



**WARNING**  
**IF YOUR ACTIVITY FALLS UNDER THE INDUSTRIAL  
EMISSIONS DIRECTIVE 2010/75/EU  
DO NOT USE THIS APPLICATION FORM.  
PLEASE REFER TO THE ENVIRONMENTAL PROTECTION  
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/epainstructionstolicenseapplicants.html>

<b>EPA Ref. N<sup>o</sup>:</b> <i>(Office use only)</i>	
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*This document does not purport to be and should not be considered  
a legal interpretation of the provisions and requirements of the  
Waste Management Act 1996 as amended.*

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





WASTE Application Form

Environmental Protection Agency  
Application for a Waste Licence

WASTEMANAGEMENT ACT 1996 as amended

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## INTRODUCTION

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

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

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

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

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

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

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

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

**CHECKLIST**

Articles 12 and 13 of the Waste Management (Licensing) Regulations, 2004 (S.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,

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

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

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

- (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,

<b>LOCATION</b>	Section B.4	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

- (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,

<b>LOCATION</b>	Sections B.2	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

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

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<b>LOCATION</b>	Sections B.7, C and D.	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(f) specify the class or classes of activity concerned, in accordance with the Third and Fourth Schedules of the Act<sup>1</sup> 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,

<b>LOCATION</b>	Section B.7	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(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,

<b>LOCATION</b>	Table H.4 (ii)	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

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

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

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

<b>LOCATION</b>	Sections C and D	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(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,

<b>LOCATION</b>	Section L.1	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

<sup>1</sup> Note that the Third and Fourth Schedules of the Act were amended by the European Communities (Waste Directive) Regulations, 2011.

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

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

(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,

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

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

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

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

<b>LOCATION</b>	Sections B, C and H	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

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

<b>LOCATION</b>	Table H.4 (ii)	
<b>CHECKED</b>	<b>Applicant</b> <input checked="" type="checkbox"/>	<b>Official</b> <input type="checkbox"/>

(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,

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

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

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

(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

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

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

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

(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,

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

(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,

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



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(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.2	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**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	Yes	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

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

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**PROCEDURES**

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

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

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

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

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

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

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

Information supplied in this application, including supporting documentation, will be put on public display and be open to inspection by any person. **Should the applicant 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 1:50000 to 1:126720. 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 identified effects	Brief description of effect	Mitigation measures proposed to control effect
Human Beings	Traffic	Traffic congestion, noise and exhaust emissions	No increase in traffic above previous operation of site. Overall reduction in transport of recyclables as currently recyclables collected in Cork are sent to other counties for processing.
	Noise	Noise from site Plant and Equipment impacting on local community	All plant and equipment operated inside buildings. Noise absorbing material installed in part of the buildings. Separation distance to sensitive receptors is relatively large.
Flora and fauna	None		
Soil	None		
Water	Surface Water Contamination	Potential contamination of local stream from waste materials, suspended solids, fire-water or hydrocarbon oils used for maintenance.	Appropriate management and treatment of water and effluent generated on site. Storage of potentially polluting materials inside buildings with concrete floors and containment ramps. Provision of hydrocarbon interceptor, silt trap, balancing tank, pumped outflow and shut-off valve.
	Groundwater Contamination	Potential contamination of groundwater from waste materials, fire-water or hydrocarbon oils used for maintenance.	Storage of potentially polluting materials inside buildings with concrete floors and containment ramps.
Air	Odour	Low levels of odour from contaminants in dry recyclables	All waste handled in buildings
	Dust	Low levels of dust anticipated	All waste handled in buildings
Climate	None		
Landscape	None		



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Material Assets	New Infrastructure for Recycling	Positive	
Cultural Heritage	None		

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

The Non-Technical Summary is provided in Attachment A.1

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Consent of copyright owner required for any other use.

**SECTION B GENERAL****B.1 Applicant's Details****Name\*:** Forge Hill Recycling Ltd**Address:** Forge Hill Waste Transfer Station

Forge Hill

Cork

**Tel:** (021) 4311847**Fax:** Not Applicable**e-mail:** info@fhr.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:** Conor Walsh**Address:** SLR Consulting

7 Dundrum Business Park

Windy Arbour

Dublin 14

**Tel:** 01-2964667 & 086 8337573**Fax:** 01-2964676**e-mail:** cwalsh@slrconsulting.com**Address of registered or principal office of Body Corporate (if applicable)****Address:** Forge Hill Waste Transfer Station

Forge Hill

Cork

**Tel:** (021) 4311847**Fax:** Not Applicable**e-mail:** info@fhr.ie

If the applicant is a body corporate, the following information must be attached as **Attachment B1**:

- a Certified Copy of the Certificate of Incorporation or Memorandum and Article of Association;
- the Companies Registration Number from the Companies Registry Office; and
- a list of the Company Directors.

This information is provided in Attachment B.1

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

Yes	<input type="checkbox"/>
No	<input checked="" type="checkbox"/>

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	<input type="checkbox"/>
Lessee	<input checked="" type="checkbox"/>
Prospective Purchaser	<input type="checkbox"/>
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: Not Applicable

Address:

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.

Jointly owned by Sean Murphy and Feusa, details as follows:

Name: Sean Murphy

Address: Dromin  
 Fossa  
 Killarney  
 County Kerry

Tel: 064-6632458

Fax: 064-6638661

e-mail: sean@kwd.ie

Name: Feusa (an unlimited company owned by Sean Murphy and his spouse Anna Murphy)

Address: FBD House  
 Fels Point  
 Tralee  
 County Kerry

Tel: Use contact details above for Sean Murphy

Fax: Use contact details above for Sean Murphy

e-mail: sean@kwd.ie

\*Current at the time the application is submitted

Drawing WL01, included in Attachment B.1, shows ownership details and the site boundary.



**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**

<b>*Name:</b>	Brian Bruton
<b>Position in organisation:</b>	Operations Manager
<b>Tel:</b>	(021) 4311847
<b>*e-mail:</b>	info@fhr.ie

**B.2 Location of Activity**

<b>Name:</b>	Forge Hill Recycling Ltd
<b>Address*:</b>	Forge Hill
	Ballycurreen
	Cork
	T12 AK44
<b>Tel:</b>	(021) 4311847
<b>Fax:</b>	None
<b>e-mail:</b>	info@fhr.ie

\* Include any townland

<b>National Grid Reference (8 digit 4E,4N)</b>	5668E,56884
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Location maps ( $\leq A3$ ), appropriately scaled, with legible grid references should be enclosed in **Attachment B.2**. The site boundary must be outlined on the map in colour.

The following Drawings are included in Attachment B.2.

- Drawing WL02 – Site Plan
- Drawing WL03 – Location Map
- Drawing WL04 – Services Plan

**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.

<b>Name:</b>	Cork County Council
<b>Address:</b>	County Hall
	Carrigrohane Road
	Cork
	T12R2NC
<b>Tel:</b>	021 4276891
<b>Fax:</b>	021 4276321

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)

Please note that we have re-numbered B.6(a) to B.6(f) as B.3(a) to B.3(f) as we believe these sections were numbered incorrectly in this version of the application form. This change has been made in consultation with the guidance notes and in consultation with an EPA Licensing Inspector.

No		See Section <b>B.3(a)</b> below  <b>NOTE:</b> For <b>Agency initiated reviews</b> , you can disregard the instructions in B.3(a) and progress to Section B.7.
Yes	X	See <b>all</b> of Sections <b>B.3(b) to (f)</b> below. Please note that <b>all</b> structures comprising or for the purposes of the activity must be accounted for in the tables in sections below B.3(c) to B.3(f) below.  <b>NOTE:</b> For <b>Agency initiated reviews</b> , you only need to <u>complete the tables</u> in Sections B.3(c), B.3(d) and B.3(e) below. You <b>DO NOT</b> 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) - **Not Applicable**

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

**B.3 (a) Where planning has never been required**

Where the activity which is the subject of this licence/review application has never required a grant of planning permission previously, **Attachment N<sup>o</sup> B.3** 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. The letter of confirmation from the planning authority and/or An Bord Pleanála, as the case may be, must also confirm whether EIA has been carried out by the planning authority or An Bord Pleanála for any part of the site of the activity.

Not Applicable

**B.3 (b) Environmental Impact Statements**

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

Option	Applicable? (Yes/No)
<p><u>For new licence applications OR review applications where the last licence (excluding reviews initiated by the EPA) was determined before 30<sup>th</sup> September 2012</u></p> <ul style="list-style-type: none"> <li>Where planning permission has been/is required for the site of the activity, <b>you must submit the most recent EIS associated with a planning application or planning permission for the site of the activity.</b></li> <li>Where planning is granted, the planning decision and planners report associated with the EIS should <u>also</u> be submitted.</li> </ul>	<p><b>Yes</b></p> <p>EIS included as Attachment B.3(b).1</p> <p>Related Planning Consent included as Attachment B.3(b).2</p> <p>Planners Report included as Attachment B.3(b).3</p>
<p><u>For review applications where the last licence (excluding reviews initiated by the EPA) was determined after 30<sup>th</sup> September 2012</u></p> <ul style="list-style-type: none"> <li>If this is an application for a licence review, and the last licence review (not including reviews initiated by the EPA) <b>was determined after 30<sup>th</sup> September 2012</b>, you are only required to submit the most recent EIS which has arisen through the planning process <b>since the last licence review</b>. The planning decision and planners report associated with the EIS should also be submitted.</li> </ul>	<p><b>No</b></p>
<p><u>Where an EIS has never been required at planning stage</u></p> <p>Where an EIS has never been required for any planning permission then 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 <b>each</b> of the planning permissions associated with the site of the activity. This information should be included in <b>Attachment N<sup>o</sup> B.3</b>.</p>	<p><b>No</b></p>

**B.3 (c) Planning under Consideration – Not Applicable**

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

- 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.
- Complete the Planning under Consideration Table below, indicating whether an Environmental Impact Statement (EIS) is required by the Planning Authority/An Bord Pleanála as part of that application.
- Where an EIS is not required by the Planning Authority/An Bord Pleanála 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 N<sup>o</sup> B.3**.

**Planning under Consideration Table:**

Planning or Appeal Reference Number	Planning Authority (PA)/An Bord Pleanála (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?

*WASTE Application Form*

**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.3 (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.
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 N<sup>o</sup> B.3**.

**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?
PL 04.202198	An Bord Pleanala	6 <sup>th</sup> November 2003	Materials Recovery Facility at Forge Hill, Kinsale Road, Ballycurreen Co. Cork.	Yes	
06/5945	Cork County Council	28 <sup>th</sup> June 2006	Addition of ESB substation, control room building and new site entrance.	No	
06/10127	Cork County Council	19 <sup>th</sup> January 2007	Demolition of existing recycling building and construction of new recycling building, extension to waste transfer building and new site exit.	No	
15/06426	Cork County Council	29 <sup>th</sup> March 2016 (Not Final, but only 1 <sup>st</sup> party appeal which relates to a special contribution. The Final Decision will have no impact on the other conditions)	Alterations to the existing Materials Recovery Facility [MRF]. The Proposed works include the demolition of part of the existing MRF building, the construction of a new partial first floor and extensions to the existing MRF building, modifications to the façade of the MRF building, a new fence along the southern boundary, car parking and all associated site development works.	No	See Planners Primary Report in Attachment B.3(d).7

**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.

Details of the 2003 planning decision are included below and are sourced from:  
<http://www.pleanala.ie/casenum/202198.htm>

**202198: (S/02/4286)**

**Cork County Council**

Materials recovery facility. Forge Hill, Kinsale, Ballycurreen, Co. Cork.

**Case reference:** PLO4 .202198

**Case type:** Planning Appeal

**Decision:** Grant permission with revised conditions

**Date Signed:** 06/11/2003

**EIS:** Yes

**Parties**

- IpoDec Ireland Ltd. (Applicant)
- City Link Park (Management) Co. Ltd. (Appellant) (Active)
- M.W. Consultants (Appellant(Invalid) (Active)
- M.W. Consultants (Appellant) (Active)
- Programme Officer (Invited S 131) (Active)

**History**

- 06/11/2003: Decided
- 13/03/2003: Lodged

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The Final Decision of the 2003 planning consent is included as Attachment B.3(b).2 and the Bord Pleanala Planner's report is included as Attachment B.3(b).3.

The Final Decision of the June 2006 planning consent (06/5945) is included as Attachment B.3(d).1 and the Cork County Council Planner's report is included as Attachment B.3(d).2.

The Final Decision of the January 2007 planning consent (06/10127) is included as Attachment B.3(d).3 and the Cork County Council Planner's report is included as Attachment B.3(d).4, with a supplementary Planner's report included as Attachment B.3(d).5.

The Final Decision of the latest planning consent (15/06426) is included as Attachment B.3(d).6 and the Cork County Council Planner's primary report is included as Attachment B.3(d).7, with a supplementary Planner's report included as Attachment B.3(d).8.

**B.3 (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 considered 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: – Not Applicable**

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.3 (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?

Not Applicable

Licences and permits

For existing activities, **Attachment N<sup>o</sup> 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)
W0173-01	Waste Licence issued by the EPA for a Material Recovery and Waste Transfer Facility accepting a maximum quantity of 82,000 tonnes of waste per annum.	09/09/2003	Yes, but inactive (site closed for more than 3 years). Due to be surrendered.
WFP-CK-15-0148-01	Waste Facility Permit issued by Cork County Council for the operation of a Materials Recovery Facility accepting a maximum quantity of 49,999 tonnes of waste per annum.	21/12/2015	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 N<sup>o</sup> B.3**.

See Attachment B.3.1, which contains an Appropriate Assessment screening report that was prepared by Glas Ecology in January 2015 and submitted to Cork County Council with the waste permit application that was granted in December 2015.

The Cork County Council Waste Permit issued in December 2015 is included as Attachment B.3.2.

**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.

<b>Name:</b>	Cork County Council / Irish Water Asset Management
<b>Address:</b>	Carrigrennan WWTP
	Little Island
	Cork
<b>Tel:</b>	021 4276891
<b>Fax:</b>	021 4276321

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.

See Attachment B.4, which contains a copy of the 'Licence to Discharge Trade Effluent to Sewer', issued by Irish water on 30<sup>th</sup> November 2015. (Licence No. IW-DTS-728357-01)

**B.5 Other Authorities**

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

<b>Name:</b>	Southern Health Board
<b>Address:</b>	18/20 Denny Street
	Tralee
	County Kerry
<b>Tel:</b>	066-7121566
<b>Fax:</b>	

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**B.6 Notices and Advertisements**

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

**Attachment B.6** should contain a copy of the site notice and an appropriately scaled drawing ( $\leq A3$ ) 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.

Attachment B.6 contains the wording of the site notice and the full page of the newspaper notice.

Drawing WL05 is also included in Attachment B.6 and shows the location of the site notice.

A Letter notifying the Planning Authority (Cork County Council) is also included in Attachment B.6.



**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.).	N	R 1	<p>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:</p> <ul style="list-style-type: none"> <li>- 0.60 for installations in operation and permitted in accordance with applicable Community acts before 1 January 2009,</li> <li>- 0.65 for installations permitted after 31 December 2008,</li> </ul> <p>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—</p> <p>‘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),</p> <p>‘Ef’ means annual energy input to the system from fuels contributing to the production of steam (GJ/year),</p> <p>‘Ew’ means annual energy contained in the treated waste calculated using the net calorific value of the waste (GJ/year),</p> <p>‘Ei’ means annual energy imported excluding Ew and Ef(GJ/year),</p> <p>‘0.97’ is a factor accounting for energy losses due to bottom ash and radiation.</p>	N
D 2	Land treatment (e.g. biodegradation of liquid or sludgy discards in soils, etc.).	N	R 2	Solvent reclamation/regeneration.	N
D 3	Deep injection (e.g. injection of pumpable discards into wells, salt domes or naturally occurring repositories, etc.).	N	R 3	Recycling /reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes), which includes gasification and pyrolysis using the components as chemicals.	Y



## WASTE Application Form

D 4	Surface impoundment (e.g. placement of liquid or sludgy discards into pits, ponds or lagoons, etc.).	N	R 4	Recycling/reclamation of metals and metal compounds.	Y
D 5	Specially engineered landfill (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc.).	N	R 5	Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials.	Y
D 6	Release into a water body except seas/oceans.	N	R 6	Regeneration of acids or bases.	N
D 7	Release to seas/oceans including sea-bed insertion.	N	R 7	Recovery of components used for pollution abatement.	N
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.	N	R 8	Recovery of components from catalysts.	N
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.).	N	R 9	Oil re-refining or other reuses of oil.	N
D 10	Incineration on land.	N	R 10	Land treatment resulting in benefit to agriculture or ecological improvement.	N
D 11	Incineration at sea (this operation is prohibited by EU legislation and international conventions).	N	R 11	Use of waste obtained from any of the operations numbered R 1 to R 10.	N
D 12	Permanent storage (e.g. emplacement of containers in a mine, etc).	N	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).	P
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).	N	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).	Y
D 14	Repackaging prior to submission to any of the operations numbered D 1 to D 13.	N			
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			

Attachment B.7 provides further detail on the proposed activities.

**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.

<b>Maximum Annual Tonnage (tpa)</b>	82,000
<b>Year</b>	2017

**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)	0
Recovery of Waste (4)	10,000

**TABLE B.7.4 (FOR A LANDFILL APPLICATION) – NOT APPLICABLE**

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

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

**TABLE B.7.5 (FOR A LANDFILL APPLICATION) – NOT APPLICABLE**

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:

Total quantity of waste to be deposited at the landfill facility	Tonnes*	Void in cubic metres (m <sup>3</sup> )
(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 activity is for the purposes of an establishment to which the European Communities (Control of Major Accident Hazards involving Dangerous substances) Regulations, 2006 (S.I. No. 74 of 2006), apply.

<b>Regulations Apply</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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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.

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## WASTE Application Form

### 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) for - removal AND - disposal in case of sudden closure	Cost (euro)	Disposal route and/or technique	Notes, rationale, clarifications
Quarantine areas	1	4	150	150	Landfill (125) plus transport (25)	Dry recyclables only, so quarantine area is likely to have non-recyclable household waste
Inspection areas	5	21	60	300	Dry Recyclable MRF (35) plus transport (25)	Assume Dry Recyclables sent to alternative MRF
Storage areas (untreated waste)	100	417	60	6000	Dry Recyclable MRF (35) plus transport (25)	Assume Dry Recyclables sent to alternative MRF
Waste on Process Line	10	42	60	600	Dry Recyclable MRF (35) plus transport (25)	Assume Dry Recyclables sent to alternative MRF
Storage area (baled paper & card)	200	385	0	0	Dry Recyclable MRF or broker (collected)	Assume bales of paper/card are collected from site for free
Storage area (baled plastic)	150	375	0	0	Dry Recyclable MRF or broker (collected)	Assume bales of plastic are collected from site for free
Storage area (baled metal cans)	100	167	0	0	Dry Recyclable MRF or broker (collected)	Assume baled metal cans are collected from site for free
Non-Recyclable Residues	20	80	150	3000	Landfill (125), WtE or SRF production plus transport (25)	One compactor of non-recyclable municipal waste. Replaced several times per day.
<b>Total</b>	<b>586</b>	<b>1,491</b>		<b>10,050</b>		

See Attachment B.9.1 for further details. Assumptions on density of materials is explained in Attachment D.1(o).

**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
Sean Murphy	Managing Director	Overall Responsibility for Facility Performance	Over 25 years’ experience in the waste industry. Set up KWD Recycling in Killarney in 1989 collecting all types of waste and recycling. Currently operates an EPA licenced facility with one of the biggest volume mixed dry recyclables processing plants in the country.
Brian Bruton	EHS/ Operations Manager	Responsible environmental, health and safety matters	10 years working in the waste/recycling industry. Vast knowledge in production, environmental, health & safety and site management of a MRF facility. Greatly experienced in dealing with waste/recycling authorities including local councils, EPA & TFS. Has completed the Waste Management training programme.
Niall Jordan	Production Manager	Responsible for daily site operations	10 years’ experience in the waste/recycling industry. Worked in varying areas across the spectrum of the day to day running of an MRF on 2 EPA licenced sites. Roles covered include weighbridge, customer service, exports, environment, quality and production. Has completed modules of the Waste Management Training Programme.

**C.2 Environmental Management System**

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

See Attachment C.2.

**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.

See Attachment C.3.

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**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	Attachment D1(a)
D.1.b	Designs for site roads	Y	Attachment D1(b)
D.1.c	Design of hard-standing areas	Y	Attachment D1(c)
D.1.d	Plant	Y	Attachment D1(d)
D.1.e	Wheel-wash	Y	Attachment D1(e)
D.1.f	Laboratory facilities	N	Attachment D1(f)
D.1.g	Design and location of fuel storage areas	N	Attachment D1(g)
D.1.h	Waste quarantine areas	Y	Attachment D1(h)
D.1.i	Waste inspection areas	Y	Attachment D1(i)
D.1.j	Traffic control	Y	Attachment D1(j)
D.1.k	Sewerage and surface water drainage infrastructure	Y	Attachment D1(k)
D.1.l	All other services	Y	Attachment D1(l)
D.1.m	Plant sheds, garages and equipment compound	Y	Attachment D1(m)
D.1.n	Site accommodation	Y	Attachment D1(n)
D.1.o	A fire control system, including water supply	Y	Attachment D1(o)
D.1.p	Civic amenity facilities	N	
D.1.q	Any other waste recovery infrastructure	N	
D.1.r	Composting infrastructure	N	
D.1.s	Construction and Demolition waste infrastructure	N	
D.1.t	Incineration infrastructure (if applicable). Provide information to fulfil Article 4 (2) & (3) of the Incineration of Waste Directive	N	
D.1.u	Any other infrastructure	N	

**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*.

See Attachment D.2

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.

<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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**LANDFILLS - Not Applicable**

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 - Not Applicable**

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		
D.3.b	What type of liner system is specified?		
D.3.c	Has a Quality Control Plan been specified?		
D.3.d	Has a Quality Assurance Plan been specified?		
D.3.e	Has independent, third-party supervision, testing and controls been specified?		
D.3.f	Have basal gradients for all cells and access ramps to the cells been designed?		
D.3.g	Has a leak detection survey been specified?		



**D.4 Leachate Management - Not Applicable**

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?		
D.4.b	Have annual quantities of leachate been calculated?		
D.4.c	Has the total quantity of leachate been calculated?		
D.4.d	Has the size of the cells been specified taking account of the water balance calculations?		
D.4.e	Has a leachate collection system been specified?		
D.4.f	Has a leachate storage system been specified?		
D.4.g	Has a system for monitoring the level of leachate in the waste been designed?		
D.4.h	Is leachate recirculation proposed/practised?		
D.4.i	Has leachate treatment on-site been specified?		
D.4.j	Has leachate removal been specified?		

**D 5 Landfill Gas Management - Not Applicable**

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	<p>Is there a Landfill Gas Management Plan?</p> <p>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:</p>		
D.5b	Is there a passive venting system?		
D.5c	Does the passive system cover all of the filled area?		
D.5d	Have gas alarm systems been installed in the site buildings?		
D.5e	Have measures been installed to prevent landfill gas migration (e.g. barriers)?		
D.5f	Has a time-scale been proposed for the installation of landfill gas infrastructure?		
D.5g	Is gas flaring undertaken at the site?		
D.5h	Is there an active (i.e., pumped) landfill gas extraction system?		
D.5i	Does the active system cover all of the filled area?		
D.5j	Is landfill gas used to generate energy at the site?		
D.5k	Have emissions from the flare stack and utilisation plant been assessed for source, composition, quantity and level and rate?		
D.5l	Has a maintenance programme for the control system been specified?		
D.5m	Has a condensate removal system been designed?		

**D.6 Capping System - Not Applicable**

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?		
D.6b	Has the intermediate cover been specified?		
D.6c	Has the temporary capping been specified?		
D.6d	Has the Capping System been designed and does it meet the requirements of the Landfill Directive Annex 1 (3.3)?		
D.6e	Does the Capping System include a flexible membrane liner?		
D.6f	Have all capping materials been specified?		
D.6g	Has a Method Statement for construction been produced?		
D.6h	Has a Quality Control Plan been produced?		
D.6i	Has a Quality Assurance Plan been produced?		
D.6j	Has a programme for monitoring landfill stability been developed?		
D.6k	Has a programme for monitoring landfill settlement been developed?		


**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.

See Attachment E.1

**E.2 Emissions to Surface Waters**

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

See Attachment E.2

**E.3 Emissions to Sewer**

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

See Attachment E.3

**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**

See 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](http://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	<b>Control method specified</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Dust Control	<b>Control method specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Fire Control	<b>Control method specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Litter Control	<b>Control method specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Traffic Control	<b>Control method specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Vermin Control	<b>Control method specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Road Cleansing	<b>Control method specified</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

**SECTION F CONTROL & MONITORING**

**F.1: Treatment, Abatement and Control Systems**

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

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

**Attachment F.1** should contain any supporting information.

See Attachment F.1.

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

The proposed monitoring points are detailed in the Table below with ITM grid references. The monitoring points on or adjacent to the site are shown on Drawing WL17. The locations of the noise sensitive receptors are shown Drawing WL18.

**Grid References for Proposed Monitoring Points at Forge Hill**

Medium	Location	Monitoring Point Reference	Irish Transverse Mercator	
			Easting	Northing
Surface Water	Site Discharge Point	SW1	566,793	568,771
Foul Water	Trade Effluent Discharge Point	FW1	566,799	568,771
Groundwater	Back yard of site	GW1	566,905	568,827
Dust	SW of site	D1	566,837	568,772
Dust	NW of Site	D2	566,768	568,816
Dust	SE of Site	D3	566,901	568,790
Dust	NE of Site	D4	566,900	568,859
Noise (on site)	Site Boundary - South	N1	566,869	568,778
Noise (on site)	Site Boundary - West	N2	566,776	568,794
Noise (on site)	Site Boundary - North	N3	566,848	568,843
Noise (on site)	Site Boundary - East	N4	566,912	568,835
Noise (receptor)	ESE of site - bungalow at Ferrero Factory	NSL1	567,005	568,771
Noise (receptor)	NW of site - 2 storey house on Forge Hill Rd.	NSL2	566,693	568,860
Noise (receptor)	WSW of site - No.20 Manor Park	NSL3	566,632	568,620

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*

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

**F.3 Surface Water**

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

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

**F.4 Sewer Discharge**

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

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

**F.5 Groundwater**

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

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

**F.6 Noise**

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

**F.7 Meteorological Data**

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

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

**F.8 Leachate**

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

**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 <sup>3</sup> )	Proposed Frequency of Analysis	Information Included Y/N	Method of Analysis	Information Included Y/N
<b>Inlet</b>					
Methane (CH <sub>4</sub> ) % v/v					
Carbon dioxide (CO <sub>2</sub> ) %v/v					
Oxygen (O <sub>2</sub> ) % v/v					
<b>Outlet</b>					
Volumetric Flow Rate					
SO <sub>2</sub>					
Nox					
CO					
Particulates					
TA Luft Class I, II, III organics					
Hydrochloric acid					
Hydrogen Fluoride					





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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 <sub>4</sub> ) % v/v					
Carbon Dioxide (CO <sub>2</sub> ) % v/v					
Oxygen (O <sub>2</sub> ) % 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				

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

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**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*.

<b>Attachment included</b>	<b>yes</b> <input checked="" type="checkbox"/> <b>no</b> <input type="checkbox"/> <b>not applicable</b> <input type="checkbox"/>
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**G.2 Energy Efficiency**

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

<b>Attachment included</b>	<b>yes</b> <input checked="" type="checkbox"/> <b>no</b> <input type="checkbox"/> <b>not applicable</b> <input type="checkbox"/>
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**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	43,680 to 68,040
Class D 4		Class R 4	2,100 to 4,080
Class D 5		Class R 5	0 to 1,200
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	72,000 to 82,000
Class D 13		Class R 13	60,000 to 70,000
Class D 14			
Class D 15	0 to 3,000		

Note that details are presented in Table H.4(ii)

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)
2016	82,000 (pro-rata depending on commencement date)	0	82,000
2017	82,000	0	82,000
2018	82,000	0	82,000
2019	82,000	0	82,000
2020	82,000	0	82,000
2021	82,000	0	82,000

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

**TABLE H.1 (C) WASTE TYPES AND QUANTITIES**

WASTE TYPE	TONNES PER ANNUM (existing)	TONNES PER ANNUM (proposed)	TOTAL (over life of site) tonnes
Household	0	70,000	Site life not known
Commercial	0	12,000	Site life not known
Sewage Sludge	0	0	0
Construction and Demolition	0	0	0
Industrial Non-Hazardous Sludges	0	0	0
Industrial Non-Hazardous Solids	0	0	0
Hazardous *(Specify detail in Table H 1.2)	0	0	0
Inert Waste imported for restoration purposes	COMPLETELY 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	Not Applicable	0	0
Oil filters	Not Applicable	0	0
Asbestos	Not Applicable	0	0
Paint and Ink	Not Applicable	0	0
Batteries	Not Applicable	0	0
Fluorescent Light Bulbs	Not Applicable	0	0
Contaminated Soils	Not Applicable	0	0
<b>OTHER HAZARDOUS WASTE (APPLICANT TO SPECIFY)</b>			
	Not Applicable	0	0

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**.

The Waste Acceptance Procedures are included in the EMS as EP01 and this is included in Attachment C.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*.

The Waste Handling Procedures are included in the EMS, which is included in Attachment C.2.

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

#### ***H.3a Waste Handling at the Landfill Facility - Not Applicable***

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<sup>3</sup>) and tonnage (t) for their waste stream.

See Attachment H.4

#### **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.

See Attachment H.5

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**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 ( $\leq A3$ ), 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

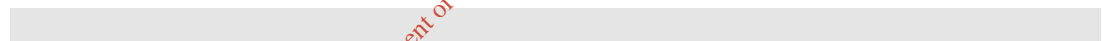
Complete Table I.6 (i) in relation to the information required below:

- (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 N<sup>o</sup> 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*



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**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**.

<b>Attachment included</b>	<b>yes</b> <input checked="" type="checkbox"/>	<b>no</b> <input type="checkbox"/>	<b>not applicable</b> <input type="checkbox"/>
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Attachment J contains a fully costed Environmental Liabilities Risk Assessment (ELRA) prepared by SLR Consulting in April 2016. The ELRA report addresses the worst case potential accidents and emergencies.

The EMS included in Attachment C.2 includes a number of procedures to address accidents and emergency situations, including the following:

- EP07 – Corrective and Preventative Action
- EP09 – Emergency Response
- EP18 – Oil Spill Clean-up

The Emergency Response Procedure addresses the response to emergency situations such as a fire occurring out of normal working hours. Also, the mobile phone numbers of key personnel will be available at strategic locations on site in case contact is necessary outside of normal operating hours.

**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.

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

Attachment K contains a fully costed Closure and Decommissioning Plan prepared by SLR Consulting in April 2016.

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**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.

<b>Attachment included</b>	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
----------------------------	------------------------------	-----------------------------	---

**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).

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- 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.

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

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

**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.

<b>Attachment included</b>	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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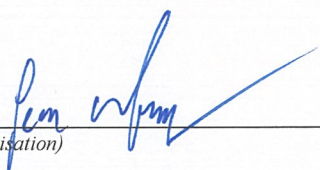
**SECTION M DECLARATION**

**Declaration**

I hereby make application for a licence / revised licence, pursuant to the provisions of the Waste Management 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 : 28-04-16  
(on behalf of the organisation)

Print signature name: SEAN MURPHY

Position in organisation : MANAGING DIRECTOR

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Company stamp or seal:

**Forge Hill Recycling Ltd.**  
Forge Hill, Cork, T12 AK44  
Tel 021 4311 847 info@fhr.ie  
Vat No.3316746UH

## 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: None**

Emission Point Ref. N <sup>o</sup> :	
Location :	
Grid Ref. (12 digit, 6E,6N):	
<b>Vent Details</b>	
Diameter:	
Height above Ground(m):	
Date of commencement of emission:	

**Characteristics of Emission:**

CO	mg/m <sup>3</sup>
Total organic carbon (TOC)	mg/m <sup>3</sup>
NO <sub>x</sub>	mg/Nm <sup>3</sup> 0°C. 3% O <sub>2</sub> (Liquid or Gas), 6% O <sub>2</sub> (Solid Fuel)
Maximum volume of emission	m <sup>3</sup> /hr
Temperature	°C(max)      °C(min)      °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 None**  
 (1 Page for each emission point)

Emission Point Ref. N <sup>o</sup> :	
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 <sup>3</sup> /d	Maximum/day	m <sup>3</sup> /d
Maximum rate/hour	m <sup>3</sup> /h	Min efflux velocity	m.sec <sup>-1</sup>
(ii) Other factors			
Temperature	°C(max)	°C(min)	°C(avg)
For Combustion Sources:			
Volume terms expressed as : <input type="checkbox"/> wet. <input type="checkbox"/> dry. _____%O <sub>2</sub>			

(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
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**TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission **None**** (1 table per emission point)

**Emission Point Reference Number:** \_\_\_\_\_

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

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



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

Emission point Reference Numbers	Description	Emission details <sup>1</sup>				Abatement system employed
		material	mg/Nm <sup>3(2)</sup>	kg/h.	kg/year	

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- 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°C/101.3kPa). Wet/dry should be clearly stated. Include reference oxygen conditions for combustion sources.



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

**Emission Point:**

Emission Point Ref. N <sup>o</sup> :	SW1
Source of Emission:	Roof run-off and yard run-off via interceptor. Pumped from balancing tank to SW1.
Location :	Manhole outside southernmost entrance gate. See Drawing WL10.
Grid Ref. (10 digit, 5E,5N):	566793, 568771 (ITM)
Name of receiving waters:	Tramore River (via local stream)
Flow rate in receiving waters:	<u>Not relevant</u> m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow <u>Not relevant</u> m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow
Available waste assimilative capacity:	Not applicable kg/day

**Emission Details:**

(i) Volume to be emitted			
Normal/day	26.9 m <sup>3</sup>	Maximum/day	626 m <sup>3</sup>



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Maximum rate/hour	194 m <sup>3</sup>		
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(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
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Periods of Emissions are rainfall dependent.

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

Emission point reference number : SW1

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	
Mineral Oils						5			

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

**Emission Point:**

Emission Point Ref. N <sup>o</sup> :	FW1
Location of connection to sewer :	At Northernmost Gate of Site on Forge Hill Road.
FW1 Grid Ref. (10 digit, 5E,5N):	566799,568771 (ITM)
Name of sewage undertaker:	Irish Water / Cork County Council

**Emission Details:**

(i) Volume to be emitted			
Normal/day	7.4 m <sup>3</sup>	Maximum/day	100 m <sup>3</sup>
Maximum rate/hour	30 m <sup>3</sup>		

(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)	Rainfall Dependent min/hr hr/day	Rainfall Dependent Rainfall Dependent day/yr
---------------------------	-------------------------------------	---

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

Emission point reference number : FW1

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	
pH					6.0-9.0	6.0-9.0			
Temperature					25 deg C	25 deg C			
BOD						2,000	200		
COD						4,000	400		
Suspended Solids						500	50		
VOCs						1			
Total Nitrogen						100			
Sulphates (as SO4)						750			
Detergents as (MBAS)						10			
FOG						100			
Total Heavy Metals						1			
Mineral Oils						5			
Total Hydrocarbons						5			
Toxicity						10 Toxicity Units			

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**TABLE E.4(i): EMISSIONS TO GROUNDWATER** None (1 Page for each emission point)

**Emission Point or Area:**

Emission Point/Area Ref. N <sup>o</sup> :	
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:	

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Emission Details:

(i) Volume to be emitted			
Normal/day	m <sup>3</sup>	Maximum/day	m <sup>3</sup>
Maximum rate/hour	m <sup>3</sup>		

(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
---------------------------	--------------	--------------	--------------

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

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

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.

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**TABLE F.1: ABATEMENT / TREATMENT CONTROL**

**Emission point reference number:** SW1

Control <sup>1</sup> parameter	Equipment <sup>2</sup>	Equipment maintenance	Equipment calibration	Equipment back-up
Hydrocarbon and silt removal	Class 1 Full Retention Hydrocarbon Interceptor (Kingspan Klargester NSFP100/NSFA100)	Maintained by hydrocarbon and silt removal, as necessary	Filters checked after hydrocarbon and silt removal	Filters can be cleaned or replaced promptly

Control <sup>1</sup> parameter	Monitoring to be carried out <sup>3</sup>	Monitoring equipment	Monitoring equipment calibration
Hydrocarbon and silt removal	Interceptor Inspected weekly SW1 monitored as per Table F.3 below	Visual Inspection	Not Applicable

**Emission point reference number:** FW1

Control <sup>1</sup> parameter	Equipment <sup>2</sup>	Equipment maintenance	Equipment calibration	Equipment back-up
Hydrocarbon and silt removal	Class 1 Full Retention Hydrocarbon Interceptor (Kingspan Klargester NSFP15/NSFA15)	Maintained by hydrocarbon and silt removal, as necessary	Filters checked after hydrocarbon and silt removal	Filters can be cleaned or replaced promptly

Control <sup>1</sup> parameter	Monitoring to be carried out <sup>3</sup>	Monitoring equipment	Monitoring equipment calibration
Hydrocarbon and silt removal	Interceptor Inspected weekly FW1 monitored as per Table F.4 below	Visual Inspection	Not Applicable



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**TABLE F.2: DUST MONITORING AND SAMPLING LOCATIONS**

Monitoring Point Reference Nos : [D1, D2, D3 and D4](#)

Parameter	Monitoring frequency	Accessibility of Sampling point
Dust (mg/m <sup>2</sup> /day)	Quarterly	Accessible from yard areas, although may be elevated above normal reach, so step-ladder may be required.

**TABLE F.3: SURFACE WATER EMISSIONS MONITORING AND SAMPLING POINT**

Emission Point Reference No. : [SW1](#)

Parameter	Monitoring frequency	Accessibility of Sampling Points
pH	Quarterly	Manhole at site entrance – traffic control necessary during sampling.
BOD	Quarterly	Manhole at site entrance – traffic control necessary during sampling.
Suspended Solids	Quarterly	Manhole at site entrance – traffic control necessary during sampling.
Heavy Metals	Bi-annually	Manhole at site entrance – traffic control necessary during sampling.
Total Petroleum Hydrocarbons	Quarterly	Manhole at site entrance – traffic control necessary during sampling.
Ammoniacal Nitrogen	Quarterly	Manhole at site entrance – traffic control necessary during sampling.
Mineral Oils	Quarterly	Manhole at site entrance – traffic control necessary during sampling.
Fats, Oils, Grease	Quarterly	Manhole at site entrance – traffic control necessary during sampling.
Odour / Visual Inspection	Daily	This can be carried out at the Balancing Tank to avoid daily disruption at the site entrance.



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**TABLE F.4: SEWER DISCHARGE MONITORING AND SAMPLING POINT**

Emission Point Reference No. : [FW1](#)

Parameter	Monitoring frequency	Accessibility of Sampling Points
Flow	Continuous	Flow gauge in manhole – results accessible in office.
pH	Continuous	Flow gauge in manhole – results accessible in office.
Temperature	Continuous	Flow gauge in manhole – results accessible in office.
BOD	Monthly	Manhole close to site entrance – traffic control necessary during sampling.
COD	Weekly	Manhole close to site entrance – traffic control necessary during sampling.
Suspended Solids	Weekly	Manhole close to site entrance – traffic control necessary during sampling.
VOCs	Quarterly	Manhole close to site entrance – traffic control necessary during sampling.
Total Nitrogen	Bi-annually	Manhole close to site entrance – traffic control necessary during sampling.
Sulphates (as SO <sub>4</sub> )	Quarterly	Manhole close to site entrance – traffic control necessary during sampling.
Detergents (as MBAS)	Quarterly	Manhole close to site entrance – traffic control necessary during sampling.
Fats, Oils, Grease	Monthly	Manhole close to site entrance – traffic control necessary during sampling.
Total Heavy Metals	Annually	Manhole close to site entrance – traffic control necessary during sampling.
Mineral Oils	Bi-annually	Manhole close to site entrance – traffic control necessary during sampling.
Total Hydrocarbons	Bi-annually	Manhole close to site entrance – traffic control necessary during sampling.
Toxicity	As Requested	Manhole close to site entrance – traffic control necessary during sampling.

**TABLE F.5: GROUNDWATER MONITORING AND SAMPLING POINT**

Emission Point Reference No. : GW1

Parameter	Monitoring frequency	Accessibility of Sampling Points
Visual Inspection / Odour	Bi-annually	Borehole under manhole cover in back yard.
Ammoniacal Nitrogen	Bi-annually	Borehole under manhole cover in back yard.
Heavy Metals	Bi-annually	Borehole under manhole cover in back yard.
Total Petroleum Hydrocarbons	Bi-annually	Borehole under manhole cover in back yard.

**TABLE F.6: NOISE MONITORING POINTS**

Monitoring Point Reference No(s) : N1, N2, N3 and N4 (site boundaries) and NSL1, NSL2 and NSL3 (noise sensitive locations)

Parameter	Monitoring frequency	Accessibility of Sampling Points
L(A) <sub>EQ</sub> [30 minutes]	Bi-annually	Yard and roadside
L(A) <sub>10</sub> [30 minutes]	Bi-annually	Yard and roadside
L(A) <sub>90</sub> [30 minutes]	Bi-annually	Yard and roadside
Frequency Analysis (1/3 Octave Band Analysis)	Bi-annually	Yard and roadside



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

<b>Ref. N° or Code</b>	<b>Material/ Substance<sup>(1)</sup></b>	<b>CAS Number</b>	<b>Danger<sup>(2)</sup> Category</b>	<b>Amount Stored (tonnes)</b>	<b>Annual Usage (tonnes)</b>	<b>Nature of Use</b>	<b>R<sup>(3)</sup> - Phrase</b>	<b>S<sup>(3)</sup> - Phrase</b>

- 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 N° 77/94  
3. c.f. Schedules 2 and 3 of SI N° 77/94

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**TABLE H.4(i): WASTE - Hazardous Waste Recovery/Disposal - None**

Waste material	EWC Code	Main source <sup>1</sup>	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 <sup>3</sup> / month			

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<sup>1</sup> A reference should be made to the main activity / process for each waste.

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

Waste material	EWC Code	Main source <sup>1</sup>	Quantity		Assumed Density	On-site recovery/disposal <sup>2</sup> (Method & Location)	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month	m <sup>3</sup> / month				
Mixed Dry Recyclables	200301/150106	Household kerbside collections (commercial also)	6,000 to 6,800	25,000 to 28,333	0.24	Segregation and baling of single streams		
Cardboard	150101	Mixed dry recyclables	700 to 1,300	1,346 to 2,500	0.52	Baling after segregation	Export to <b>paper mill</b> via Port of Cork	
Paper	150101/200101	Mixed dry recyclables	2,000 to 2,400	3,846 to 4,615	0.52	Baling after segregation	Export to <b>paper mill</b> via Port of Cork	
PET Bottles	150102	Mixed dry recyclables	200 to 400	500 to 1,000	0.4	Baling after segregation	Export to <b>plastics recycler</b> via Port of Cork or to UK via Dublin Port.	
HDPE Bottles	150102	Mixed dry recyclables	200 to 400	500 to 1,000	0.4	Baling after segregation	Export to <b>plastics recycler</b> via Port of Cork or to UK via Dublin Port.	
Ferrous Metals	150104	Mixed dry recyclables	140 to 270	233 to 450	0.6	Baling after segregation	Export to <b>metals recycler</b> via Port of Cork or to UK via Dublin Port.	
Aluminium Metals	150104	Mixed dry recyclables	35 to 70	88 to 175	0.4	Baling after segregation	Export to <b>aluminium recycler</b> via Port of Cork or to UK via Dublin Port.	
Clear Film 90/10	150102	Mixed dry recyclables	140 to 270	350 to 675	0.4	Baling after segregation	Export to <b>plastics recycler</b> via Port of Cork	
Mixed Film	150102	Mixed dry recyclables	400 to 700	1,000 to 1,750	0.4	Baling after segregation	Export to <b>plastics recycler</b> via Port of Cork	
Dross (incl Fines)	191212	Mixed dry recyclables	550 to 1,200	2,291 to 5,000	0.24	Rejected from process	<b>SRF production or Waste to Energy</b> (Indaver or Covanta)	<b>Landfill</b> if no SRF or WtE outlet available
Wood / Timber	150103/170201	Commercial waste	0 to 100	0 to 667	0.15	Storage & bulking only	Eirebloc, Macroom, Co. Cork for <b>timber block manufacture</b>	
Textiles	150109/200111	Commercial waste	0 to 100	0 to 667	0.15	Storage & bulking only	<b>Textile recycling</b> or reuse in Ireland or abroad.	
Glass	150107/170203	Commercial waste	0 to 100	0 to 333	0.3	Storage & bulking only	Rehab Glassco in Kildare or Quinn Glass in Fermanagh for <b>recycling</b>	



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Table I.2(i) SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: \_\_SW1

Parameter	Results (mg/l)				Sampling method <sup>2</sup> (grab, drift etc.)	Normal Analytical Range <sup>2</sup> (Limit of Detection)	Analysis method / technique  (See Attachment I.2.2 for details)
	Date	Date	Date	Date 26/01/15			
pH				8.38	(pH Units) - grab	<0.01	TM73/PM0
Temperature							
Electrical conductivity EC				510	(uS/cm @25C) grab	<2	TM76/PM0
Ammoniacal nitrogen NH <sub>4</sub> -N				<0.03	grab	<0.03	TM38/PM0
Chemical oxygen demand							
Biochemical oxygen demand				<1	grab	<1	TM38/PM0
Dissolved oxygen DO							
Calcium Ca							
Cadmium Cd				<0.0005	grab	<0.0005	TM30/PM14
Chromium Cr				<0.0015	grab	<0.0015	TM30/PM14
Chloride Cl							
Copper Cu				<0.007	grab	<0.007	TM30/PM14
Iron Fe				0.272	grab	<0.02	TM30/PM14
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg				<0.001	grab	<0.001	TM30/PM14

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range (Limit of Detection)	Analysis method / technique (See Attachment I.4.1 for details)
	Date	Date	Date	Date 26/01/15			
Nickel Ni				<0.002	grab	<0.002	TM30/PM14
Potassium K							
Sodium Na							
Sulphate SO <sub>4</sub>							
Zinc Zn							
Total alkalinity (as CaCO <sub>3</sub> )							
Total organic carbon TOC							
Total oxidised nitrogen TON							
Nitrite NO <sub>2</sub>							
Nitrate NO <sub>3</sub>							
Faecal coliforms ( /100mls)							
Total coliforms ( /100mls)							
Phosphate PO <sub>4</sub>							
Aluminium Al				0.093	grab	<0.02	TM30/PM14
Arsenic As				<0.0025	grab	<0.0025	TM30/PM14
Mineral Oil (C10-C40)				<0.01	grab	<0.01	TM5/PM30
Fats Oils and Grease				<0.01	grab	<0.01	TM5/PM30
Total Petroleum Hydrocarbons				<0.01	grab	<0.01	TM5/TM36/PM30
MTBE				<0.005	grab	<0.005	TM36/PM12
BTEX				<0.005	grab	<0.005	TM36/PM12
Total Suspended Solids				<10	grab	<10	TM37/PM0

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**Table I.4(i) GROUNDWATER QUALITY**  
 (Sheet 1 of 2) Monitoring Point/ Grid Reference: \_\_GW1

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range (Limit of Detection)	Analysis method / technique (See Attachment I.4.1 for details)
	Date	Date	Date	Date 05/06/14			
pH				6.94	(pH Units) - grab	<0.01	TM73/PM0
Temperature							
Electrical conductivity EC				623	(uS/cm @25C) grab	<2	TM76/PM0
Ammoniacal nitrogen NH <sub>4</sub> -N				0.07	grab	<0.03	TM38/PM0
Dissolved oxygen DO				2	grab	<1	TM59/PM0
Residue on evaporation (180°C)							
Calcium Ca				85	grab	<0.2	TM30/PM14
Cadmium Cd				<0.0005	grab	<0.0005	TM30/PM14
Chromium Cr				<0.0015	grab	<0.0005	TM30/PM14
Chloride Cl				46.2	grab	<0.3	TM38/PM0
Copper Cu				<0.007	grab	<0.007	TM30/PM14
Cyanide Cn, total							
Iron Fe				<0.020	grab	<0.020	TM30/PM14
Lead Pb				<0.005	grab	<0.005	TM30/PM14
Magnesium Mg				13.8	grab	<0.1	TM30/PM14
Manganese Mn				0.943	grab	<0.002	TM30/PM14
Mercury Hg				<0.001	grab	<0.001	TM30/PM14
Nickel Ni				0.010	grab	<0.002	TM30/PM14
Potassium K				2.0	grab	<0.1	TM30/PM14
Sodium Na				35.9	grab	<0.1	TM30/PM14

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GROUNDWATER QUALITY (SHEET 2 OF 2)

Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range (Limit of Detection)	Analysis method / technique (See Attachment I.4.1 for details)
	Date	Date	Date	Date 05/06/14			
Phosphate PO <sub>4</sub>							
Sulphate SO <sub>4</sub>				50.13	grab	<0.05	TM38/PM0
Zinc Zn				<0.003	grab	<0.003	TM30/PM14
Total alkalinity (as CaCO <sub>3</sub> )							
Total organic carbon TOC				2	grab	<2	TM60/PM0
Total oxidised nitrogen TON				<0.2	grab	<0.2	TM38/PM0
Arsenic As							
Barium Ba				0.082	grab	<0.003	TM30/PM14
Boron B				0.034	grab	<0.012	TM30/PM14
Fluoride F							
Phenol				<0.001	grab	<0.001	TM16/PM30
Phosphorus P				0.167	grab	<0.005	TM30/PM14
Selenium Se							
Silver Ag							
Nitrite NO <sub>2</sub>							
Nitrate NO <sub>3</sub>							
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Water level (m OD)							

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**Table L6 (i): AMBIENT & BACKGROUND NOISE ASSESSMENT**

*Need to carry out an assessment for tonal and impulsive noise<sup>1</sup>*

	National Grid Reference (ITM) (6N, 6E)	Sound Pressure Levels (dB)					
		L <sub>Aeq</sub>		L <sub>A10</sub>		L <sub>A90</sub>	
		Ambient	Background <sup>2</sup>	Ambient	Background <sup>2</sup>	Ambient	Background <sup>2</sup>
<b>1. SITE BOUNDARY<sup>3</sup></b>							
<b>Location 1:</b>							
<b>Location 2:</b>							
<b>Location 3:</b>							
<b>Location 4:</b>							
<b>2. NOISE SENSITIVE LOCATIONS<sup>3</sup></b>							
S01 (NSL01) Daytime	567005E, 568771N	41 – 43	71		74 - 75		58 - 60
S01 (NSL01) Evening	567005E, 568771N	41 – 43	68		72		53
S01 (NSL01) Night-time	567005E, 568771N	0	63 - 64		68 - 69		46 - 47
S02 (NSL02) Daytime	566693E, 568860N	36 – 39	69 - 70		74		52 – 56
S02 (NSL02) Evening	566693E, 568860N	36 – 39	62		61		48
S02 (NSL02) Night-time	566693E, 568860N	0	60 - 64		57 - 69		42 – 43
S03 (NSL03) Daytime	566632E, 568620N	34 – 36	49 - 56		51 - 53		45 – 47
S03 (NSL03) Evening	566632E, 568620N	34 – 36	47		49		43
S03 (NSL03) Night-time	566632E, 568620N	0	40 - 43		42 - 45		36 - 40

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.

Note:

The locations of the noise sensitive monitoring points are detailed in the AWN report that is included as Attachment I.6.1. The background noise levels were measured on 25<sup>th</sup> and 26<sup>th</sup> November 2014, when there was no activity at the Forge Hill site. The ambient levels entered in the Table are the predicted levels of noise from site activities, based on the findings of the AWN report. The lower levels are at a height of 1.5m above ground at the receptor and the higher levels are at 4m above ground.

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