

Headquarters  
P.O. Box 3000  
Johnstown Castle Estate  
County Wexford  
Ireland

**Industrial Emissions Licence**

|                                  |                                                                    |
|----------------------------------|--------------------------------------------------------------------|
| <b>Licence Register Number:</b>  | <b>W0195-03</b>                                                    |
| <b>Company Register Number:</b>  | <b>72366</b>                                                       |
| <b>Licensee:</b>                 | <b>Padraig Thornton Waste Disposal Limited</b>                     |
| <b>Location of installation:</b> | <b>Ballynalurgan<br/>Kilmainhamwood<br/>Kells<br/>County Meath</b> |

## ENVIRONMENTAL PROTECTION AGENCY ACT 1992 AS AMENDED

### INDUSTRIAL EMISSIONS LICENCE

Decision of Agency, under Section 90(2) of the EPA Act 1992 as amended in respect of licence

Reference number in Register of licences: W0195-03

Further to notice dated 10/06/2026, the Agency in exercise of the powers conferred on it by the Environmental Protection Agency Act 1992 as amended, for the reasons hereinafter set out, hereby grants an Industrial Emissions review licence to Padraig Thornton Waste Disposal Limited, Unit S3B, Henry Road, Park West Business Park, Dublin 12, CRO number 72366,

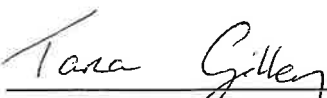
to carry on the following activity:

- 11.4 (b)(i) 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): biological treatment,

at Ballynalurgan, Kilmainhamwood, Kells, County Meath, subject to the conditions as set out.

GIVEN under the Seal of the Agency on this the 15th day of July 2026.

PRESENT when the seal of the Agency was affixed hereto:

  
Tara Gillen, Authorised Person



## *Introduction*

This introduction is not part of this licence and does not purport to be a legal interpretation of this licence.

Padraig Thornton Waste Disposal Limited operates a waste installation for the acceptance, storage, and aerobic treatment of non-hazardous biodegradable wastes to produce compost for use as a soil conditioner in commercial agriculture, landscaping, as organic fertiliser or as a custom growing medium. This installation is currently authorised to accept and treat up to 40,000 tonnes per annum of non-hazardous biodegradable wastes.

The revision of the licence is to provide for a number of changes on-site:

- an increase in the annual waste acceptance limit from 40,000 tonnes to 50,000 tonnes per annum, and
- up-grade of the odour abatement system including the decommissioning of existing Biofilter No.2 and retrofitting of Biofilter No.1.

For the purpose of the EU Industrial Emissions Directive (2010/75/EU), this installation falls within the scope of the following Annex I category:

5.3 (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, and excluding activities covered by Directive 91/271/EEC:

(i) biological treatment

This licence sets out in detail the conditions under which Padraig Thornton Waste Disposal Limited will operate and manage this installation.

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## Glossary of Terms

All terms in this licence should be interpreted in accordance with the definitions in the Environmental Protection Agency Act 1992 as amended, unless otherwise defined in the glossary.

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Accident</b>                      | For the purpose of this licence an accident means an unplanned event that may result in pollution.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Activity</b>                      | The meaning is taken as that set out in <i>Part 1 section 3(1) of the EPA Act 1992</i> , as amended.                                                                                                                                                                                                                                                                                                                                                        |
| <b>Adequate lighting</b>             | 20 lux measured at ground level.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AER</b>                           | Annual Environmental Report.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Aerosol</b>                       | A suspension of solid or liquid particles in a gaseous medium.                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Animal By-Product Regulations</b> | Regulation (EC) No.1069/2009 of the European Parliament and of the Council of 21 October 2009 and Commission Regulation (EU) No. 142/2011 of 25 February 2011.                                                                                                                                                                                                                                                                                              |
| <b>Annually</b>                      | All or part of a period of 12 consecutive months.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Application</b>                   | The application by the licensee for this licence.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Appropriate facility</b>          | A waste management facility or installation duly authorised under relevant law and technically suitable.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Approval</b>                      | Approval in writing or electronically.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Attachment</b>                    | Any reference to attachments in this licence refers to attachments submitted as part of this licence application.                                                                                                                                                                                                                                                                                                                                           |
| <b>Basic characterisation</b>        | A thorough determination, according to standardised analysis and behaviour testing methods, of the short and long-term leaching behaviour and/or characteristic properties of the waste.                                                                                                                                                                                                                                                                    |
| <b>BAT</b>                           | Best Available Techniques (BAT), as described in the Commission Implementing Decision (CID) 2018/1147 of 10 August 2018 establishing best available techniques (BAT) conclusions for waste treatment, under Directive 2010/75/EU of the European Parliament and of the Council. Reference to BAT numbers in the conditions of this licence are references to the BAT Conclusions according to how they are numbered in the aforementioned CID.              |
| <b>BAT conclusions</b>               | A document containing the parts of a BAT reference document laying down the conclusions on best available techniques, their description, information to assess their applicability, the emission levels associated with the best available techniques, associated monitoring, associated consumption levels and, where appropriate, relevant site remediation measures.                                                                                     |
| <b>BAT reference document</b>        | A document drawn up by the Commission of the European Union in accordance with Article 13 of the Industrial Emissions Directive, resulting from the exchange of information in accordance with that Article of that Directive and describing, in particular, applied techniques, present emissions and consumption levels, techniques considered for the determination of best available techniques as well as BAT conclusions and any emerging techniques. |
| <b>Biannually</b>                    | At approximately six-monthly intervals.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Biennially</b>                    | Once every two years.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Bioaerosol</b>                    | An aerosol of biological particles.                                                                                                                                                                                                                                                                                                                                                                                                                         |

|                                            |                                                                                                                                                                                                                                                                                             |
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| <b>Biodegradable municipal waste (BMW)</b> | The biodegradable component of municipal waste, typically composed of food and garden waste, wood, paper, cardboard and textiles.                                                                                                                                                           |
| <b>Biodegradable waste</b>                 | Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food, garden waste, sewage sludge, paper and paperboard, including biowaste.                                                                                                                            |
| <b>Biodrying</b>                           | A biological treatment technique with the primary objective of reducing the moisture content of waste.                                                                                                                                                                                      |
| <b>Biological treatment</b>                | Biological treatment involves composting, anaerobic digestion, mechanical biological treatment or any other process for stabilising and sanitising biodegradable waste, including pre-treatment processes.                                                                                  |
| <b>Bio-stabilised residual waste</b>       | Residual biodegradable municipal waste that has been treated to achieve an EPA approved biodegradability stability standard (as defined in this licence) prior to landfilling or alternative use as approved by the Agency.                                                                 |
| <b>Bio-waste</b>                           | Biodegradable garden and park waste, food and kitchen waste from households, restaurants, caterers and retail premises and comparable waste from food processing plants.                                                                                                                    |
| <b>BOD</b>                                 | 5-day Biochemical Oxygen Demand (without nitrification suppression).                                                                                                                                                                                                                        |
| <b>CEN</b>                                 | Comité Européen De Normalisation – European Committee for Standardisation.                                                                                                                                                                                                                  |
| <b>CFU</b>                                 | Colony Forming Units                                                                                                                                                                                                                                                                        |
| <b>Channelled emissions</b>                | Emissions of pollutants into the environment through any kind of duct, pipe, stack, etc. This also includes emissions from open-top biofilters.                                                                                                                                             |
| <b>CID 2018/1147</b>                       | Commission Implementing Decision (CID) 2018/1147 of 10 August 2018 establishing best available techniques (BAT) conclusions for waste treatment, under Directive 2010/75/EU of the European Parliament and of the Council.                                                                  |
| <b>COD</b>                                 | Chemical Oxygen Demand.                                                                                                                                                                                                                                                                     |
| <b>Commercial waste</b>                    | As defined in section 5(1) of the Waste Management Acts 1996 as amended.                                                                                                                                                                                                                    |
| <b>Compliance testing</b>                  | This constitutes periodical testing to determine whether a waste complies with waste acceptance criteria. The tests focus on key variables and behaviour identified by basic characterisation.                                                                                              |
| <b>Compliance point</b>                    | The point (location, depth) at which a compliance value should be met. Generally, it is represented by a borehole or monitoring well from which representative groundwater samples can be obtained.                                                                                         |
| <b>Compliance value</b>                    | The concentration of a substance and associated compliance regime that, when not exceeded at the compliance point, will prevent pollution and/or achieve water quality objectives at the receptor.                                                                                          |
| <b>Compost</b>                             | Stable, sanitised and humus like material rich in organic matter and free from offensive odours resulting from composting, of separately collected biowaste which complies with the compost quality standards outlined in <i>Schedule D: Standards for Compost Quality</i> of this licence. |
| <b>Composting</b>                          | The autothermic and thermophilic biological decomposition of separately collected biowaste in the presence of oxygen and under controlled conditions by the action of micro-organisms and macro-organisms in order to produce compost.                                                      |
| <b>Composting facility</b>                 | The installation at which biowaste and other biodegradable waste are composted and municipal solid waste, including organic fines, is subjected to aerobic biological treatment.                                                                                                            |

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| <b>Containment boom</b>                            | A boom that can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses.                                                                                                                                                    |
| <b>Continuous Measurement</b>                      | Measurement using an 'automated measuring system' permanently installed on site.                                                                                                                                                                                                       |
| <b>CRO Number</b>                                  | Company Register Number.                                                                                                                                                                                                                                                               |
| <b>Daily</b>                                       | During all days of plant operation and, in the case of emissions, when emissions are taking place; with at least one measurement on any one day.                                                                                                                                       |
| <b>Day</b>                                         | Any 24-hour period.                                                                                                                                                                                                                                                                    |
| <b>Daytime</b>                                     | 07:00 hrs to 19:00 hrs.                                                                                                                                                                                                                                                                |
| <b>dB(A)</b>                                       | Decibels (A weighted).                                                                                                                                                                                                                                                                 |
| <b>Diffuse emissions</b>                           | Non-channelled emissions (e.g. of dust, organic compounds, odour) which can result from 'area' sources (e.g. tanks) or 'point' sources (e.g. pipe flanges). This also includes emissions from open-air windrow composting.                                                             |
| <b>DO</b>                                          | Dissolved oxygen.                                                                                                                                                                                                                                                                      |
| <b>Documentation</b>                               | Any report, record, results, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.                                                                                                                                |
| <b>Drawing</b>                                     | Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.                                                                                                                               |
| <b>Emission limits</b>                             | Those limits, including concentration limits and deposition rates, established in <i>Schedule B: Emission Limits and Monitoring</i> of this licence.                                                                                                                                   |
| <b>EMP</b>                                         | Environmental Management Programme.                                                                                                                                                                                                                                                    |
| <b>EMS</b>                                         | Environmental Management System. The aspect of the organisation's overall management structure that addresses immediate and long-term impacts of its products, services and processes on the environment.                                                                              |
| <b>End-of-waste</b>                                | As specified in Article 28 of the European Community (Waste Directive) Regulations 2011, SI 126/2011 as amended.                                                                                                                                                                       |
| <b>Environmental damage</b>                        | As defined in Directive 2004/35/EC of the European Parliament and of the Council of 21 April 2004 on environmental liability with regard to the prevention and remedying of environmental damage [2004].                                                                               |
| <b>EPA</b>                                         | Environmental Protection Agency.                                                                                                                                                                                                                                                       |
| <b>EPA Act 1992 as amended</b>                     | Environmental Protection Agency Act 1992 as amended.                                                                                                                                                                                                                                   |
| <b>EPR</b>                                         | Environmental Performance Reporting.                                                                                                                                                                                                                                                   |
| <b>EU Fertilising Products Regulation (EU FPR)</b> | Regulation (EU) 2019/1009 of the European Parliament and of the Council of 5 June 2019 laying down rules on the making available on the market of EU fertilising products and amending Regulations (EC) No 1069/2009 and (EC) No 1107/2009 and repealing Regulation (EC) No 2003/2003. |
| <b>Evening time</b>                                | 19:00 hrs to 23:00 hrs.                                                                                                                                                                                                                                                                |
| <b>Facility</b>                                    | Any site or premises used for the purpose of the recovery or disposal of waste.                                                                                                                                                                                                        |
| <b>Fertilising product</b>                         | A substance, mixture, micro-organism or any other material, applied or intended to be applied on plants or their rhizosphere or on mushrooms or their mycosphere, or intended to constitute the rhizosphere or mycosphere, either on its own or mixed with another                     |

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|                                       | material, for the purpose of providing the plants or mushrooms with nutrient or improving their nutrition efficiency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Food Waste</b>                     | Food, as defined in Article 2 of Regulation (EC) No 178/2002 of the European Parliament and of the Council of 28 January 2002 laying down the general principles and requirements of food law, establishing Food Safety Authority and laying down procedures in matters of food safety, that has become waste.                                                                                                                                                                                                                                                                                                                  |
| <b>Forced aeration</b>                | The supply of air to a compost pile, by pumping (positive pressure) or by sucking air through the composting material (negative pressure).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Fortnightly</b>                    | A minimum of 24-times per year, at approximately two-week intervals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Fugitive emissions</b>             | Diffuse emissions from 'point' sources.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Garden waste</b>                   | Waste vegetative or organic material, including grass cuttings, waste material from pruning, leaves, plants, flowers and other similar small, or light, organic matter, produced from the care and maintenance of landscaped areas, gardens and parks.                                                                                                                                                                                                                                                                                                                                                                          |
| <b>GC/MS</b>                          | Gas chromatography/mass spectroscopy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Groundwater</b>                    | Has the meaning assigned to it by Regulation 3 of the European Communities Environmental Objectives (Groundwater) Regulations 2010, SI 9/2010 as amended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ha</b>                             | Hectare.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Hazardous substances</b>           | Substances or mixtures as defined in Article 3 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Hazardous waste</b>                | Hazardous waste as defined in point 2 of Article 3 of Directive 2008/98/EC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Heavy metals</b>                   | This term is to be interpreted as set out in ' <i>Parameters of Water Quality, Interpretation and Standards</i> ' published by the Agency in 2001. ISBN 1- 84095-015-3.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Hours of operation</b>             | The hours during which the installation is authorised to be operational.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Hours of waste acceptance</b>      | The hours during which the installation is authorised to accept waste.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ICP</b>                            | Inductively coupled plasma spectroscopy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>IE</b>                             | Industrial Emissions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Incident</b>                       | The following constitutes an incident for the purposes of this licence:<br>(a) an emergency,<br>(b) any emission which does not comply with the requirements of this licence,<br>(c) any malfunction or breakdown of key environmental abatement, control or monitoring equipment,<br>(d) any exceedance of the daily duty capacity of the waste handling equipment,<br>(e) any trigger level as approved by the Agency, which is attained or exceeded,<br>(f) any compliance value specified in this licence, which is attained or exceeded,<br>(g) any indication that environmental pollution has, or may have, taken place. |
| <b>Industrial Emissions Directive</b> | Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (Recast).                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Industrial waste</b>               | As defined in section 5(1) of the Waste Management Act 1996 as amended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Inert waste</b>                    | Waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|                                        | react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater. |
| <b>Installation</b>                    | A stationary technical unit or plant where the activity concerned referred to in the First Schedule of EPA Act 1992 as amended is or will be carried on, and must be deemed to include any directly associated activity, which has a technical connection with the activity and is carried out on the site of the activity.                                            |
| <b>Installation Manager</b>            | The licensee or an authorised representative of the licensee with the appropriate seniority and authority to ensure compliance with the licence.                                                                                                                                                                                                                       |
| <b>K</b>                               | Kelvin.                                                                                                                                                                                                                                                                                                                                                                |
| <b>kPa</b>                             | Kilopascals.                                                                                                                                                                                                                                                                                                                                                           |
| <b><math>L_{Aeq,T}</math></b>          | This is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period (T).                                                                                                                                                                                        |
| <b>Landfill Directive</b>              | Directive 1999/31/EC on the landfill of waste as amended.                                                                                                                                                                                                                                                                                                              |
| <b><math>L_{Ar,T}</math></b>           | The Rated Noise Level, equal to the $L_{Aeq}$ during a specified time interval (T), plus specified adjustments for tonal character and/or impulsiveness of the sound.                                                                                                                                                                                                  |
| <b>Leachate</b>                        | Any liquid percolating through and emitted from the waste that was accepted or is being processed at the installation.                                                                                                                                                                                                                                                 |
| <b>Licensee</b>                        | Padraig Thornton Waste Disposal Limited, Unit S3B Henry Road, Park West Business Park, Dublin 12, CRO Number: 72366.                                                                                                                                                                                                                                                   |
| <b>Liquid biodegradable waste</b>      | Waste of biological origin with a relatively high water content (e.g. fat separator contents, organic sludges, catering waste).                                                                                                                                                                                                                                        |
| <b>Liquid waste</b>                    | Any waste in liquid form and containing less than 2 % dry matter.                                                                                                                                                                                                                                                                                                      |
| <b>List of Wastes (LoW)</b>            | A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2014/955/EU as amended, by any subsequent amendment published in the Official Journal of the European Community.                                                                                                                                  |
| <b>Local Authority</b>                 | Meath County Council.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Maintain</b>                        | Keep in a fit state, including regular inspection, servicing, calibration and repair, to perform its function adequately.                                                                                                                                                                                                                                              |
| <b>Mass flow</b>                       | The mass of a given substance or parameter which is emitted over a defined period of time.                                                                                                                                                                                                                                                                             |
| <b>Mass flow limit</b>                 | An emission limit value expressed as the maximum mass of a substance that can be emitted per unit time.                                                                                                                                                                                                                                                                |
| <b>Mass flow threshold</b>             | A mass flow above which a concentration limit applies.                                                                                                                                                                                                                                                                                                                 |
| <b>Maturity</b>                        | Characteristic of a composted material that makes the material fit for purpose and ready for use in a specific application.                                                                                                                                                                                                                                            |
| <b>Mechanical Biological Treatment</b> | Treatment of mixed solid waste combining mechanical treatment with biological treatment such as aerobic or anaerobic treatment.                                                                                                                                                                                                                                        |
| <b>Mobile plant</b>                    | Self-propelled machinery used for the emplacement of wastes or for the construction of specified engineering works.                                                                                                                                                                                                                                                    |

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| <b>Monthly</b>                        | A minimum of 12-times per year, at intervals of approximately one month.                                                                                                                                                                                                                                                                                                                                                |
| <b>Municipal waste</b>                | As defined in section 5(1) of the Waste Management Act 1996 as amended.                                                                                                                                                                                                                                                                                                                                                 |
| <b>Nighttime</b>                      | 23:00 hrs to 07:00 hrs.                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Noise-sensitive location (NSL)</b> | Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other installation or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.                                                                                                                                                                  |
| <b>NMP</b>                            | Nutrient Management Plan.                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Odour concentration</b>            | Number of European Odour Units (OuE) in one cubic metre at standard conditions measured by dynamic olfactometry according to EN 13725.                                                                                                                                                                                                                                                                                  |
| <b>Odour control system</b>           | Includes the biofilter, ducting, fans for inducing negative pressure in buildings and vessels, the main building, the fibre store building and outdoor vessels used for the storage of incoming waste.                                                                                                                                                                                                                  |
| <b>Odour-sensitive location</b>       | Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other premises or area of high amenity which for its proper enjoyment requires the absence of odour at nuisance levels.                                                                                                                                                                      |
| <b>Oil separator</b>                  | Device installed according to the International Standard I.S. EN 858-2:2003 (Separator system for light liquids, (e.g. oil and petrol) – Part 2: Selection of normal size, installation, operation and maintenance).                                                                                                                                                                                                    |
| <b>On-site verification of waste</b>  | Rapid check methods to confirm that a waste is the same as that which has been subjected to compliance testing and that which is described in any accompanying documents. It may merely consist of a visual inspection of a load of waste before and after unloading at the installation.                                                                                                                               |
| <b>Organic fines</b>                  | The undersize fraction obtained from the mechanical treatment of waste, characterised by a high organic content.                                                                                                                                                                                                                                                                                                        |
| <b>Organic soil improver</b>          | A soil improver that meets the requirements of an 'organic soil improver' in EU Fertilising Products Regulation.                                                                                                                                                                                                                                                                                                        |
| <b>Output</b>                         | The treated waste exiting the waste treatment plant.                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Periodic measurement</b>           | Measurement at specified time intervals using manual or automated methods                                                                                                                                                                                                                                                                                                                                               |
| <b>Potential emissions</b>            | Emissions which take place only under abnormal operating conditions. Examples include emissions from overpressure valves, bursting discs, and emergency generators.                                                                                                                                                                                                                                                     |
| <b>Quarterly</b>                      | At approximately three-monthly intervals.                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Recovery</b>                       | Recovery as defined in Article 3(15) of Directive 2008/98/EC.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Recyclable materials</b>           | Waste types that can suitably undergo a recycling operation.                                                                                                                                                                                                                                                                                                                                                            |
| <b>Relevant Hazardous Substances</b>  | Those substances or mixtures defined within Article 3 of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) which, as a result of their hazardousness, mobility, persistence and biodegradability (as well as other characteristics), are capable of contaminating soil or groundwater and are used, produced and/or released by the installation. |
| <b>Residual waste</b>                 | The fraction of collected waste remaining after a treatment or diversion step, which generally requires further treatment or disposal, including mixed municipal waste.                                                                                                                                                                                                                                                 |
| <b>SAC</b>                            | Special Area of Conservation designated under the Habitats Directive, Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora.                                                                                                                                                                                                                                   |

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Sample(s)</b>                           | Unless the context of this licence indicates to the contrary, the term samples must include measurements taken by electronic instruments.                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Sanitary effluent</b>                   | Waste water from installation toilet, washroom and canteen facilities.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Sensitive Receptor</b>                  | Area which needs special protection, such as:<br>- residential areas:<br>- areas where human activities are carried out (e.g., neighbouring workplaces, schools, daycare centres, recreational areas, hospitals or nursing homes). <<WT CID>>                                                                                                                                                                                                                                                                |
| <b>Separate collection</b>                 | The collection where a waste stream is kept separately by type and nature to facilitate a specific treatment.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Soil</b>                                | The top layer of the Earth's crust situated between the bedrock and the surface. The soil is composed of mineral particles, organic matter, water, air and living organisms.                                                                                                                                                                                                                                                                                                                                 |
| <b>Soil improver</b>                       | A soil improver must be an EU fertilising product the function of which is to maintain, improve or protect the physical or chemical properties, the structure or the biological activity of the soil to which it is added.                                                                                                                                                                                                                                                                                   |
| <b>SOP</b>                                 | Standard Operating Procedure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source segregated waste</b>             | Waste which is separated at source; meaning that the waste is sorted at the point of generation into a recyclable fraction(s) for separate collection (e.g. paper, metal, glass, plastic, bulk dry recyclables, biodegradables, etc.) and a residual fraction. The expression 'separate at source' must be construed accordingly.                                                                                                                                                                            |
| <b>SPA</b>                                 | Special Protection Area designated under Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds (Birds Directive).                                                                                                                                                                                                                                                                                                                        |
| <b>Specified emissions</b>                 | Those emissions listed in <i>Schedule B: Emission Limits and Monitoring</i> of this licence.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Standard method</b>                     | A National, European or internationally recognised procedure (e.g. I.S. EN, ISO, CEN, BS or equivalent); or an in-house documented procedure based on the above references; a procedure as detailed in the current edition of 'Standard Methods for the Examination of Water and Wastewater' (prepared and published jointly by A.P.H.A., A.W.W.A. & W.E.F.), American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA; or an alternative method as approved by the Agency. |
| <b>Storage</b>                             | Includes holding of waste.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storm water</b>                         | Rainwater run-off from roof and non-process areas.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Temporary storage</b>                   | In relation to waste is a period of less than six months as defined in the Waste Management Act 1996 as amended.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>The Agency</b>                          | Environmental Protection Agency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>TOC</b>                                 | Total organic carbon.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Trade effluent</b>                      | Trade effluent has the meaning given in the Water Services Act 2007.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Transfrontier Shipment Notification</b> | Transfrontier Shipment Notification and movement/tracking form numbers are required for all exports of waste from, into or through the State under the Waste Management (Shipments of Waste) Regulations, SI 419/2007 as amended.                                                                                                                                                                                                                                                                            |
| <b>Treatment/Pre-treatment</b>             | In relation to waste, any manual, thermal, physical, chemical or biological processes that change the characteristics of waste in order to reduce its volume or hazardous nature or facilitate its handling, disposal or recovery, including baling and wrapping of waste.                                                                                                                                                                                                                                   |
| <b>Trigger level</b>                       | A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.                                                                                                                                                                                                                                                                                                                                                                                              |

|                                 |                                                                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Uisce Éireann</b>            | Uisce Éireann, Colvill House, 24/26 Talbot Street, Dublin 1.                                                                                       |
| <b>Waste</b>                    | Any substance or object which the holder discards or intends or is required to discard.                                                            |
| <b>Waste holder</b>             | Waste holder as defined in Article 3(6) of Directive 2008/98/EC of the European Parliament and of the Council.                                     |
| <b>Waste input</b>              | The incoming waste to be treated in the waste treatment plant.                                                                                     |
| <b>Water Services Authority</b> | Meath County Council.                                                                                                                              |
| <b>Weekly</b>                   | During all weeks of plant operation and, in the case of emissions, when emissions are taking place; with at least one measurement in any one week. |
| <b>WWTP</b>                     | Waste water treatment plant.                                                                                                                       |

## Decision and Reasons for the Decision

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this licence, any emissions from the activity will comply with and will not contravene any of the requirements of section 83(5) of the Environmental Protection Agency Act 1992 as amended.

The Agency has applied the Commission Implementing Decision of 10/08/2018 establishing Best Available Techniques (BAT) Conclusions, under Directive 2010/75/EU of the European Parliament and of the Council, for waste treatment as a reference when setting licence conditions.

The Agency has accordingly decided to grant a licence to Padraig Thornton Waste Disposal Limited to carry on the activity listed in *Part I, Schedule of Activities Licensed*, subject to the conditions set out in *Part III Conditions*; such licence to take effect in lieu of Licence Register Number: W0195-02.

No objection having been received to the proposed determination, this licence is granted in accordance with the terms of the proposed determination.

In reaching this decision the Agency has considered the existing licence, Register Number: W0195-02, the application, Register Number: W0195-03 and the supporting documentation received from the applicant, the submissions received, the Inspector's Report dated 02 June 2026 and has carried out an Environmental Impact Assessment (EIA) Screening and an Appropriate Assessment Screening of the likely significant effects of the activity on European Sites. The Agency has performed its functions in a manner consistent with section 15 of the Climate Action and Low Carbon Development Act 2015 as amended.

EIA, as respects the matters that come within the functions of the Agency, was not required for the activity to which this decision relates due to the following reasons:

The changes to the activity are below the specified threshold of project type 13 in Part 2 of Schedule 5 of the Planning and Development Regulations 2001 as amended:

### *13. Changes, extensions, development and testing*

*(a) Any change or extension of development already authorised, executed or in the process of being executed (not being a change or extension referred to in Part 1) which would:*

*(i) result in the development being of a class listed in Part 1 or paragraphs 1 to 12 of Part 2 of this Schedule, and*

*(ii) result in an increase in size greater than –*

*- 25 per cent, or*

*- an amount equal to 50 per cent of the appropriate threshold, whichever is the greater.*

Having considered the information provided by the applicant, which satisfies the requirements of Annex II A of the EIA Directive, and the mitigation measures proposed by the applicant, it has been determined that the changes to the activity are not likely to give rise to significant effects on the environment by virtue of its nature, size or location. This determination has been made having regard to the following:

- The licence review application relates to an existing installation, which is located in a rural area approximately 2.4 km from Kilmainhamwood, County Meath. The EPA carried out an Environmental Impact Assessment of the activity as part of Licence Reg. W0195-02.
- The scale of the changes to the activity; the composting installation is currently authorised to accept 40,000 tonnes of biodegradable waste per year and the licensee has requested to increase the total waste intake by 10,000 tonnes to 50,000 tonnes/year.
- The installation accepts a range of biodegradable wastes including segregated brown bin biowaste, sludges from wastewater treatment plants, green/gardening waste, grease trap waste and catering waste. No hazardous waste is accepted. All waste storage and processing is carried out indoors.
- The composting building comprises of a waste reception area, 29 composting bays, 2 bulking tunnels and 2 pasteurisation tunnels. The building is kept under negative air pressure as an odour control measure. Air is

extracted from the composting building and treated by an acid scrubber and biofilters (odour abatement) before discharge to air via a vertical stack. Based on odour modelling carried out by the licensee, odour emissions from the installation will not have a significant effect on the nearest sensitive receptors in the surrounding area.

- It is considered that noise emissions due to the changes to the activity will not have a significant effect on the environment at noise sensitive locations. This is having regard to the nature of the activity, the changes requested and the location of the installation.
- There are no process emissions to surface water. Process effluent generated is reused within the installation to maintain optimum moisture content for the composting process. In the event of excess leachate production, the surplus is stored in a holding tank and removed by tanker to an authorised facility.
- There is no process effluent discharge to sewer. Domestic effluent is directed to an existing onsite waste water treatment system with associated percolation area.
- Surface water run-off from external non-process yard areas passes through a silt trap and fuel/oil interceptor prior to being discharged to a drainage ditch along the eastern boundary of the installation. This then flows in a southerly direction for approximately 1km before joining the River Dee.
- The changes to the activity will not generate significant dust emissions.
- The cumulative effect with other existing and/or approved projects will not be significant.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the activity, individually or in combination with other plans or projects is likely to have a significant effect on any European Site. In this context, particular attention was paid to the European Site at Killyconny Bog (Cloghbally) SAC (000006).

The activity is not directly connected with or necessary to the management of any European Site and the Agency considered, for the reasons set out below, that it can be excluded, on the basis of objective information, that the activity, individually or in combination with other plans or projects, will have a significant effect on any European Site and accordingly determined that an Appropriate Assessment of the activity was not required.

This determination has been made in light of the following reasons:

- The installation is not located in a European Site.
- European Sites and their qualifying interests are considered to be outside of the zone of influence of air, dust and noise emissions arising at the installation with the closest European Site being approximately 14 kms away (Killyconny Bog (Cloghbally) SAC). Emissions to air consist of emissions from the biofilters.
- There are no direct process emissions to surface water or sewer from the installation. Process water is reused within the facility to provide optimum moisture content for the composting processes.
- Surface water run-off from external non-process yard areas and storm water run-off from roofs is collected and discharged to a drainage ditch along the eastern boundary of the site which flows in a southerly direction for approximately 1km to the River Dee. Taking into account the nature of these discharges and the distance from European sites, it is considered that these discharges will not have a significant effect on European Sites and their qualifying interests.
- There are no direct process emissions to groundwater from the installation.
- Given the nature and scale of emissions, it is considered that the activity in combination with other plans or projects will not have a significant effect on European Sites and their qualifying interests.

## ***Part I Schedule of Activities Licensed***

In pursuance of the powers conferred on it by the Environmental Protection Agency Act 1992 as amended, the Agency hereby grants this revised Industrial Emissions licence to:

Padraig Thornton Waste Disposal Limited, Unit S3B, Henry Road, Park West Business Park, Dublin 12, CRO Number: 72366

under Section 90(2) of the said Act to carry on the following activity:

- |             |                                                                                                                                                                                                                                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11.4 (b)(i) | 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): biological treatment, |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

at Ballynalurgan, Kilmainhamwood, Kells, County Meath, subject to the following 12 Conditions, with the reasons therefor and associated schedules attached thereto.

## ***Part II Schedule of Activities Refused***

None of the proposed activities as set out in this licence application have been refused.

## Part III Conditions

### Condition 1. Scope

- 1.1 Industrial Emissions Directive activities at this installation must be restricted to those listed and described in *Part I Schedule of Activities Licensed* and must be as set out in the licence application or as modified under Condition 1.4 of this licence and subject to the conditions of this licence.
- 1.2 The licensee must carry on the licensed activity in accordance with the limitations set out in *Schedule A: Limitations* of this licence.
- 1.3 For the purposes of this licence, the installation authorised by this licence is the area of land outlined in red on Drawing No. Figure 2B of the application for licence Reg No. W0195-02. Any reference in this licence to 'installation' means the area thus outlined in red. The licensed activity must be carried on only within the area outlined.
- 1.4 Alterations and reconstructions
  - 1.4.1 No alteration to, or reconstruction in respect of, the activity, or any part thereof, that would, or is likely to, result in a material change or increase in:
    - (a) the nature or quantity of any emission,
    - (b) the abatement, treatment or recovery systems,
    - (c) the range of processes to be carried out, or
    - (d) the fuels, raw materials, intermediates, products or wastes generated,will be carried out or commenced without prior notice to, and without the approval of, the Agency.
  - 1.4.2 No alteration to, or reconstruction in respect of, the activity, or any part thereof, that would, or is likely to, result in any changes in:
    - (a) site management, or
    - (b) infrastructure or control with adverse environmental consequences,will be carried out or commenced without prior notice to, and without the approval of, the Agency.

- 1.5 The installation must be controlled, operated, and maintained, and emissions must take place, as set out in this licence.
- 1.6 All plans and programmes required to be carried out under the terms of this licence become part of this licence.
- 1.7 This licence is for the purpose of licensing under the EPA Act 1992 as amended only and nothing in this licence must be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.8 This licence has effect in lieu of the licence granted on 26 February 2014 (Register No W0195-02).
- 1.9 Waste acceptance hours and hours of operation
- 1.9.1 With the exception of emergencies, or as approved by the Agency, waste must only be accepted at, or dispatched from, the installation between the hours of 08:00 and 18:00 Monday to Friday inclusive and 08:00 and 13:00 on Saturdays.
- 1.9.2 Except for the biological treatment and associated processes which may operate continuously, or as otherwise approved by the Agency, the installation must be operated only during the hours of 08:00 and 18:00 Monday to Friday inclusive and 08:00 to 13:00 on Saturdays.
- 1.9.3 The installation must not accept or dispatch waste on Sundays or Bank Holidays without the approval of the Agency.

**Reason:*****To clarify the scope of this licence.***

## Condition 2. Management of the Installation

### 2.1 Installation roles and responsibilities

- 2.1.1 The licensee must employ a suitably qualified and experienced installation manager who must be designated as the person in charge.
- 2.1.2 The installation manager or a nominated, suitably qualified and experienced deputy must be present on the installation at all times during its operation or as otherwise required by the Agency.
- 2.1.3 The licensee must ensure that personnel performing specifically assigned tasks must be qualified on the basis of appropriate education, training and experience as required and must be aware of the requirements of this licence.
- 2.1.4 The licensee must issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

### 2.2 Environmental Management System (EMS)

- 2.2.1 The licensee must maintain and implement an Environmental Management System (EMS).
- 2.2.2 The EMS must be reviewed by senior management for suitability, adequacy and effectiveness and updated on an annual basis.
- 2.2.3 The EMS must include the following elements, at a minimum:
  - (a) a statement of the commitment, leadership and accountability of management, including senior management, for the implementation of an effective EMS,
  - (b) an environmental policy, defined by management, that includes a commitment to continuous improvement of the environmental performance of the installation,
  - (c) management and reporting structure and responsibility for environmental aspects, including for the planning and provision of financial and human resources to manage and implement the EMS,
  - (d) an analysis of the organisation's regulatory and environmental obligations, including the potential risks to the environment from the activity,
  - (e) the procedures required by this licence, including procedures for:
    - (i) ensuring compliance with environmental legislation,
    - (ii) ensuring employee awareness of and involvement in complying with environmental legislation, and
    - (iii) checking performance and developing performance indicators by sectoral benchmarking on a regular basis, including for energy efficiency,
  - (f) the schedules, plans, programmes, procedures, records and other such documentation as listed in Condition 2 of this licence,

- (g) the maintenance of an inventory of waste water and waste gas streams that incorporates all of the features listed in BAT 3 of CID 2018/1147,
- (h) waste stream management using all the techniques listed in BAT 2 of CID 2018/1147,
- (i) an accident management plan using all the techniques listed in BAT 21 of 2018/1147,
- (j) an odour management plan that incorporates all the features listed in BAT 12 of CID 2018/1147,
- (k) a noise management plan that incorporates all the features listed in BAT 17 of CID 2018/1147,
- (l) the maintenance of a residues management plan in accordance with BAT 24 of CID 2018/1147,
- (m) a comprehensive climate change adaptation plan which addresses risks posed by climate change and address, at a minimum, the following:
  - (i) how the storm water infrastructure has or could be affected by severe weather, and
  - (ii) the scale of the impact of severe weather on waste treatment and storage activities.
- (n) any other items specified in this licence or by the Agency.

#### 2.2.4 Schedule of Environmental Objectives and Targets

2.2.4.1 The licensee must maintain and implement a Schedule of Environmental Objectives and Targets. The Schedule must provide for a review of all operations and processes, as referred to in the conditions of this licence, including an evaluation of practicable options for, at a minimum:

- (a) energy and resource efficiency,
- (b) the reduction in water consumption,
- (c) the reduction in waste water generation,
- (d) the use of cleaner technology and cleaner production,
- (e) odour and noise management,
- (f) dust emissions management,
- (g) accident management,
- (h) the prevention, reduction, and minimisation of waste, including waste reduction targets,
- (i) the impacts from eventual decommissioning of the installation, and
- (j) a monitoring and measurement programme.

- 2.2.4.2 The Schedule must include time frames for the achievement of set targets and must address a five-year period at a minimum.
- 2.2.4.3 The Schedule must be reviewed annually and updated as necessary.
- 2.2.5 Environmental Management Programme (EMP)
  - 2.2.5.1 The licensee must maintain and implement an Environmental Management Programme (EMP), for achieving the Schedule of Environmental Objectives and Targets prepared under Condition 2.2.4 of this licence.
  - 2.2.5.2 The EMP must include at a minimum:
    - (a) designation of responsibility for targets,
    - (b) the means by which they will be achieved, and
    - (c) the time frames for achieving the targets.
  - 2.2.5.3 The EMP must be reviewed annually and updated as necessary.
  - 2.2.5.4 A report on the programme, including the success in meeting agreed targets and an evaluation of non-conformities and associated corrective actions and the potential for further non-conformities to occur must be prepared.
  - 2.2.5.5 Such reports must be retained on-site for a period of not less than seven years and must be available for inspection by authorised persons of the Agency.
- 2.2.6 The licensee must maintain and implement an environmental management documentation system.
- 2.2.7 Corrective and preventive action
  - 2.2.7.1 The licensee must maintain and implement procedures to ensure that corrective and preventative action is taken should the specified requirements of this licence not be fulfilled.
  - 2.2.7.2 The responsibility and authority for persons initiating further investigation and corrective and preventative action in the event of a reported breach, with the conditions of this licence, must be defined.
  - 2.2.7.3 Where a breach of one or more of the conditions of this licence occurs, the licensee must without delay take measures to:
    - (a) restore compliance with the conditions of this licence in the shortest possible time, and
    - (b) initiate any feasible preventative actions to prevent recurrence of the breach.
  - 2.2.7.4 All corrective and preventative actions must be documented as part of the environmental management documentation system.
- 2.2.8 Internal audits
  - 2.2.8.1 The licensee must maintain and implement a programme for independent internal audits of the EMS.
  - 2.2.8.2 Such audits must be carried out at least once every three years.

- 2.2.8.3 The audit programme must determine whether or not the EMS is being implemented and maintained properly, and in accordance with the requirements of this licence.
- 2.2.8.4 Audit reports and records of the resultant corrective and preventative actions must be maintained as part of the environmental management documentation system.
- 2.2.9 Awareness and competence training
  - 2.2.9.1 The licensee must maintain and implement procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have an adverse effect upon the environment to ensure awareness and competence in their work area.
  - 2.2.9.2 Appropriate records of training must be maintained and available for inspection at all reasonable times.
- 2.2.10 Public awareness and communications programme
  - 2.2.10.1 The licensee must maintain and implement a public awareness and communications programme to ensure that members of the public are informed, and can obtain information at the installation, at all reasonable times, concerning the environmental performance of the installation.
- 2.2.11 Maintenance programme
  - 2.2.11.1 The licensee must maintain and implement a programme for maintenance of all plant and equipment based on the instructions issued by the manufacturer, supplier and installer of the equipment.
  - 2.2.11.2 Appropriate record keeping and diagnostic testing must support this programme.
  - 2.2.11.3 The licensee must clearly allocate responsibility for the planning, management, and execution of all aspects of this programme to appropriate personnel.
  - 2.2.11.4 The programme must use appropriate techniques and measures to ensure the optimisation of energy efficiency in plant and equipment.
- 2.2.12 Process control programme
  - 2.2.12.1 The licensee must maintain and implement a programme to ensure there is adequate control of processes under all modes of operation.
  - 2.2.12.2 The programme must identify the key indicator parameters for process control performance, as well as identifying methods for measuring and controlling these parameters.
  - 2.2.12.3 Abnormal process operating conditions must be documented and analysed to identify any necessary corrective action.
  - 2.2.12.4 Any corrective action identified must be carried out in the in the shortest possible time, to the satisfaction of the Agency.

|                |                                                                                                                                                                                                          |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reason:</b> | <b><i>To make provision for management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment.</i></b> |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Condition 3. Infrastructure and Operation

- 3.1 The licensee must ensure at all times, for each component of the installation, after the date of grant of this licence, that all infrastructure and all equipment required under this licence has been and is:
- (a) installed,
  - (b) commissioned,
  - (c) present on-site, and
  - (d) maintained in full working order.
- 3.2 Where any condition or schedule of this licence specifies a later deadline for the installation of any piece of infrastructure or equipment, Condition 3.1 of this licence must apply as and from the deadline specified.
- 3.3 Infrastructure specified in the application that relates to the environmental performance of the installation and is not specified in this licence, must be installed in accordance with the schedule submitted in the application.
- 3.4 The licensee must have regard to the following when choosing or designing new plant or infrastructure, at a minimum:
- (a) energy efficiency, and
  - (b) the environmental impact of its construction, installation, maintenance, operation, and eventual decommissioning.
- 3.5 Installation notice board and plan
- 3.5.1 The licensee must maintain an installation notice board on the installation so that it is legible to persons outside the main entrance to the installation.
- 3.5.2 The minimum dimensions of the board must be 1200 mm by 750 mm.
- 3.5.3 The board must clearly show:
- (a) the name, telephone number and emergency out of hours contact telephone number of the installation,
  - (b) the normal hours of operation,
  - (c) the normal hours of waste acceptance,
  - (d) the name of the licensee,
  - (e) this licence register number, and
  - (f) where environmental information relating to the installation can be obtained.
- 3.5.4 A plan of the installation clearly identifying the location of each storage and treatment area must be displayed as close as is possible to the entrance to the installation and must:
- (a) be displayed on a durable material such that is legible at all times, and
  - (b) be replaced as material changes to the installation are made.

### 3.6 Sampling points and data logging

- 3.6.1 The licensee must clearly label and provide safe and permanent access to all on-site sampling and monitoring points, as required by the Agency.
- 3.6.2 The licensee must clearly label and provide safe and permanent access to all off-site sampling and monitoring points as required by the Agency, subject to the prior agreement of the landowner(s) concerned.
- 3.6.3 The licensee must install on all emission points, sampling points or equipment, all data logging or other electronic communication equipment, as required by the Agency.
- 3.6.4 All such equipment must be consistent with the safe operation of all sampling and monitoring systems.

### 3.7 In the case of composite sampling of aqueous emissions from the installation, a separate composite sample or homogeneous sub-sample (of sufficient volume as advised) must be refrigerated without delay after collection and retained as required for Agency use.

### 3.8 Tank, container, and drum storage areas

- 3.8.1 All tank, container, and drum storage areas must be rendered impervious to the materials stored therein.
- 3.8.2 Bunds must be designed in accordance with the Agency's guidance note on '*Storage and Transfer of Materials for Scheduled Activities*' (2004), as may be amended or replaced by the Agency.
- 3.8.3 All tank and drum storage areas must be bunded, either locally or remotely, to a volume not less than the greater of the following:
  - (a) 110 % of the capacity of the largest tank or drum within the bunded area, or
  - (b) 25 % of the total volume of substance that could be stored within the bunded area.
- 3.8.4 All drainage from bunded areas must be treated as contaminated unless it can be demonstrated to be otherwise.
- 3.8.5 All drainage from bunded areas must be diverted for collection and safe disposal, unless it can be deemed uncontaminated and does not exceed the trigger levels set for storm water emissions under Condition 6.12 of this licence.
- 3.8.6 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.8.7 All tanks, containers and drums must be labelled to clearly indicate their contents.
- 3.8.8 All bunds must be uniquely identified and labelled at the bund.
- 3.8.9 The licensee must apply a leak detection system to all storage tanks, container, and drum storage areas that contain liquid material other than water.
- 3.8.10 Liquid waste inputs to and liquid residues from the biological treatment processes must be stored in sealed tanks or vessels that are vented to the odour control system, or by other means approved by the Agency, in order to avoid the emission of odorous head gases.

- 3.9 The licensee must have in storage an adequate supply of containment booms or suitable absorbent material to contain and absorb any spillage at the installation.
- 3.10 Used absorbent material must be disposed of at an appropriate facility or installation.
- 3.11 Water metering and records
  - 3.11.1 The licensee must install and maintain a water meter on all water supplies serving the installation, within six months of the date of grant of this licence.
  - 3.11.2 Records of water usage must be maintained on-site, and a summary records report must be submitted annually to the Agency.
- 3.12 Silt traps and oil separators
  - 3.12.1 The licensee must maintain silt traps and oil separators at the installation as follows:
    - (a) silt traps on all storm water discharges, other than from roofs,
    - (b) oil separators on the storm water discharges from yard areas, and
    - (c) the oil separators must be Class I full retention interceptors.
  - 3.12.2 The oil separators must be in accordance with I.S. EN-858-2: 2003 (separator systems for light liquids).
- 3.13 Firewater retention
  - 3.13.1 The licensee must carry out a risk assessment to determine the retention requirements for firewater run-off from the installation.
  - 3.13.2 The risk assessment, and any subsequent reports or programmes, must be completed in accordance with all guidelines issued by the Agency with regard to firewater retention.
  - 3.13.3 The licensee must submit the firewater risk assessment report based on the assessment in Condition 3.13.1 of this licence to the Agency for approval within nine months of the date of grant of this licence.
  - 3.13.4 The licensee must implement the recommendations of the firewater risk assessment report, as approved by the Agency, within the timeframes specified by the Agency.
  - 3.13.5 The firewater risk assessment report must be reviewed and updated as necessary, as required by the Agency.
- 3.14 All pump sumps, storage tanks, or other treatment plant chambers from which spillage of environmentally significant materials might occur in such quantities as are likely to breach local or remote containment or separators, must be fitted with high liquid level alarms (or oil detectors as appropriate) from the date of grant of this licence.
- 3.15 The provision of a catchment system to collect any leaks from flanges and valves of all overground pipes used to transport material other than uncontaminated water must be examined. This must be incorporated into the Schedule of Environmental Objectives and Targets set out in Condition 2.2.4 of this licence for the reduction in diffuse emissions.
- 3.16 All wellheads at the installation must be adequately protected to prevent contamination or physical damage.

- 3.17 The licensee must, maintain in a prominent location on the site a windsock, or other wind direction indicator, which must be visible from the public roadway outside the site.
- 3.18 The licensee must operate a weather monitoring station on the site at a location approved by the Agency, which records conditions of wind speed and wind direction.
- 3.19 Waste water treatment
- 3.19.1 The licensee must provide and maintain a waste water treatment plant at the installation for the treatment of sanitary effluent arising on-site.
- 3.19.2 All waste water treatment systems and percolation areas must satisfy the criteria set out in the Agency's '*Code of Practice Wastewater Treatment and Disposal Systems Serving Single Houses (p.e. ≤ 10)*' (2009).
- 3.20 Installation security
- 3.20.1 Security and stock-proof fencing and gates must be maintained at the installation. Subject to the implementation of the Closure, Restoration and Aftercare Management Plan (CRAMP) the requirement for such installation security may be removed.
- 3.20.2 The licensee must maintain a CCTV monitoring system with digital recording, which records all waste vehicle movement into and out of the installation.
- 3.20.3 Copies of all CCTV recordings must be kept on-site and made available to the Agency on request.
- 3.20.4 There must be no unauthorised public access to the installation.
- 3.20.5 Gates must be locked shut when the installation is unsupervised.
- 3.20.6 The licensee must remedy any defect in the gates or fencing as follows:
- (a) a temporary repair must be made by the end of the working day, and
  - (b) a repair to the standard of the original gates or fencing must be completed within three working days.
- 3.21 Control of dust and odour emissions
- 3.21.1 The licensee must maintain adequate measures for the control of dust and odour emissions, including diffuse dust emissions, from the installation.
- 3.21.2 The licensee must maintain and implement a dust and odour management system which must include the following, at a minimum:
- (a) dust curtains (or equivalent approved by the Agency) must be maintained on the entry and exit points from the waste treatment building,
  - (b) fast action roller shutter doors must be maintained on all entry and exit points used by waste vehicles,
  - (c) all external doors in the waste treatment building must be kept closed when not in use,

- (d) all buildings for the storage or treatment of residual, food and odour-forming waste must be maintained at negative air pressure with ventilated gases being subject to treatment as necessary or as specified by the Agency, and
- (e) Negative pressure programme

The licensee must maintain and implement a programme which must:

- (i) demonstrate negative pressure and building envelope integrity throughout all buildings where residual, food or other odour-forming waste is deposited, stored, or treated, to ensure that there is no significant escape of odours,
- (ii) maintain all criteria for the operation and control of negative pressure, and
- (iii) be reviewed at least annually and updated as necessary.

### 3.22 Dust generation

- 3.22.1 All stockpiles must be adequately contained indoors to minimise dust generation.
- 3.22.2 Any remedial works necessary to control dust must be implemented within a timescale to be approved by the Agency.

### 3.23 Installation roads and site surfaces

- 3.23.1 Effective site roads must be provided and maintained to ensure the safe and nuisance free movement of vehicles within the installation.
- 3.23.2 The licensee must provide and maintain an impermeable concrete surface in all areas of the installation used for the movement, holding, storage or processing of waste.
- 3.23.3 The concrete surface must be constructed to Standard BS EN 1992-1-1:2004+A1:2004 as amended or an alternative as approved by the Agency.
- 3.23.4 The licensee must remedy any defect in concrete surfaces within five working days, or within an alternative period as approved by the Agency.

### 3.24 Installation office

- 3.24.1 The licensee must provide and maintain an office at the installation. The office must be constructed and maintained in a manner suitable for the processing and storing of documentation.
- 3.24.2 The licensee must provide and maintain a method for electronic transfer of information at the installation.

### 3.25 Waste inspection and quarantine areas

- 3.25.1 A waste inspection and quarantine area must be provided and maintained at the installation.
- 3.25.2 These areas must be constructed and maintained in a manner suitable and be of an appropriate size for the inspection of waste and subsequent quarantine if required.

- 3.25.3 The waste inspection and quarantine area must be clearly identified and segregated from each other.
- 3.25.4 Drainage from these areas must be directed to the waste water collection and storage system for collection and safe disposal.
- 3.26 Waste treatment infrastructure
  - 3.26.1 Waste treatment infrastructure must comprise the following, at a minimum:
    - (a) indoor waste acceptance, inspection, quarantine, storage, treatment and processing areas, including waste pre-treatment and post-treatment plant and associated equipment,
    - (b) separate storage areas for all waste treatment outputs including any screened fractions,
    - (c) leachate and waste water management infrastructure, and
    - (d) air handling and odorous air treatment infrastructure.
  - 3.26.2 Items of plant deemed critical to the efficient and adequate processing of waste at the installation (including among other things waste loading vehicles and ejector trailers) must be provided on the following basis:
    - (a) 100 % duty capacity,
    - (b) 20 % standby capacity available on a routine basis, and
    - (c) provision of contingency arrangements, including back up and spares, if necessary, in the case of breakdown of critical equipment.
  - 3.26.3 The licensee must maintain an inventory detailing the duty and standby capacity in tonnes per day of all waste handling and processing equipment to be used at the installation. These capacities must be based on the licensed waste intake, as per *Schedule A: Limitations* of this licence.
  - 3.26.4 The quantity of waste to be accepted at the installation on a daily basis must not exceed the duty capacity of the equipment at the installation. Any exceedance of this intake must be treated as an incident.
  - 3.26.5 If sludges or slurries are being accepted the licensee must ensure that an enclosed tank is provided for storage of the sludge or slurries to ensure safe coupling systems for loading and unloading from road tankers.
- 3.27 Weighbridge and wheel cleaning
  - 3.27.1 The licensee must provide and maintain a weighbridge and wheel cleaner at the installation.
  - 3.27.2 All waste arriving at or leaving the installation must be weighed at the weighbridge on-site.
  - 3.27.3 The wheel cleaner must be used by all vehicles leaving the installation, as required, to ensure that no waste water, storm water, or waste is carried off-site.
  - 3.27.4 All water from the wheel cleaning area must be collected for appropriate treatment, reuse or disposal.

- 3.27.5 The wheel cleaner must be inspected on a daily basis and drained as required.
- 3.27.6 Silt, stones and other accumulated material must be removed as required from the wheel cleaner and disposed of appropriately.
- 3.28 Storm water management
  - 3.28.1 Storm water management infrastructure must be provided and maintained at the installation during construction works, operation, closure, restoration and aftercare at the installation.
  - 3.28.2 The infrastructure must be capable of the collection and diversion of any contaminated run-off arising within the installation, at a minimum.
- 3.29 The licensee must provide and use adequate lighting during the operation of the installation in hours of darkness.
- 3.30 Pipework
  - 3.30.1 The licensee must, within three months of the date of grant of this licence, label all pipework so as to differentiate between fuels, process flows, and waste water. The labelling must include the direction of flow.
  - 3.30.2 The licensee must provide shut-off valves on all storm water discharge lines.
  - 3.30.3 The licensee must ensure permanent access is maintained at all times to the shut-off valve for storm water run-off in the event of a fire and that the valve is clearly labelled.
- 3.31 Back up generators
  - 3.31.1 The hours of operation of each back-up generator with a rated thermal input capacity between 1 and 50 MW must not exceed 500 hours annually, as a rolling average over a five year period.
  - 3.31.2 The licensee must record the hours of operation of any such back-up generators to the satisfaction of the Agency.

**Reason:*****To provide for appropriate operation of the installation to ensure protection of the environment.***

## Condition 4. Interpretation

4.1 Emission limit values for emissions to atmosphere in this licence must be interpreted in the following way:

4.1.1 Continuous monitoring

- (a) A 24-hour mean value must not exceed the emission limit value.
- (b) 97 % of all 30-minute mean values taken continuously over an annual period must not exceed 1.2 times the emission limit value.
- (c) A 30-minute mean value must not exceed twice the emission limit value.

4.1.2 Non-continuous monitoring

- (a) For any parameter where, due to sampling or analytical limitations, a 30-minute sample is inappropriate, a suitable sampling period must be employed, and the value obtained therein must not exceed the emission limit value.
- (b) For flow, an hourly or daily mean value, calculated on the basis of appropriate spot readings, must not exceed the relevant limit value.
- (c) For all other parameters, a 30-minute mean value must not exceed the emission limit value.

4.2 The concentration and volume flow limits for emissions to atmosphere specified in this licence must be achieved without the introduction of dilution and must be based on gas volumes under standard conditions of:

4.2.1 From non-combustion sources: Temperature 273 K, Pressure 101.3 kPa (no correction for oxygen or water content).

4.3 Emission limit values for emissions to waters in this licence must be achieved without the introduction of dilution, and must be interpreted in the following way:

4.3.1 Continuous monitoring

- (a) A flow value must not exceed the specific limit.
- (b) A pH value must not deviate from the specified range.
- (c) A temperature value must not exceed the limit value.

4.3.2 Composite sampling

- (a) A pH value must not deviate from the specified range.
- (b) For parameters other than pH and flow, eight out of 10 consecutive composite results, based on flow proportional composite sampling, must not exceed the emission limit value.
- (c) Individual results, based on flow proportional composite sampling, must not exceed 1.2 times the emission limit value.

#### 4.3.3 Discrete sampling

- (a) For parameters other than pH and temperature, a grab sample value must not exceed 1.2 times the emission limit value.

4.4 Where the ability to measure a parameter is affected by mixing before emission, then, with approval from the Agency, the parameter may be assessed before mixing takes place.

4.5 Noise from the installation must not give rise to sound pressure levels measured at the installation boundary which exceed the limit value(s).

4.6 Dust and particulate matters from the activity must not give rise to deposition levels which exceed the limit value(s).

#### 4.7 Compost Quality Test Results

The compost quality standard set out in the EU Fertilising Products Regulation and *Schedule D: Standards for Compost Quality* of this licence must apply to compost after the composting phase and prior to mixing with other materials.

**Reason:**

***To clarify the interpretation of limit values fixed under this licence.***

## Condition 5. Emissions

- 5.1 Emissions may be made from the specified emission points set out in *Schedule B: Emission Limits and Monitoring* of this licence, subject to compliance with the emission limit values specified in that Schedule.
- 5.1.1 Uncontaminated storm water may be discharged to surface water.
- 5.1.2 Uncontaminated storm water may be discharged to groundwater or to soil.
- 5.1.3 Minor, diffuse, and potential emissions may be emitted to air as specified in the application, or as approved by the Agency under Condition 1 of this licence.
- 5.2 Notwithstanding the requirements of Condition 5.1 of this licence, there must be no other emissions or discharges from the installation.
- 5.3 Emissions, including emissions giving rise to odours, from the activities carried on at the site must not result in an impairment of, or an interference with amenities or the environment beyond the installation boundary or any other legitimate uses of the environment beyond the installation boundary.
- 5.4 The licensee must ensure that all or any of the following:
- (a) vermin,
  - (b) birds,
  - (c) flies,
  - (d) mud, or
  - (e) litter
- associated with the activity do not result in an impairment of, or an interference with, amenities or the environment at the installation or beyond the installation boundary or any other legitimate uses of the environment beyond the installation boundary.
- 5.5 The licensee must, at a minimum of daily inspect the installation and its immediate surrounds for nuisances caused by litter, vermin, birds, flies, mud, dust and odours.
- 5.6 The licensee must maintain a record of all nuisance inspections.
- 5.7 Any method used by the licensee to control or prevent any impairment or interference must not cause an adverse impact on the environment.

**Reason:**

***To provide for the protection of the environment by way of control and limitation of emissions.***

## Condition 6. Control and Monitoring

### 6.1 Test programme

- 6.1.1 The licensee must prepare a test programme for the acid scrubber and biofilter abatement equipment installed to abate emissions.
- 6.1.2 The test programme must be completed within three months of the commencement of operation of the abatement equipment.
- 6.1.3 The criteria for the operation of the abatement equipment as determined by the test programme, must be incorporated into the standard operating procedures.
- 6.1.4 The test programme must, at a minimum:
  - (a) establish all criteria for operation, control and management of the abatement equipment to ensure compliance with the emission limit values specified in this licence,
  - (b) assess the performance of any monitors on the abatement system and establish a maintenance and calibration programme for each monitor, and
  - (c) be prepared in accordance with all relevant guidance published by the Agency.
- 6.1.5 A report on the test programme must be submitted to the Agency within one month of completion.

- 6.2 The licensee must carry out monitoring, sampling, analyses, measurements, examinations, maintenance, calibrations, and control techniques as set out in this licence and in accordance with *Schedule B: Emission Limits and Monitoring* and *Schedule C: Control of Emissions* of this licence.

### 6.3 Sampling and analysis

- 6.3.1 Sampling and analysis must be undertaken by competent staff in accordance with documented operating procedures.
- 6.3.2 Such procedures must be assessed for their suitability for the test matrix and performance characteristics must be determined.
- 6.3.3 Such procedures must be subject to a programme of analytical quality control using appropriate control standards with evaluation of test responses.
- 6.3.4 Where any analysis is sub-contracted it must be outsourced to a competent laboratory.
- 6.3.5 Unless otherwise approved by the Agency, sampling and analysis of emissions to atmosphere must be carried out:
  - (a) by ISO 17025 accredited persons or organisations, with accreditation for the relevant scope of sampling and analysis, and
  - (b) in accordance with the Agency's air monitoring policy.
- 6.3.6 The licensee must ensure that:
  - (a) sampling and analysis for all parameters listed in the schedules to this licence, and

- (b) any reference measurements for the calibration of automated measurement systems,

must be carried out in accordance with CEN standards. If CEN standards are not available, ISO, national or international standards, which must ensure the provision of data of an equivalent scientific quality, must apply.

- 6.4 Automatic monitors and samplers
- 6.4.1 All automatic monitors and samplers must be always functioning (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring has been approved in writing by the Agency for a limited period.
- 6.4.2 In the event of the malfunction of any continuous monitor, the licensee must contact the Agency as soon as practicable, and alternative sampling and monitoring facilities must be put in place.
- 6.4.3 The use of alternative equipment, other than in emergency situations, must be as approved by the Agency.
- 6.5 Monitoring and analysis equipment must be installed, operated, and maintained as necessary so that all monitoring results accurately reflect any and all emission, discharge or parameter specified in this licence.
- 6.6 All treatment, abatement and emission control equipment must be calibrated and maintained in accordance with the instructions issued by the manufacturer, supplier and installer.
- 6.7 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended only as required or approved by the Agency following evaluation of test results.
- 6.8 Diffuse emissions
- 6.8.1 The licensee must, to the satisfaction of the Agency, prepare, and implement a programme for the identification and reduction of diffuse emissions using an appropriate combination of best available techniques listed in BAT 14 of CID 2018/1147.
- 6.8.2 This programme must be included in the EMP under Condition 2 of this licence.
- 6.9 Where possible for the treatment of waste materials must be substituted with waste in accordance with BAT 22 of CID 2018/1147.
- 6.10 To reduce emissions to air and to improve environmental performance, BAT is to monitor and/or control the key waste and process parameters described in BAT 36 of CID 2018/1147.
- 6.11 Integrity testing
- 6.11.1 The integrity and water tightness of all tanks, bunding structures, containers, and underground pipes and their resistance to penetration by water or other materials carried or stored therein must be tested and demonstrated by the licensee.
- 6.11.2 The testing of the integrity and water tightness of all tanks, bunding structures, containers and underground pipes and their resistance to penetration by water or other materials carried or stored therein must be undertaken as follows:
- (a) testing must be carried out by a suitably qualified and experienced person,
  - (b) testing must be carried out at least once every three years and reported to the Agency on each occasion, and
  - (c) testing must be carried out in accordance with all guidance published by the Agency.
- 6.11.3 Any repairs required to ensure the integrity and water tightness of tanks, bunding structures, containers, and underground pipes must be carried out as soon as practicable.

- 6.11.4 A written record of all integrity tests and all maintenance or remedial work arising from them must be maintained by the licensee.
- 6.11.5 In the case of new bunding structures, tanks, underground pipelines or containers installed on-site, the testing for integrity and water tightness must be undertaken in advance of utilisation.
- 6.11.6 An inspection system for the detection of leaks on all flanges and valves on overground pipes used to transport materials other than water must be maintained.
- 6.12 Storm water discharges
  - 6.12.1 A visual examination of the storm water discharges must be carried out daily.
  - 6.12.2 Trigger values
    - 6.12.2.1 The licensee must maintain suitable trigger levels for relevant parameters including suspended solids, ammonia and BOD in storm water discharges.
    - 6.12.2.2 Trigger values must be set in accordance with the methods outlined in the Agency's *'Guidance on the setting of Trigger Values for Storm Water Discharges to Off-site Surface Waters at EPA IPPC and Waste Licensed Facilities'* (2012), as may be amended or replaced by the Agency.
    - 6.12.2.3 The trigger values must be revised at least every three years, with the approval of the Agency, following evaluation of appropriate storm water monitoring data in accordance with the methods outlined in the Agency's *'Guidance on the setting of Trigger Values for Storm Water Discharges to Off-site Surface Waters at EPA IPPC and Waste Licensed Facilities'* (2012), as may be amended or replaced by the Agency.
    - 6.12.2.4 The licensee must maintain and implement a response programme to address any exceedance of the trigger values.
  - 6.12.3 The storm water drainage system (i.e. gullies, manholes, any visible drainage conduits and such other aspects as required by the Agency), bunds, silt traps and oil separators must be inspected weekly, desludged as necessary, and properly maintained at all times.
  - 6.12.4 All sludge and drainage from storm water drainage system cleaning operations must be collected for safe disposal.
  - 6.12.5 Run-off from process areas of the installation used for the holding, storage and treatment of waste must be diverted for collection and safe disposal.
  - 6.12.6 The licensee must ensure that storm water that has the potential to become contaminated through contact with waste is physically separated from and managed separately to storm water that does not have the potential to become contaminated through contact with waste.
- 6.13 Groundwater
  - 6.13.1 The licensee must ensure that:
    - (a) access to groundwater sampling service is available without delay, or
    - (b) well sampling equipment is installed on-site and is fit for purpose.

## 6.14 Groundwater Monitoring

- 6.14.1 The licensee must assess groundwater monitoring data annually and determine compliance with the European Communities Environmental Objectives (Groundwater) Regulations 2010, SI 9/2010 as amended.
- 6.14.2 The licensee must on an annual basis submit to the Agency a report on the assessment referred to in Condition 6.14.1 of this licence.
- 6.14.3 The licensee must, in the event of a failure to demonstrate compliance with the European Communities Environmental Objectives (Groundwater) Regulations 2010, SI 9/2010 as amended, or as instructed by the Agency, arrange for the completion of a hydrogeological risk assessment.
- 6.14.4 The hydrogeological risk assessment, as specified in Condition 6.14.3 of this licence must:
- (a) be undertaken by a suitably qualified and experienced person,
  - (b) be in accordance with the Agency's "*Guidance on the Management of Contaminated Land and Groundwater at EPA licensed sites*" (2013), as may be amended or replaced by the Agency, and the criteria set out in the Agency's '*Guidance on the Authorisation of Discharges to Groundwater*' (2011), as may be amended or replaced by the Agency,
  - (c) identify the risk of groundwater contamination arising from licensed and past activities,
  - (d) assess the impact of groundwater contamination,
  - (e) propose preventative and as appropriate, remedial actions to be undertaken,
  - (f) propose groundwater compliance values to be maintained at compliance points, and
  - (g) address other matters as may be specified by the Agency.
- 6.14.5 A report on the hydrogeological risk assessment specified in Condition 6.14.3 of this licence, must be submitted to the Agency within the timeframe specified by the Agency.
- 6.14.6 The licensee must implement the recommendations of the hydrogeological risk assessment following consultation with and written approval from the Agency, or as instructed by the Agency.
- 6.14.7 The format and frequency of assessment and reporting may be amended by the Agency at any time.

## 6.15 Noise

- 6.15.1 The licensee must carry out a noise survey of the site operations biannually.
- 6.15.2 The survey programme must be undertaken in accordance with the methodology specified in the Agency's '*Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)*' (2016), as may be amended or replaced by the Agency.

### 6.15.3 Noise management plan

- 6.15.3.1 The licensee must prepare, maintain and implement a noise management plan, incorporating the elements listed in BAT 17 of CID 2018/1147, to the satisfaction of the Agency.
- 6.15.3.2 The plan must be submitted within six months of the date of grant of this licence.
- 6.15.3.3 Where a substantiated noise complaint or complaints arise, the licensee must use one or a combination of the techniques listed in BAT 18 of CID 2018/1147 in order to prevent or, where that is not practicable, to reduce noise emissions.
- 6.15.3.4 The plan must be prepared in accordance with the Agency's '*Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)*' 2016, as may be amended or replaced by the Agency.
- 6.15.3.5 The plan must be implemented within 12 months of the date of grant of this licence.
- 6.15.3.6 The plan must be reviewed annually and updated as necessary.

### 6.16 Odour

- 6.16.1 The licensee must carry out an odour survey of the site operations daily or as required by the Agency.
- 6.16.2 The survey programme must be undertaken in accordance with the methodology specified in the Agency's '*Air Guidance Note 5 (AG5) Odour Impact Assessment Guidance for EPA Licensed Sites*' (2021), as may be amended or replaced by the Agency.
- 6.16.3 Odour management plan
  - 6.16.3.1 The licensee must prepare, maintain, and implement an odour management plan, in line with the elements listed in BAT 12 of CID 2018/1147, to the satisfaction of the Agency.
  - 6.16.3.2 The plan must be submitted within 12 months of the date of grant of this licence.
  - 6.16.3.3 The plan must outline odour reduction and abatement measures.
  - 6.16.3.4 The licensee must use one or a combination of the techniques listed in BAT 13 of CID 2018/1147, to prevent or, where that is not practicable, to reduce odour emissions.
  - 6.16.3.5 The plan must include measures to ensure all potential sources of odour at the installation are identified and potentially odorous emissions and nuisance caused by odour are prevented.
  - 6.16.3.6 The plan must address, at a minimum:
    - (a) waste intake, including the acceptance of odorous waste deliveries,
    - (b) the in-vessel compost building,
    - (c) the biofilters, and

- (d) the storage and handling of wastes and other materials with a potential for causing odour.

6.16.3.7 The plan must be prepared in accordance with the Agency's '*Odour Emissions Guidance Note (Air Guidance Note AG9)*' (2019), as may be amended or replaced by the Agency.

6.16.3.8 The plan must be reviewed annually and updated as necessary.

## 6.17 Dust Control

6.17.1 The road network in the vicinity of the installation must be kept free from any debris caused by vehicles entering or leaving the installation.

6.17.2 Any such debris or deposited materials must be removed without delay.

6.17.3 In dry weather, site roads and other areas used by vehicles must be sprayed with water as required to minimise airborne dust nuisance.

## 6.18 Operational controls

6.18.1 All residual, food and other odour-forming waste accepted at the installation must be treated within 72 hours of its arrival at the installation or removed from the installation.

6.18.2 The floor and surfaces of the waste reception area must be cleaned of waste debris daily or when cleared of waste and in any event at least every 72 hours.

6.18.3 All waste treatment equipment must be cleaned of waste at an appropriate frequency.

6.18.4 The licensee must maintain a record of cleaning of the waste reception area and waste treatment equipment at the installation.

6.18.5 Wash water arising at the installation and leachate from the storage pits must be used in the production process or removed for treatment offsite.

6.18.6 Scavenging must not be permitted at the installation.

6.18.7 The biodrying of waste must only be undertaken with the prior written approval of the Agency.

6.18.8 Only waste conducive to the production of quality compost or bio-stabilised residual waste can be accepted at the installation.

6.18.9 Source segregated biowaste and residual waste which is subject to aerobic biological treatment must be handled, treated and stored separately in the biological treatment installation.

6.18.10 There must be no movement or transfer of composting liquors between processes for the treatment of:

6.18.10.1 waste intended to be used in the production of high-quality compost suitable for direct land application, and

6.18.10.2 organic fines and other waste not conducive to the production of high-quality compost suitable for direct land application.

6.18.10.3 These liquids may be mixed only where they are intended to be transferred off site for treatment at an authorised facility.

**6.18.11 There must be no mixing of:**

- 6.18.11.1 Organic fines, (and other feedstocks not conducive to the production of high quality compost suitable for direct land application) or
- 6.18.11.2 Bio-stabilised residual waste, with
  - (a) separately collected biowaste (and other feedstocks not conducive to the production of high quality compost suitable for direct land application), or
  - (b) compost that complies with the requirements of the EU Fertilising Products Regulation and the quality standard set out in *Schedule D: Standards for Compost Quality* of this licence or an alternative quality standard.

**6.18.12 Waste and compost storage**

Waste, and compost must be stored in designated areas, protected as may be appropriate against spillage, leachate run-off and dust and odour emissions. Waste and compost must be clearly labelled and appropriately segregated.

**6.18.13 The licensee must ensure that all vehicles delivering waste to and removing waste and materials from the installation are appropriately covered.****6.18.14 Any organic fines generated at the installation must be:**

- 6.18.14.1 processed and put into the biological treatment chambers within 24 hours of its generation at the installation, or
- 6.18.14.2 removed from the installation.

**6.19 Drainage gullies**

- 6.19.1 All process effluent, leachate and sanitary effluent gullies, drainage grids and manhole covers must be indicated by a red colour coded system.
- 6.19.2 All non-process clean storm water discharge gullies, drainage grids and manhole covers must be indicated by blue coloured markings.
- 6.19.3 This system must be maintained so as to be visible at all times during installation operation.
- 6.19.4 All identification designated in this licence (e.g. SE-X, SW-X) must be inscribed on these manholes.
- 6.19.5 Alternative arrangements to those required in Conditions 6.19.1, Condition 6.19.2, Condition 6.19.3 and Condition 6.19.4 may be approved by the Agency.

**6.20 The licensee must maintain a data management system for collation, archiving, assessing and graphically presenting the monitoring data generated as a result of this licence.****6.21 Litter Control**

- 6.21.1 All loose litter or other waste, placed on or in the vicinity of the installation, other than in accordance with the requirements of this licence, must be removed, subject to the agreement of the landowners, immediately and in any event by 10:00 am of the next working day after such waste is discovered.

6.21.2 The licensee must ensure that all vehicles delivering waste to and removing waste and materials from the installation are appropriately covered.

6.22 Vermin and fly infestations

6.22.1 The licensee must maintain and implement a programme for the control and eradication of vermin and fly infestations at the installation.

6.22.2 The programme must include the following at a minimum:

- (a) operator training,
- (b) details on the rodenticide(s) and insecticide(s) to be used,
- (c) mode and frequency of application,
- (d) measures to contain sprays within the installation boundary,
- (e) details on the precautions (including supporting documentation) to be taken to minimise the secondary poisoning of birds and other species from the use of the insecticides and rodenticides proposed,
- (f) copies of any comments received from National Parks and Wildlife Service on the vermin controls proposed, and
- (g) response proposed to complaints received about any vermin adjacent to the installation.

**Reason:**

***To provide for the protection of the environment by way of treatment and monitoring of emissions***

## Condition 7. Resource Use and Energy Efficiency

### 7.1 Energy efficiency audit

- 7.1.1 The licensee must carry out an audit of the energy efficiency of the site as required by the Agency.
- 7.1.2 The audit must be carried out in accordance with the Agency's '*Guidance Note on Energy Efficiency Auditing*' (2003), as may be amended or replaced by the Agency.
- 7.1.3 The audit must identify all practicable opportunities for energy use reduction and efficiency.
- 7.1.4 To use energy efficiently, the licensee must use both of the techniques listed in BAT 23 of CID 2018/1147.
- 7.1.5 The recommendations of the audit must be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2.2.4 of this licence.
- 7.1.6 The energy efficiency audit must be repeated at intervals as required by the Agency.

### 7.2 Water use reduction

- 7.2.1 The licensee must identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, using an appropriate combination of the techniques listed in BAT 19 of CID 2018/1147.
- 7.2.2 To reduce the generation of waste water and to reduce water usage, the licensee must use all the techniques listed in BAT 35 of CID 2018/1147.
- 7.2.3 Reductions in water usage must be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2.2.4 of this licence.

### 7.3 Material use efficiency

- 7.3.1 The licensee must undertake an assessment of the efficiency of use of raw materials in all processes, having regard to the reduction in waste generated.
- 7.3.2 The efficiency of materials used assessment must take account of best international practice for this type of activity.
- 7.3.3 Improvements in material use efficiency must be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2.2.4 of this licence.

- 7.4 The licensee must monitor the consumption of water, energy and raw materials as well as the generation of residues and wastewater annually, in accordance with the techniques listed in BAT 11 of CID 2018/1147.

**Reason:**

***To provide for the efficient use of resources and energy in all site operations.***

## Condition 8. Materials Handling

- 8.1 Waste hierarchy
  - 8.1.1 The licensee must ensure that waste generated in the carrying on of the activity must, in accordance with the waste hierarchy, be prepared for re-use, recycling or recovery.
  - 8.1.2 Where it is not technically or economically possible for waste generated to be prepared for re-use, recycling or recovery, waste must be disposed of in a manner which minimises any adverse impact on the environment.
- 8.2 Recovery of waste on-site must only take place in accordance with the conditions of this licence and in accordance with the appropriate national and European legislation and protocols.
- 8.3 Waste sent off-site for recovery or disposal
  - 8.3.1 Waste sent off-site for recovery or disposal must be transported only by an authorised waste contractor.
  - 8.3.2 Waste must be transported from the installation to the site of recovery or disposal only in a manner that will not adversely affect the environment and in accordance with the appropriate national and European legislation and protocols.
  - 8.3.3 Waste sent off-site for recovery or disposal must be transferred only to an appropriate facility.
- 8.4 The licensee must ensure that, in advance of transfer to another person, waste must be classified, packaged, and labelled in accordance with national, European and any other standards which are in force in relation to such labelling.
- 8.5 The loading and unloading of waste and materials and refuelling of on-site vehicles and plant must be carried out in designated areas protected against spillage and leachate run-off.
- 8.6 Waste and materials must be stored in designated areas, protected as appropriate against spillage and leachate run-off.
- 8.7 Waste and materials must be clearly labelled and appropriately segregated.
- 8.8 Unless approved in writing in advance by the Agency, the licensee is prohibited from mixing a hazardous waste of one category with a hazardous waste of another category or with any other non-hazardous waste.
- 8.9 Bio-waste must be stored or held only in separate covered leak-proof containers or vessels in designated areas at the installation.
- 8.10 All waste reception, storage, and processing must be carried out inside a building or in enclosed vessels. Waste must not be stored or handled outdoors.
- 8.11 The licensee must establish and implement waste handling and transfer procedures in accordance with BAT 5 of CID 2018/1147.
- 8.12 Waste acceptance and characterisation procedures
  - 8.12.1 To reduce odour emissions and to improve overall environmental performance, BAT is to select the waste input as described in BAT 33 of CID 2018/1147.

8.12.2 The licensee must maintain and implement detailed written procedures and criteria for:

- (a) basic characterisation, compliance testing, acceptance, on-site verification, and handling of all wastes arriving at the installation,
- (b) rejection of unacceptable incoming waste, and
- (c) ensuring adequate storage capacity exists in advance of waste acceptance.

8.12.3 Waste acceptance

8.12.3.1 Waste must be accepted at the installation only from known waste producers or new waste producers subject to initial waste profiling and basic characterisation off-site.

8.12.3.2 The written records of this off-site waste profiling and characterisation must be retained by the licensee for all active waste producers and for a two-year period following termination of licensee or waste producer agreements.

8.12.3.3 Waste must only be accepted at the installation from local authority waste collection or transport vehicles or holders of valid waste collection permits, unless exempted or excluded, issued under the Waste Management Act 1996 as amended. Copies of these waste collection permits must be maintained at the installation.

8.12.3.4 Waste accepted for biological treatment at the installation:

- (a) must be conducive to biological treatment,
- (b) must facilitate the achievement of any relevant output quality standards, and
- (c) must be compatible with the appropriate end-use for the biologically treated material.

8.12.4 Hazardous waste must not be accepted at the installation.

8.12.5 Waste arrival

8.12.5.1 Waste arriving at the installation must be inspected and have its documentation checked at the point of entry to the installation and subject to this verification, weighed, documented, and directed to an appropriate area within the installation.

8.12.5.2 Each load of waste arriving at the installation must be inspected prior to and during unloading. Only after such inspections will the waste be processed for disposal or recovery.

8.12.6 Unsuitable waste

8.12.6.1 Any waste deemed unsuitable for processing at the installation or in contravention of this licence must be immediately separated and removed from the installation at the earliest possible time.

8.12.6.2 Temporary storage of such wastes must be in a designated waste quarantine area.

- 8.12.6.3 Waste must be stored under appropriate conditions in the quarantine area to avoid putrefaction, odour generation, the attraction of vermin, and any other nuisance or objectionable condition.
- 8.12.7 A record of all inspections of incoming waste loads must be maintained.
- 8.12.8 Each container of waste accepted at the installation must, as part of the waste tracking system, be labelled with, at a minimum:
- (a) a unique identifier,
  - (b) date of arrival of each container of waste, and
  - (c) LoW code.
- 8.12.9 The licensee must maintain a list of the LoW codes that are authorised for acceptance at the installation. New waste codes may be added to the list, if approved by the Agency.
- 8.13 Waste and materials storage plan
- 8.13.1 The licensee must, within three months of the date of grant of this licence, develop and thereafter maintain and implement a waste and materials storage plan for all waste, compost and other materials and waste water stored and held at the installation.
- 8.13.2 The waste and materials storage plan must be adequate to ensure compliance with all conditions of this licence.
- 8.13.3 The waste and materials storage plan must be, at all times, to the satisfaction of the Agency.
- 8.13.4 The waste and materials storage plan must incorporate:
- (a) the techniques listed in BAT 4 of CID 2018/1147,
  - (b) the recommendations of the fire risk assessment required by Condition 9.5 of this licence,
  - (c) a limit on the total quantity of waste to be stored at the installation at any one time,
  - (d) maximum stockpile sizes in designated storage areas or vessels including:
    - (i) maximum volume,
    - (ii) maximum height,
    - (iii) maximum length,
    - (iv) maximum width,
    - (v) area, and
    - (vi) minimum separation distances.
  - (e) a limit on the maximum storage or holding period for each type of waste in designated storage areas or vessels,
  - (f) limitations, as necessary, on waste storage arrangements to be used to prevent odours arising,

- (g) a drawing or plan of the location of each waste type and the means of storage for each waste type (e.g. as loose waste, baled, in sealed containers),
  - (h) details of the drainage system superimposed on the above drawing or plan, and
  - (i) a designated fire quarantine area.
- 8.13.5 Waste accepted or generated at the installation must be stored or held only in designated areas or vessels that have been identified in the waste and materials storage plan.
- 8.13.6 Waste storage and holding practices at the installation must comply at all times with the waste and materials storage plan.
- 8.13.7 All designated areas or vessels for storage or holding of waste and waste water must be:
  - (a) clearly labelled,
  - (b) appropriately segregated, and
  - (c) visibly or physically delineated by walls, dividers, painted lines or marks on the ground or other methods approved by the Agency.
- 8.13.8 The emergency response procedure as required under Condition 9.2 of this licence must include an up-to-date copy of the waste and materials storage plan.
- 8.13.9 The waste and materials storage plan must include in its scope any material that was waste but has achieved end-of-waste status.
- 8.14 Quality of compost (soil improver)
  - 8.14.1 Compost must comply with the requirements of the EU Fertilising Products Regulation and the quality standard as set out in *Schedule D: Standards for Compost Quality* of this licence or an alternative quality standard as approved by the Agency.
  - 8.14.2 The licensee must ensure that the compost meets the requirements of the EU Fertilising Products Regulation, *Schedule D: Standards for Compost Quality* of this licence and any other relevant National and European legislation.
  - 8.14.3 Compost belonging to Component Material Category (CMC) 3 as defined in Annex II of the EU Fertilising Products Regulations, must not contain:
    - 8.14.3.1 the organic fraction of mixed municipal household waste separated through mechanical, physiochemical, biological and/or manual treatment,
    - 8.14.3.2 sewage sludge, industrial sludge or dredging sludge,
    - 8.14.3.3 animal by-products or derived products falling within the scope of Regulation (EC) No 1069/2009 for which no end point in the manufacturing chain has been determined in accordance with the third subparagraph of Article 5(2) of that Regulation.
  - 8.14.4 An organic soil improver must consist of material 95% of which is of solely biological origin.
  - 8.14.5 An organic soil improver must contain 20% or more dry matter.
  - 8.14.6 The organic carbon ( $C_{org}$ ) content in an organic soil improver must be at least 7.5% by mass.

- 8.14.7 An alternative quality standard for compost may be used, subject to the approval of the Agency. The use of any approved alternative quality standard for compost must not cause direct or indirect adverse impacts on human animal or plant health and must not cause environmental pollution.
- 8.14.8 Treated waste that fails to meet the requirements of the EU Fertilising Products Regulation and the quality standard for compost as set out in the *Tables D.1-1 Maximum Respiration Activity for Compost, D.3-1 Pathogenic Organism Content Limits, D.4-1 Impurity Content Limits* and *D.5-1 Organic Matter Content Limit* of *Schedule D: Standards for Compost Quality* of this licence, may be re-used in the process or treated as waste.
- 8.14.9 Treated bio-waste that fails to meet the quality standard for compost as set out in *Table D.2-1 Maximum Metal Concentration Limits* of *Schedule D: Standards for Compost Quality* of this licence must be handled as waste and must not be reused in the process.
- 8.14.10 A record must be kept on site of all batches that do not meet the relevant quality standard.
- 8.14.11 Details of all batches that do not meet the relevant quality standard and handled as a waste must be recorded as per Condition 11 of this licence.
- 8.14.12 Compost must be suitable for agricultural or horticultural improvement or ecological benefit without causing direct or indirect adverse impacts on human, animal or plant health and without causing environmental pollution.
- 8.14.13 Where an alternative compost quality standard is approved by the Agency, in accordance with Condition 8.14.7, the compost monitoring programme associated with the approved alternative compost quality standard may be employed in lieu of the compost quality monitoring requirements of this licence provided that details and results of the alternative monitoring programme are:
- 8.14.13.1 (a) maintained on-site for inspection by the Agency, and
- (b) reported to the Agency in accordance with the reporting requirements of this licence.

8.14.13.2 In the event of failure to achieve the requirements of the EU Fertilising Products Regulation and a quality standard parameter for Compost as set out in *Schedule D: Standards for Compost Quality* of this licence:

- (a) The licensee must evaluate process changes relevant to the sampled batch of material prior to the sampling date and specify the corrective actions taken including any re-sampling or reuse of the failed material back into the composting process.
- (b) Subsequent batches of treated biowaste must be tested against all parameters in the EU Fertilising Products Regulation and *Schedule D: Standards for Compost Quality* of this licence to re-validate the process.
- (c) Only following the pass of three successive batches through the process can the process be deemed to be stable and the normal compliance monitoring programme re-instated.
- (d) The licensee must notify the Agency when the process has been revalidated and deemed to comply with the requirements of this condition.
- (e) A test failure must be treated as an incident.

## 8.15 Compost Monitoring

8.15.1 Compost quality monitoring must be undertaken to demonstrate compliance with the requirements of the EU Fertilising Products Regulation and the quality standard as set out in *Schedule D: Standards for Compost Quality* of this licence.

8.15.2 Compost analysis must be carried out in accordance with the requirements of the EU Fertilising Products Regulation and at the frequency as follows, unless otherwise approved or instructed by the Agency:

8.15.2.1 Every six months where more than 500 and up to 1,000 tonnes of compost is produced per year.

8.15.2.2 At intervals of at least every 1,000 tonnes of compost produced or every three months, whichever comes first, where more than 1,000 and up to 10,000 tonnes of compost is produced per year.

8.15.2.3 Every month where more than 10,000 tonnes of compost is produced per year.

8.15.3 If significant modifications are made to the process, the process must be re-validated by testing batches until three successive batches achieve the relevant standard.

## 8.16 Outputs of biological treatment, other than quality compost.

8.16.1 Treated material, other than quality compost, must be classified and handled as waste resulting from the treatment of:

- (a) organic fines,
- (b) municipal waste,

- (c) other feedstocks not conducive to the production of high quality composting suitable for direct land application.

- 8.16.2 Organic fines must only be used to make bio-stabilised residual waste.
- 8.16.3 Bio-stabilised residual waste must be treated as waste and must be dispatched only for recovery or disposal at a landfill installation or onward recovery and processing at a waste recovery installation or facility, unless otherwise approved by the Agency.
- 8.16.4 In the case of bio-stabilised residual waste, stabilisation means the reduction of the decomposition properties of the waste to such an extent that offensive odours are minimised and the respiration activity after four days (AT4) is  $<7 \text{ mg O}_2/\text{g DM}$ .
- 8.16.5 Bio-stabilised residual waste must meet the requirements of Condition 8.16.4, or an alternative protocol as may be approved by the Agency based on biological treatment process parameters (e.g. validated residence time and temperature parameters at the treatment installation).

#### 8.17 Bio-stabilised Residual Waste Monitoring

- 8.17.1 Bio-stabilised residual waste analysis must be carried out at the frequency specified below, unless otherwise approved or instructed by the Agency.
  - 8.17.1.1 Every 500 tonnes of bio-stabilised residual waste dispatched from the installation.
- 8.17.2 The frequency of monitoring may be reduced if approved by the Agency on foot of an alternative protocol being in place that empirically correlates biological treatment process parameters (e.g. validated residence time and temperature parameters at the treatment installation) with respiration activity.

#### 8.18 The licensee must record the movement of all compost from the installation.

##### 8.18.1 The record of each movement must include, at a minimum:

- (a) the date,
- (b) quantity,
- (c) transporter,
- (d) final recipient/user, and
- (e) location and off-site storage location.

- 8.19 Each load of waste dispatched to landfill must be accompanied by documentation verifying the type of treatment carried out on the waste and, in the case of bio-stabilised residual waste, biodried waste, municipal waste or treated municipal waste, its biodegradable content.
- 8.20 Unless approved by the Agency, the licensee must not dispose of any waste that has been accepted at the installation for the purpose of a recovery activity. This condition does not apply to non-recyclable waste that is separated for disposal by the licensee from the incoming waste.

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| <b>Reason:</b> | <b><i>To provide for the appropriate handling of material and the protection of the environment.</i></b> |
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## Condition 9. Accident Prevention and Emergency Response

### 9.1 Accident prevention procedure

- 9.1.1 The licensee must, from the date of grant of this licence, ensure that a documented accident prevention procedure is in place that addresses the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment.
- 9.1.2 This procedure must be reviewed annually at a minimum and updated as necessary to the satisfaction of the Agency.

### 9.2 Emergency response procedure

- 9.2.1 The licensee must ensure that a documented emergency response procedure is in place, that addresses any emergency situation which may originate on-site.
- 9.2.2 This procedure must include provision for prevention of, or where not possible, minimising the effects of any emergency on the environment.
- 9.2.3 This procedure must be reviewed annually, at a minimum and updated as necessary to the satisfaction of the Agency.

### 9.3 Incidents and accidents

#### 9.3.1 In the event of an incident the licensee must without delay:

- (a) carry out an investigation to identify the nature, source and cause of the incident and any emission arising therefrom,
- (b) isolate the source of any such emission,
- (c) evaluate the environmental pollution, if any, caused by the incident,
- (d) identify and execute measures to minimise the emissions or malfunction and the effects thereof,
- (e) identify the date, time, and place of the incident, and
- (f) notify the Agency as required by Condition 11.3 of this licence.

#### 9.3.2 Where an incident or accident that adversely affects the environment occurs, the licensee must, without delay and to the satisfaction of the Agency:

- (a) take all necessary measures to limit the environmental consequences of the incident or accident,
- (b) take all possible measures to prevent further incident or accident, and
- (c) take all necessary measures to remedy the environmental consequences of the incident or accident.

### 9.4 Emergencies

- 9.4.1 In the event of a breakdown of equipment or any other occurrence which results in the closure of the installation for more than 48 hours, any waste arriving at the installation must be transferred directly to an alternative appropriate installation until such time as the installation is returned to a fully operational status.

- 9.4.2 The breakdown of equipment or any other occurrence which results in the closure of the installation, regardless of duration, must be treated as an emergency and rectified as soon as possible.
- 9.4.3 All significant spillages occurring at the installation must be treated as an emergency and immediately cleaned up and dealt with to alleviate their effects.
- 9.4.4 Waste must not be burnt within the boundaries of the installation.
- 9.4.5 A fire at the installation must be treated as an emergency and immediate action must be taken to extinguish it and notify the appropriate authorities.
- 9.5 Fire risk assessment
  - 9.5.1 The licensee must arrange, as directed by the Agency, for the completion, by an independent and appropriately qualified consultant, of a fire risk assessment for the installation.
  - 9.5.2 The assessment must examine all relevant factors on-site that impinge on fire risk and prevention.
  - 9.5.3 The assessment must have regard to all guidelines issued by the Agency with regard to fire risk assessment.
  - 9.5.4 A report on the fire risk assessment must be prepared and notified to the Agency prior to commencement of the licensed activity.
  - 9.5.5 Any recommendations in the fire risk assessment must be implemented by the licensee.

**Reason:*****To provide for the protection of the environment.***

## Condition 10. Closure, Restoration and Aftercare Management

- 10.1 Following termination, or planned cessation for a period greater than six months, of use or involvement of all or part of the site in the licensed activity, the licensee must, to the satisfaction of the Agency:
- (a) decommission, render safe, or remove for disposal or recovery, any soil, subsoil, buildings, plant or equipment, any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution, and
  - (b) submit a final validation report to the Agency, to include a certificate of completion to demonstrate there is no continuing risk to the environment, within three months of termination or planned cessation of the activity.

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| <b>Reason:</b> | <b><i>To make provision for the proper closure of the activity ensuring protection of the environment.</i></b> |
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## Condition 11. Notification, Records and Reports

- 11.1 The licensee must submit the reports, proposals, plans, programmes, and submissions required by this licence by the deadlines specified. The licensee will not be in compliance with the requirements of this condition unless and until it has submitted every report, proposal, plan, programme and submission, the deadline for which has passed.
- 11.2 The licensee must carry out every action required by the Agency, and arising out of such reports, proposals, plans, programmes, or submissions, by such deadline as specified by the Agency. The licensee will not be in compliance with the requirements of this condition unless and until it has carried out every such action.
- 11.3 Notifications to the Agency
- 11.3.1 The licensee must notify the Agency, in a format specified by the Agency, as soon as practicable after the occurrence of any of the following:
- (a) an incident or accident as defined by the glossary,
  - (b) any breach of one or more of the conditions attached to this licence, or
  - (c) any emission that does not comply with the requirements of this licence.
- 11.3.2 The licensee must include as part of the notification, the following at a minimum:
- (a) the date and time of the incident,
  - (b) summary details of the occurrence, and
  - (c) where available, the steps taken to prevent and minimise any emissions.
- 11.3.3 All details required to be communicated must be in accordance with all guidance provided by the Agency.
- 11.4 The licensee must notify Uisce Éireann and the local authority, in a manner prescribed by Uisce Éireann as soon as practicable after the occurrence of any incident which relates to discharges to sewer.
- 11.5 The licensee must notify the following, as soon as practicable after the occurrence of any incident which relates to a discharge to water:
- (a) Inland Fisheries Ireland in the case of discharges to receiving waters, and
  - (b) Uisce Éireann or Water Services Authority or other groups responsible for the downstream abstraction of drinking water, in the case of any incident where the discharge(s) have been identified as upstream of a drinking water abstraction point.
- 11.6 Record of notification
- 11.6.1 The licensee must make a record of any notification made under Condition 11.3, Condition 11.4, or Condition 11.5 of this licence.

11.6.2 This record must include:

- (a) details of the nature, extent, and impact of, and circumstances giving rise to, the incident or accident, and
- (b) all corrective actions taken to manage the incident or accident, prevent or minimise wastes generated, and the effect on the environment, and avoid recurrence.

11.6.3 In the case of a breach of a condition, the record must include measures to restore compliance.

11.7 Record of complaints

11.7.1 The licensee must record all complaints of an environmental nature related to the operation of the activity.

11.7.2 The record must give details of:

- (a) the date and time of the complaint,
- (b) the name of the complainant (if provided), and
- (c) give details of the nature of the complaint.

11.7.3 A record must be kept of the response made in the case of each complaint.

11.8 The licensee must record all sampling, analyses, measurements, examinations, calibrations, and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the installation.

11.9 Documentation

11.9.1 The licensee must ensure that the following documents are accessible at the site, at a minimum:

- (a) the licences relating to the installation,
- (b) the current EMS for the installation including all associated procedures, reports, records and other documents,
- (c) the previous year's AER for the installation,
- (d) records of all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the installation,
- (e) records of daily water abstraction volumes,
- (f) relevant correspondence with the Agency,
- (g) up-to-date site drawings and plans showing the location of key process and environmental infrastructure, including monitoring locations and emission points,

- (h) up-to-date standard operational procedures for all processes, plant and equipment necessary to give effect to this licence to ensure that standard operation of such processes, plant or equipment does not result in unauthorised emissions to the environment,
- (i) an up-to-date site drainage map of the installation. The drainage map must be reviewed annually and updated as necessary, and
- (j) any elements of the licence application or EIA documentation referenced in this licence.

11.9.2 This documentation must be available to the Agency for inspection at all reasonable times.

#### 11.10 Environmental Performance Reporting

11.10.1 The licensee must submit to the Agency annually, or as otherwise approved by the Agency:

- (a) an AER covering the previous calendar year,
- (b) an EPR covering the previous calendar year, and
- (c) the results of all emissions monitoring carried out in accordance with the requirements of this licence, including an assessment and interpretation of the results.

11.10.2 The licensee must ensure that the reports and emission monitoring results required under Condition 11.10.1 of this licence are:

- (i) to the satisfaction of the Agency,
- (ii) prepared in accordance with all relevant guidelines issued by the Agency, and
- (iii) submitted by the 31 March of each year.

#### 11.11 Record management

11.11.1 A full record must be maintained by the licensee on matters relating to the waste management operations and practices at this site.

11.11.2 This record must be maintained on a monthly basis and must contain details of the following, at a minimum:

- (a) the tonnages and LoW Code for the waste materials imported or sent off-site for disposal or recovery,
- (b) the names of the agent and carrier of the waste, and their waste collection permit details, if required (to include issuing authority and vehicle registration number),
- (c) details of the ultimate disposal or recovery destination facility for the waste and its appropriateness to accept the consigned waste stream, to include its permit or licence details and issuing authority, if required,
- (d) written confirmation of the acceptance and disposal or recovery of any hazardous waste consignments sent off-site,

- (e) details of all waste consigned abroad for recovery and classified as 'Green' in accordance with Regulation (EU) 2024/1157 of the European Parliament and of the Council of 11 April 2024 on shipments of waste, amending Regulations No 1257/2013 and (EU) 2020/1026 and repealing Regulation (EC) No 1013/2006, and must include the rationale for the classification,
- (f) details of any rejected consignments,
- (g) details of any approved waste mixing,
- (h) the results of any waste analyses required under *Schedule B: Emission Limits and Monitoring* of this licence,
- (i) the tonnage and LoW Code for the waste materials recovered or disposed on-site, and
- (j) any other records as specified by the Agency.

11.11.3 These records must be available to the Agency for inspection at all reasonable times.

11.12 The licensee must maintain a computer-based record for each load of waste arriving at and departing from the installation. The licensee must record the following:

- (a) the date and time,
- (b) the name of the carrier (including if appropriate, the waste carrier registration details/waste collection permit number),
- (c) the vehicle registration number,
- (d) the trailer, skip or other container unique identification number (where relevant),
- (e) the name of the producer(s)/collector(s) of the waste as appropriate,
- (f) the name of the waste facility (if appropriate) from which the load originated including,
- (g) the waste licence or waste permit register number (if appropriate),
- (h) a description of the waste including the associated LoW codes,
- (i) the quantity of the waste, recorded in tonnes,
- (j) details of the treatment(s) on-site and prior to arrival to which the waste has been subjected,
- (k) whether the waste is for disposal or recovery and if recovery for what purpose,
- (l) the name of the person checking the load,
- (m) where loads or wastes are removed, or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed, including waste licence and waste permit register number of the facility, and

- (n) where applicable, a consignment note number (including transfrontier shipment notification, and movement and tracking form numbers, as appropriate).

- 11.13 The licensee must submit reports, plans, programmes, notifications, and submissions, required by the conditions of this licence electronically, or as otherwise required by the Agency.
- 11.14 All reports, plans, programmes, notifications, and submissions must be certified accurate and representative by the installation manager or a nominated, suitably qualified, and experienced deputy.
- 11.15 A record must be kept at the installation of the programme for the control and eradication of vermin and fly infestations at the installation. These records must include at a minimum the following:
- (a) the date and time during which spraying of insecticide is carried out;
  - (b) contractor details;
  - (c) contractor logs and installation inspection reports;
  - (d) details of the rodenticide(s) and insecticide(s) used;
  - (e) operator training details;
  - (f) details of any infestations;
  - (g) mode, frequency, location and quantity of application; and
  - (h) measures to contain sprays within the installation boundary.
- 11.16 Where the compost product contains sewage sludge the licensee must retain the following records on site:
- 11.16.1 A copy of the notifications to the Local Authority as required under Article 8(1) and Article 8(3) of the Waste Management (Use of Sewage Sludge in Agriculture) Regulations 1998 as amended.
- 11.16.2 These records must include the following, at a minimum:
- (a) sludge analysis,
  - (b) records of sludge quantities, sludge properties,
  - (c) treatment type, and
  - (d) location and name of the recipient of the sludge (sludge meaning compost containing treated sludge).
- 11.17 Waste Recovery Reports
- 11.17.1 The licensee must as part of the AER submit a report on the contribution by this installation to the achievement of the recovery targets and strategy stated in national and European Union waste policies and must include the following:
- (a) the recovery/treatment of biowaste (including contribution of this installation to the pre-treatment targets in the EU Landfill Directive).

Reason:

***To provide for the collection and reporting of adequate information on the activity.***

## Condition 12. Financial Charges and Provision

### 12.1 Agency charges

- 12.1.1 The licensee must pay to the Agency an annual contribution of € 13,163, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, as the Agency considers necessary, for the performance of its functions under the Environmental Protection Agency Act 1992 as amended.
- 12.1.2 Payment of the annual contribution in Condition 12.1.1 of this licence, must be made within one month of the date upon which demanded by the Agency.
- 12.1.3 The first payment will be a pro-rata amount for the period from the date of grant of this licence to 31 December and must be paid to the Agency within one month of the date upon which demanded by the Agency.
- 12.1.4 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased, the licensee must contribute such sums as determined by the Agency to defray its costs in regard to items not covered by the said annual contribution.

### 12.2 Environmental liabilities

- 12.2.1 The Agency may amend this licence in accordance with section 96 of the Environmental Protection Agency Act 1992 as amended to require, or not require as the case may be, the putting in place of a financial provision to address liabilities for CRAMP and/or ELRA.

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| <b>Reason:</b> | <b><i>To provide for adequate financing for monitoring and financial provisions for measures to protect the environment</i></b> |
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## SCHEDULE A: Limitations

### A.1 *Limitations on the Installation*

The following waste related processes are authorised:

- (a) Reception, sorting, separation, screening, and storage of waste.
- (b) Composting of bio-waste, garden waste and biodegradable waste and associated processes including:
  - (i) waste pre-treatment and preparation for composting,
  - (ii) storage of waste and compost,
  - (iii) storage of waste including the outputs of biological treatment, and
  - (iv) processes for the management and mitigation of environmental emissions.
- (c) No hazardous waste must be accepted for composting at the installation.
- (d) No Animal By-products (ABP) (including catering waste) will be accepted at this installation unless the licensee has authorisation from the DAFM.
- (e) Aerobic biological treatment of municipal waste, organic fines and associated processes including:
  - (i) waste pre-treatment and preparation for biological treatment;
  - (ii) storage of waste including the outputs of biological treatment; and
  - (iii) processes for the management and mitigation of environmental emissions.

No additions to these processes are permitted unless approved in advance by the Agency.

## A.2 Waste Acceptance

The approved list of wastes in the following table is without prejudice to any restrictions placed on the activity by the Department of Agriculture, Food and the Marine in relation to the processing of waste comprising or containing animal by-products.

Table A.2-1: Waste Categories and Quantities

| Waste Type <sup>Note 1</sup>                                        | LoW Codes <sup>Note 1</sup>                                                    | Maximum <sup>Note 2</sup><br>(Tonnes Per Annum) |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------|
| Non-hazardous Biowaste and other biodegradable waste for composting | 02 01 06; 02 03 99; 19 05 99; 19 12 07; 20 01 08; 20 01 25; 20 01 99; 20 02 01 | 50,000                                          |
| Industrial non-hazardous sludges                                    | 02 03 01; 02 03 04; 04 02 20                                                   |                                                 |
| Industrial non-hazardous solids                                     | 19 09 04                                                                       |                                                 |
| Sewage sludge                                                       | 19 08 05; 19 08 14; 19 09 02                                                   |                                                 |

**Note 1:** Any proposals to accept other compatible non-hazardous waste types must be approved in advance by the Agency.

**Note 2:** This maximum refers to the quantity of material, whether classified as waste or not, that can be accepted at the installation for composting.

## A.3 Waste and Materials Stored

Table A.3-1

|                                                                                            |                                   |
|--------------------------------------------------------------------------------------------|-----------------------------------|
| Maximum amount of waste and compost that may be stored at the installation at any one time | 6,903 tonnes <sup>Note 1, 2</sup> |
|--------------------------------------------------------------------------------------------|-----------------------------------|

**Note 1:** Including waste undergoing processing in composting tunnels and finished compost.

**Note 2:** The maximum amount may be amended after the completion of the Waste and Materials Storage Plan (Condition 8.13) and subject to approval by the Agency.

## SCHEDULE B: Emission Limits and Monitoring

### B.1 Emissions to Air

#### B.1.1 Biofilter Emission Limit Values

Table B.1-1

|                                     |                                                |                             |                                  |
|-------------------------------------|------------------------------------------------|-----------------------------|----------------------------------|
| <b>Emission Point Reference No:</b> | Biofilter A2-1                                 |                             |                                  |
| <b>Location:</b>                    | To the rear of main waste composting building. |                             |                                  |
| <b>Grid reference</b>               | 279811E; 292048N                               |                             |                                  |
| <b>Minimum discharge height</b>     | 12.5 m above-ground                            |                             |                                  |
| <b>Parameter</b>                    | <b>Emission Limit Value (maximum)</b>          | <b>Monitoring Frequency</b> | <b>Analysis Method/Technique</b> |
| <b>Odour</b>                        | 1,000 Ou <sub>E</sub> /m <sup>3</sup>          | Quarterly                   | Standard Method                  |
| <b>Flow</b>                         | 100,000 m <sup>3</sup> /hour                   | Quarterly                   | Flow meter                       |

#### B.1.2 Dust Deposition Limits

Table B.1-2

|                                                       |
|-------------------------------------------------------|
| <b>Level (mg/m<sup>2</sup>/day)</b> <sup>Note 1</sup> |
| 350                                                   |

**Note 1:** 30-day composite sample with the results expressed as mg/m<sup>2</sup>/day.

#### B.1.3 Monitoring of Biological Treatment Process – In-vessel & Forced Aeration

Table B.1-3

| Parameter                          | Monitoring Frequency        | Monitoring equipment/method |
|------------------------------------|-----------------------------|-----------------------------|
| <b>Waste input Characteristics</b> |                             |                             |
| <b>Carbon to Nitrogen Ratio</b>    | Per batch <sup>Note 1</sup> | Standard method             |
| <b>Particle Size</b>               | Per batch <sup>Note 1</sup> | Standard method             |
| <b>Composting</b>                  |                             |                             |
| <b>Temperature</b>                 | Continuous                  | Temperature probe/recorder  |
| <b>Oxygen Content</b>              | Daily                       | Oxygen Content              |
| <b>Moisture</b>                    | Daily                       | Subjective by operator      |

| Parameter                                    | Monitoring Frequency | Monitoring equipment/method |
|----------------------------------------------|----------------------|-----------------------------|
| <b>Compost maturation (curing)</b>           |                      |                             |
| Temperature                                  | Continuous           | Temperature probe           |
| Moisture                                     | Daily                | Subjective by operator      |
| <b>General</b>                               |                      |                             |
| Liquid level in percolate and leachate tanks | Continuous           | Probe with recorder         |

**Note 1:** The frequency may be amended as required or approved by the Agency following evaluation of test results.

## B.2 Emissions to Water

There must be no emissions to water of environmental significance.

## B.3 Emissions to Sewer

There must be no process effluent emissions to sewer.

## B.4 Noise Emissions

### B.4.1 Noise Emission Limits

Table B.4-1

| Daytime dB L <sub>Ar,T</sub><br>(30 minutes) | Evening time dB L <sub>Ar,T</sub><br>(30 minutes) | Nighttime dB L <sub>Aeq,T</sub><br>(30 minutes) <sup>Note 1</sup> |
|----------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------|
| 55                                           | 50                                                | 45                                                                |

**Note 1:** During nighttime hours, there must be no clearly audible tonal component or impulsive component in the noise emission from the activity at installation boundary.

### B.4.2 Noise Emission Monitoring

Table B.4-2

| Period                      | Minimum Survey Duration <sup>Note 1</sup>                         |
|-----------------------------|-------------------------------------------------------------------|
| Daytime                     | A minimum of 3 sampling periods at each noise monitoring location |
| Evening time                | A minimum of 1 sampling period at each noise monitoring location  |
| Nighttime <sup>Note 2</sup> | A minimum of 2 sampling periods at each noise monitoring location |

**Note 1:** Sampling period is the time period T stated as per *Schedule B.4.1 Noise Emissions Limits* of this licence. This applies to daytime, evening, and nighttime periods.

**Note 2:** Nighttime measurements must be made between 23:00 hrs and 04:00 hrs, Sunday to Thursday, with 23:00 hrs being the preferred start time.

## B.5 Storm Water Discharge Monitoring

Table B.5-1

| Discharge Point Reference No: | SW3                       |                                         |
|-------------------------------|---------------------------|-----------------------------------------|
| Parameter                     | Monitoring Frequency      | Analysis Method/Technique               |
| Visual inspection             | Daily                     | Sample and examine for colour and odour |
| pH                            | Weekly                    | Standard Method                         |
| Conductivity                  | Weekly                    | Standard Method                         |
| Total ammonia                 | Quarterly                 | Standard Method                         |
| Orthophosphate                | Quarterly                 | Standard Method                         |
| Suspended solids              | Quarterly                 | Standard Method                         |
| BOD                           | Quarterly                 | Standard Method                         |
| Mineral Oils                  | Quarterly                 | Standard Method                         |
| Chlorides                     | Quarterly                 | Standard Method                         |
| Other <sup>Note 1</sup>       | As required by the Agency | As required by the Agency               |

**Note 1:** Any other parameters as required by, or as approved by, the Agency.

## B.6 Waste and compost monitoring

Table B.6-1

| Parameter                                                                              | Monitoring Frequency                                                                    | Analysis Method /Techniques                                 |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Compost                                                                                | Per Condition 8.15                                                                      | Standard method                                             |
| Bio-stabilised residual waste                                                          | Per Condition 8.17                                                                      | Standard method                                             |
| Municipal waste dispatched to landfill:<br>Biodegradable Municipal Waste (BMW) content | As may be specified by the Agency or as required to generate a site-specific BMW factor | Waste characterisation or other methods as may be specified |
| As required by the Agency <sup>Note 1</sup>                                            | To be approved by the Agency                                                            | To be approved by the Agency                                |

**Note 1:** Analytical requirements to be determined on a case-by-case basis.

## B.7 Ambient monitoring

### B.7.1 Dust and bioaerosols

Table B.7-1

|                                     |                                                                                                                                                                                                                         |                                  |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Location:</b>                    | <b>Dust (D)</b><br>D1, D2, D3, and any other locations, as required by, or as approved by, the Agency.<br><b>Bioaerosols (A)</b><br>A1, A2, A3, and any other locations, as required by, or as approved by, the Agency. |                                  |
| <b>Parameter</b> <sup>Note 1</sup>  | <b>Monitoring Frequency</b>                                                                                                                                                                                             | <b>Analysis Method/Technique</b> |
| <b>Dust deposition</b>              | Quarterly <sup>Note 2</sup>                                                                                                                                                                                             | Bergerhoff <sup>Note 3</sup>     |
| <b>Bacteria</b>                     | Biannually                                                                                                                                                                                                              | Grab sample <sup>Note 4</sup>    |
| <b><i>Aspergillus fumigatus</i></b> | Biannually                                                                                                                                                                                                              | Grab sample <sup>Note 4</sup>    |

**Note 1:** Meteorological monitoring to be carried out concurrently with the monitoring specified in the schedule.

**Note 2:** Twice during the period May to September concurrently with all of the above.

**Note 3:** VDI 4320 (Measurement of atmospheric depositions, Determination of the dust deposition according to the Bergerhoff method).

**Note 4:** Enumeration of colonies to be carried out as described in 'Standardised Protocol for the Sampling and Enumeration of Airborne Micro-organisms at Composting Facilities'-The Composting Association (1999) or alternative method and/or frequency as may be approved by the Agency.

### B.7.2 Groundwater monitoring

Table B.7-2

|                                            |                                                                                       |                                   |
|--------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|
| <b>Location:</b>                           | Well Nos. BH1, BH2, BH3 or alternative monitoring location(s) approved by the Agency. |                                   |
| <b>Parameter</b>                           | <b>Monitoring Frequency</b>                                                           | <b>Analysis Method/Techniques</b> |
| <b>Groundwater levels (wells)</b>          | Annually                                                                              | Level meter                       |
| <b>pH</b>                                  | Annually                                                                              | pH electrode/meter                |
| <b>Total Suspended Solids</b>              | Annually                                                                              | Standard Method                   |
| <b>COD</b>                                 | Annually                                                                              | Standard Method                   |
| <b>BOD</b>                                 | Annually                                                                              | Standard Method                   |
| <b>Total ammonia</b>                       | Annually                                                                              | Standard Method                   |
| <b>Orthophosphate</b>                      | Annually                                                                              | Standard Method                   |
| <b>Total petroleum hydrocarbons</b>        | Annually                                                                              | Standard Method                   |
| <b>Conductivity</b>                        | Annually                                                                              | Standard Method                   |
| <b>Sulphate</b>                            | Annually                                                                              | Standard Method                   |
| <b>Chloride</b>                            | Annually                                                                              | Standard Method                   |
| <b>Metals/non-metals</b> <sup>Note 1</sup> | Annually                                                                              | Standard Method                   |
| <b>Nitrate</b>                             | Annually                                                                              | Standard Method                   |
| <b>Faecal Coliforms</b>                    | Annually                                                                              | Standard Method                   |

|                                      |                  |                 |
|--------------------------------------|------------------|-----------------|
| <b>Total Coliforms</b>               | Annually         | Standard Method |
| <b>Relevant hazardous substances</b> | Every five years | Standard Method |

**Note 1:** Metals and elements to be analysed by AA/ICP should include as a minimum, boron, cadmium, chromium (total), copper, iron, lead, magnesium, manganese, nickel, potassium, sodium and zinc.

### B.7.3 Soil monitoring

Table B.7-3

|                                      |                                                   |                                   |
|--------------------------------------|---------------------------------------------------|-----------------------------------|
| <b>Location:</b>                     | Monitoring locations(s) as approved by the Agency |                                   |
| <b>Parameter</b>                     | <b>Monitoring Frequency</b>                       | <b>Analysis Method/Techniques</b> |
| <b>Relevant hazardous substances</b> | Every 10 years                                    | Standard Method                   |

### B.7.4 Storm water monitoring

Table B.7-4

|                                      |                                                                                              |                                         |
|--------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>Discharge Point Reference No:</b> | RW1 (downstream of storm water discharge SW3)<br>RW2 (upstream of storm water discharge SW3) |                                         |
| <b>Parameter</b> <sup>Note 1</sup>   | <b>Monitoring Frequency</b>                                                                  | <b>Analysis Method/Technique</b>        |
| <b>Visual inspection</b>             | Daily                                                                                        | Sample and examine for colour and odour |
| <b>pH</b>                            | Weekly                                                                                       | Standard Method                         |
| <b>Conductivity</b>                  | Weekly                                                                                       | Standard Method                         |
| <b>Total ammonia</b>                 | Quarterly                                                                                    | Standard Method                         |
| <b>Suspended solids</b>              | Quarterly                                                                                    | Standard Method                         |
| <b>BOD</b>                           | Quarterly                                                                                    | Standard Method                         |
| <b>Mineral Oils</b>                  | Quarterly                                                                                    | Standard Method                         |
| <b>Chlorides</b>                     | Quarterly                                                                                    | Standard Method                         |
| <b>Other</b> <sup>Note 1</sup>       | As required by the Agency                                                                    | As required by the Agency               |

**Note 1:** Any other parameters as required by, or as approved by, the Agency.

## SCHEDULE C: Control of Emissions

### C.1 Control of Emissions to Air

#### C.1.1 Biofiltration

Table C.1-1

|                                                                       |                                 |                                                           |
|-----------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------|
| Emission Point Reference No:                                          | Biofilter A2-1                  |                                                           |
| Description of Treatment:                                             | Acid scrubber and Biofiltration |                                                           |
| <b>Control Parameter</b>                                              | <b>Monitoring Frequency</b>     | <b>Key Equipment</b> <sup>Note 1</sup>                    |
| <b>Air Management and Treatment</b>                                   |                                 |                                                           |
| <b>Air extraction</b>                                                 | Continuous with alarm/call-out  | SCADA control system<br>Pumps/ engines<br>Pressure gauges |
| <b>Acid scrubber</b>                                                  |                                 |                                                           |
| <b>Waste gas flow rate</b>                                            | Continuous                      | Flow meter                                                |
| <b>Pressure drop across scrubber</b>                                  | Continuous                      | Pressure transmitter                                      |
| <b>Recycle water flow rate</b>                                        | Continuous                      | Flow meter                                                |
| <b>Scrubber liquid level</b>                                          | Continuous                      | Flow meter                                                |
| <b>pH, temperature, conductivity</b>                                  | Continuous                      | Flow meter                                                |
| <b>Ammonia concentration in gases at inlet and outlet of scrubber</b> | Monthly                         | Colorimetric indicator tubes <sup>Note 2</sup>            |
| <b>Other</b> <sup>Note 4</sup>                                        | As Required by the Agency       | As required by the Agency                                 |
| <b>Biofilter</b>                                                      |                                 |                                                           |
| <b>Inlet and outlet gas</b>                                           |                                 |                                                           |
| <b>Flow</b>                                                           | Monthly                         | Flow Meter                                                |
| <b>Bed Media</b> <sup>Note 3</sup>                                    |                                 |                                                           |
| <b>Bed media - Condition</b>                                          | Daily                           | N/A                                                       |
| <b>Moisture Balance</b>                                               | Monthly                         | Moisture Meter                                            |
| <b>pH of Percolate</b>                                                | Weekly                          | pH Meter                                                  |
| <b>Total viable counts</b>                                            | Bi-annually                     | Standard method                                           |
| <b>General</b>                                                        |                                 |                                                           |
| <b>Fan</b>                                                            | Daily visual check              | System is operational                                     |
| <b>Negative pressure across biofilter</b>                             | Monthly                         | Air current tubes<br>SCADA control system                 |

|                                                               |             |                      |
|---------------------------------------------------------------|-------------|----------------------|
| Effective depth of biofilter and uniform flow pattern         | Bi-annually | Physical measurement |
| Residence time of gas in biofilter in the range 30-60 seconds | Bi-annually | Gas flow measurement |

**Note 1:** The licensee must maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.

**Note 2:** Or an alternative method approved by the Agency.

**Note 3:** The biofilter must be examined to ensure that no channelling is evident. Turning, restructuring and the addition of supplementary bed materials or total replacement of bed materials must be carried out as required subject to bed performance.

**Note 4:** Additional controls as established under Condition 6.1 of this licence.

## *C.2 Control of Emissions to Water*

There must be no emissions to water of environmental significance.

## *C.3 Control of Emissions to Sewer*

There must be no process effluent emissions to sewer.

## SCHEDULE D: Standards for Compost Quality

### Compost Quality

The following criteria are deemed a quality standard for the use of compost as a soil improver if applied to land in accordance with statutory obligations and requirements under any other enactments or regulations. The following criteria should not be deemed as criteria for fertiliser. Compost for other end uses may require stricter and/or additional criteria to be achieved.

N, P, K, NH<sub>4</sub>-N, NO<sub>3</sub>-N, pH and dry matter content must be measured and reported upon in compost quality reports in order to facilitate the end use of the compost.

The criteria apply to the compost just after the final phase of treatment and prior to mixing with any other materials.

### D.1 Stability

Table D.1-1 Maximum Respiration Activity for Compost

| Parameter                          | Quality Limit                                                              |
|------------------------------------|----------------------------------------------------------------------------|
| <b>Stability</b> <sup>Note 1</sup> | Oxygen Uptake Rate (OUR), ≤ 25 mmol O <sub>2</sub> /kg organic matter/hour |

**Note 1:** The method is not suitable for material with a content of particle sizes >10 mm that exceeds 20%.

### D.2 Contaminants in an organic soil improver

Table D.2-1 Maximum Metal Concentration Limits

| Parameter                          | Compost Limit <sup>Note 1, Note 2</sup><br>(mg/kg dry matter) |
|------------------------------------|---------------------------------------------------------------|
| <b>Cadmium (Cd)</b>                | 1.5                                                           |
| <b>Hexavalent chromium (Cr VI)</b> | 2                                                             |
| <b>Copper (Cu)</b>                 | 300                                                           |
| <b>Mercury (Hg)</b>                | 1                                                             |
| <b>Nickel (Ni)</b>                 | 50                                                            |
| <b>Lead (Pb)</b>                   | 120                                                           |
| <b>Inorganic arsenic (As)</b>      | 40                                                            |
| <b>Zinc (Zn)</b>                   | 800                                                           |

**Note 1:** These limits should not be taken as an indication of suitability for addition to soil as the cumulative metal additions to soil should be first calculated.

**Note 2:** Incoming sludges (other than sewage sludges) must be monitored quarterly (on a supplier basis) for the parameters outlined in this table and also for selenium (Se) and molybdenum (Mo).

### D.3 Pathogens

If this installation is regulated by the Department of Agriculture, Food and the Marine under the Animal By-products Regulation and the compost has been sanitised in accordance with that Department's requirements, there is no requirement for further testing, provided that records of the testing form part of the compost quality records maintained in accordance with this licence.

If the above does not apply, the pathogenic organism content must not exceed the limits for the following indicator species:

Table D.3-1 Pathogenic Organism Content Limits

| Micro-organisms to be tested                      | Sampling plans |   |   | Limit                                     |
|---------------------------------------------------|----------------|---|---|-------------------------------------------|
|                                                   | n              | c | m | M                                         |
| <i>Salmonella spp.</i>                            | 5              | 0 | 0 | Absence in 25 g or 25 ml                  |
| <i>Escherichia coli</i> or <i>Enterococcaceae</i> | 5              | 5 | 0 | ≤ 1000 CFU per gram of fresh mass or 1 ml |

Where:

n = number of samples to be tested,

c = number of samples where the number of bacteria expressed in colony forming units (CFU) is between m and M,

m = threshold value for the number of bacteria expressed in CFU that is considered satisfactory,

M = maximum value of the number of bacteria expressed in CFU.

### D.4 Impurities

Table D.4-1 Impurity Content Limits

| Parameter                                                         | Compost Limit                                                                                                                                                                          |                                       |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| PAH <sub>16</sub> (mg/kg) <sup>Note 2</sup>                       | 6                                                                                                                                                                                      |                                       |
| Macroscopic Impurities <sup>Note 1</sup> > 2 mm (g/kg dry matter) | 3 <sup>Note 3, Note 4</sup>                                                                                                                                                            | 2.5 <sup>Note 3, Note 5, Note 6</sup> |
| Gravel and Stones > 5 mm                                          | < 5 %                                                                                                                                                                                  |                                       |
| Sharps                                                            | Compost must not contain any sharp impurity measuring over a 2 mm dimension that could cause damage or injury to humans, animals or plant during, or resulting from, its intended use. |                                       |

**Note 1:** Macroscopic fragments of glass, metals, plastics or similar non-biodegradable materials.

**Note 2:** Sum of naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo[a]anthracene, chrysene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, indeno[1,2,3-cd]pyrene, dibenzo[a,h]anthracene and benzo[ghi]perylene.

**Note 3:** No more than 5 g/kg dry matter of the sum of macroscopic impurities.

**Note 4:** Until 15 July 2026.

**Note 5:** From 16 July 2026.

**Note 6:** From 16 July 2029, the limit value must comply with the EU FPR as amended.

## D.5 Organic Matter

Table D.5-1 Organic Matter Content Limit

| Parameter      | Compost Quality |
|----------------|-----------------|
| Organic Matter | ≥ 20 %          |

## D.6 Miscellaneous

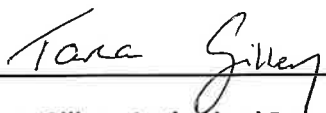
Table D.6-1 Maturity Test

| Parameter         | Compost Quality                  |
|-------------------|----------------------------------|
| Viable Weed Seeds | < 3 viable weed seed per litre   |
| Other             | As may be approved by the Agency |

Sealed by the seal of the Agency on this the 15<sup>th</sup> day of July 2026.

PRESENT when the seal of the Agency

Was affixed hereto:



Tara Gillen, Authorised Person

