/l)				Sampling method[2] (grab, drift etc.)	Normal Analytical Range[2]	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
pH	7.2	7.1		7			
Temperature	16.1	21		5.2			
Electrical conductivity EC	134.4	120.3		177.8			
Ammoniacal nitrogen NH_4-N	0.524	0.689		0.051			
Chemical oxygen demand	22	45		11			
Biochemical oxygen demand	3.47	4		1.3			
Dissolved oxygen DO	9.2	7.7		12.38			
Calcium Ca	15.8						
Cadmium Cd	0.1 (ug/l)						
Chromium Cr	<3.0 (ug/l)						
Chloride Cl	26.8	17.87		22			
Copper Cu	<0.003	<0.003		< 0.003			
Iron Fe	530 (ug/l)						
Lead Pb	<0.3 (ug/l)						
Magnesium Mg	2.5						
Manganese Mn	49 (ug/l)						
Mercury Hg	<0.02 (ug/l)						

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Jun-16	Jul-16	Dec-16	Feb-17			
Nickel Ni	0.7 (ug/l)						
Potassium K	1.3						
Sodium Na	10.4						
Sulphate SO_4	6.5						
Zinc Zn	2.2 (ug/l)	0.002		2.8 (ug/l)			
Total alkalinity (as $CaCO_3$)	48						
Total organic carbon TOC	12.32						
Total oxidised nitrogen TON	0.341						
Nitrite NO_2	0.034	0.0176		< 0.005			
Nitrate NO_3	0.375	0.2864		0.73			
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Phosphate PO_4	<0.01	<0.01					

Table I.4(i) GROUNDWATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
pH							
Temperature							
Electrical conductivity EC							
Ammoniacal nitrogen NH_4-N							
Dissolved oxygen DO							
Residue on evaporation (180^oC)							
Calcium Ca							
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Cyanide Cn, total							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							
Nickel Ni							
Potassium K							
Sodium Na							

GROUNDWATER QUALITY (SHEET 2 OF 2)

Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
Phosphate PO_4							
Sulphate SO_4							
Zinc Zn							
Total alkalinity (as $CaCO_3$)							
Total organic carbon TOC							
Total oxidised nitrogen TON							
Arsenic As							
Barium Ba							
Boron B							
Fluoride F							
Phenol							
Phosphorus P							
Selenium Se							
Silver Ag							
Nitrite NO_2							
Nitrate NO_3							
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Water level (m OD)							

Table I.6 (i): AMBIENT & BACKGROUND NOISE ASSESSMENT

Need to carry out an assessment for tonal and impulsive noise[1]

	National Grid Reference (6N, 6E)	Sound Pressure Levels (dB)					
		L_{Aeq}		L_{A10}		L_{A90}	
		Ambient	Background[2]	Ambient	Background[2]	Ambient	Background[2]
1. SITE BOUNDARY[3]							
Location 1:							
Location 2:							
Location 3:							
Location 4:							
2. NOISE SENSITIVE LOCATIONS[3]							
Location 1:							
Location 2:							
Location 3:							
Location 4:							

1. Refer to section 5 of the Agency's *Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)* (2012).
2. Background noise levels should be determined in the absence of site specific noise. Where an installation is operational on a 24hr basis, estimates may be given for background noise levels, but this should be noted.
3. All locations should be identified on accompanying drawings.