Industrial Emissions Activities Licence

Application Form

EPA Reg. №: *(Office use only)*	

*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/industrial%20emissions/instructionsforapplicantsreapplicationform.html

Environmental Protection Agency

P.O. Box 3000, Johnstown Castle Estate, Co. Wexford

Lo Call: 1890 335599 Telephone: 053-9160600 Fax: 053-9160699

Web: www.epa.ie Email: Industrial_Emissions_Licensing_Queries@epa.ie

Tracking Amendments to Application Form

Version No.	Date	Amendment since previous version	Reason
V.1.0	June 2013	N/A	Introduction of IE (Licensing) Regulations 2013
V.2.0	March 2014	Amendments to Section A, B and I.	Further clarification of IE (Licensing) Regulations 2013
V.3.0	January 2015	Amendments to Section G.1 Amendments to Section I.8	REACH Environmental Considerations, Main Alternatives and BAT
V.4.0	June 2015	Amendments to Section A Amendment to Section B.1 New Section B.3B Amendments to Section B.6 Amendment of Section B.10 New Section D.2.2 Amendments to Section L	To require summary table of impacts in Non-Technical summary Change from "Owner/Operator" to "Applicant" In relation to Fees Additional requirements in relation to planning history and the submission of EISs. Addition of Yes/No tick box Additional information required in relation to waste storage and closure costs. To reflect BAT & IED requirements

CONTENTS

ABOUT THIS APPLICATION FORM

This form is for the purpose of making an application for an Industrial Emissions Activity Licence under the Environmental Protection Agency Act, 1992, as amended. There is a separate application form for applicants who wish to apply for Classes 6.1 or 6.2 Intensive Agriculture.

The Application Form **must** be completed in accordance with the instructions included in this form and available on the EPA website. A valid application for an Industrial Emissions Activity (IEA) licence must contain the information prescribed in the Environmental Protection Agency (Industrial Emissions)(Licensing) Regulations, 2013. Regulation 9 of the Regulations sets out the statutory requirements for information to accompany a licence application. The application form is designed in such a way as to set out these questions in a structured manner and not necessarily in the order presented in Regulation 9. In order to ensure a legally valid application in respect of Regulation 9 requirements, please complete the Regulation 9 Checklist provided in Annex 2.

This Application Form does not purport to be and should not be considered a legal interpretation of the provisions and requirements of the Environmental Protection Agency Act, 1992 as amended, and the Environmental Protection Agency (Industrial Emissions)(Licensing) Regulations 2013. While every effort has been made to ensure the accuracy of the material contained in the Application Form, the EPA assumes no responsibility and gives no guarantees, undertakings and warranties concerning the accuracy, completeness or up-to-date nature of the information provided herein and does not accept any liability whatsoever arising from any errors or omissions.

Should there be any contradiction between the information requirements set out in the Application Form and any clarifying explanation on the EPA website then the requirements in this Application Form shall take precedence. The requirements of the 2013 Regulations, referenced above, shall take precedence over any considerations mentioned in this Application Form or on the website.

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.

SECTION A: NON-TECHNICAL SUMMARY

A non-technical summary of the application is to be included here. The summary should identify all environmental impacts of significance associated with the carrying on of the activity/activities and describe mitigation measures proposed or existing to address these impacts. This description should also indicate the normal operating hours and days per week of the activity.

The following information must be included in the non-technical summary:

- The relevant class or classes of activity in the First Schedule of the EPA Act 1992 as amended,
- Indication of whether EIS and planning permission documents are included,
- Indicate relevant BAT guidance documents or BAT Conclusions decisions,
- The title of the relevant BREF document
- Information on how the emission levels have been determined,
- Indication if EC (Control of Major Accident Hazards involving Dangerous Substances) Regulations 2006 apply,
- If a derogation under Section 86A(6) is being sought and the specific reasons for such derogation,
- A description of:

– the installation (plant, methods, processes, abatement, recovery and treatment systems and operating procedures for the activity), with emphasis on the main measures to avoid , reduce and, if possible offset the major adverse effects on the environment

– the raw and auxiliary materials, substances, preparations, fuels and energy which will be produced by or utilized in the activity,

– the sources of emissions from the installation,

– the environmental conditions of the site of the installation (e.g. soil and groundwater, air, noise, surface water) including reference to a Baseline Report where applicable,

– the nature and quantities of existing and proposed emissions from the installation into each medium as well as a summary of the assessment of the effects of the emissions on the environment as a whole,

– the proposed technology and other techniques to prevent or eliminate, or where this is not practicable, limit, reduce or abate emissions from the installation,

– summary of the quantity and nature of wastes which may be produced or accepted at the installation,

– measures to ensure that waste production is avoided in accordance with the waste hierarchy in Council Directive 98/2008/EC on waste and section 21A of the Waste Management Act 1996, as amended; where waste is generated, it is prepared for re-use, recycled or recovered or, where that is technically and economically impossible, it is disposed of while avoiding or reducing any impact on the environment (applicants should provide this information in the context of the Waste Management Act 1996, as amended);

- all the appropriate preventive measures are taken against pollution, in particular through application of the Best Available Techniques (BAT) or BAT Conclusions Decision;
- the necessary measures are to be taken under abnormal operating conditions, including start up, shutdown, leaks, malfunctions, breakdowns and momentary stoppages;
- the necessary measures to be taken on and following permanent cessation of activities to avoid any risk of environmental pollution and return the site of the activity to a satisfactory state or the state established in the baseline report if required;
- measures planned to monitor emissions into the environment,
- measures to comply with an environmental quality standard,
- measures to comply with Council Directive 80/68/EEC and 2006/118/EC in relation to the protection of groundwater,
- measures to be taken for minimizing pollution over long distances or outside the territory of Ireland,
- the main alternatives to the proposed technology, techniques and measures studied by the applicant.

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

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

Supporting information should form **Attachment № A.1**

NON-TECHNICAL SUMMARY

1.0 Introduction

Nurendale trading as Panda Waste Services (PANDA) is applying to the Environmental Protection Agency (EPA) for a review of a Licence (Register Number: W0140-04) for its existing Materials Recovery Facility at Beauparc, County Meath.

The current licence authorises the operation of a biological treatment plant and the manufacture of solid recovered fuel from the waste. For commercial reasons it is has been decided not to proceed with the operation of the biological treatment plant and to use the building for other waste activities. It is also proposed to accept and process non-hazardous incinerator bottom. The processing will be confined to the removal of the ferrous and non-ferrous metals.

2.0 Planning

Previous planning permissions associated with the installation include register numbers: 01/4304, SA/20106, SA/20249, SA/30347, SA/60656, SA/900875, SA/140011 and SA/140429. Meath County Council has confirmed that the proposed changes do not require planning permission and a copy of the letter is in **Attachment No. B6**.

The EPA requested an EIS to be submitted as part of the application for the current licence under Section 87 (1I)(b) of the EPA Act 1992, as amended. This EIS was submitted on the 26th May 2014 and a copy is in **Attachment No. B6.**

The site and proposed activities do not require planning approval and they do not come under the EC (Control of Major Accident Hazards involving Dangerous Substances) Regulations, 2006.

3.0 Existing Site

The installation occupies 7.9 hectares (ha) and comprises operational and undeveloped areas. The operational area (4.7ha) is either paved or occupied by buildings and an Integrated Constructed Wetland. There are three main waste processing buildings (Buildings 1, 2 ad 3) a skip repair building, a weighbridge, an administration building. The undeveloped area (3.2ha), which is to the east of the operational area has not been developed and is where Building 4, in which it was intended to install the biological treatment plant, will be constructed.

The licence allows the acceptance of 250,000 tonnes non-hazardous household, commercial and industrial (C&I) waste, construction and demolition (C&D) waste and bio- waste at this installation.

Waste processing activities have evolved over time in response to changes in waste management policy, the opening of new markets for recyclable materials and the development of new treatment technologies.

Building 1 was originally used to process mixed MSW, but is now used to handle non-recyclable dry waste for SRF production and bulking up of dry mixed recyclables. Building 2 is used to segregate the C&D waste using an automated processing line, while Building 3 is used to produce SRF. An odour abatement system comprising the extraction and treatment of air has been installed in the

building. The infrastructure required by the biomass furnace that will be used to dry the SRF has been installed, but the furnace has not been commissioned.

Building 4 has not been constructed, but was intended to house the biological treatment plant comprising anaerobic digestion. The process would generate a bio-gas that would be used as a fuel to generate electricity that would be sold to the national grid. The odorous air extracted from the building would be treated in a biofilters located on the building roof.

Currently approximately 70 people are based at the facility. These comprise 9 operatives and 60 administrative staff. The current operational hours, except for the SRF/RDF manufacturing process which may operate continuously, are 7.30 am to 7 pm Monday to Friday and 8.30am to 5 pm on Saturdays.

4.0 Proposed Changes

For commercial reasons it has been decided not to proceed with the installation of the biological treatment plant. It is proposed to accept and process 130,000 tonnes per annum of non-hazardous incinerator bottom ash (IBA) from the Dublin Waste to Energy Ltd waste recovery plant at Poolbeg at the facility, which is scheduled to open later in 2017.

The processing will initially be confined to the removal of the ferrous and non-ferrous metals which will then be sent for recycling. The treatment plant will comprise a series of conveyors, screens, magnets and eddy current separators. Subsequently the ash may be dried to increase the metal recovery rates in the in the fines fraction.

There are currently no recycling options in Ireland for the treated IBA, but in the medium to longer term there is the potential to use it in cement manufacture, as aggregate in concrete block and in road construction.

It could take up to 18 months to demonstrate that the treated IBA is suitable for use in construction works and the manufacture of products and to obtain approval for an end-of-waste protocol. During this period it is proposed to use some of the treated ash in engineering works in non-hazardous landfills and, subject to Agency approval, in mines.

The processing will initially be carried out in Building 3 and to facilitate this the SRF manufacturing will moved to another licensed facility. The biological treatment plant will not be installed in Building 4, but at some time in the future the IBA processing may be moved into this building. The negative air systems in both Building 3 and 4 will be retained, as will the odour and dust control units. There will be no change to the overall quantities of waste and operational hours already authorised.

It is the intention that the processing of the ash will continue at the installation in the medium term; however for commercial reasons PANDA seeks to retain the capacity to accept C&I waste, C&D waste and MSW and to carry out the waste processes, other than biological treatment, authorised under the current licence.

5.0 Classes of Activity

The current licence authorises the following activities.

Class	Description
11.1	The recovery or disposal of waste in a facility, within the meaning of the Act of 1996, which facility is connected or associated with another activity specified in this Schedule in respect of which a licence or revised licence under Part IV is in force or in respect of which a licence under the said Part is or will be required.
11.4 (b)	Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, (other than activities to which the Urban Water Treatment Regulations 2001 (SI No. 254 of 2001) apply):
(i)	• biological treatment; when the only waste treatment activity carried out is anaerobic digestion, the capacity threshold for this activity shall be 100 tonnes per day
(ii)	• Pre-treatment of waste for incineration or co-incineration
(iii)	• Treatment of slags and ashes;
(iv)	• treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components.

The processing of the IBA falls under Class 11.4 (b)(iii).

6.0 BAT / Bref Documents

PANDA carried out a review of the proposed development against the BAT Conclusions and recommendations on best practice in the following guidance documents:

- Reference Document on Best Available Techniques for the Waste Treatments Industries August 2006
- Reference Document on Best Available Techniques for Energy Efficiency February 2009.
- Reference Document on Best Available Techniques from Storage

An assessment of how the facility will comply with the BAT Conclusions on Waste Treatment is included in **Attachment No. I8** along with an analysis of the proposed development against the BAT Conclusions on Energy Management and an assessment against the BAT Conclusions on Storage.

7.0 Waste Management Policies

The proposed changes are consistent with European Union, national and regional waste management policies and plans, the objective of which is to maximise the recovery/recycling of wastes in the country where they are generated and minimise the disposal to landfill.

8.0 Raw & Auxiliary Materials and Energy Use

Raw materials and energy that are and will be used include:-

- Diesel for on-site equipment
- Hydraulic oil and engine oil for use in on-site equipment
- Electricity
- Water
- Biomass

9.0 Sources of Emissions

The actual and potential point and fugitive emissions are:

- Noise from plant and equipment used to process the wastes, including delivery/collection vehicles, shredders, crushers, conveyors, magnets, biomass furnace fans, and odour control fans.
- Emissions to atmosphere from biomass furnace, dust/odour control units on Buildings 3 and 4.
- Outfall from integrated constructed wetland that receives rainwater run-off from the yards and building roofs.
- Odours from waste processing.
- Vehicle exhaust gases from the delivery and collection vehicles.
- Sanitary wastewater.
- Dust from waste processing and vehicle movements on yards during dry weather.

Treated sanitary wastewater used to discharge to an on-site percolation area, but this has been discontinued and the effluent is currently collected and tankered off-site for treatment in a local authority owned municipal wastewater treatment plant.

10.0 Site Location

The facility is located is in the townland of Rathdrinagh on the N2, approximately 4 km south of Slane. The surrounding land use is predominantly agriculture, however there are some commercial units to the west. There are nine residential dwellings with 0.5km of the site along Knockcommon Road, with a further thirteen residences within 0.5km, along the N2 and Senchelstown Road.

11.0 Existing Environment, Potential Environmental Effects and Mitigation Measures

11.1 *Climate*

The climate in the area is mild and wet, with the prevailing wind from the south west. All new developments that give rise to extra greenhouse gases (GHG)

emissions are considered to have a negative effect on climate. There will be no increase in the waste acceptance rates. The decision not to proceed with the anaerobic digestion plant means the loss of a renewable energy source and therefore will have a negative, imperceptible impact on climate.

11.2 Soils and Geology

The subsoils comprise a brown clay to approximately 1m, which is underlain by at least 10m of grey/black clay. The underlying bedrock is a coarse sandstone shale which is classified as generally unproductive aquifer except for local zones. The proposed changes will not will involve disturbance of the ground and there will be no new emissions to ground. The current waste licence requires the routine inspection of the wastewater storage tank to ensure it continues to be fit for purpose and does not leak. The development will have no impact on soils and geology.

11.3 Water

The development will not present an increased risk of flooding either within, or outside the site boundary. The proposed changes will not affect the quality of the outfall from the ICW.

The underlying sandstone shale is classified as generally unproductive aquifer except for local zones. The development will not have any impact on the rainfall contribution to groundwater and, as there will be no new emissions to ground, there will be no impact on groundwater.

11.4 Ecology

There are no habitats of any ecological importance within the site boundary and the habitat values of the surrounding lands are low. The site is not inside the boundary of any designated protection area (Natura 2000 Sites) and the development will not result either in direct loss of any habitats, or damage to a Natura 2000 Site.

The closest Natura 2000 Site is The River Boyne and River Blackwater Special Area of Conservation (SAC). The outfall from the ICW discharges into the land drain along the southern site boundary that joins a tributary of the River Boyne.

Given the nature of the operations, the measures that are in place to prevent contamination of the rainwater run-off and the distance from the installation, the proposed changes will not have any indirect or cumulative impacts on the Natura 2000 Site and will have no impact on the ecology.

11.5 Air Quality

The ambient air quality in the vicinity of the site is good. The routine dust monitoring carried out in accordance with the current licence conditions confirms dust is not an issue. Odours from the existing waste activities are not a cause of nuisance.

The acceptance of the IBA will not result in additional traffic movements and there will be no additional source of a major odour nuisance. Not proceeding with the anaerobic digestion and plant and the associated combined heat and power plants will reduce the number of point air emission sources at the facility. The proposed changes will have a slight, positive impact on air quality.

11.6 Noise

The current activities are sources of noise. The current licence sets noise levels for the site operations and requires noise surveys to be conducted. The results of the surveys show that noise emissions consistently comply with the emission limits. The noise emissions from the IBA processing plant will be similar to those already in use in Building 3. Not proceeding with the anaerobic digestion plant and the associated CHP units will reduce the number of noised sources.

11.7 Landscape

The proposed changes will not material change the external appearance of the installation and will have no impact on the landscape

11.8 Traffic

The proposed changes will not result in any increase in the amount of waste accepted meaning there will be no change to current traffic movements to and from the site. The local road network will not be affected

11.9 Cultural Heritage

There are no known archaeological, heritage or socio-cultural features on the site. The proposed changes will not require any ground disturbance and therefore will not have an impact on cultural heritage.

11.10 Human Beings

Land use in the surrounding area is predominantly agricultural. There are nine residential dwellings within 500m of the site boundary. There are no hospitals, hotels or holiday accommodation within 1 km of the site. The odour control measures that are and will be provided will ensure that odours from the waste activities will not cause problems. .

11.11 Material Assets

The installation does not have a significant leisure or amenity value. The proposed changes will have no impact on amenities and leisure land use in the vicinity of the site.

11.12 Interaction of the Foregoing

The location, design and proposed method of operation have taken the potential impacts associated with the proposed changes into account. Proven effective control measures will continue to be implemented to ensure that the installation will have an overall neutral impact.

12.0 Proposed technology and other techniques to prevent or eliminate, or where this is not practicable, limit, reduce or abate emissions from the installation

The design and method of operation of the existing facility are based on the requirements of the European Commission's Reference Document on Best Available Techniques for the Waste Treatment Industries 2006 (BREF), which specifies the Best Available Techniques (BAT) for Waste Management Facilities.

The current waste licence specifies the manner in which the facility must operate so as to ensure that pollution and or nuisance to neighbours and the general public is prevented. They require the site management team to have the appropriate training and qualifications; identify the types of wastes and processes that can be carried out; specify how wastes and raw materials that have the potential to cause pollution are handled and stored; the control measures that must be applied to prevent nuisance, for example odour and dust control, and require appropriate emergency response procedures to be in place.

13.0 Measures to Comply with Waste Management Hierarchy

The proposed processing of the ash is consistent with the Waste Hierarchy as the recovery of metals from the ash waste will gain the maximum value from the waste. The biodegradable wastes that were intended to be treated in the anaerobic digestion plant will be sent to a licensed biological treatment plant in the Eastern and Midlands Region.

14.0 BAT

Condition 2 of the current Licence requires PANDA to develop and implement an Environmental Management System for the facility. The licence also requires PANDA to prepare operational control procedures for all waste activities and ensure that facility staff are provided with the appropriate skills and training to perform their assigned functions.

Assessments of compliance with the BAT Conclusions in the References documents on Best Available Techniques for Waste Treatment, Energy Efficiency and Emissions from storage BAT Reference Document have been completed.

15.0 Abnormal Operating Conditions

Panda has adopted Emergency Response Procedures (ERP). The ERP identifies potential hazards at the site that may cause damage to the environment and also specifies roles, responsibilities and actions required to deal quickly and efficiently with all foreseeable major incidents and to minimise environmental impacts.

16.0 Avoidance of the Risk of Environmental Pollution due to Closure of the Facility

PANDA has prepared an Environmental Liability Risk Assessment (ELRA) and Decommissioning Management Plan (DMP) for the facility and these, along with a proposal for Financial Provision, were submitted to and approved by the Agency.

17.0 Environmental Monitoring

Environmental monitoring is and will continue to be carried out in accordance with the licence conditions. The monitoring includes air emissions, noise, dust, surface water and wastewater.

Dust

Dust is monitored 4 times a year at 5 locations (AD1 – AD5).

Noise

Noise is monitored at four existing monitoring locations (NSL1 – NSL4).

Odour

Daily odour patrols around the site perimeter are carried out as required under current licence conditions.

Surface Water

The outfall from the ICW is visually checked daily. Grab samples are collected weekly and the electrical conductivity, suspended solids, TOC, and ammonia (as NH4) are measured. At quarterly intervals the samples are tested for BOD and sulphate. There is also annual sampling for metals analysis.

Air Emissions

Air emissions from the biofilter, biomass furnace and carbon filter will be monitored in accordance with licence conditions.

Wastewater

Samples of the effluent sent off site for disposal are collected and tested quarterly.

18.0 Measures to Comply with an Environmental Quality Standard

The emission limit values proposed in the application and those that will be set by the EPA in the new licence are and will be based on achieving compliance with the relevant EQS.

19.0 Measures to comply with Council Directive 80/68/EEC and 2006/118/EC in relation to the protection of groundwater.

There are no direct discharges to groundwater and the main operational areas of the site are covered by roofs and concrete yards.

20.0 The Main Alternatives to the Proposed Technology, Techniques and Measures

Alternative Sites

A potentially suitable alternative location is the PANDA Materials Recovery Facility at Millennium Business Park, Ballycoolin, Dublin 11. It has planning approval and an Industrial Emissions Licence (W0183-01).

Another alternative is to develop a new standalone waste management facility. This would require the acquisition of land, the construction of a new waste processing building and supporting infrastructure and the provision of new site services. The development of such a new facility offers no environmental advantages compared to proposed changes at the existing installation.

The proposed method of removing the metals uses technologies that have been proven to be effective in ash processing plants in Europe and the USA and which are considered best industry practice.

SECTION B: GENERAL

B.1. Applicant

Name*:	Nurendale
Address:	Rathdrinagh
	Beauparc
	Navan
	County Meath
Tel:	046 9024111
Fax:	
e-mail:	

* This should be the name of the applicant which is current on the date this 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:	David Naughton
Address:	PANDA Waste Services
	Rathdrinagh
	Beauparc,
	Navan, Co. Meath
Tel:	046 9024111
Fax:	046 902189
e-mail:	David.Naughton@panda.ie

CRO No. and address of registered or principal office of Body Corporate

CRO No.	115425
Address:	Rathdrinagh
	Beauparc,
	Navan, County Meath
Tel:	046 9024111
Fax:	046 902189
e-mail:	

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

a) a Certified Copy of the Certificate of Incorporation under the Companies Act.
b) the Company's Registration Number from the Companies Registration Office.
c) Particulars of Registered Office of the Company.

Name and address of the proprietor(s) of the land on which the activity is situated (if different from applicant named above):

Proprietor's Name:	Eamon Waters
Address:	Balrath
	Navan
	County Meath
Tel:	
Fax:	
e-mail:	

Name and address of the owner(s) of the building and ancillary plant in which the activity is situated (if different from applicant named above):

Name:	
Address:	
Tel:	
Fax:	
e-mail:	

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

***Name:**	Cathal Smith
Position in organisation:	Facility Manager
Tel:	0861447350
***e-mail:**	cathal.smith@panda.ie

B.2. Location of Activity

Name:	PANDA Waste Services
Address*:	Rathdrinagh
	Beauparc,
	Navan,
	Co. Meath
Tel:	046 9024111
Fax:	
Contact Name:	David Naughton
Position:	
e-mail:	David.Naughton@panda.ie

* Include any townland.

National Grid Reference (12 digit 6E,6N)	297450E 269257N

Location maps (≤A3), appropriately scaled, with legible grid references should be enclosed in **Attachment B.2.** The site boundary must be outlined on the map in colour.

Geo-referenced digital drawing files (e.g. AutoCAD files) in Irish Grid projection of the site boundary and overall site plan, including labelled emission, monitoring and sampling points, are also required. This data should be provided to the Agency on a separate CD-Rom containing sections B.2, E.6 and F.3.

Name of geo-referenced digital drawing files	Drawing No 3 Rev D Emission and Monitoring Locations
Name of CD-Rom with digital drawing files	CD ROM B2

B.3. Class of Activity

Identify the relevant activities in the First Schedule of the EPA Act 1992, as amended, to which the activity relates:

Class	Description	Identify Main IED Activity
11.1	The recovery or disposal of waste in a facility, within the meaning of the Act of 1996, which facility is connected or associated with another activity specified in this Schedule in respect of which a licence or revised licence under Part IV is in force or in respect of which a licence under the said Part is or will be required.	
11.4	Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply): (i) biological treatment (ii) pre-treatment of waste for incineration or co-incineration (iii) treatment of slags and ashes; (iv) treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components.	11.4.(b) (iii) treatment of slags and ashes

B.3A Industrial Emissions Directive

Specify which category/categories of industrial activity referred to in Annex I of the Industrial Emissions Directive (2010/75/EU) is/are to be carried out at the installation.

Category	Description	Identify Main IED Activity
5.3 (a) (ii)	Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, and excluding activities covered by Directive 91/271/EEC: (ii) pre-treatment of waste for incineration or co-incineration; (iii) treatment of slags and ashes;	Treatment of slags and ashes

State whether the installation falls under the scope of Chapters III, IV , V and/or VI of the Industrial Emissions Directive (2010/75/EU) and if yes specify the relevant sections and Annex.

IED Chapter(s) and relevant Annex(es)

Supporting information should be included in **Attachment Nº B.3A**.

The installation does not fall under the scope of Chapters III, IV, V and or/VI.

B.3B Application Fee

State each class of activity (per the First Schedule of the EPA Act) for which a fee is being submitted. Application fees are set out in the following regulations:

- EPA (Licensing Fees) Regulations 1994, for all First Schedule activities except classes 11.2 to 11.7; and
- EPA (Licensing Fees) Regulations 2013, for First Schedule activity classes 11.2 to 11.7.

First Schedule Activity	Fee (in €)
	10,157
	21,000
Total fee paid	31,157

* add rows to the table as necessary

B.4 Classes of Waste Activity

If a waste activity is proposed, i.e. if any First Schedule of the EPA Act 1992, as amended class 11 activity is specified in section B.3 above, identify below the relevant activities as listed in Annex I and Annex II of the Waste Framework Directive (2008/98/EC).

TABLE B.4 Classes of Waste Activity

Waste Framework Directive 2008/98/EC

Annex I Disposal Operations		Y/N
D 1	Deposit into or on to land (e.g. including landfill, etc.).	N
D 2	Land treatment (e.g. biodegradation of liquid or sludgy discards in soils, etc.).	N
D 3	Deep injection (e.g. injection of pumpable discards into wells, salt domes or naturally occurring repositories, etc.).	N
D 4	Surface impoundment (e.g. placement of liquid or sludgy discards into pits, ponds or lagoons, etc.).	N
5 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
D 6	Release into a water body except seas/oceans.	N
D 7	Release to seas/oceans including sea-bed insertion.	N
D 8	Biological treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12.	N
D 9	Physico-chemical treatment not specified elsewhere in this Annex 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
D 10	Incineration on land.	N
D 11	Incineration at sea.[1]	N
D 12	Permanent storage (e.g. emplacement of containers in a mine, etc).	N
D 13	Blending or mixing prior to submission to any of the operations numbered D 1 to D 12.[2]	Y
D 14	Repackaging prior to submission to any of the operations numbered D 1 to D 13.	Y
D 15	Storage pending any of the operations numbered D 1 to D 14 (excluding temporary storage, pending collection, on the site where the waste is produced).[7]	Y

[1] This operation is prohibited by EU legislation and international conventions.

[2] If there is no other D code appropriate, this can include preliminary operations prior to disposal including pre-processing such as, inter alia, sorting, crushing, compacting, pelletising, drying, shredding, conditioning or separating prior to submission to any of the operations numbered D1 to D12.

Annex II Recovery Operations		Y/N
R 1	Use principally as a fuel or other means to generate energy.[3]	N
R 2	Solvent reclamation/regeneration.	N
R 3	Recycling /reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).[4]	Y
R 4	Recycling/reclamation of metals and metal compounds.	Y
R 5	Recycling/reclamation of other inorganic materials.[5]	Y
R 6	Regeneration of acids or bases.	N
R 7	Recovery of components used for pollution abatement.	N
R 8	Recovery of components from catalysts.	N
R 9	Oil re-refining or other reuses of oil.	N
R 10	Land treatment resulting in benefit to agriculture or ecological improvement.	N
R 11	Use of waste obtained from any of the operations numbered R 1 to R 10.	Y
R 12	Exchange of waste for submission to any of the operations numbered R 1 to R 11.[6]	Y
R 13	Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced).[7]	Y

[3] This includes incineration facilities dedicated to the processing of municipal solid waste only where their energy efficiency is equal to or above:
- 0.60 for installations in operation and permitted in accordance with applicable Community legislation before 1 January 2009,
- 0.65 for installations permitted after 31 December 2008,

using the following formula:
Energy efficiency = (Ep - (Ef + Ei)/ (0.97x(Ew+Ef)
In which:
'Ep' means annual energy produced as heat or electricity and is calculated with energy in the form of electricity being multiplied by 2.6 and heat produced for commercial use multiplied by 1.1(GJ/year),
'Ef' means annual energy input to the system from fuels contributing to the production of steam (GJ/year),
'Ew' means annual energy contained in the treated waste calculated using the net calorific value of the waste (GJ/year),
'Ei' means annual energy imported excluding Ew and Ef(GJ/year),
'0.97' is a factor accounting for energy losses due to bottom ash and radiation.
This formula shall be applied in accordance with the reference document on Best Available Techniques for waste incineration.

[4] This includes gasification and pyrolisis using the components as chemicals.

[5] This includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials.

[6] If there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as, inter alia, 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.

[7] Temporary storage means preliminary storage according to point (1) of Article 3 [of the Waste Framework Directive 2008/98/EC].

B.5. Employees/ Capital Cost

Give-

(i) In the case of an established activity, the number of employees and other persons working or engaged in connection with the activity on the date after which a licence is required and during normal levels of operation, or

(ii) In any other case, the gross capital cost of the activity to which the application relates.

Number of Employees (existing facilities):	70
Gross Capital Cost (new proposals) €	

B.6. Relevant Planning Authority and/or Public Authority

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

Name:	Meath County Council
Address:	County Hall
	Navan
	County Meath
Tel:	046 9097000
Fax:	046 9097001

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

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

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

No	√	Provide confirmation in writing from the planning authority or An Bord Pleanála that this is the case. Attachment B6.	
Yes		Planning Ref No:	

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

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

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

B.6 (b) Environmental Impact Statements

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

No.	Option	
1(a)	Is this a new licence application OR review application where the last licence (excluding reviews initiated by the EPA) was determined **before** 30th September 2012?	**Applicable? No**
1(b)	If yes, provide the following: • Where planning permission has been/is required for the site of the activity, **you must submit the most recent EIS associated with a planning application or planning permission for the site of the activity.** • Where planning is granted, the planning decision and planners report associated with the EIS should also be submitted.	**Documents Provided ?** **n/a**
2(a)	Is this a review application where the last licence (excluding reviews initiated by the EPA) was determined **after** 30th September 2012?	**Applicable?** **Yes**
2(b)	If yes, provide the following: • If this is an application for a licence review, and the last licence review (not including reviews initiated by the EPA) **was determined after 30th September 2012**, you are only required to submit the most recent EIS which has arisen through the planning process **since the last licence review**. The planning decision and planners report associated with the EIS should also be submitted.	**Documents Provided ?** **EIS not required as part of the planning process since 30th September 2012.**
3(a)	Does this application relate to a site where an EIS has never been required at planning stage ?	**Applicable?** **No**

3(b)	If yes, you must provide confirmation in writing from the planning authority or An Bord Pleanála that an environmental impact assessment was not required by or under the Planning and Development Act 2000, as amended for **each** of the planning permissions associated with the site of the activity. This information should be included in **Attachment № B.6**.	**Documents Provided ?** **n/a**

B.6 (c) Planning under Consideration Not applicable

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

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

Planning under Consideration Table:

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

Note: Please be advised that in accordance with Section 87(1D)(d) of the EPA Act 1992, as amended, a Proposed Determination **cannot** issue on a licence application while a planning application (for a development comprising or for the purposes of an activity to which the licence application relates and for which EIA is required) is under consideration with a planning authority or An Bord Pleanala.

B.6 (d) Planning Granted

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

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

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

Planning Granted Table:

Planning or Appeal Reference Number	Planning Authority /An Bord Pleanala	Date of Planning Decision (Final)	Brief description	EIS required with Planning Application ? (Yes/No)	If "no", Letter of confirmation from planning authority/An Bord Pleanala that EIA was not required?
01/4304	Meath County Council	13/12/2001	New waste transfer/recycling facility	Yes	
SA/30347	Meath County Council	08/03/2004	Construct a new building (Building 2) and expand the recycling capacity to 165,000 tonnes	No	Extract from EPA Inspectors Report on application W 0140-04 confirming EIS not required by Planning Authority is in Attachment B6
SA/60656	Meath County Council	13/09/2007	New building (Building 3), a skip repair building, install a reed bed surface water treatment area and extend the site area to allow an expansion of recycling activities.	No	Extract from Inspectors Report in Attachment B6
SA/900875	Meath County Council	21/09/2009	Extension to existing materials recovery facility, comprising the construction of one building (12,183sqm) to house a waste anaerobic digestion and composting system, two 6m high steel process wastewater storage tanks and two 6m high concrete process wastewater storage tanks air treatment system with 15m stack, oil interceptor, surface water percolation area.	No	Extract from Inspectors Report in Attachment B6
SA/140429	Meath County Council	09/10/2014	Permission to retain and complete a reed bed, to retain extension and amendments to office layout retain weigh bridges and office in current location, retain car parking including large vehicle parking area. Retain amendments to shed No. 2 including the retention of hand picking units including an acoustic wall 4.2 metres high. Also to retain intake reception area to shed No. 3, retain negative air handling and retaining ancillary drying equipment	No	Extract from Inspectors Report in Attachment B6

Note: Please be advised that where planning permission has been granted or a planning application is under consideration, and in accordance with Section 87(1C) of the EPA Act 1992, as amended, the Agency shall ***refuse to consider*** the licence application if the applicant does not comply with the requirements of Section 87(1B) of the EPA Act.

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

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:

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

B.6 (f) Other Consents Granted

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

Consent Reference Number	Competent Authority	Date of Grant of Consent	Brief description	EIS required with Consent Application?
W0140-04	Environmental Protection Agency	08/09/2016	Expansion of Licensed area to accommodate a new building housing an anaerobic digestion plant and approval for the use of dryer in SRF manufacture.	Yes Copy provided.

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 № B.6.**

A screening for Appropriate Assessment report has not been prepared. A Natura Impact Statement (NIS) was prepared as part of the application for W0140-04 due to the discharge of water from the ICW to a tributary of the River Boyne. The proposed changes will reduce the point air emission sources and will not result in any changes to either the quality or volume of the discharge to the ICW and therefore will not have any significant impact on a Natura 2000 Sites. A copy of the NIS prepared for application W0140-04 that describe the Natura 2000 and the impacts of waste activities is in Attachment B6.

Licences and permits

For existing activities, **Attachment № B.6** should also contain a table of references to all licences and permits past and present, including those in force at the time of submission of this application. This should include, but is not limited to, any permits/licenses or registration under GHG Emissions Trading Regulations and GMO Regulations.

Licence/Permit reference number	Brief Description	Date granted	Currently in force? (Yes/No)
W0140-01	Licence to operate waste transfer facility to accept 44,600 tonnes of waste annually	March 2002	No
W0140-02	Increase capacity to 165,000 tonnes annually	April 2005	No
W0140-03	Increase capacity to 250,000 tonnes annually	March 2009	No
W0140-04	Extend the licence area and construct Building 4 and to approve the expansion the RDF manufacturing process in Building 3.	August 2016	Yes

B.7. Relevant Water Services Authority

In the case of a discharge of any trade effluent or other matter to a sewer of a Water Services Authority, give the name of the Water Services Authority in which the sewer is vested or by which it is controlled.

Not Applicable, as there is no discharge to sewer

Name:
Address:
Tel:
Fax:

In the case of a discharge of any trade effluent or other matter to a sewer not vested by a Water Services Authority, the applicant must supply as **Attachment № B.7**;
(a) the name and address of the owner(s) of the sewer and the waste water treatment plant to which the sewer discharges (e.g. IDA, SFADCo or private undertaker) and who are responsible for the quality of the treated effluent discharging to waters and
(b) a copy of the effluent regulations and the agreement between the applicant and the aforementioned.

Details of owner(s) of a sewer and waste water treatment plant not vested in a Water Services Authority

Name:	
Address:	
Tel:	
Fax:	

B.8. Relevant Regional Health Service Executive

The applicant should indicate the Regional Health Service Executive where the activity is or will be located.

Name:	Dublin North East
Address:	Swords Business Campus
	Balheary Road
	Swords
	County Dublin
Tel:	01 8908759
Fax:	

B.9 Site Notice, Newspaper Advertisement and Planning Authority Notice.

Attachment № B.9 should contain a copy of the text of the site notice, a map (no larger than A3) showing its location on site (in accordance with Article 6 of the Regulations) and a copy of the newspaper advertisement. A copy of the notice given to the Planning Authority should also be included.

Not applicable

B.10 Seveso II Regulations

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

☐ Yes ☒ No

If yes, outline how the process comes under these regulations.

Supporting information should be included in **Attachment № B.10**.

B.11 Mercury Regulation

State whether the activity is one to which the following apply:

- European Communities Mercury (Export Ban and Safe Storage) Regulations (S.I. No. 27 of 2012),

- Regulation (EC) No 1102/2008 of the European Parliament and of the Council of 22 October 2008 on the banning of exports or metallic mercury and certain mercury compounds and mixtures and the safe storage of metallic mercury.

☐ Yes ☒ No

If yes, outline in **Attachment № B.11** how the activity comes under these Regulations.

B.12 Regulations Controlling Fluorinated Greenhouse Gases and Ozone Depleting Substances

State whether the installation is one to which the following apply:

– Operator of equipment and systems containing ozone depleting substances, in accordance with Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer.

☐ Yes ☒ No

– Operator of equipment and systems containing fluorinated greenhouse gases, in accordance with Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases.

☐ Yes ☒ No

If yes, outline in **Attachment № B.12** how the activity comes under these regulations.

More information and guidance is available on the EPA website:

http://www.epa.ie/air/airenforcement/ozoneguidanceanddownloads/

B.13 Review of a licence

State the grounds on which an application for a review of a licence is being made and give the reference number to the relevant licence in the register.

The review of the current licence (W0140-04) is required to remove approval to install and operate the anaerobic digestion plant, and to allow the acceptance and processing of non-hazardous Incinerator Bottom Ash (IBA)

Provide, where appropriate, a copy of the Office of Environmental Enforcement (OEE) correspondence that indicates that the reason for the review cannot be accommodated within the scope of the existing licence.

Include results of emission monitoring and other data, that enables a comparison of the operation of the installation with the best available techniques described in the applicable BAT conclusions and with the emission levels associated with the best available techniques in accordance with Section 86A(9) of the Act of 1992 as amended.

The results of the emission monitoring and other relevant data are included in the application.

Where the OEE has agreed any variations or adjustments to the conditions or schedules of the existing licence, the licensee must provide details of these agreed variations and adjustments to the existing licence conditions. An updated, scaled drawing of the site layout (no larger than A3) providing visual information on such adjustments or variations where appropriate should be included.

In the case of once-off assessments/ reports required under conditions/ schedules of the existing licence the licensee must provide details of those assessments/ reports that have been completed and agreed with the OEE or as otherwise agreed.

Attachment № B.13 shall include the schedule of variations and/or adjustments together with the updated drawing.

Condition/ Schedule No.	Existing Condition	OEE Agreement Reference	Description

SECTION C: MANAGEMENT OF THE INSTALLATION

C.1 Site Management & Control

Details should be provided on the management structures for the activity. Organisational charts and all relevant environmental management policy statements, including provisions for on-going assessment of environmental performance, are required.

Details are in **Attachment No. C.**

C.2 Environmental Management System (EMS)

Indicate whether an Environmental Management System has been developed for the installation. If yes, specify which standard and include a copy of the accreditation certificate.

Details of the EMS are presented in **Attachment No. C**. The system is based on Condition 2 of the current licence.

C.3 Hours of Operation

Provide details of the hours of operation for the installation, including:
(a) Proposed hours of operation.
(b) Proposed hours of construction and development works and timeframes.
(c) For waste activities, the proposed hours of waste acceptance.
(d) Any other relevant hours of operation expected.

The hours of operation are detailed in **Attachment No. C**

C.4 Fit and Proper Person

The EPA Act in Section 83(5)(xi) specifies that the Agency shall not grant a licence unless it is satisfied that the applicant or licensee or transferee as the case may be is a fit and proper person. Section 84(4) of the EPA Act 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 Environmental Protection Agency Act 1992, as amended, the Waste Management Act 1996, as amended, the Local Government (Water Pollution) Acts 1997 and 1990, the Air Pollution Act 1987 and the Air Pollution Act 1987 (Environmental Specifications for Petrol and Diesel Fuels)(Amendment) Regulations 2004.
- Provide details of the applicant's technical knowledge and/or qualifications, along with that of other relevant employees.
- 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.

This information should form **Attachment № C**.

The requested information is in **Attachment No C.**

SECTION D: INFRASTRUCTURE & OPERATION

D.1. Operational Information Requirements

Describe the plant, methods, processes, ancillary processes, abatement, recovery and treatment systems, and operating procedures for the activity, to include a copy of such plans, drawings or maps, (site plans and location maps, process flow diagrams), and such other particulars, reports and supporting documentation as are necessary to describe all aspects of the activity. Maps and drawings must be no larger than A3 size.

A development and operational history of the site should be included here.

Attachment № D should contain a list of all unit operations (processes) to be carried out, including flow diagrams of each with any relevant additional information.

The operational information requirements and a development and operational history are in **Attachment D1**.

D.2 Additional requirements for waste Activities (not covered above or elsewhere) (All Class 11 of the First Schedule of the EPA Act 1992, as amended)

This section D.2 of the application form should be completed only by applicants applying for classes 11.1, 11.2, 11.3, 11.4, 11.5, 11.6 and 11.7 (i.e. waste activities) of the First Schedule to the EPA Act 1992, as amended.

D.2.1 Wastes to be accepted

State what wastes will be accepted at the installation for recovery or disposal. Complete table Table D.2(i) and include in **Attachment No. D.2** of the application. The following general guidelines may assist in containing the size of Table D.2(i) where there is a long list of EWC codes proposed.

- For any individual waste stream, described by EWC code or main waste description (e.g. municipal solid waste, mixed recyclables, C&D waste), comprising more than 5% of total intake, complete a single row in table D.2(i).
- For every hazardous waste stream, describe by EWC code, complete a single row in table D.2(i).
- Other waste streams, where the list of waste is long, may be aggregated, according to a waste category, with each relevant EWC code provided.

An EWC code should be provided for every waste proposed for acceptance at the installation.

State whether any wastes to be accepted are classified as animal by-products in accordance with Regulation 1069/2009 and identify the relevant wastes.

Source segregated food waste and residual household and commercial waste contain materials that are classified as animal by-products

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

Maximum Annual Tonnage (tonnes)	250,000
Year	

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

D.2.2 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 installation).
Complete the following table (consistently using either tonnes or cubic metres as your unit of measurement for all entries):

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

* add rows to the table as necessary

A copy of the Decommissioning Management Plan, which has been approved by the OEE and lists the types of waste and the disposal costs, is in **Attachment No. D.2.2.2.**

D.2.3 Waste Acceptance Procedures

Provide a copy of the waste acceptance procedures employed or to be employed. Describe procedures for checking waste loads as they arrive at the installation. Describe procedures to be implemented in the event of a load of waste arriving at the installation that does not conform to waste acceptance procedures. The location of a quarantine area for handling suspect or non-compliant loads should be described and illustrated on a suitable site drawing.

For landfills and relevant incineration activities, describe how the requirements of *Municipal Solid Waste – Pre-treatment and Residuals Management: An EPA Technical Guidance Document* (EPA, 2009) will be implemented.

For landfills, the applicant should ensure that the requirements of Council Decision 2003/33/EC are addressed in waste acceptance procedures.

The waste acceptance procedures that are and will be employed at the site are described in **Attachment D2.3**. They are based on the requirements of the current licence.

D.2.4 Waste and material outputs from waste activities

Describe the waste and material outputs from the installation resulting from the treatment of waste. If no treatment is carried out on the waste, the waste outputs will be the same as the inputs.

If waste is treated, describe the nature and quantity of the treated waste and its onward fate/destination, and in particular whether it is sent for onward recovery or disposal operations.

If waste is treated and a material is produced that is no longer a waste, provide the rationale for such classification. The requirements of article 28 of the European Communities (Waste Directive) Regulations 2011 should be addressed in any such rationale.

Details of the waste and materials outputs from waste activities are in **Attachment D.2.4**

D.2.5 Principles of self-sufficiency and proximity

Describe how the proposed waste activities will contribute to the State's obligation to establish an integrated and adequate network of waste disposal installations and of installations for the recovery of mixed municipal waste collected from private households, including where such collection also covers such waste from other producers. Describe how the proposed waste activities will enable the State to move towards being more self-sufficient in the management of these wastes.

Supporting information should form **Attachment No. D.**

Details on how the proposed waste activities will contribute to the States waste management obligations are in **Attachment D.2.5**

D.3 Additional Requirements for landfills (not covered above or elsewhere) (Class 11.5 of the First Schedule of the EPA Act 1992, as amended) Not Applicable

This section D.3 of the application form should be completed only by applicants applying for classes 11.5 and 11.7 (landfills and underground storage facilities) of the First Schedule to the EPA Act 1992, as amended. This includes landfills that are associated with other industrial activities.

All landfills must comply with the requirements of the Landfill Directive (1999/31/EC). It is the applicant's responsibility to ensure that all relevant requirements of the Directive are addressed and information provided in **Attachment D.3** of the application.

For wastes to be disposed of by landfilling on-site at industrial installations, full details of the disposal site should be submitted (to include *inter alia,* site selection procedures, location maps, (no larger than A3) geology, hydrogeology, operational plan, containment, gas and leachate management, post-closure care).

Applicants should have regard to the requirements of the Landfill Manuals published by the Environmental Protection Agency.

D.3.1 Class of landfill Not Applicable

Complete Table D.3(i) and include in Attachment D.3 of the application. State which of the categories in Table D.3(i) is relevant to the current application.

Table D.3(i) Class of landfill

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

D.3.2 Scale of waste deposition Not Applicable

Complete Table D.3(ii) and include in Attachment D.3 of the application. State the total quantity of waste for which authorisation is sought to be deposited in the landfill.

Table D.3(ii) Scale of waste deposition at the landfill

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

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

D.3.3 Liner System Not Applicable

Complete Table D.3(iii) and include in Attachment D.3 of the application. Table D.3(iii) provides a checklist of items that should be described in greater detail in Attachment D.3.

D.3.4 Leachate Management Not Applicable

Complete Table D.3(iv) and include in Attachment D.3 of the application. Table D.3(iv) provides a checklist of items that should be described in greater detail in Attachment D.3. Provide a list and illustrate on a site drawing the location of all leachate monitoring, extraction and lead detection boreholes or installations.

D.3.5 Landfill Gas Management Not Applicable

Complete Tables D.3(v)a to D.3(v)d and include in Attachment D.3 of the application. The tables provide a checklist of items that should be described in greater detail in Attachment D.3. Provide an estimate of the volume of landfill gas which will be produced by the waste for the next 20 years.

D.3.6 Capping System Not Applicable

Complete Table D.3(vi) and include in Attachment D.3 of the application. Table D.3(vi) provides a checklist of items that should be described in greater detail in Attachment D.3.

D.3.7 Meteorological Data Not Applicable

State in Attachment D.3 what arrangements are proposed for the measurement of meteorological data at the landfill installation, or for the collation of relevant meteorological information from nearby facilities.

D.3.8 Cost of the landfill of waste Not Applicable

Describe in Attachment D.3 how all of the costs involved in the setting up and operation of the landfill, including the cost of financial provision, and the estimated cost of the closure and aftercare of the site for a period of at least 30 years will be covered by the gate fee to be charged for the disposal of waste.

SECTION E: EMISSIONS

E.1. Emissions to Atmosphere

E.1.A. Details of all point emissions to atmosphere

Details of all point emissions to atmosphere should be supplied. Complete Table E.1(i) for Boiler Emissions and Table E.1(ii) and E.1(iii) for all other main emission points. Complete Table E.1(iv) for minor emission points and provide results of emission monitoring where available.

A summary list of the emission points, together with maps and/or drawings (no larger than A3), and supporting documentation should be included as **Attachment № E.1**. Plans of emission elevations, relevant roof heights, etc., should also be included, as should detailed descriptions and schematics of all abatement systems.

The applicant should address in particular any emission point where the substances listed in the Schedule of EPA (Industrial Emissions)(Licensing) Regulations 2013, S.I. No. 137 of 2013, are emitted.

For emissions outside the BAT guidance limit or BAT Conclusions levels, a full evaluation of the existing abatement/treatment system must be provided. A planned programme of improvement towards meeting upgraded standards is required. This 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 BAT guidance note(s). These notes can be found on the EPA website at www.epa.ie.

Details of the point emissions to air and a drawing showing the location are presented in **Attachment E.1**

E.1.B. Fugitive and Potential emissions

Give summary details of fugitive and potential emissions in Table E.1(v).

In relation to activities listed in the Schedule of Council Directive 2010/75/EU (on Industrial Emissions) S.I. No.565 of 2012 on installations and activities using organic solvents;

- specify the relevant category of activity in the Schedule
- specify how the requirements in relation to fugitive emissions will be met.

For waste activities, dust and odour emissions should be described under the headings in this section.

Full details and any supporting information should form **Attachment No. E.1.**

Details of the fugitive and potential emissions to air are presented in **Attachment No. E.1**

E.2 Emissions to Surface Waters

Tables E.2(i) and E.2(ii) should be completed and provide results of emission monitoring where available.

A summary list of the emission points, together with maps/drawings (no larger than A3) and supporting documentation should be included as **Attachment No. E.2**.

The applicant should address in particular any emission point where the substances listed in the Schedule of EPA (Industrial Emissions) (Licensing) Regulations 2013 S.I. No. 137 of 2013, are emitted.

Details of all substances listed in the European Communities Environmental Objectives (Surface Waters) Regulations 2009, contained in any emission must be presented. All surface water runoff and storm water drains discharging to surface water bodies must be included. A National Grid Reference (12 digit, 6E, 6N) must be given for all discharge points the identity and type of receiving water (river, ditch, estuary, lake, etc.) must be stated.

Where relevant, describe proposed measures or controls that have been identified in a pollution reduction plan for the river basin district prepared in accordance with Part V of the EC Environmental Objectives (Surface Waters) Regulations 2009 for the reduction of pollution by priority substances or the ceasing or phasing out of emissions, discharges and losses of priority hazardous substances.

For emissions outside the BAT guidance limit or BAT Conclusions levels, a full evaluation of the existing abatement/treatment system must be provided. A planned programme of improvement towards meeting upgraded standards is required. This 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 BAT guidance note(s).

The requested information in relation to emission to surface waters is presented in **Attachment No. E2.**

E.3 Emissions to Sewer

Tables E.3(i) and E.3(ii) should be completed and provide results of emission monitoring where available.

A summary list of the emission points, together with maps and/or drawings (no larger than A3) and supporting documentation should be included as **Attachment No. E.3**. Details of all List I and List II substances listed in the Annex to EU Directive 2006/11/EC (as amended), contained in any emission must be presented. All relevant information on the receiving sewer**,** including any effluent treatment/abatement systems, not already described, with schematics as appropriate should also be included in **Attachment No. E.3**.

For emissions outside BAT guidance limit (where given), a full evaluation of the existing abatement/treatment system must be provided. A planned programme of improvement towards meeting upgraded standards is required. This should highlight specific goals and a time scale, together with options for modification, upgrading or replacement as required to bring the emissions within any limits set out in the BAT guidance note(s).

There are not and will not be any emissions to sewer. Details of the management of sanitary wastewater is provided in **Attachment No.E3.**

E.4 Emissions to Ground

Describe in **Attachment No. E.4** the existing or proposed arrangements necessary to give effect to Council Directive 2006/118/EC on the protection of groundwater against pollution and deterioration and Council Directive 80/68/EEC on the protection of groundwater against pollution by certain dangerous substances.

The applicant should supply details of the nature and quality of any substance (agricultural and non-agricultural waste) to be landspread (slurry, effluent, sludges etc) as well as the proposed application rates, periods of application and mode of application (e.g., pipe discharge, tanker) having regard to the European Communities (Good Agricultural Practice for Protection of Waters) Regulations 2010, S.I. No 610 of 2010.

For emissions outside the BAT guidance limit, a full evaluation of the existing abatement/treatment system must be provided. A planned programme of improvement towards meeting upgraded standards is required. This 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 BAT guidance note(s).

The measures necessary to give effect to Council Directive 2006/118/EC on the protection of groundwater against pollution and deterioration and Council Directive 80/68/EEC on the protection of groundwater against pollution by certain dangerous substances are described in **Attachment E4.**

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 No. E.5**.

The Agency's *Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)* (2012) should be consulted (available on www.epa.ie) where a noise impact assessment is required. A planned programme of improvement towards meeting upgraded standards is required and should have due regard to the noise control and mitigation measures outlined in section 8 and appendix (IX) of the *Guidance Note.* This programme should highlight specific goals and a time scale, together with options for modification, upgrading or replacement, as required, to bring the emissions within the limits as set out in the *Guidance Note*.

The particulars of the source, location, nature, level, and the period or periods during which the noise emissions are made or are to be made are presented in **Attachment No. E5.**

E.6 Tabular Data on Emission Points

Applicants should submit the following information for each emission point:

Point Code	Point Type	Easting	Northing	Verified	Emission
Provide label ID's assigned in section	A=Atmospheric SW=Surface Water SE = Sewer GW=Groundwater	6E-digit GPS Irish National Grid	6N-digit GPS Irish National Grid	Y = GPS used N = GPS not used	e.g. SO_2, HCl, NH_3

E	N = Noise SL=Soil/Ground WS=Waste	Reference	Reference		

An individual record (i.e. row) is required for each emission point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at www.epa.ie. This data should be submitted to the Agency on a separate CD-Rom containing sections B.2, E.6 and F.3.

An Excel spreadsheet showing the requested information is in in **Attachment No. E6**.

SECTION F: CONTROL & MONITORING

Describe the proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the installation.

Describe the measures to be taken under abnormal operating conditions, including start-up, shutdown, leaks, malfunctions, breakdowns and momentary stoppages.

The measure that will be taken under abnormal operating conditions, including start-up, shutdown, leaks, malfunctions, breakdowns and momentary stoppages are described in **Attachment No F.**

Describe the measures to be taken to prevent or eliminate emissions and/or avoid pollution.

The control measures specified in Conditions 3.10, 3.11. 3.12, 6.9, 6.10, 6.11, 6.13,6.15, 6.16 and 6.19 are applied to prevent or eliminate emissions and/or avoid pollution.

Describe what appropriate measures are to be taken where an Environmental Quality Standard requires stricter conditions than would be determined with reference to BAT

An EQS does not require stricter conditions than would be determined by BAT

F.1: Treatment, Abatement and Control Systems

Details of treatment/abatement systems (air and effluent emissions) should be included, together with schematics as appropriate.

For each Emission Point identified complete Table F.1(i) and include detailed descriptions and schematics of all abatement systems.

Attachment № F.1 should contain any supporting information.

Details of the treatment, abatement and control systems relating to emissions are in **Attachment No F.1**.

F.2: Emissions Monitoring and Sampling Points

Identify monitoring and sampling points and outline proposals for monitoring **emissions**. Table F.2(i) should be completed (where relevant) for air emissions, emissions to surface waters, emissions to sewer, emissions to ground and waste emissions. Where **ambient** environment monitoring is carried out or proposed, Table F.2 (ii) should be completed as relevant for each environmental medium.

Include details of monitoring/sampling locations and methods.

Attachment № F.2 should contain any supporting information.

Details of the monitoring/sampling locations are in **Attachment No F.2** and Table F 2(ii) has been completed. The monitoring locations are shown on Drawing No. 3 Rev D

F.3: Tabular Data on Monitoring and Sampling Points

Applicants should submit the following information for each monitoring and sampling point:

Point Code	Point Type	Easting	Northing	Verified	Pollutant
Provide label ID's assigned in section F3	M=Monitoring S=Sampling	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used	e.g. SO_2, HCl, NH_3

An individual record (i.e. row) is required for each monitoring and sampling point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at www.epa.ie. This data should be submitted to the Agency on a separate CD-Rom containing sections B.2, E.6 and F.3.

Point source monitoring/sampling refers to monitoring from specific emission points (e.g. from a boiler stack or outlet from a wastewater treatment plant). Examples of ambient monitoring includes monitoring of ambient air quality (e.g. boundary or off-site) or monitoring of river quality upstream/downstream of an effluent discharge.

An Excel spreadsheet showing the requested information is in in **Attachment No F3.**

SECTION G: RESOURCE USE AND ENERGY EFFICIENCY

G.1 Give a list of the raw and ancillary materials, substances, preparations, fuels and energy which will be produced by or utilised in the activity.

The list(s) given should be very comprehensive, all materials used, fuels, intermediates, laboratory chemicals and product should be included.

Particular attention should be paid to materials and product consisting of, or containing, dangerous substances as described in the EU (Classification, Packaging, Labelling and Notification of Dangerous Substances) Regulations 2003 [SI 116/2003] as amended and Regulation (EC) No. 1272/2008. The list must classify these materials in accordance with both of these Regulations, and must specify the designated Risk Phrases (R-Phrases) and Hazard Statements. Hazard statements for each substance should be in accordance with Article 21 of the EC Regulation 1272/2008.

The list must identify any **Substances of Very High Concern (SVHC)** listed in Annex XIV of the REACH Regulations (Regulation (EC) No 1907/2006) as amended and indicate whether the use has been authorised or is exempted in accordance with the Regulation. In the case(s) of exempted use(s) the list must state the basis for each intended exempted use concerned.

Tables G.1 (i) and G.1(ii) must be completed. Copy as required.

Supporting information should be given in **Attachment No. G.**

Details of the raw and ancillary materials, substances, preparations, fuels and energy which will be produced by or utilised in the activity are given in **Attachment No. G1**

For waste activities (class 11 of the First Schedule to the EPA Act 1992, as amended), do not include here the list of wastes to be accepted for recovery and disposal. This should be described in section D.2 of the application.

G.2 Energy Efficiency

A description of the energy used in or generated by the activity must be provided in **Attachment No. G**. Outline the measures taken to ensure that energy is used efficiently having regard to the relevant decision on BAT conclusions and/or BAT guidance and where appropriate, an energy audit with reference to the EPA Guidance document on Energy Audits should be carried out.

A description of the energy used at the activity is presented in the Energy Audit Report that is in **Attachment No G.2**.

SECTION H: MATERIALS HANDLING

H.1 Raw Materials, Intermediates and Product Handling

All materials will have been listed in Tables G.1 (i) and G.(ii) of **Section G**.

Details of the storage conditions, location within the site, segregation system used and transport systems within the site should be outlined here in **Attachment No. H.1**. In addition, information relating to the integrity, impermeability and recent testing of pipes, tanks and bund areas should be outlined.

Details of the storage conditions and locations within the site are provided in **Attachment No H.1.** The Attachment also includes a report on the integrity testing of the bunds and underground sanitary wastewater storage tank, which was carried out in 2015.

H.2 Waste Prevention

Describe in **Attachment No. H.2** the arrangements for the prevention of waste in accordance with Part III of the Waste Management Act 1996, as amended. Describe what measures will be taken to prevent the generation of waste to the extent possible. State whether the installation has participated in any projects under the National Waste Prevention Programme.

The waste prevention measures taken at the site are described in **Attachment No. H2.**

H.3 Describe the arrangements for the recovery or disposal of solid and liquid wastes generated at the installation.

Applicants should ensure that information is provided for each waste generated at the installation under each of the following headings:

(a) Description & nature of waste
(b) Source
(c) European Waste Catalogue Code (Commission Decision 2000/532/EC, as amended)
(d) Animal by-product category per EC Reg. 1069/2009 where relevant
(e) Amount in tonnes per month
(f) Location and method of disposal or recovery (on-site or off-site)

The following information should also be provided where appropriate:
(g) Analysis of the waste (include test methods and Q.C.)
(h) Its location of storage and the manner by which the integrity/impermeability of storage areas is maintained
(i) Period or periods of generation of the waste

Where any waste would be classified as Hazardous Waste as defined in the Waste Management Act, 1996, as amended, this should be made clear in the information provided.

The Table H.3(i) should be completed with a single row for each waste generated at the installation. The table should be provided as part of **Attachment No. H.3.**

For waste activities (class 11 of the First Schedule to the EPA Act 1992, as amended), do not repeat the information already sought in section D.2.3 of the application form and presented in Attachment D.2 of the application.

The arrangements for the recovery or disposal of solid and liquid wastes generated at the installation are in **Attachment No. H.3**.

H.4 Waste hierarchy

Where waste is generated by the installation, describe in **Attachment No. H.4** how it will be in order of priority in accordance with section 21A of the Waste Management Act 1996, as amended, prepared for re-use, recycling, recovery or where that is not technically or economically possible, disposed of in a manner which will prevent or minimise any impact on the environment.

Section 29(2A) of the Waste Management Act 1996, as amended states that it shall be the duty of waste producers and holders to ensure that waste undergoes recovery operations in accordance with sections 21A and 32(1) of the Acts.

Describe how the waste hierarchy specified in article 21A of the Waste Management Act 1996, as amended, will be implemented at the installation. Describe how the waste generated at the installation will be managed in accordance with the waste hierarchy.

For waste whose generation cannot be prevented, describe what measures will be in place to ensure that waste is collected separately (if technically, environmentally and economically practicable) and will not be mixed with other waste or other material with different properties.

A description of how the waste hierarchy specified in article 21A of the Waste Management Acts 1996 to 2013 is and will be implemented at the installation, and how waste is and will be managed accordingly is presented in **Attachment No. H4.**

H.5 Waste recycling and recovery

Describe how the activities at the installation contribute to national targets for the recycling and recovery of waste, not least:

- the preparing for reuse and the recycling of paper, metal, plastic and glass; and
- the preparing for reuse, recycling and other material recovery, including backfilling operations using waste to substitute other materials, of non-hazardous construction and demolition waste excluding naturally occurring material defined in category 17 05 04 in the list of waste.

State whether and describe how food waste will be managed in accordance with the requirements, as may be relevant, of the Waste Management (Food Waste) Regulations 2009.

Supporting information should form **Attachment No. H.5**.

A description of how the activities at the installation contribute to national targets for the recovery and recycling of wastes and how ash waste will be managed is presented in **Attachment No. H5.**

SECTION I: EXISTING ENVIRONMENT & IMPACT OF THE ACTIVITY

Describe the conditions of the site of the installation.

Provide an assessment of the effects of any emissions on the environment, including on an environmental medium other than that into which the emissions are made.

Describe, where appropriate, measures for minimising pollution over long distances or in the territory of other states.

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 as to whether or not emissions of main polluting substances (as defined in the Schedule of EPA (Industrial Emissions)(Licensing) Regulations 2013, S.I. No. 137 of 2013) 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 No. I.1 should also contain full details of any dispersion modelling of atmospheric emissions from the activity, where required. When carrying out dispersion modelling, regard should be had to the EPA "Air Dispersion Modelling from Industrial installations Guidance Note (AG4)" or similar guidelines from a recognised authority.

Describe, where appropriate, measures for minimising pollution over long distances or in the territory of other states.

A description of the existing air quality, a statement on the likelihood of the emissions to air of the main polluting substances to impair the environment and an assessment of the impacts of existing and proposed emissions on the environment is presented in **Attachment No. I.1.**

I.2. Assessment of Impact on Receiving Surface Water

Describe the existing environment in terms of water quality with particular reference to environmental quality objectives and standards and any objectives and standards laid down for protected areas. Table I.2(i) should be completed

Provide a statement whether or not emissions of main polluting substances (as defined in the Schedule of EPA (Licensing)(Amendment) Regulations 2004, S.I. No. 394 of 2004) to water are likely to impair the environment.

Indicate whether or not the activity complies with the requirements of the EC Environmental Objectives (Surface Waters) Regulations 2009, S.I. No. 272 of 2009.

If the discharge is to water body that is already achieving high status, or if the discharge is to waters draining to the surface water bodies identified under the First Schedule of the *EC Environmental Objectives (Freshwater Pearl Mussel) Regulations 2009*, compliance must be with the 95%ile **high** status limits.

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 relevant information on the receiving environment should be submitted as **Attachment No. I.2.**

For emissions outside emission limit established according to the combined approach, a full evaluation of the existing abatement/treatment system must be provided. A planned programme of improvement towards meeting the upgraded standards is required. This 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 established in accordance with the combined approach.

A description of the existing environment in terms of water quality, a statement on the likelihood of the emissions to air of main polluting substances to impair the environment and an assessment of the impacts of on the environment, is presented in **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.

With regard to Article 15 of the Industrial Emissions Directive (or Section 86A(8) of the EPA Act 1992, as amended), describe how the environment as a whole is provided an equivalent level of protection and will not lead to higher levels of pollution in the environment.

Full details of the assessment and any other supporting information should form **Attachment No. I.3.**

Summary details and an assessment of the impacts on the environment of sewage discharge and a description how the environment as a whole is provided with an equivalent level of protection and will not lead to higher levels of pollution in the environment are presented in **Attachment No. 1.3.**

I.4 Assessment of Impact of Ground/Groundwater Emissions

Baseline Report
In the case of an activity that involves the use, production or release of relevant hazardous substances (as defined in section 3 of the EPA Act 1992 as amended), and having regard to the possibility of soil and groundwater contamination at the site of the installation, provide a baseline report in accordance with section 86B of the EPA Act 1992 as amended. Has the Agency indicated in pre-application discussions that a baseline report is required?

A baseline report shall contain the information necessary to determine the state of contamination of soil and groundwater at the time the report is drawn up in order that a quantified comparison may be made to the state of the site upon the permanent cessation of the industrial emissions directive activity.

Guidance in relation to baseline reports is available on the EPA website at www.epa.ie.

The Baseline Report should be included in **Attachment No. I.4** and clearly labelled as such.

Describe the existing groundwater quality. Tables I.4 (i) should be completed.

Give summary details and an assessment of the impacts of any existing or proposed emissions on the ground (aquifers, soils, sub-soils and rock environment), including any impact on environmental media other than those into which the emissions are to be made. This includes landspreading, land injection etc.

Land on which material may be landspread shall be identified on a suitable scaled map (1:10,560 and 1:50,000) and submitted as no greater than A3 size. All vulnerable (as a result of ground emissions) surface water bodies must be identified on these maps. Additional information should be included in **Attachment No. I.4**.

Attachment No. I.4 should also contain full details of any modelling carried out of the potential impact of emissions from the activity on groundwater.

Landspreading of Agricultural/Non Agricultural Wastes

Tables I.4(ii) and I.4.(iii) should be complete where applicable. Further information is available in the Application Guidance Document.

A description of the existing environment in terms of groundwater quality and an assessment of the impacts of on the environment are presented in **Attachment No. I. 4.**

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.

Indicate whether or not compliance with the requirements of the EC Environmental Objectives (Groundwater) Regulations 2010, S.I. No. 9 of 2010 can be achieved.

Full details including all relevant investigative studies, assessments, or reports, monitoring results, location and design of monitoring installations, plans, drawings, documentation, including containment engineering, remedial works, and any other supporting information should be included in **Attachment No. I.5**.

There is no known ground/groundwater contamination at the site. A copy of a Baseline Assessment Report is in Attachment 1.5.

Compliance with EC Environmental Objectives (Groundwater) Regulations 2009, S.I. No. 9 of 2010.

The existing discharge to ground is regulated by the licence conditions. The proposed change will not give rise to any direct or indirect discharge to ground or groundwater and will comply with the requirements of the EC Environmental Objectives (Groundwater) Regulations 2010, S.I. No. 9 of 2010.

I.6 Assessment of the Environmental Impact of On-site Waste Recovery and/or Disposal.

Describe the arrangements for any on-site recovery and disposal of waste generated by the activity.

Give details and an assessment of the impact of any existing or proposed on-site waste recovery or disposal activities on the environment, including environmental media other than those into which the emissions are to be made.

This information should form **Attachment No. I.6.**

The details are presented in **Attachment No. I.6.**

I.7 Noise Impact

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

Ambient noise measurements

Complete Table I.7 (i) in relation to the information required below:

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

Prediction models, maps (no larger than A3), diagrams and supporting documents, including details of noise attenuation and noise proposed control measures to be employed, should form **Attachment No. I.7.**

An assessment of the impacts the existing and proposed noise emissions on the environment are presented in **Attachment No. 1.7.**

I.8 Environmental Considerations, Main alternatives and BAT

I.8a Describe in outline the main alternatives to the proposed technology, techniques and measures which were studied having regard to the reference document on Economic and Cross-media Effects.

I.8b Identify in the table below all relevant decisions on BAT Conclusions (Commission Implementing Decision (CID)), BAT reference document(s) (BREFs) and EPA BAT guidance document(s) having regard to the activities and processes proposed or carried out at the installation.

These documents are available on the European IPPC bureau website at http://eippcb.jrc.ec.europa.eu/reference/ and the EPA website www.epa.ie.

Title of Document
European Commission's Reference Document on Best Available Techniques for the Waste Treatment Industries 2006 (BREF)…
Final Draft BAT Guidance on Best Available Techniques for the Waste Sector: Materials Recovery and Transfer (Environmental Protection Agency).

1.8c In order to determine BAT for the installation, tabulate using table I.8(i) below, all of the BAT conclusions from the relevant decision on BAT Conclusions (CID) or where this has not been adopted by the Commission of the European Union, the conclusions on BAT from the relevant BAT reference documents (BREF). To assist you with this, some pre-populated template documents are available for download on the EPA website http://www.epa.ie/pubs/forms/lic/industrial%20emissions/

For each BAT, in Table I.8(i), state whether it is applicable to your installation and describe how each BAT applies or not to your installation and provide information on your compliance with the requirement.

It may be useful to first identify all the 'Not Applicable' BATs and provide your reasoning in the 'Applicability Assessment' box as to why you consider this particular BAT is not applicable at/to your entire installation having regard to the scope/ definitions, general considerations and the information on applicability. (You may need to make reference to relevant processes/activities or individual emission points to provide a comprehensive response).

For each applicable BAT, state the status; 'Yes', 'Will be' or 'No' as appropriate, the use of each of these terms is described below. Information on compliance in the 'Applicability Assessment' box should include, where applicable, the following:

(i) Identification of the relevant process/ activity or individual emission points that the BAT requirement applies to at your installation;
(ii) Where BAT is to use one or a combination of listed techniques, specify the technique(s) implemented/proposed at your installation to achieve the BAT;
(iii) In relation to emissions the emission level achieved at the installation under normal conditions as compared with the BAT associated Emission Levels (only applicable to decisions on BAT conclusions); and
(iv) A comment on how the requirements are being met or will be met, e.g., a description of the technology/operational controls/management proposed to meet the requirements.

Use of terms:

(a) 'Yes' – To be selected where the installation is currently compliant with this BAT requirement.

(b) 'Will be' – To be selected where a further technique is required to be installed to achieve compliance with the BAT requirement. In this case you must also specify the date by which the installation will comply with the BAT Conclusion requirement.

(c) 'No' – (only applicable to decisions on BAT Conclusions) To be selected where the achievement of emission level associated with BAT as described in a decision on BAT conclusions would lead to disproportionately higher costs compared to the environmental benefits due to –
  (i) the geographical location or the local environmental conditions of the installation concerned, or
  (ii) the technical characteristics of the installation concerned.

Note: By selecting 'No' to an applicable emission level associated with a BAT requirement you are required to provide a detailed assessment that includes the reason and justification, in accordance with the requirements of Section 86A(6) of the EPA Act 1992 as amended.

Please note the following:

I. Refer to the EPA BAT Guidance Note relevant to the sector for BAT associated emission levels in the circumstances where a relevant decision on BAT Conclusions has not been adopted by the European Commission i.e. no CID in place.
II. Where a decision on BAT conclusion or conclusion on BAT from a BAT reference document does not apply to activities/ processes or certain aspects of an installation, refer to the relevant EPA BAT Guidance Note(s) for the determination of BAT.

I.8d Emerging Techniques

State whether you propose to test and use an 'emerging technique' in particular those identified in the BAT reference documents relevant to the activity:

☐ Yes ☒ No

If yes, describe your proposal and include in **Attachment Nº. I.8d.**

I.8e Other relevant conclusions on BAT

Please note that other reference documents may be relevant such as:
(a) BREF on Common waste water and waste gas treatment/management systems in the Chemical Sector;
(b) BREF on Emissions from Storage;
(c) BREF on Energy Efficiency;
(d) BREF on Industrial Cooling Systems;

Other documents that may be relevant:
(a) REF on Economic and Cross-media Effects;
(b) REF on Monitoring of Emissions from IED installations;
(c) Landfill Directive 1999/31/EC etc.

In this case tabulate using table I.8(i) below all the relevant BAT conclusions. Complete a separate table for each BREF and follow the instructions given above. To assist you with this, some pre-populated template documents are available for download on the EPA website http://www.epa.ie/pubs/forms/lic/industrial%20emissions/

I.8f Describe any environmental considerations which have been made with respect to the use of cleaner technologies, waste minimisation and raw material substitution.

I.8g Describe the measures proposed or in place to ensure that:

(a) The best available techniques are or will be used to prevent or eliminate or, where that is not practicable, generally reduce an emission from the activity;
(b) no significant pollution is caused;
(c) waste production is avoided in accordance with the waste hierarchy in Council Directive 98/2008/EC on waste and section 21A of the Waste Management Act 1996, as amended; where waste is produced, it is prepared for re-use, recycled or recovered or, where that is technically and economically impossible, it is disposed of while avoiding or reducing any impact on the environment (applicants should provide this information in the context of sections 29(2A), 32 and 38(5A) of the Waste Management Act 1996, as amended);
(d) energy and other resources are used efficiently;
(e) the necessary measures are taken to prevent accidents and limit their consequences;
(f) the necessary measures are taken upon definitive cessation of activities to avoid any pollution risk and return the site of operation to a satisfactory state.

Supporting information should form **Attachment № I.8a to g.**

The main alternatives to the proposed technology, techniques and measures studied; the BAT measures proposed or in place having regard to the relevant decision on BAT Conclusions or where this has not been published the conclusions on BAT from the relevant BAT reference documents, and the measures to comply with items (a) to (f) are described in **Attachment No 1.8.** It is not proposed to test and use an 'emerging technique'

Table I.8 (i) CONCLUSIONS ON BAT (One table for each relevant BAT reference document)

Title of Document			
BAT reference Number	**BAT Statement**	**Applicability Assessment**	**State technique and whether it is in place or state schedule for implementation**
e.g. BAT 1	*BAT is to implement and adhere to an environmental management system (EMS) that incorporates all of the following features:….*	*Applicable*	*Standardised EMS in place*
Title of Document *e.g Emissions from storage BREF*			
5.1.1.2	*BAT is to cover open top tank by applying a floating cover, flexible or tent cover or a rigid cover*	*One open top tank on-site*	*Proposed to cover with floating cover in 2015*

Table 1.8(i) is in **Attachment No 1.8.** As the Agency's BAT Guidance is derived from the BREF, the Table only references the BAT Conclusions from the BREF. Given the nature of the waste activities carried out, it was concluded that the Waste Industries Treatment BREF was the only one directly applicable to the site.

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.

Supporting information should form **Attachment № J.**

PANDA has prepared a Safety Statement for the site that makes provision for hazard identification and risk assessment. PANDA has also prepared and adopted an Accident Prevention Policy (APP) and Emergency Response Procedures (ERP) and these are in Attachment J.

The APP addresses all potential hazards, with particular reference to the prevention of accidents that may cause damage to the environment. The ERP identifies all potential hazards at the site that may cause damage to the environment and also specifies roles, responsibilities and actions required to deal quickly and efficiently with all foreseeable major incidents and to minimise environmental impacts.

All site personnel and visitors to the site are obliged to comply with PANDA's safety guidelines. The guidelines regulate access to and from the site and traffic movement on the site. All site personnel are provided with and are obliged to wear the requisite personal protective equipment (PPE). PPE may include face masks, gloves, safety glasses, steel-toed footwear, overalls, reflective jackets and helmets.

SECTION K: REMEDIATION, DECOMMISSIONING, RESTORATION & 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.

There is an explicit requirement in EU and Irish law for financial provision for landfills and extractive waste facilities. For new activities subject to the requirements of the Landfill Directive (1999/31/EC) and the Extractive Waste Directive (2006/21/EC) that are not already licensed by the Agency, state whether the following have been prepared:

- an Environmental Liabilities Risk Assessment (ELRA);
- a Closure, Restoration and Aftercare Management Plan (CRAMP); and
- a proposal for Financial Provision that covers all liabilities identified in the ELRA and CRAMP.

Regard should be had by applicants to relevant Agency guidance on these matters.

Copies of any relevant documents and any supporting information should be included as Attachment No. K.

The Agency may prioritise other sectors (e.g. contaminated land, risk of waste facility closure liabilities, risk based on Seveso classification) and require the preparation of a proposal for financial provision before making a decision on a licence application. Applicants are advised to discuss the requirement for financial provision with the Agency prior to making an application.

Supporting information should be included as **Attachment No. K.**

Copies of the ELRA and DMP prepared for the installation are in **Attachment No. K.**

SECTION L: STATUTORY REQUIREMENTS

Indicate how the requirements of section 83(5)(*a*)(i) to (v) and (vii) to (xa) of the Act of 1992 shall be met, having regard, where appropriate, to any relevant specification issued by the Agency under section 5(3)(*b*) of that Act or any applicable best available techniques (BAT) conclusions adopted in accordance with Article 13(5) of the Industrial Emissions Directive and the reasons for the selection of the arrangements proposed.

Indicate whether or not the activity is carried out, or may be carried out, or is located such that it is liable to have an adverse effect on -
(a) a site placed on a list in accordance with Part 3 of S.I. 477 of 2011, or
(b) a site where consultation has been initiated in accordance with Article 5 of the EU Habitats Directive (92/43/EEC).

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

Indicate whether or not the activity is liable to have an adverse effect on water quality in light of the European Communities Environmental Objectives (Surface Water) Regulations 2009 (S.I. No. 272 of 2009).

Indicate whether or not the activity is liable to have an adverse effect on water quality in light of the European Communities Environmental Objectives (Ground Water) Regulations 2010 (S.I. No. 9 of 2010).

Indicate whether any of the substances specified in the Schedule of the EPA (Industrial Emissions)(Licensing) 2013, S.I. No. 137 of 2013, are discharged by the activity to the relevant medium.

Indicate if the best environmental practices are in place for control of diffuse emissions from the installation as set out in the following legislation:

(a) a BAT Conclusions Implementing Decision published by the EC.

(b) a specification prepared by the Agency in accordance with Section 5 of the *Environmental Protection Agency Act 1992* as amended;

(c) the *Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001)* as amended by the *Urban Waste Water Treatment (Amendment) Regulations 2004 (S.I. No. 440 of 2004)* or any future amendment thereof;

(d) the *European Communities (Good Agricultural Practice for Protection of Waters) Regulations 20 (S.I. No. 610 of 2010)* or any future amendment thereof;

(e) the *Local Government (Water Pollution) Act, 1977 (Control of Cadmium Discharges) Regulations 1985 (S.I. No. 294 of 1985)*;

(f) the *Local Government (Water Pollution) Act, 1977 (Control of Hexachlorocyclohexane and Mercury Discharges) Regulations 1986 (S.I. No. 55 of 1986)*;

(g) the *Local Government (Water Pollution) Acts, 1977 and 1990 (Control of Carbon Tetrachloride, DDT and Pentachlorophenol Discharges) Regulations 1994 (S.I. No. 43 of 1994)*; and,

(h) measures or controls identified in a pollution reduction plan for the river basin district prepared in accordance with Part V of the *EC Environmental Objectives (Surface Waters) Regulations 2009 S.I. No. 272 of 2009* for the reduction of pollution by priority substances or the ceasing or phasing out of emissions, discharges and losses of priority hazardous substances.

Supporting information should be included as **Attachment No. L** with reference to where the information can be found in the application.

Supporting information is included as **Attachment No. L.**

SECTION M: DECLARATION

Declaration

I hereby make application for a licence / revised licence, pursuant to the provisions of the Environmental Protection Agency Act, 1992, 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 public inspection via the EPA's website. This consent relates to this application itself and to any further information, submission, objection, or submission to an objection whether provided by me as Applicant or any person acting on the Applicant's behalf.

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

Print signature name: _____

Position in organisation: _____

Company stamp or seal:

ANNEX 1: TABLES/ATTACHMENTS

TABLE D.2(i) Waste Acceptance (type and quantities)

TABLE D.3(III) LINER SYSTEM Not Applicable

	y/n
Provide information in Attachment D.3 to fulfil Annex 1 of the Landfill Directive	
Is the type of liner system specified?	
Has a Quality Control Plan been specified?	
Has a Quality Assurance Plan been specified?	
Has independent, third-party supervision, testing and controls been specified?	
Have basal gradients for all cells and access ramps to the cells been designed?	
Has a leak detection system been specified?	

TABLE D.3(IV) LEACHATE MANAGEMENT ARRANGEMENTS Not Applicable

	y/n
Is there a Leachate Management Plan?	
Have annual quantities of leachate been calculated?	
Has the total quantity of leachate been calculated?	
Has the size of the cells been specified taking account of the water balance calculations?	
Has a leachate collection system been specified?	
Has a leachate storage system been specified?	
Has a system for monitoring the level of leachate in the waste been designed?	
Is leachate recirculation proposed/practised?	
Has leachate treatment on-site been specified?	
Has leachate removal been specified?	

Table D.3(v)a. Landfill Gas Management Not Applicable

	y/n
Is there a Landfill Gas Management Plan?	
Is there a passive venting system?	
Does the passive system cover all of the filled area?	
Have gas alarm systems been installed in the site buildings?	
Have measures been installed to prevent landfill gas migration (e.g. barriers)?	
Has a time-scale been proposed for the installation of landfill gas infrastructure?	
Is gas flaring undertaken at the site?	
Is there an active (i.e., pumped) landfill gas extraction system?	
Does the active system cover all of the filled area?	
Is landfill gas used to generate energy at the site?	
Have emissions from the flarestack and utilisation plant been assessed for source, composition, quantity and level and rate? See section F of the application form for requirements.	
Has a maintenance programme for the control system been specified?	
Has a condensate removal system been designed?	

Table D.3(v)b Landfill Gas Monitoring for existing landfill gas flares and utilisation plants Not Applicable

Parameter	Concentration (mg/Nm^3)	Frequency of Analysis	Method of Analysis
Inlet			
Methane (CH_4) % v/v			
Carbon dioxide (CO_2) %v/v			
Oxygen (O_2) % v/v			
Outlet			
Volumetric Flow Rate			
SO_2			
Nox			
CO			
Particulates			
TA Luft Class I, II, III organics			
Hydrochloric acid			
Hydrogen Fluoride			

Table D.3(v)c Landfill Gas Monitoring Not Applicable

Parameter	Proposed Frequency of Analysis		Method of Analysis
	Gas boreholes, vents, wells and perimeter locations	Installation Office	
Methane (CH_4) % v/v			
Carbon Dioxide (CO_2) % v/v			
Oxygen (O_2) % v/v			
Atmospheric Pressure			
Temperature			

Table D.3(v)d Landfill Gas Infrastructure Not Applicable

Equipment	Monitoring Frequency	Monitoring Action
Gas Collection System		
Gas Control System		

Table D.3(vi) Capping System Not Applicable

	y/n
Has the daily cover been specified?	
Has the intermediate cover been specified?	
Has the temporary capping been specified?	
Has the Capping System been designed and does it meet the requirements of the Landfill Directive Annex 1 (3.3)?	
Does the Capping System include a flexible membrane liner?	
Have all capping materials been specified?	
Has a Method Statement for construction been produced?	
Has a Quality Control Plan been produced?	
Has a Quality Assurance Plan been produced?	
Has a programme for monitoring landfill stability been developed?	
Has a programme for monitoring landfill settlement been developed?	

Table E.1 (i) BOILER EMISSIONS TO ATMOSPHERE NOT APPLICABLE

Emission Point:

Emission Point Ref. Nº:		
Location:		
Grid Ref. (12 digit, 6E,6N):		
Vent Details	Diameter:	Height above Ground(m):
Date of commencement of emission:		

Characteristics of Emission:

Boiler rating Steam Output: Thermal Input:			kg/hr MW
Boiler fuel Type: Maximum rate at which fuel is burned % sulphur content:			kg/hr
NOx			mg/Nm^3 0ºC. 3% O_2(Liquid or Gas), 6% O_2(Solid Fuel)
Maximum volume* of emission			m^3/hr 0ºC, 3 % O_2 (liquid or gas), 6 % O_2 (solid fuel)
Minimum efflux velocity			m.sec^{-1}
Temperature	ºC(max)	ºC(min)	ºC(avg)

* Volume flow limits for emissions to atmosphere shall be based on Normal conditions of temperature and pressure, (i.e. 0ºC,101.3kPa), dry gas; 3% oxygen for liquid and gas fuels; 6% oxygen for solid fuels.

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

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

TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE (1 Page for each emission point) (**Refer to Attachment E1**)

Emission Point Ref. №:	
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	Nm^3/d	Maximum/day	Nm^3/d
Maximum rate/hour	Nm^3/h	Min efflux velocity	$m.sec^{-1}$
(ii) Other factors			
Temperature	°C(max)	°C(min)	°C(avg)20
For Combustion Sources: Volume terms expressed as : ☐ wet. ☐ dry. _____%O_2			

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

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

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

Emission Point Reference Number: _____ **(Refer to Attachment E1)**

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

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

TABLE E.1(iv): EMISSIONS TO ATMOSPHERE - Minor atmospheric emissions Not applicable

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

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

TABLE E.1(v): EMISSIONS TO ATMOSPHERE – Fugitive and Potential atmospheric emissions (Refer to Attachment E1)

Emission point ref. no. (as per flow diagram)	Description	Malfunction which could cause an emission	Emission details (Potential max. emissions)[1]		
			Material	mg/Nm^3	kg/hour

[1] Estimate the potential maximum emission for each malfunction identified.

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

Emission Point:

Emission Point Ref. №:	SW-1
Source of Emission:	Stormwater
Location of discharge :	Outfall from constructed wetland at southern site boundary
Grid Ref. (12 digit, 6E,6N):	297448E, 269009N
Name of receiving waters and water body code:	Southern land drain which connects to the Roughgrange River
Flow rate in receiving waters:	Not known _____ $m^3.sec^{-1}$ Dry Weather Flow _____ $m^3.sec^{-1}$ 95%ile flow
Available assimilative capacity:	kg/day

Emission Details:

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

(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 _____day/yr

TABLE E.2(ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission (1 table per emission point)
Current licence requires monitoring for electrical conductivity, suspended solids, TOC, Ammonia, BOD, Sulphate and metals. As the flow is rainfall dependent it is not possible to quantify loadings.

Emission point reference number: *SW-1*

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

TABLE E.3(i): EMISSIONS TO SEWER Not Applicable.

Emission Point:

Emission Point Ref. №:	
Location of connection to sewer:	
Grid Ref. (12 digit, 6E,6N):	
Name of sewage undertaker:	

Emission Details:

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

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

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

TABLE E.3(ii): EMISSIONS TO SEWER - Characteristics of the emission **Not Applicable.**

Emission point reference number: _____

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

TABLE E.4(i): EMISSIONS TO GROUND

Emission Point or Area:

Emission Point/Area Ref. №:	
Emission Pathway: (borehole, well, percolation area, soakaway, landspreading, etc.)	
Location :	
Grid Ref. (12 digit, 6E,6N):	
Elevation of discharge: (relative to Ordnance Datum)	
Aquifer classification for receiving groundwater body:	
Groundwater vulnerability assessment (including vulnerability rating):	
Identity and proximity of groundwater sources at risk (wells, springs, etc):	
Identity and proximity of surface water bodies at risk:	

Emission Details:

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

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

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

TABLE E.4(ii): EMISSIONS TO GROUND - Characteristics of the emission

Emission point/area reference number: _____

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

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

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

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

TABLE F.1(i): ABATEMENT / TREATMENT CONTROL

Emission point reference number: _____

Control[1] parameter	Monitoring to be carried out[2]	Equipment [3]	Equipment back-up

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

TABLE F.2(i) : EMISSIONS MONITORING AND SAMPLING POINTS (1 table per monitoring point)

Emission Point Reference No. : SW-1

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
Visual inspection	Daily	Safe	Grab	-
Conductivity	Weekly	Safe	Grab	Meter/probe
Suspended solids	Weekly	Safe	Grab	Meter/probe
TOC	Weekly	Safe	Grab	Meter/probe, standard method
Ammonia (asNH4)	Weekly	Safe	Grab	Standard method
BOD	Quarterly	Safe	Grab	Standard method
Sulphate (as SO4)	Quarterly	Safe	Grab	Standard method
Metals	Annually	Safe	Grab	Standard method

TABLE F.2(ii): AMBIENT ENVIRONMENT MONITORING AND SAMPLING POINTS (1 table per monitoring point)

Monitoring Point Reference No: **AD-1**

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method / technique
Dust	Quarterly	Safe	VDI 2119 '*Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method)'*, German Engineering Institute	VDI 2119 '*Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method)'*, German Engineering Institute
Bacteria*	Quarterly	Safe	Grab	Enumeration of colonies to be carried out **as** described in 'Standardised Protocol for the Sampling and Enumeration of Airborne Micro-organisms at Composting Facilities' from the Composting Association, 1999.
Aspergillus fumigatus*	Quarterly	Safe	Grab	
* Location and Monitoring point reference numbers to be agreed by the agency				

TABLE F.2(ii): AMBIENT ENVIRONMENT MONITORING AND SAMPLING POINTS

***Monitoring Point Reference No*:** **AD-2**

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method / technique
Dust	Quarterly	Safe	VDI 2119 '*Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method)'*, German Engineering Institute	VDI 2119 '*Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method)'*, German Engineering Institute
Bacteria*	Quarterly	Safe	Grab	Enumeration of colonies to be carried out **as** described in 'Standardised Protocol for the Sampling and Enumeration of Airborne Micro-organisms at Composting Facilities' from the Composting Association, 1999.
Aspergillus fumigatus*	Quarterly	Safe	Grab	
* Location and Monitoring point reference numbers to be agreed by the agency				

TABLE F.2(ii): AMBIENT ENVIRONMENT MONITORING AND SAMPLING POINTS

***Monitoring Point Reference No*:** **AD-3**

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method / technique
Dust	Quarterly	Safe	VDI 2119 '*Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method)'*, German Engineering Institute	VDI 2119 '*Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method)'*, German Engineering Institute
Bacteria*	Quarterly	Safe	Grab	Enumeration of colonies to be carried out **as** described in 'Standardised Protocol for the Sampling and Enumeration of Airborne Micro-organisms at Composting Facilities' from the Composting Association, 1999.
Aspergillus fumigatus*	Quarterly	Safe	Grab	
* Location and Monitoring point reference numbers to be agreed by the agency				

TABLE F.2(ii): AMBIENT ENVIRONMENT MONITORING AND SAMPLING POINTS

***Monitoring Point Reference No*:** **AD-4**

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method / technique
Dust	Quarterly	Safe	VDI 2119 '*Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method)'*, German Engineering Institute	VDI 2119 '*Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method)'*, German Engineering Institute
Bacteria*	Quarterly	Safe	Grab	Enumeration of colonies to be carried out **as** described in 'Standardised Protocol for the Sampling and Enumeration of Airborne Micro-organisms at Composting Facilities' from the Composting Association, 1999.
Aspergillus fumigatus*	Quarterly	Safe	Grab	
* Location and Monitoring point reference numbers to be agreed by the agency				

TABLE F.2(ii): AMBIENT ENVIRONMENT MONITORING AND SAMPLING POINTS

***Monitoring Point Reference No*:** **AD-5**

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method / technique
Dust	Quarterly	Safe	VDI 2119 '*Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method)'*, German Engineering Institute	VDI 2119 '*Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method)'*, German Engineering Institute
Bacteria*	Quarterly	Safe	Grab	Enumeration of colonies to be carried out **as** described in 'Standardised Protocol for the Sampling and Enumeration of Airborne Micro-organisms at Composting Facilities' from the Composting Association, 1999.
Aspergillus fumigatus*	Quarterly	Safe	Grab	
* Location and Monitoring point reference numbers to be agreed by the agency				

***Monitoring Point Reference No*:_____NSL1**

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method / technique
Noise – As per NG4 Guidance Document	As required by the Agency	Accessible	NG4	Standard

***Monitoring Point Reference No*:_____NSL2**

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method / technique
Noise – As per NG4 Guidance Document	Annually	Accessible	NG4	Standard

***Monitoring Point Reference No*:_____NSL3**

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method / technique
Noise – As per NG4 Guidance Document	Annually	Accessible	NG4	Standard

***Monitoring Point Reference No*:_____NSL4**

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method / technique
Noise – As per NG4 Guidance Document	Annually	Accessible	NG4	Standard

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

Ref. Nº or Code	Material/ Substance[1]	CAS Number	Danger[2] Category	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	R[3] - Phrase	S[3] - Phrase	Hazard Statement [4]
1	Diesel/Gas Oil	68334-30-5	Carcinogenic, Dangerous for the environment	74	780	Mobile plant	R40/R65/R66 /R51/R53		

Notes: 1. In cases where a material comprises a number of distinct and available dangerous substances, please give details for each component substance.
2. Article 2(2) of S.I. No. 116/2003.
3. Schedules 9 and 10 of S.I. No. 62/2004 (as amended by S.I. No. 271/2008)
4. EC Regulation 1272/2008 (Chemicals Act 2008 (13 of 2008) and 2010)

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

Ref. Nº or Code	**Material/ Substance**	**Odour**			**Pollutants (Tick and specify Group/Family Number)**				**Controlled Substances**	**Relevant hazardous substance [3]**
		Odourous Yes/No	Description	Threshold µg/m³	EC EO (Surface Waters) Regulations 2009		EC EO Groundwater) Regulations 2010		**REACH SVHC[2]**	**y/n**
					Specific pollutants	Priority (hazardous) substances	Hazardous[1]	Non-hazardous[1]		

Note 1: The EPA Classification of Hazardous and Non-Hazardous Substances in Groundwater, December 2010.

Note 2: Where relevant, specify whether the substance is on the Authorisation List (Annex XIV Regulation (EC) No 1907/2006 as amended) or Restriction List (Annex XVII Regulation (EC) No 1907/2006 as amended). Also, indicate whether the use has been authorised or exempted in accordance with Regulation (EC) No 1907/2006 as amended.

Note 3: Relevant hazardous substances are those substances or mixtures defined within Article 3 of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures which, as a result of their hazardousness, mobility, persistence and biodegradability (as well as other characteristics), are capable of contaminating soil or groundwater.

TABLE H.3(i): Generation of waste at the installation and its management

Waste description	EWC Code (use asterisk to indicate whether hazardous waste or not)	Category per Animal By-products Regulation 1069/2009	Source of waste	Quantity generated (tonnes per month)	Location of recovery of disposal (on-site, off-site, exported)	Method of recovery or disposal (e.g. recycling, energy recovery, other incineration, landfill)
Canteen waste	20 01 08		Canteen		Off-site	Recycling
Office waste	20 03 01		Office		Off-site	Energy Recovery
Paper and Packaging	15 01 01		Office		Off-site	Recycling
Waste Oils	13 02 04		Plant maintenance		Off-site	Recycling

Table I.2(i) SURFACE WATER QUALITY Not Applicable

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

Parameter	Results (mg/l)				Sampling method[2] (grab, drift etc.)	Normal Analytical Range[2]	Analysis method / technique
	Date	Date	Date	Date			

Table I.4(i) GROUNDWATER QUALITY
(Sheet 1 of 2) Monitoring Point/ Grid Reference: BH1

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			

Table I.4(i) GROUNDWATER QUALITY
(Sheet 1 of 2) Monitoring Point/ Grid Reference: BH2

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			

TABLE I.4(ii): LIST OF OWNERS/FARMERS OF LAND Not Applicable

Land Owner	Townlands where landspreading	Map Reference	Fertiliser P requirement for each farm
			*NMP must take account of on-farm slurry

Total P requirement of the client List _____

TABLE I.4(ii): LANDSPREADING

Land Owner/Farmer_____

Map Reference_____

Field ID	Total Area (ha)	(a) Usable Area (ha)	Soil P Test Mg/l	Date of P test	Crop	P Required (kg P/ha)	Volume of On-Farm Slurry Returned (m^3/ha)	Estimated P in On-Farm Slurry (kg P/ha)	(b) Volume to be Applied (m^3/ha)	P Applied (kg P/ha)	Total Volume of imported slurry per plot (m^3)

TOTAL VOLUME THAT CAN BE IMPORTED ON TO THE FARM:

Concentration of P in landspread material	- kg P/m^3
Concentration of N in landspread material	- kg N/m^3

Table I.7(i): AMBIENT & BACKGROUND NOISE ASSESSMENT

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

	National Grid Reference (6E, 6N)	Sound Pressure Levels (dB)					
		L_{Aeq}		L_{A10}		L_{A90}	
		Ambient	Background[2]	Ambient	Background[2]	Ambient	Background[2]
1. SITE BOUNDARY [3]							
Location 1:							
Location 2:							
2. NOISE SENSITIVE LOCATIONS [3]							
Location 1:NSL1	297303E, 269484N						
Location 2:NSL2	297357E, 269479N						
Location 3:NSL2	297371E, 269430N						
Location 4:NSL2	297526E, 269481N						

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.

ANNEX 2: CHECKLIST FOR Regulation 9 COMPLIANCE

Regulation 9 of the Environmental Protection Agency (Industrial Emissions)(Licensing) Regulations, 2013 sets out the statutory requirements for information to accompany a licence application. The Application Form is designed in such a way as to set out these questions in a structured manner and not necessarily in the order presented in Regulation 9. In order to ensure a legally valid application in respect of Regulation 9 requirements, all Applicants should complete the following checklist and submit it with the completed Application Form.

Regulation 9(2)		**Section in Application**	**Checked by Applicant ✓**
(a)	Give:		
	(i) the name, address and telephone number of the applicant and, if different, any address to which correspondence relating to the application should be sent and, if the applicant is a body corporate, the address of its registered or principal office,	*Section B.1*	✓
	(ii) The location or postal address (including, where appropriate, the name of the relevant townland or townlands) of the premises to which the activity relates,	*Section B.2*	✓
	(iii) The name of the planning authority in whose functional area the activity is or will be carried on, and	*Section B.6*	✓
	(iv) 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 b which it is controlled	*Section B.7*	✓
(b)	give -		
	(i) in the case of an established activity, the number of employees and other persons working or engaged in connection with the activity on the date after which a licence is required and during normal levels of operation, or	*Section B.5*	✓
	(ii) in any other case, the gross capital cost of the activity to which the application relates,	*Not Applicable*	✓

Regulation 9(2)		Section in Application	Checked by Applicant ✓
(c)	specify the relevant class or classes in the First Schedule to the Act to which the industrial emissions directive activity relates,	*Section B.3*	✓
(d)	In accordance with Section 87(1B)(a) of the EPA Act of 1992, as amended in the case where an application for permission for the development comprising or for the purposes of the industrial emissions directive activity to which the application for the licence relates is currently under consideration by the planning authority concerned or An Bord Pleanála, a written confirmation from the planning authority or An Bord Pleanála, as appropriate, of that fact together with either: (i) a copy of the environmental impact statement, 2 hard copies and 2 electronic copies or in such form as may be specified by the Agency, that was required to be submitted with the application for planning permission, or (ii) a written confirmation from the planning authority or An Bord Pleanála that an environmental impact assessment is not required by or under the Act of 2000,	*Not applicable*	✓
(e)	In accordance with section 87(1B)(b) of the EPA Act of 1992, as amended, in the case where permission for the development comprising or for the purposes of the industrial emissions directive activity to which the application for the licence relates has been granted, a copy of the grant of permission together with either: (i) a copy of the environmental impact statement, 2 hard copies and 2 electronic copies or in such form as may be specified by the Agency, that was required to be submitted with the application for permission, or (ii) a written confirmation from the planning authority or An Bord Pleanála that an environmental impact assessment was not required by or under the Act of 2000,	*Not applicable*	✓
(f)	specify the raw and ancillary materials, substances, preparations, fuels and energy which will be produced by or utilised in the activity,	*Attachment G.1*	✓
(g)	describe the plant, methods, processes, ancillary processes, abatement, recovery and treatment systems, and operating procedures for the activity,	*Attachment D.1*	✓

Regulation 9(2)		Section in Application	Checked by Applicant ✓
(h)	indicate how the requirements of section 83(5)(a)(i) to (v) and (vii) to (xa) of the Act shall be met, having regard, where appropriate, to any relevant specification issued by the Agency under section 5(3)(b) of that Act or any applicable best available techniques (BAT) conclusions adopted in accordance with Article 13(5) of the Industrial Emissions Directive and the reasons for the selection of the arrangements proposed,	*Attachment L*	✓
(i)	give particulars of the source, nature, composition, temperature, volume, level, rate, method of treatment and location of emissions, and the period or periods during which the emissions are, or are to be, made,	*Section E and Attachments E.1 to E.6*	✓
(j)	identify monitoring and sampling points and outline proposals for monitoring emissions and the environmental consequences of any such emissions,	*Section F and Attachment F*	✓
(k)	provide: (i) details, and an assessment, of the impacts of any existing or proposed emissions on the environment as a whole, including on an environmental medium other than that or those into which the emissions are, or are to be, made, and (ii) details of the proposed measures to prevent or eliminate, or where that is not practicable, to limit, reduce or abate emissions,	*Section I, Attachments I & B* *Section I, Attachments I & B*	✓ ✓
(l)	describe in outline the main alternatives to the proposed technology, techniques and measures which were studied by the applicant,	*Section I.8 & Attachment I.8*	✓

Regulation 9(2)		Section in Application	Checked by Applicant ✓
(m)	describe the condition of the site of the installation,	*Non-Technical Summary Section 3.0 & Attachment D.1*	✓
(n)	Provide, when requested by the Agency, in the case of an activity that involves the use, production or release of relevant hazardous substances (as defined in section 3 of the Act of 1992) and having regard to the possibility of soil and groundwater contamination at the site of the installation, a baseline report in accordance with section 86B of the Act of 1992,	*Not Applicable*	✓
(o)	specify the measures to be taken to comply with an environmental quality standard where such a standard requires stricter conditions to be attached to a licence than would otherwise be determined by reference to best available techniques,	*Not Applicable*	✓
(p)	describe the measures to be taken for minimising pollution over long distances or in the territory of other states,	*Not Applicable*	✓
(q)	describe the measures to be taken under abnormal operating conditions, including start-up, shutdown, leaks, malfunctions, breakdowns and momentary stoppages,	*Attachment F*	✓
(r)	describe the measures to be taken on and following the permanent cessation of the activity or part of the activity to avoid any risk of environmental pollution and to return the site of the activity to a satisfactory state or the state established in the baseline report if such is required under section 86B of the Act of 1992,	*Attachment K*	✓

Regulation 9(2)		Section in Application	Checked by Applicant ✓
(s)	describe the arrangements for the prevention of waste in accordance with Part III of the Act of 1996, and where waste is generated by the installation, how it will be in order of priority in accordance with section 21A the Act of 1996, prepared for re-use, recycling, recovery or where that is not technically or economically possible, disposed of in a manner which will prevent or minimise any impact on the environment,	*Attachment H.2*	✓
(t)	specify, by reference to the relevant European Waste Catalogue codes as prescribed by Commission Decision 2000/532/EC of 3 May 2000, the quantity and nature of the waste or wastes produced or to be produced by the activity, or the quantity and nature of waste or waste accepted or to be accepted at the installation,	*Attachment D.2(i)*	✓
(u)	state whether the activity consists of, comprises, or 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,	*Non-Technical Summary Section 2.0 & Section B.10*	✓
(v)	describe, in the case of an activity which gives rise, or could give rise, to an emission containing a hazardous substance which is discharged to an aquifer and is specified in the Annex to Council Directive 80/68/EEC of 17 December 1979 on the protection of groundwater against pollution caused by certain dangerous substances, the arrangements necessary to comply with said Council Directive,	*Not Applicable*	✓
(w)	include a non-technical summary of information provided in relation to the matters specified in subparagraphs (c) to (x) of this paragraph ,	*Non-Technical Summary Included*	✓
(x)	include any other information required under Article 11 of the Industrial Emissions Directive.		✓

Regulation 9(2)		**Section in Application**	**Checked by Applicant ✓**

Regulation 9(4) An application for a licence shall be accompanied by -		**Section in Application**	**Checked by Applicant ✓**
(a)	a copy of the relevant page of the newspaper in which the notice in accordance with Regulation 5 has been published,	*Attachment B.9*	✓
(b)	a copy of the text of the site notice erected or fixed on the land or structure in accordance with Regulation 6,	*Attachment B.9*	✓
(c)	a copy of the notice given to the planning authority under section 87(1)(a) of the EPA Act of 1992, as amended	*Attachment B.9*	✓
(d)	a copy of such plans, including a site plan and location map, and such other particulars, reports and supporting documentation as are necessary to identify and describe -	*Attachment B.2*	✓
	(i) the activity	*Attachment B.2*	✓
	(ii) the position of the site notice in accordance with Regulation 6,	*Attachment B 2*	✓
	(iii) the point or points from which emissions are made or are to be made, and	*Attachment E*	✓
	(iv) monitoring and sampling points, and	*Attachment E*	✓

(e)	a fee specified in accordance with section 99A of the EPA Act of 1992, as amended.		✓

Regulation 9(5)		Checked by Applicant ✓
	A signed original and 1 hardcopy and 2 electronic copies of the application as required under paragraphs (1) and (2) or under paragraphs (1) and (3), where the application concerns a review of a licence, and the accompanying documents and particulars as required under paragraph (4) shall be submitted to the headquarters of the Agency. The 2 electronic copies of all application documentation and particulars must be in searchable PDF format on CD Rom in structured in accordance with the "Instructions for Licence Applicant". *http://www.epa.ie/pubs/forms/lic/industrial%20emissions/instructionsforapplicantsreapplicationform.html*	
	Hardcopies submitted.	✓
	CD version submitted.	✓