Eve O'Sullivan

Subject: Application for Licence Nurendale, Cappagh Road, Finglas (W0261-01)
Attachments: Notification of Decision to Grant Permission.pdf

From: Jim O'Callaghan [mailto:jim@ocallaghanmoran.com]
Sent: 24 April 2014 16:41
To: Ana Bolger
Cc: David Naughton
Subject: Application for Licence Nurendale, Cappagh Road, Finglas (W0261-01)

Dear Ms Bolger,

In the application form we incorrectly indicated that planning permission has been granted for the proposed changes at the site. The planning authority has issued a Notification of Decision to Grant Permission for the changes and a copy of the Notification is attached. The Notice was signed on 9th April 2014 and the appeal period is still open. My apologies for the confusion.

Regards,

Jim O'Callaghan

O'Callaghan Moran & Associates
Environmental & Hydrogeological Consultants

Tel: 021 4321521
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Comhairle Contae Fhine Gall
Fingal County Council

An Roinn um Pleanáil agus Infrastruchtúr Straitéiseach
Planning and Strategic Infrastructure Department

O'Callaghan Moran & Associates
Granary House
Rutland Street
Cork

NOTIFICATION OF DECISION TO GRANT PERMISSION

PLANNING & DEVELOPMENT ACTS 2000 - 2014 AND REGULATIONS MADE THEREUNDER

Decision Order No. PB/0102/14	**Decision Date** 8 April, 2014
Register Ref. FW13A/0135	**Registered** 21 February, 2014

Applicant Nurendale Ltd

Development Permission for the construction of a new waste recovery building (2030 m2), an increase in the amount of waste accepted annually from 200,000 tonnes to 250,000 tonnes, and a change of use to allow the acceptance of municipal solid waste including baling station, relocate weighbridge, portacabin offices, canteen and toilets. The development will require a revision of the Waste Licence granted by the Environmental Protection Agency. The application will be accompanied by an Environmental Impact Statement (EIS).

Location Materials Recovery Facility, Cappagh Road, Cappogue, Finglas, Dublin 11

Floor Area 2030 Sq Metres

Time extension(s) up to and including

Additional Information Requested / **Received** 13-Feb-2014 / **21-Feb-2014**

In pursuance of its functions under the above mentioned Act, as Planning Authority, the County Council for the County of Fingal did by Order dated as above make a decision to **GRANT PERMISSION** in respect of the above proposal.

Bosca 174, Áras an Chontae, Sord, Fine Gall, Co. Bhaile Átha Cliath / P.O. Box 174, County Hall, Swords, Fingal, Co. Dublin
Swords Office t: Registry (01) 890 5541 Decisions (01) 890 5670 Appeals (01) 890 5724 f: (01) 890 6779
e: planning@fingal.ie www.fingal.ie

Bóthar an Gharráin, Baile Bhlainséir, Átha Cliath 15 / Grove Road, Blanchardstown, Dublin 15
Blanchardstown Office t: (01) 870 8436 f: (01) 890 5832 e: blanch.planning@fingal.ie

Conditions and Reasons

1. The development shall be carried out in its entirety in accordance with the plans, particulars, specifications, and information lodged with the application on the 12/12/13 and by further information received on the 21/02/14 save as may be required by the other conditions attached hereto.

   REASON: To ensure that the development shall be in accordance with the permission and that effective control be maintained.

2. This permission authorises the construction of a new waste recovery building (2030 m2), an increase in the amount of waste accepted annually from 200,000 tonnes to 250,000 tonnes, and allow the acceptance of municipal solid waste, a baling station, and the relocation of weighbridge, portacabin offices, canteen and toilets.

   REASON: in the interest of clarity.

3. The finishes of the proposed structure shall match that of the existing structure on site.

   REASON: In the interest of visual amenity.

4. All residual and food waste shall be offloaded, processed, balled and stored internally within a building and no processing or storage of residual or food waste shall take place outside.

   REASON: In the interest of amenity of the site and the site surrounds.

5. i) The hours of construction shall be from 8am-7pm Monday to Friday and 8am-1pm Saturdays.
   ii) No construction activities shall take place on the Sunday
   iii) In the event where works are necessary to be carried outside the permitted hours of construction Fingal County Council, local residences and business in the area which are likely to be affected by noise shall be notified in advance e.g. in letter or leaflet or advertisement of:
   - Name, address and telephone number of company carrying out works
   - Nature of an reason for works
   - Likely duration and times of work.

   iv) No outdoor burning shall occur on site.
   v) During the construction phase all necessary steps shall be taken to contain dust and airborne pollutants arising from the site and to prevent nuisance to persons in the locality. This shall include
   - Covering skips
   - Covering slack heaps
   - Use of water spray to suppress dust
   - Proper paved or hardstand access for trucks and vehicles to and from the site

   REASON: In order to prevent air pollution and noise nuisance.

13. No materials to which the European Communities (Control of Major Accident Hazards Involving Dangerous Substances) Regulations 2000, S.I. No.476 of 2000 (Seveso II) applies shall be stored in the proposed premises without the prior grant of planning permission by the Planning Authority or An Bord Pleanala. This shall form a clause in any leasing or sale agreement for the development.

REASON: In the interests of the proper planning and development of the area.

14. That all necessary measures including the provision of wheel wash facilities be taken by the contractor to prevent the spillage or deposit of clay, rubble or other debris on adjoining roads during the course of the works.

REASON: To protect the amenities of the area.

15. i) The applicant shall submit a Construction and Demolition Waste Management Plan to the Environment Department for the written agreement prior to the commencement of development at this site. The plan shall be prepared with reference to "Best Practice Guidelines on the Preparation of Waste Management Plans for Construction and Demolition Projects" – Department of the Environment, Heritage & Local Government (2006) and provide information on the management of all construction and demolition waste arising on-site and provide details on the provision for re-use of said material and/or recovery/disposal of this waste using authorised facilities and authorised collectors.
ii) The applicant shall ensure that all hauliers of waste hold a valid Waste Collection Permit for the waste material collected from the site and that the waste material is delivered to authorised waste recovery/disposal facilities.
iii) The applicant comply with the requirements of the Waste Management Act 1996 as amended in relation to waste generated as a result of any activity at this site.
iv) The acceptance and processing of Municipal Solid Waste shall not commence in advance of the applicant holding a valid Waste Licence/revised Waste Licence (W0261-01) for the operation of this activity and the applicant shall comply with all conditions attached to that licence or revised licence.

REASON: In the interest of proper planning and sustainable development

16. Prior to commencement of development the developer shall apply for and sign a connection agreement with Irish Water, where it is proposed to connect to a public water/wastewater network operated by Irish Water. The developer shall adhere to the standards and conditions set out in said agreement.

REASON: In the interests of public health and in order to ensure adequate drainage provision.

17. i) Prior to commencement of development the applicant shall submit for the written agreement of the Planning Authority the exact capacity of the attenuation tank.
ii) No surface water/rainwater shall discharge into the foul sewer system under any circumstances.
iii) The surface water drainage shall be in compliance with the "Greater Dublin Regional Code of Practice for Drainage Works Version 6.0" FCC April 2006.

REASON: In the interests of public health and in order to ensure adequate drainage provision.

18. The developer shall pay the sum of € 120,466 to the Planning Authority as a contribution towards expenditure that was and/or that is proposed to be incurred by the planning authority in respect of public infrastructure and facilities benefiting development in the area of the Authority, as provided for in the Contribution Scheme for Fingal County made by the Council. The phasing of payments and the provision of security to ensure payment shall be agreed in writing with the planning authority prior to the commencement of development.

REASON: It is considered reasonable that the payment of a contribution be required in respect of the public infrastructure and facilities benefiting development in the area of the Planning Authority and which is provided, or which is intended to be provided by, or on behalf of the Local Authority.

Note on above Condition:
Please note that with effect from 1st January 2014, Irish Water are now the Statutory Body responsible for both water and waste water services (excluding surface water). Accordingly, the contribution payable has been reduced by the amount of the contribution associated with these services. A separate charge will be levied by Irish Water in relation to the provision of water and/or wastewater treatment infrastructure and connections to same. Further details are available on the Irish Water website www.water.ie, Tel. (01) 6021000.

Signed on behalf of the Fingal County Council

for **Senior Executive Officer**

9 April, 2014

NOTES:

A number of the conditions attached to the planning permission may need compliance submissions to be lodged and agreed prior to commencement of development. Failure to comply with a condition of the planning permission is an offence under Section 151 of the Planning and Development Act 2000. Copies of each compliance submission should be made in triplicate.

The applicant is required to remove Site Notice on receipt of Notification from Planning Authority of decision.

Please note all observations/submissions have been taken into consideration when making this decision.

Please also note that consent under the above Planning legislation does not imply consent under the Building Control Regulations. The onus is on all practitioners to ensure full compliance with the Building Control Regulations (In certain circumstances design changes may require planning permission).

It should be further noted that planning permission is required in respect of changes to a Protected Structure or the exterior of a building in an Architectural Conservation Area which materially affects the character of the building/ structure.

Granary House
Rutland Street
Cork

Tel. [021]4321521
Fax. [021]4321522

Waste Licence Applications,
Office of Climate, Licensing & Resource Use,
Environmental Protection Agency,
Headquarters P.O. Box 3000,
Johnstown Castle Estate,
Co. Wexford

23rd April 2014

RE: Application for Licence Nurendale, Cappagh Road, Finglas (W0261-01)

Dear Sir / Madam,

On behalf of Nurendale, trading as Panda Waste Services, I enclose one original and one hardcopy of the application for an Industrial Emission Directive (IED) Licence along with one original and one copy of the Environmental Impact Statement (EIS), which accompanies the application. I also enclose two CD-ROM discs containing two files of the IED application and two files of the EIS and one CD-ROM containing Attachment B2 in searchable PDF format. The content of the electronic files is a true copy of the original application form and supporting information.

The application includes: -

- Application Fee €30,000,
- Completed Application Form,
- Accompanying Document in Support of the Application, including Attachments B-L
- Environmental Impact Statement.
- 3. No CD-ROM Discs.

Yours sincerely,

_____
Jim O'Callaghan

1204802201/JOC/KC
Encl
CC: Mr. Malcolm Dowling

Industrial Emissions Activities Licence

Application Form

EPA Reg. №:
(Office use only)

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

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.

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.

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

NON-TECHNICAL SUMMARY

Nurendale Ltd, trading as PANDA Waste Services, Rathdrinagh, Beauparc, Navan, County Meath is applying to the Environmental Protection Agency (EPA) for a Licence for its existing Materials Recovery Facility at Cappagh Road, Cappogue, Finglas, Dublin 11. It is intended to increase the amount of waste accepted at the facility from 200,000 tonnes annually to 250,000 tonnes; to accept Municipal Solid Waste; extend the operational hours and pre-treat waste for incineration or co-incineration. The classes and nature of the industrial emissions directive activities, in accordance with the First Schedule to the Act of 1992 as amended, are:

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 Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply):
(ii) pre-treatment of waste for incineration or co-incineration;

Fingal County Council has issued a Notice of a Decision to Grant Planning Permission for the development. An Environmental Impact Statement (EIS). was submitted with the planning application and a copy of The EIS is included in the application

The design and method of operation at both the existing facility and proposed development are based on the requirements the Agency's Final Draft BAT Guidance on Best Available Techniques for the Waste Sector: Materials Recovery and Transfer and 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 emission limit values were determined by those set in the existing Waste Licence, which comply with BAT, and an assessment of the impacts of the new emission sources, which include odours and noise.

The EC (Control of Major Accident Hazards involving Dangerous Substances) Regulations 2006 do not apply.

The Installation

The site (2.58 hectares) is on Cappagh Road, approximately 2.5km southwest of Dublin Airport. It operates under planning permission granted by Fingal County Council and a Waste Licence (Register Number W0261-01), issued by the Environmental Protection Agency (EPA), both of which approve the construction of three waste processing buildings (Building A1, Building B1 and Building B2) and the acceptance of 200,000 tonnes of waste/year.

Building A1 is built and in operation, with Buildings B1 and B2 under construction. When the works are complete, the site will be occupied by the Building A1 (1760m^2), Buildings B1 (2,800m^2) and B2 (4,680m^2), electrical substation, weighbridge, concrete paved yards, foul water and surface water drainage system, cap parking, offices and a security fence.

Building A1 is currently used to process construction and demolition (C&D) waste and commercial and industrial (C&I) waste. Building B1 will handle mixed household and commercial dry recyclable wastes, (mixed paper, plastic, cardboard, food and drink cans etc.). Building B2 will handle clean paper and cardboard (newsprint, magazines, office paper, cardboard packaging) from publishers and book printers, offices, supermarkets and shops.

Currently approximately 75 people are based at the facility. These comprise 14 full time staff, including a Facility Manager, weighbridge clerk, machine operators, general operatives and approximately 60 collection vehicle drivers and operatives, who are based at the site but are not on-site full time. The number of full time staff will increase to 19, but there will be an overall reduction in the numbers based at site as the skip trucks will be moved to a new depot. The current operational hours are 8am to 8pm Monday to Friday and 8am to 4pm on Saturday.

PANDA proposes to accept the residual waste and food waste at the Cappagh Road plant and to construct a new Building (A2) adjoining A1. Buildings B1 and B2 will continue to be used for dry recyclables and paper and cardboard recovery and storage. The current C&D and C&I processing will be moved into the new building and A1 will be used to handle the household residual waste and food waste. The reason for the change of use is that Building A1 is the furthest away from the nearest sensitive receptor, which is a private residence 30m south east of the site boundary

Due to both customer demands and new regulations on the times when wastes can be collected, there is a need to change the hours to allow early morning and late evening deliveries. Therefore, PANDA proposes to change the waste acceptance hours to 6am to 11pm Monday to Saturday and the operational hours to 7am to 10pm. Monday to Saturday. Wastes will be accepted between 6am and 11pm Monday to Saturday. Waste processing will only be carried out between 7am and 10pm Monday to Saturday. Normally the site will not operate on Sundays and Public Holidays.

The household collection trucks will empty the food waste onto the floor of the building and it will then be 'bulked up' by loading it into articulated trailers that can carry 24 tonnes and sent for biological treatment plants, for example composting and anaerobic digestion. This will not involve any processing and typically the waste will be removed from the site on the day it arrives and in any event no later than 48 hours to allow for Sundays and Public Holidays.

The residual waste will also be transferred to off-site energy recovery installations. This will involve first shredding the bin bags that contain the waste to allow the recovery of the recyclable metals (food and drink tins/cans) and food waste that are inadvertently placed in 'black bin' by householders. This may, involve the use a combination of a screens, conveyors, magnets and separators. The remaining waste will then compacted into bales that are wrapped in plastic and stored before being sent to waste recovery plants.

Water is obtained from an on-site well. Wastewater from the toilets and canteen is collected and stored in an underground tank before being sent for treatment at the Ringsend sewage treatment plant.

At present, rainwater is collected and channelled to an underground storage tank in the south of the site. The size of the tank is based on the need to store rainfall from a 1 in 100 year event on the entire site. From the tank the water passes through an oil interceptor to the surface water drain serving the Stadium

Business Park, which adjoins the site's southern boundary. The flow from the tank to the drain is limited to 6 litres/second to minimise the risk of flooding outside the site. There is a shut off device that can be activated to stop the flow from the tank in the event of an incident that can cause surface water contamination.

The storage tank has the capacity to take the rainwater run-off from the roof of the new building. Rainwater run-off from the roofs of Building A2, B1 and B2 will be collected and used to supplement groundwater used in the toilets and in the dust suppression system.

Before the residual waste and food wastes are taken in, an odour control unit will be provided in Building A1. This will consist of two fans located outside the south western side of the building, which will draw air from the inside the building and pass it through dust filters and a carbon treatment unit that will remove odours. The system will be similar to those that are successfully operating at other sites that handle residual and food waste and the design will be approved by the EPA before it is installed.

Raw & Auxiliary Materials and Energy Usage

Facility operations involve the consumption of water, oil and electricity. The estimated quantities used annually at full capacity are given in Table 1

Table 1 : Resource Consumption

Resource	Quantities
Water	311m^3
Diesel	780,000 litres
Gas Oil	120,000 litres
Electricity	3,400MW

Sources of Emissions

The actual and potential emissions from the site are:

Noise from plant and equipment used to process the wastes; delivery/collection vehicles and odour control fans.

Dust from waste processing and vehicle movements on yards during dry weather.

Rainwater run-off from the yards and building roofs.

Odours from the processing of the household and residual food waste.

Vehicle exhaust gases from the delivery and collection vehicles.

Environmental Conditions

The lands surrounding the site have been intensively developed for industrial, commercial and quarrying use. Stadium Business Park adjoins the southern site boundary; a Coca Cola distribution depot is at the north-western boundary; Cappagh Road forms the eastern boundary and across the road is Huntstown Quarry. To the north is a lot owned by PANDA and currently leased to a haulage

company and further north is Millennium Business Park. The land to the west is zoned for commercial use.

There is one private residence located close to the facility, approximately 30m from the south eastern boundary. There is a cluster of ten houses approximately 450m to the south east, on the western side of the Cappagh Road. These are the only private residences within 500m of the site.

The climate in the area is mild and wet, with the prevailing wind direction from the south west. The subsoils are clayey tills that range from 0.8 to 1.3m thick. The underlying bedrock is limestone and shale. It is a moderately productive aquifer and water for the toilets and the dust water spray suppression system is pumped from an on-site well. The water from the well is not used as drinking water.

The site is in the catchment of the River Tolka and there is a tributary of the river approximately 1km to the west of the site. The site is not in a flood plain and there is no record of any flooding either at or in the vicinity of the site. Rainwater run-off from the site discharges to the storm water sewer that serves the adjoining Stadium Business Park and this sewer outfalls to the Tolka. The surface water monitoring carried out in accordance with the current licence conditions confirms that the run-off from the site meets the emission limit values set in the licence.

The ambient air quality is good and the routine dust monitoring carried out in accordance with the current licence conditions confirms dust is not an issue. The noise levels in the area are typical of an area zoned for industrial use. The annual noise monitoring carried out in accordance with the current licence conditions confirms the site is not a source of noise nuisance.

There is no evidence of any soil or groundwater contamination at the site and a baseline report has been prepared.

Nature of the Emissions and Assessment of Impact

Climate

All new developments that give rise to extra greenhouse gases (GHG) emissions are considered to have a negative effect on climate. While the increase in the amount of waste accepted will result in additional GHG emissions from the handling equipment, this will be off-set somewhat by the significant reduction in the GHG emissions from the household waste collection trucks that no longer have to drive to another PANDA facility with the household residual and food waste. Overall the development will have an imperceptible negative impact.

Soils and Geology

The construction of the new building will involve disturbance of the ground, but the impact will be limited, with no long term effect. There will be no new emissions to ground in the operational stage. 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. Overall the development will have a negligible negative during the construction stage, with no long term impact, and will have no impact in the operational stage.

Water

The existing surface water storage tank is designed to accommodate the run-off from the roof of the new building and discharge it at a controlled rate to the drain serving Stadium Business Park. 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 run-off to the drain. The proposal to collect rainwater for use in the toilets and the dust suppression system will reduce the volume of the run-off to the storm water drain, which will have a perceptible positive impact.

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.

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 with the potential to be impacted by site operations is the South Dublin Bay and River Tolka Estuary Special Protection Area (SPA) Natura 2000 Site, which is more than 10 km to the east and this is an important bird habitat. The rainwater run-off from the site goes the storm water drain in the Stadium Business Park, which connects to the River Tolka.

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 Cappagh Road MRF, the proposed changes will not have any indirect or cumulative impacts on the Natura 2000 Site. Overall the development will have no impact on the ecology.

Air Quality

The air quality in the vicinity of the site is good. The increase in the amount of waste accepted will result in additional traffic movements, with a consequent increase in vehicle exhaust emissions that have the potential to affect air quality. The residual waste and food waste are odorous and, unless managed properly, can be the source of a major odour nuisance.

The emissions from the additional traffic moving in and out of the site will be off-set by the reduction in the total emissions from the household waste collection fleet, as they will no longer have to drive from the collection route to Ballymount.

An odour control system of a similar design to those that are proven to work effectively at other waste management sites will be installed in A1 before the residual and food wastes are accepted. The system will be a combination of improvements to the building, such as sealing up joints and providing roller shutter doors, and an odour treatment unit that will draw the air out of the building using two electrically powered fans and pass it through filters and a bed of carbon that will absorb the odours.

While design of the odour control system is known to be effective, and in any event must be approved in advance by the EPA, as a precautionary measure the residual waste and food waste will be handled in the existing building, which is furthest removed from the closest occupied private residence, some 30m south east of the site.

A detailed odour impact assessment, which included computer modelling, has confirmed that odours from the proposed operations will not be a cause of nuisance outside the site boundary.

Overall the emissions from the additional traffic will have a negligible adverse impact locally, while odours will have a neutral impact.

Noise

The current and proposed activities are sources of noise. The Waste Licence sets noise levels for the site operations and requires noise surveys to be conducted. These surveys have confirmed that the noise levels in the vicinity of the site are as would be expected in an industrial area and that the existing operations are not causing a nuisance outside the site boundaries.

The closest noise sensitive receptor is the private residence 30m from the south eastern site boundary. PANDA has already constructed a 3m high wall along the boundary to reduce noise impacts at this house.

The proposed handling of residual waste and food waste will be a new source of noise at the site and the additional traffic will also contribute to noise. Traffic movement will occur in what is known, for noise impact assessment purposes, night time (6am to 7am and 10pm to 11pm).

The odour control unit fans will be housed and all vents in the building will be fitted with louvers. The materials used to construct the building will have a capacity to absorb noise and there will be no openings at the southern end of the new building, which is closest to the private residence to the south of the site.

An assessment of the impacts of the new noise sources has established that they will not exceed the day time and night time limits set in the Waste Licence and will not be a cause of nuisance outside the site boundary.

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 both the existing facility and proposed development 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 and the Agency's Final Draft BAT Guidance on Best Available Techniques for the Waste Sector: Materials Recovery and Transfer.

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 dust suppression, and require appropriate emergency response procedures to be in place.

An odour control system will be installed in A1 before the residual and food wastes are accepted. The system will be a combination of improvements to the building, such as sealing up joints and providing roller shutter doors, and an odour treatment unit that will draw the air out of the building using two electrically powered fans and pass it through filters and a bed of carbon that will absorb the odours.

While design of the odour control system is known to be effective, and in any event must be approved in advance by the EPA, as a precautionary measure the residual waste and food waste will be handled in the existing building, which is furthest removed from the closest occupied private residence, some 30m south east of the site.

Summary of the Quantity and Nature of the Waste

The overall amount of waste accepted will increase from 200,000 tonnes to 250,000 tonnes annually to accommodate the household residual waste and food waste currently collected in Fingal. The wastes will be non-hazardous and will be generated by households, commercial and industrial operations and construction & demolition sites.

Measures to Comply with Waste Management Hierarchy

The existing facility is designed and operated to maximise the recovery of recyclables from the incoming wastes. The proposed changes are consistent with the Waste Hierarchy as the production of SRF/RDF using non-recyclable materials will gain the maximum value from the waste.

BAT

Condition 2 of the current Waste Licence requires PANDA to develop and implement an Environmental Management System for the facility, which is consistent with the requirements of both Agency's BAT Guidance Note and the BREF. It 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.

The Licence conditions require the implementation of the control measures specified in the BREF in so far as they apply to non-hazardous solid waste processing and the prevention of soil contamination. The conditions also specify the relevant control techniques referenced in the Agency's BAT Guidance

The proposed changes take into consideration the requirements of the BREF and the Agency's BAT Guidance. In particular;

- The collection and treatment of odorous air from Building A1, which will handle the household residual and food waste. This will be achieved by a combination of building design and construction; provision of a negative air system, and the treatment of the odorous air in appropriately designed and operated treatment plant.

- For the preparation of waste for use of a solid waste fuel BAT requires the development of a close relationship with the solid fuel user to ensure user in order that a proper transfer of the knowledge of the waste fuel composition is carried out; have a quality assurance system to guarantee

the characteristics of the waste fuel produced, and to manufacture different type of waste fuels according to the type of user (e.g. cement kilns, power plants).

- For the preparation of a solid fuel from non-hazardous waste it is BAT to visually inspect the incoming waste to sort out the bulky metallic or non-metallic parts; use magnetic ferrous and non-ferrous metal separators and use a combination of shredder systems and pelletisers suitable for the preparation of the specified size waste fuel.

Abnormal Operating Conditions

PANDA has prepared and adopted an Accident Prevention Policy (APP) and Emergency Response Procedures (ERP). 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.

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 the Agency in December 2013.

Environmental Monitoring:

Environmental monitoring will be carried out in accordance with the licence conditions. The monitoring will includes noise, dust, surface water and odours.

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

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

There will be no discharge to ground. The site is designed to prevent accidental emissions to ground.

The Main Alternatives to the Proposed Technology, Techniques and Measures

Alternative Sites

The only potentially suitable site was at Kilshane Cross and owned by Fingal County Council. It has planning approval and a Waste Licence to operate as an Integrated Waste Management Facility, including the acceptance and processing of household residual and food waste. PANDA engaged in the recent public tendering process for the site, but were not successful. This means that the only alternative is to develop a new standalone waste management facility in Fingal.

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 development at the existing site

Alternative Site Layout & Processes

The residual waste and food waste could be handled in Building A2, as it will have the capacity to accept the quantities involved. However, A2 is close to the southern site boundary and the nearest private residence to the site is 30m south east of the boundary.

Although an effective odour control system will be provided, as a precautionary measure it was decided not to use the new building for residual and food waste handling, but to locate this operation in Building A1, which is furthest away from the private residence.

PANDA is one of the leading innovators in the use of waste recovery MRF in Ireland. The proposed site layout and processes designed to achieve the most economically and environmentally efficient way to process the wastes and there are no practically viable alternatives.

SECTION B: GENERAL

B.1. Owner/Operator

Name*:	Nurendale Limited
Address:	Rathdrinagh
	Beauparc
	Navan
	County Meath
Tel:	046 9024111
Fax:	046 9024189
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, County 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 9024189
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:
Address:
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:

Name and address of the primary installation contact for enforcement purposes, where a licence is granted (if different from applicant named above):

Name:
Position in organisation:
Address:
Tel:
Fax:
e-mail:

B.2. Location of Activity

Name:	Nurendale Ltd
Address*:	Cappagh Road
	Cappogue
	Finglas
	Dublin 11
Tel:	
Fax:	
Contact Name:	
Position:	
e-mail:	

* Include any townland.

National Grid Reference (12 digit 6E,6N)	E 310313 N240410

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	
Name of CD-Rom with digital drawing files	

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
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): (ii) pre-treatment of waste for incineration or co-incineration;

B.3A 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 the relevant activities as listed in Annex I and Annex II of the Waste Framework Directive (2008/98/EC). Complete table B.3A provided in Annex 1 of this application form.

TABLE B.3A 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.).	
D 2	Land treatment (e.g. biodegradation of liquid or sludgy discards in soils, etc.).	
D 3	Deep injection (e.g. injection of pumpable discards into wells,	

Annex I Disposal Operations		Y/N
	salt domes or naturally occurring repositories, etc.).	
D 4	Surface impoundment (e.g. placement of liquid or sludgy discards into pits, ponds or lagoons, etc.).	
D 5	Specially engineered landfill (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc.).	
D 6	Release into a water body except seas/oceans.	
D 7	Release to seas/oceans including sea-bed insertion.	
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.	
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.).	
D 10	Incineration on land.	
D 11	Incineration at sea.[1]	
D 12	Permanent storage (e.g. emplacement of containers in a mine, etc).	
D 13	Blending or mixing prior to submission to any of the operations numbered D 1 to D 12.[2]	
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]	
R 2	Solvent reclamation/regeneration.	
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.	
R 7	Recovery of components used for pollution abatement.	
R 8	Recovery of components from catalysts.	
R 9	Oil re-refining or other reuses of oil.	
R 10	Land treatment resulting in benefit to agriculture or ecological improvement.	
R 11	Use of waste obtained from any of the operations numbered R 1 to R 10.	
R 12	Exchange of waste for submission to any of the operations numbered R 1 to R 11.[6]	
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.

B.4 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
5.3 (b)(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: (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. When the only waste treatment activity carried out is anaerobic digestion, the capacity threshold for this activity shall be 100 tonnes per day.

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.

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

IED Chapter(s) and relevant Annex(es)

Supporting information should be included in **Attachment № B.4**.

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

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

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

Number of Employees (existing facilities):	19 Full time staff
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:	Fingal County Council
Address:	Grove Road
	Blanchardstown
	Dublin 15
Tel:	01 8708476
Fax:	01 8905832

Planning Permission relating to this application:

B.6.(a) is not required	
B.6.(b) has been obtained	√
B.6.(c) is being processed	

Local Authority Planning File Reference №:	FW13A/0135
An Bord Pleanála Planning File Reference No:	

The following should be addressed in **Attachment B.6**.

B.6(a) Planning permission not required

Where **the new activity or changes to the existing activity which require this licence/review application** does not require a grant of planning permission, the following should be included in **Attachment № B.6**:

- Confirmation in writing from the planning authority or An Bord Pleanála, as the case may be, that a grant of permission is not required,

AND

- Details of previous planning permissions granted for the development comprising the activity, including a copy of the grant of permission and a copy of all conditions.

AND EITHER

(a) Where the planning authority or An Bord Pleanála accepted or required the submission of a copy of an EIS under the Planning and Development Act 2000, as amended, for a previous planning permission application, the required number of copies of the most recent EIS should be submitted. A copy of the planning inspector's report associated with that EIS should also be submitted.

OR

(b) Where an EIS was not required for any previous planning permissions granted for the development comprising the activity, submit confirmation in writing from the planning authority or An Bord Pleanála that an environmental impact assessment was not required for the development by or under the Planning and Development Act 2000, as amended.

- Where a grant of planning permission has never been required for the site of the activity, submit confirmation in writing from the planning authority or An Bord Pleanála, as the case may be, of same.

B.6(b) Planning permission already granted

Where **the new activity or changes to the existing activity which require this licence/review application** has already been granted planning permission by a planning authority or An Bord Pleanála, the following should be included in **Attachment № B.6**:

- a copy of the grant of permission and either:

(a) where the planning authority or An Bord Pleanála accepted or required the submission of a copy of an EIS under the Planning and Development Act 2000, as amended, the required number of copies of that EIS;

OR

(b) confirmation in writing from the planning authority or An Bord Pleanála that an environmental impact assessment was not required for the development by or under the Planning and Development Act 2000, as amended.

A copy of the notification of the Decision to Grant Planning Permission is in **Attachment No B6.** Copies of the EIS that were submitted with the planning application accompany this licence application.

A summary of the planning permissions for the site is provided in **Attachment B 6**

- A summary of all previous planning permissions granted for the site of the activity should be provided.

B.6(c) Planning permission under consideration

Where **the new activity or changes to the existing activity which require this licence/review application** involves development or proposed development that requires a grant of planning permission, and the relevant planning application is under consideration by the planning authority or An Bord Pleanala, the following should be included in **Attachment № B.6**:

- 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, and either:

(a) the required number of copies of the EIS relating to that application for permission, where one is required by or under the Planning and Development Act 2000, as amended;

OR

(b) 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, as amended.

- A summary of all previous planning permissions granted for the site of the activity should be provided.

A summary of the planning permissions for the site is provided in **Attachment B 6**

For B.6(b) and B.6(c) above, please note that 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).

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 copy of a screening for Appropriate Assessment report is included in **Attachment No 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. This should include, but is not limited to, any permits/licenses or registration under GHG Emissions Trading Regulations and GMO Regulations.

Details of the Permits and Licences that applied to the site are in **Attachment No. B6**

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.

The site notice, newspaper advertisement and planning authority notice are in **Attachment No B9**

B.10 Seveso II Regulations

State whether the activity is an establishment to which the EC (Control of Major Accident Hazards involving Dangerous Substances) Regulations (S.I. No. 74 of 2006) apply.

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

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

The activity is not an establishment to which the EC (Control of Major Accident Hazards involving Dangerous Substances) Regulations (S.I. No. 74 of 2006) apply.

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/ozone/guidanceanddownloads/

B.13 Review of a licence Not Applicable

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.

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.

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

Supporting information should be included in **Attachment № B.13**.

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 Waste Licence and is not accredited

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**. As the processes are generally simple, flow diagrams are not considered necessary

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 Acts 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.

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	Year 1 of grant of Licence

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 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 D2.2**. They are based on the requirements of the current Waste Licence.

D.2.3 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.2.3**

D.2.4 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 № D.**

Details on how the proposed waste activities will contribute to the States waste management obligations are in **Attachment D.2.4**

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)

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 Acts 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

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

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

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

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

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

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

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

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 E.1.**

Details of the fugitive and potential emissions to air are presented in **Attachment 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 № 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 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 № 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 №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 E3.**

E.4 Emissions to Ground

Describe in **Attachment № 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).

There are not and will not be any emissions to ground. 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 № 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 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 E	A=Atmospheric SW=Surface Water SE = Sewer GW=Groundwater N = Noise SL=Soil/Ground WS=Waste	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 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 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 measures taken to prevent and eliminate emissions are described in **Attachment No F.**

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**

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] 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. R-Phrases for each substance should be in accordance with Article 21 of the S.I 1272/2008.

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

Supporting information should be given in **Attachment № 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 Acts 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 № 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 2012.

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 Acts 1996 to 2013. 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 Acts 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 № H.4** how it will be in order of priority in accordance with section 21A of the Waste Management Acts 1996 to 2013, 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 Acts 1996 to 2013 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 Acts 1996 to 2013 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 an 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 № H.5**.

A description of how the activities at the installation contribute to national targets for the recovery and recycling of wastes and how food 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, including an odour impact assessment, is presented in **Attachment I.1.** The information in the Attachment is derived from Chapter 10 of the EIS.

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.** The information in the Attachment is derived from Sections 9.2, 9.5 9.6 and 9.7 of the EIS.

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 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 № I.4**.

Attachment № 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 I. 4.** The information in the Attachment is derived from Sections 9.3, 9.5, 9.6 and 9.7 of the EIS. A baseline report in accordance with Section 86B of the EPA Act 1992, as amended is also in the Attachment.

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 № I.5**.

There is no known ground/groundwater contamination at the site.

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

The activity 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 No1.6.**

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.**

Details and an assessment of the impacts the existing and proposed noise emissions on the environment are presented in **Attachment No 1.7.** The information in the Attachment is derived from Chapter 12 of the EIS.

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 all relevant decisions on BAT Conclusions, BAT reference document(s) (BREFs) and BAT guidance document(s).

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 Identify 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 (BREF). Where BAT is not being proposed, provide reasons and a justification. The conclusions on BAT from

all relevant TAB reference documents (BREF) should be tabulated in table I.8(i). These documents are available on the European IPPC bureau website at http://eippcb.jrc.ec.europa.eu/reference/.

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.

I.8d Describe any proposal to test and use an 'emerging technique'.

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

I.8f 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.8.**

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 to installation**	**Proposed/ in place**
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 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.**

Details of the existing and accident prevention and emergency response measures, including fire prevention are provided in **Attachment No J.**

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 (x) of the EPA Act 1992, as amended, shall be met, having regard, where appropriate, to any relevant specification issued by the Agency under section 5 (3) of the Act 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 № L** with reference to where the information can be found in the application.

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

Signed by: _____ **Date:** 14/4/214.
(on behalf of the organisation)

Print signature name: EATON WATERS

Position in organisation: DIRECTOR

Company stamp or seal:

SECTION M: DECLARATION

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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)

EWC Code	Waste description (the actual description of the waste, not the text accompanying the EWC code)	Tonnes per annum (existing)	Tonnes per annum (proposed)
02 03 04			
02 06 01			
15 01 01	Cardboard Packaging	10,000	25,000
15 01 02	Plastic Packaging	2,000	10,000
15 01 03	Wooden Packaging	100	1,000
15 01 04	Metallic Packaging	100	100
15 01 05			
15 01 06	Mixed Packaging	500	3,000
15 01 07	Glass Packaging	0	1,000
15 01 09			
16 01 03	End of life tyres	0	100
16 03 06			
16 05 04			
16 05 05			
17 01 01			
17 01 02			
17 01 03			
17 01 07	C&D waste – concrete, bricks, tiles and ceramics	1,000	5,000
17 01 11			
17 02 01			
17 02 02			
17 02 03			
17 03 02			
17 04 01			
17 04 02			
17 04 03			
17 04 04			
17 04 05			

EWC Code	Waste description (the actual description of the waste, not the text accompanying the EWC code)	Tonnes per annum (existing)	Tonnes per annum (proposed)
17 04 06			
17 04 07			
17 05 03			
17 05 04	Soil and Stones	4,000	10,000
17 06 01			
17 06 03			
17 06 04			
17 08 01			
17 08 02	Gypsum-based construction materials	100	1,000
17 09 01			
17 09 02			
17 09 03			
17 09 04	Mixed C&D Waste	40,400	35,000
18 01 04			
19 08 01			
19 09 02			
19 12 01			
19 12 02			
19 12 03			
19 12 04			
19 12 05			
19 12 07			
19 12 08			
19 12 09			
19 12 10	Combustible waste	0	1,000
19 12 11			
19 12 12	Other wastes (pre-treated)	1,000	4,000
20 01 01	Paper and Cardboard	500	30,000
20 01 02	Glass	100	1,000

EWC Code	Waste description (the actual description of the waste, not the text accompanying the EWC code)	Tonnes per annum (existing)	Tonnes per annum (proposed)
20 01 08	biodegradable kitchen and canteen waste (brown bin)		20,000
20 01 11			
20 01 21			
20 01 23			
20 01 33			
20 01 34			
20 01 35			
20 01 36			
20 01 37			
20 01 38			
20 01 39	Plastic		10,000
20 01 40	Metals	500	1,000
20 02 01			
20 02 02			
20 02 03			
20 03 01	MSW Municipal Waste (Black Bin)	0	30,000
20 03 01	Dry Mixed Recyclables	10,000	60,000
20 03 02			
20 03 03			
20 03 07	Bulky Waste	100	1,000
20 03 99			

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. №:		
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 0^{o}C. 3% O_2(Liquid or Gas), 6% O_2(Solid Fuel)
Maximum volume* of emission			m^3/hr 0^{o}C, 3 % O_2 (liquid or gas), 6 % O_2 (solid fuel)
Minimum efflux velocity			m.sec^{-1}
Temperature	^{o}C(max)	^{o}C(min)	^{o}C(avg)

* Volume flow limits for emissions to atmosphere shall be based on Normal conditions of temperature and pressure, (i.e. 0^{o}C,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

Emission Point Ref. №:	A2-1
Source of Emission:	Stack on Odour Control Unit
Location	At Odour Control Unit south-west side of Building A1
Grid Ref. (12 digit, 6E,6N):	310876E 240529N
Vent Details Diameter: Height above Ground(m):	1m 14
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 16.25m/s	$m.sec^{-1}$
(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

Emission Point Reference Number: A2-1

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
Odour Units	5903				Dust Filters/Caron Bed	460					

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

TABLE E.1(iv): EMISSIONS TO ATMOSPHERE - Minor 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 Not Applicable

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. Nº:	SW-1
Source of Emission:	Run-off from yards discharging via oil interceptor
Location of discharge :	Southern site boundary
Grid Ref. (12 digit, 6E,6N):	310912E 2404389N
Name of receiving waters and water body code:	River Tolka
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	21.6m^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)	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 pH, electrical conductivity and mineral oil. 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	25m^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)	During operational hours _____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 Not Applicable

Emission Point or Area:

Emission Point/Area Ref. Nº:	
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	0.5m^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)	Operational Hours _____min/hr _____hr/day _____day/yr

TABLE E.4(ii): EMISSIONS TO GROUND - Characteristics of the emission Not Applicable

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

Information on noise levels from individual plant items is provided in Chapter 12 of the EIS

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		
														Intermittent
														Intermittent
														Intermittent
														Intermittent
														Intermittent
														Intermittent
														Intermittent
														Intermittent

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: A2-1

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

[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

Emission Point Reference No. : SW-1

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
pH	Weekly	Safe	Grab	Standard Methods
Electrical Conductivity	Weekly	Safe	Grab	Standard Methods
Mineral Oil	Quarterly	Safe	Grab	Standard Methods

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

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

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method / technique
Dust	Bi-annually	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

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	Bi-annually	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

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

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*:_____AN-2**

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*:_____ANSL1**

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*:_____ANSL2**

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	15	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(1)	Odour			Pollutants (Tick and specify Group/Family Number)			
		Odourous Yes/No	Description	Threshold µg/m^3	EC EO (Surface Waters) Regulations 2009		EC EO Groundwater) Regulations 2010	
					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

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 1) Monitoring Point/ Grid Reference:

Parameter	Results (mg/l)				Sampling method[2] (grab, drift etc.)	**Normal Analytical Range[2]**	**Analysis method / technique**
	Feb 2012	April 2012	July 2012	October 2012			

(Table I.4(i) GROUNDWATER QUALITY Not Applicable

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

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

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:AN1	3107783E 240435N	53.4		56.5		45.2	
Location 2:AN2	310825E 240564N	49.6		51.5		44.2	
2. NOISE SENSITIVE LOCATIONS [3]							
Location 1:NSL1	310991E 240491N	57.4		60.3		45.8	
Location 2:NSL2	310839E 240668N	58.1		61.4		43.7	

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, (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, (iii) The name of the planning authority in whose functional area the activity is or will be carried on, and (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	B1 B2 B6 B7	✓ ✓ ✓ ✓
(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 (ii) in any other case, the gross capital cost of the activity to which the application relates,	B5	✓
(c)	specify the relevant class or classes in the First Schedule to the Act to which the industrial emissions directive activity relates,	*B3*	✓
(d)	In accordance with Section 87(1B)(a) of the EPA Acts of 1992 to 2013 in the case where an application for permission for the development comprising or for the purposes		

Regulation 9(2)		Section in Application	Checked by Applicant ✓
	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,		
(e)	In accordance with section 87(1B)(b) of the EPA Acts of 1992 to 2013 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,	*B6(b)*	✓
(f)	specify the raw and ancillary materials, substances, preparations, fuels and energy which will be produced by or utilised in the activity,	*G1*	✓
(g)	describe the plant, methods, processes, ancillary processes, abatement, recovery and treatment systems, and operating procedures for the activity,	*D*	✓
(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,	*I.8*	✓
(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,	*E*	✓
(j)	identify monitoring and sampling points and outline proposals for monitoring emissions and the environmental consequences of any such emissions,	*F*	✓

Regulation 9(2)		Section in Application	Checked by Applicant ✓
(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,	*I*	✓ ✓
(l)	describe in outline the main alternatives to the proposed technology, techniques and measures which were studied by the applicant,	*I.8*	✓
(m)	describe the condition of the site of the installation,	*I*	✓
(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,	*I.4*	✓
(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,	*I*	✓
(p)	describe the measures to be taken for minimising pollution over long distances or in the territory of other states,	*I*	✓
(q)	describe the measures to be taken under abnormal operating conditions, including start-up, shutdown, leaks, malfunctions, breakdowns and momentary stoppages,	*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,	*K*	✓
(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	*D.2.3*	✓

Regulation 9(2)		Section in Application	Checked by Applicant ✓
	manner which will prevent or minimise any impact on the environment,		
(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,	*D.2.1*	✓
(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,	*B10*	✓
(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,	*I.5*	✓
(w)	include a non-technical summary of information provided in relation to the matters specified in subparagraphs (c) to (x) of this paragraph	A	✓
(x)	include any other information required under Article 11 of the Industrial Emissions Directive.		

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,		
(b)	a copy of the text of the site notice erected or fixed on the land or structure in accordance with Regulation 6,		
(c)	a copy of the notice given to the planning authority under section 87(1)(a) of the EPA Acts of 1992 to 2013,		
(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 -		
	(i) the activity		
	(ii) the position of the site notice in accordance with Regulation 6,		
	(iii) the point or points from which emissions are made or are to be made, and		
	(iv) monitoring and sampling points, and		
(e)	a fee specified in accordance with section 99A of the EPA Acts of 1992 to 2013.		

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.	
	Hardcopies submitted.	
	CD version submitted.	