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WASTE LICENCE
Recommended Decision

Licence Register Number:	217-1
Applicant:	Killarney Waste Disposal Limited
Location of Facility:	Aughacurreen Killarney County Kerry

INTRODUCTION

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

This licence is for the operation of a materials recovery facility. The facility covers an area of approximately 2.2 hectares. The licence allows up to 40,000 tonnes per annum of waste to be processed at the facility.

Only non-hazardous mixed municipal, organic, dry recyclables and construction and demolition waste may be accepted at the materials recovery facility. The materials recovery facility consists of a material recovery building where mechanical segregation of waste types, bulking and storage of waste occurs. Plant to be operated within the materials recovery building includes a bag opener, screener or trommel, ballistic separator, conveyors, picking lines, baler and wrapping machine. Wood waste will be shredded in an enclosed building. A vortex dryer will be operated to treat organic waste. No outdoor processing of waste shall occur. Only wood, metals and masonry wastes/materials will be stored outdoors. Recovered fractions will be sent off-site to other recovery facilities. Residual, non-recoverable waste will be disposed off-site.

The licence sets out in detail the conditions under which **Killarney Waste Disposal Limited** will operate and manage this facility.

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Glossary of Terms

All terms in this licence should be interpreted in accordance with the definitions in the Waste Management Acts 1996 to 2005 and the Environmental Protection Agency Acts 1992 & 2003, unless otherwise defined in this section.

Aerosol	A suspension of solid or liquid particles in a gaseous medium.
Adequate lighting	20 lux measured at ground level.
AER	Annual Environmental Report.
Agreement	Agreement in writing.
Annually	At approximately twelve monthly intervals.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of this licence application.
Application	The application by the licensee for this licence.
Appropriate facility	A waste management facility, duly authorised under relevant law and technically suitable.
BAT	Best Available Techniques.
Bi-annually	All or part of a period of six consecutive months.
Biennially	Once every two years.
Biodegradable waste	Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food, garden waste, sewage sludge, paper and paperboard.
BOD	5 day Biochemical Oxygen Demand.
CEN	Comité Européen De Normalisation – European Committee for Standardisation
COD	Chemical Oxygen Demand.
Commercial Waste	As defined in Section 5(1) of the Waste Management Acts 1996 to 2005.
Construction and Demolition Waste	Wastes that arise from construction, renovation and demolition activities, as specified in Chapter 17 of the EWC or as otherwise may be agreed.
Containment boom	A boom which can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses.
Daily	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.
Day	Any 24 hour period.
Daytime	0800 hrs to 2200 hrs

dB(A)	Decibels (A weighted).
DO	Dissolved Oxygen.
Documentation	Any report, record, result, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.
Drawing	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
EIS	Environmental Impact Statement
EMP	Environmental Management Programme.
Emission Limits	Those limits, including concentration limits and deposition rates established in <i>Schedule B</i> of this licence.
Environmental Damage	Has the meaning given it in Directive 2004/35/EC
EPA	Environmental Protection Agency.
European Waste Catalogue (EWC)	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2000/532/EC and any subsequent amendment published in the Official Journal of the European Community.
Facility	Any site or premises used for the purposes of the recovery or disposal of waste.
Fortnightly	A minimum of 24 times per year, at approximately two week intervals.
GC/MS	Gas Chromatography/Mass Spectroscopy
Green waste	Waste wood (excluding timber), plant matter such as grass cuttings, and other vegetation.
Heavy Metals	This term is to be interpreted as set out in "Parameters of Water Quality, Interpretation and Standards" published by the Agency in 2001. ISBN 1-84095-015-3.
HFO	Heavy Fuel Oil.
Hours of Operation	The hours during which the facility is authorised to be operational.
Hours of Waste Acceptance	The hours during which the facility is authorised to accept waste
ICP	Inductively Coupled Plasma Spectroscopy.
Incident	The following shall constitute an incident for the purposes of this licence: <ul style="list-style-type: none">a) an emergency;b) any emission which does not comply with the requirements of this licence;c) any exceedence of the daily duty capacity of the waste handling equipment;d) any trigger level specified in this licence which is attained or exceeded;

and,

e) any indication that environmental pollution has, or may have, taken place.

Industrial Waste	As defined in Section 5(1) of the Waste Management Acts 1996 to 2005.
Inert waste	Waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically 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.
Installation	A stationary technical unit or plant where the activity concerned referred to in the First Schedule of EPA Acts 1992 and 2003 is or will be carried on, and shall 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.
IPPC	Integrated Pollution Prevention & Control.
K	Kelvin.
kPa	Kilo Pascals.
Landfill Directive	Council Directive 1999/31/EC.
Leq	Equivalent continuous sound level.
Licensee	Killarney Waste Disposal Limited
Liquid Waste	Any waste in liquid form and containing less than 2% dry matter.
List I	As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
List II	As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
Local Authority	Kerry County Council
Maintain	Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to adequately perform its function.
Mass Flow Limit	An Emission Limit Value which is expressed as the maximum mass of a substance which can be emitted per unit time.
Mass Flow Threshold	A mass flow rate, above which, a concentration limit applies.
Monthly	A minimum of 12 times per year, at approximately monthly intervals.
Municipal waste	As defined in Section 5(1) of the Waste Management Acts 1996 to 2005.
Night-time	2200 hrs to 0800 hrs.
Noise Sensitive Location (NSL)	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
Oil Separator	Device installed according to the International Standard I.S.EN 858-2:2003

(Separator systems for light liquids, (e.g. oil and petrol)-Part 2: Selection of nominal size, installation, operation and maintenance.

PER	Pollution Emission Register.
Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
Recyclable Materials	Those waste types, such as cardboard, batteries, gas cylinders, etc, which may be recycled.
Regional Fisheries Board	South Western Regional Fisheries Board.
Sanitary Effluent	Waste water from facility toilet, washroom and canteen facilities
Sample(s)	Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments.
SOP	Standard Operating Procedure.
Standard Method	A National, European or internationally recognised procedure (eg, I.S. EN, ISO, CEN, BS or equivalent), as 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 may be agreed by the Agency.
Storm Water	Rain water run-off from roof and non-process areas.
Temporary storage	In relation to waste is a period of less than six months as defined in the Waste Management Acts 1996 to 2005.
The Agency	Environmental Protection Agency.
TOC	Total Organic Carbon.
Trade Effluent	Trade Effluent has the meaning given in the water pollution Acts 1977 and 1990
Trigger Level	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
WEEE	As defined in S.I. No. 340 of 2005
Weekly	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.
WWTP	Waste Water Treatment Plant.

Decision & Reasons for the Decisions

Reasons for the Decision

The 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 40(4) of the Waste Management Acts 1996 to 2005.

In reaching this decision the Environmental Protection Agency has considered the application and supporting documentation received from the applicant and the report of its inspector.

Part I Schedule of Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Acts 1996 to 2005, the Environmental Protection Agency (the Agency) proposes, under Section 40(1) of the said Act to grant this Waste Licence to **Killarney Waste Disposal Limited** to carry on the waste activities listed below at **Aughacurreen, Killarney, Co. Kerry** subject to conditions, with the reasons therefor and the associated schedules attached thereto set out in the licence.

Licensed Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Acts 1996 to 2005

Class 11.	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
Class 12.	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
Class 13.	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2005

Class 2.	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).
Class 3.	Recycling or reclamation of metals and metal compounds.
Class 4.	Recycling or reclamation of other inorganic materials.
Class 11.	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
Class 12.	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.
Class 13.	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

Part II Schedule of Activities Refused

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

Part III Conditions

Condition 1. Scope

- 1.1 Waste activities at this facility shall be restricted to those listed and described in Part I Activities Licensed and shall be as set out in the licence application or as modified under Condition 1.5 of this licence and subject to the conditions of this licence.
- 1.2 Activities at this facility shall be limited as set out in Schedule A: Limitations.
- 1.3 The facility shall be controlled, operated, and maintained and emissions shall take place as set out in this licence. All programmes required to be carried out under the terms of this licence, become part of this licence.
- 1.4 For the purposes of this licence, the facility authorised by this licence, is the area of land outlined in red on Drawing No. DG0003-01 of the application. Any reference in this licence to "facility" shall mean the area thus outlined in red. The licensed activities shall be the carried on only within the area outlined.
- 1.5 No alteration to, or reconstruction in respect of, the activity or any part thereof which would, or is likely to, result in
- (a) a material change or increase in:
- The nature or quantity of any emission,
 - The abatement/treatment or recovery systems,
 - The range of processes to be carried out,
 - The fuels, raw materials, intermediates, products or wastes generated, or
- (b) any changes in:
- Site management infrastructure or control with adverse environmental significance,
- shall be carried out or commenced without prior notice to, and without the agreement of, the Agency.
- 1.6 This licence is for the purposes of waste licensing under the Waste Management Acts 1996 to 2005 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.7 This licence has been granted in substitution for the waste permit granted to the licensee by Kerry County Council. The waste permit for the facility ceases to have effect on date of grant of licence.
- 1.8 Waste Acceptance Hours and Hours of Operation
- 1.8.1 With the exception of emergencies or as may be agreed by the Agency, waste shall be accepted at or despatched from the facility only between the hours of 0730 hrs to 1930 hrs Monday to Saturday inclusive.
- 1.8.2 The facility shall be operated only during the hours of 0700 hrs to 2000 hrs Monday to Saturday inclusive.
- 1.8.3 The facility shall not operate or accept/despatch waste on Sundays or on Bank Holidays without the agreement of the Agency.

Reason: To clarify the scope of this licence.

Condition 2. Management of the Facility

2.1 Facility Management

2.1.1 The licensee shall employ a suitably qualified and experienced facility manager who shall be designated as the person in charge. The facility manager or a nominated, suitably qualified and experienced, deputy shall be present on the facility at all times during its operation or as otherwise required by the Agency.

2.1.2 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience, as required and shall be aware of the requirements of this licence. In addition, the facility manager and his/her deputy shall successfully complete FAS waste management training programme or equivalent agreed by the Agency.

2.2 Environmental Management System (EMS)

2.2.1 The licensee shall establish and maintain an Environmental Management System (EMS) **within six months of the date of grant of this licence**. The EMS shall be updated on an annual basis.

2.2.2 The EMS shall include as a minimum the following elements:

2.2.2.1 Management and Reporting Structure.

2.2.2.2 Schedule of Environmental Objectives and Targets.

The licensee shall prepare a Schedule of Environmental Objectives and Targets. The Schedule shall as a minimum provide for a review of all operations and processes, including an evaluation of practicable options, for energy and resource efficiency, the use of cleaner technology, cleaner production, and the prevention, reduction and minimisation of waste, and shall include waste reduction targets. The Schedule shall include time frames for the achievement of set targets and shall address a five year period as a minimum. The Schedule shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER).

2.2.2.3 Environmental Management Programme (EMP)

The licensee shall, not later than six months from the date of grant of this licence, submit to the Agency for agreement an EMP, including a time schedule, for achieving the Environmental Objectives and Targets prepared **under Condition 2.2.2.2**. Once agreed the EMP shall be established and maintained by the licensee. It shall include:

- (b) designation of responsibility for targets;
- (c) the means by which they may be achieved;
- (d) the time within which they may be achieved.

The EMP shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER) (**Condition 11.9**).

A report on the programme, including the success in meeting agreed targets, shall be prepared and submitted to the Agency as part of the AER. Such reports shall be retained on-site for a period of not less than seven years and shall be available for inspection by authorised persons of the Agency.

2.2.2.4 Documentation

- (i) The licensee shall establish and maintain an environmental management documentation system which shall be to the satisfaction of the Agency.
- (ii) The licensee shall issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

2.2.2.5 Corrective Action

The licensee shall establish procedures to ensure that corrective action is taken should the specified requirements of this licence not be fulfilled. The responsibility and authority for initiating further investigation and corrective action in the event of a reported non-conformity with this licence shall be defined

2.2.2.6 Awareness and Training

The licensee shall establish and maintain procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a significant effect upon the environment. Appropriate records of training shall be maintained.

2.2.2.7 Communications Programme

The licensee shall establish and maintain a Public Awareness and Communications Programme to ensure that members of the public can obtain information at the facility, at all reasonable times, concerning the environmental performance of the facility.

2.2.2.8 Maintenance Programme

The licensee shall establish and maintain within six months of the date of grant of this licence a structured programme for maintenance and service of vehicles and equipment. This programme shall be supported by appropriate record keeping systems and diagnostic testing.

Reason: 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.

Condition 3. Infrastructure and Operation

- 3.1 The licensee shall establish all infrastructure referred to in this licence prior to the commencement of the licensed activities or as required by the conditions of this licence.
- 3.2 Facility Notice Board
 - 3.2.1 The licensee shall provide and maintain a Facility Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the board shall be 1200 mm by 750 mm.
 - 3.2.2 The board shall clearly show:-
 - a) the name and telephone number of the facility;
 - b) the normal hours of opening;
 - c) the name of the licence holder;
 - d) an emergency out of hours contact telephone number;

- e) the licence reference number; and
 - f) where environmental information relating to the facility can be obtained.
- 3.2.3 A plan of the facility clearly identifying the location of each storage and treatment area shall be displayed as close as is possible to the entrance to the facility. The plan shall be displayed on a durable material such that it is legible at all times. The plan shall be replaced as material changes to the facility are made.
- 3.3 **Facility Security**
- 3.3.1 **Security and stockproof fencing and gates of adequate height and suitable material, shall be installed and maintained within six months of date of grant of licence. The base of the fencing shall be set in the ground.**
- 3.3.2 **Gates shall be locked shut when the facility is unsupervised.**
- 3.3.3 **The licensee shall remedy any defect in the gates and/or fencing as follows:-**
- (i) **a temporary repair shall be made by the end of the working day; and**
 - (ii) **a repair to the standard of the original gates and/or fencing shall be undertaken within three working days.**
- 3.3.4 **The licensee shall install a CCTV system, which records all truck movement into and out of the facility. The CCTV system shall be operated during the period referred to in condition 1.8.2 and copies of recordings kept on site and made available to the Agency on request.**
- 3.4 **Facility Roads and Site Surfaces**
- 3.4.1 **Effective site roads shall be provided and maintained to ensure the safe and nuisance free movement of vehicles within the facility.**
- 3.4.2 **The licensee shall provide, and maintain an impermeable concrete surface in the areas of the facility shown on Drawing No. 02-034-J4-MCOS2F03. In addition, the floor of the buildings and specified areas at the facility shall be concreted and constructed to British Standard 8110. The licensee shall remedy any defect in concrete surfaces within five working days.**
- 3.5 **Facility Office**
- 3.5.1 **The licensee shall provide and maintain an office at the facility. The office shall be constructed and maintained in a manner suitable for the processing and storage of documentation.**
- 3.5.2 **The licensee shall provide and maintain a working telephone and a method for electronic transfer of information to the Agency at the facility.**
- 3.6 **Waste Inspection and Quarantine Areas**
- 3.6.1 **A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained within the materials recovery building.**
- 3.6.2 **These areas shall be constructed and maintained in a manner suitable, and be of a size appropriate, for the inspection of waste and subsequent quarantine if required. The waste inspection area and the waste quarantine area shall be clearly identified and segregated from each other.**
- 3.6.3 **Drainage from these areas shall be directed to the process effluent holding tank within the materials recovery building.**

- 3.7 **Weighbridge and Wheel Cleaners**
- 3.7.1 The licensee shall provide and maintain a weighbridge and wheel cleaners at the facility.
- 3.7.2 The wheel cleaners shall be used by all vehicles leaving the facility as required to ensure that no trade effluent/storm water or waste is carried off-site. All water from the wheel cleaning area shall be directed to trade effluent drainage network.
- 3.7.3 The wheel-wash shall be inspected on a daily basis and drained as required. Silt, stones and other accumulated material shall be removed as required from the wheel-wash and disposed of appropriately.
- 3.8 **Waste handling, ventilation and processing plant**
- 3.8.1 **Items of plant deemed critical to the efficient and adequate processing of waste at the facility (including *inter alia* waste loading vehicles and ejector trailers) shall be provided on the following basis:-**
- (i) **100% duty capacity;**
 - (ii) **20% standby capacity available on a routine basis; and**
 - (iii) **Provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment**
- 3.8.2 **The licensee shall, within three months from the date of grant of this licence, provide a report for the agreement of the Agency detailing the duty and standby capacity in tonnes per day, of all waste handling and processing equipment to be used at the facility. These capacities shall be based on the licensed waste intake, as per *Schedule A: Limitations*, of this licence.**
- 3.8.3 **The quantity of waste to be accepted at the facility on a daily basis shall not exceed the duty capacity of the equipment at the facility. Any exceedance of this intake shall be treated as an incident.**
- 3.9 The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 3.10 The licensee shall clearly label and provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 3.11 **Tank, Container and Drum Storage Areas**
- 3.11.1 All tank, container and drum storage areas shall be rendered impervious to the materials stored therein. Bunds should be designed having regard to Agency guidelines 'Storage and Transfer of Materials for Scheduled Activities' (2004).
- 3.11.2 All tank and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:-
- (i) 110% of the capacity of the largest tank or drum within the bunded area; or
 - (ii) 25% of the total volume of substance which could be stored within the bunded area
- 3.11.3 All drainage from bunded areas shall be treated as hazardous waste unless it can be demonstrated to be otherwise. All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.11.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.

- 3.11.5 The integrity and water tightness of all the bunding structures, tanks and containers and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee **prior to use and thereafter** at least once every three years. This testing shall be carried out in accordance with any guidance published by the Agency.
- 3.11.6 All tanks, containers and drums shall be labelled to clearly indicate their contents.
- 3.12 The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility. Once used the absorbent material shall be disposed of at an appropriate facility.
- 3.13 Storm Water**
- 3.13.1 **Roof water drainage from the materials recovery building shall discharge to land drains at two outfall points as shown in Drawing No. 02-034-J4-MCOS2F03.**
- 3.13.2 **Storm water drainage from impermeable areas shall be directed to the storm water drainage and treatment system as described in Attachment D.1.K of the application and Drawing No. 02-034-J4-MCOS2F03.**
- 3.14 **Silt Traps and Oil Separators**
- The licensee shall install (**within six months of date of grant of licence**) and maintain silt traps and oil separator at the facility to ensure that all storm water discharges from the facility pass through a silt trap and oil separator prior to discharge. The separator shall be a Class I full retention separator and the silt traps and separator shall be in accordance with I.S. EN 585-2:2003 (separator systems for light liquids).
- 3.15 Process Effluent**
- 3.15.1 **Process effluent shall be initially collected and stored, prior to disposal off-site, in an effluent holding tank located within the materials recovery building. The effluent holding tank shall be installed and maintained as described in the application and having regard to Agency guidelines 'Storage and Transfer of Materials for Scheduled Activities' (2004). Process effluent shall be transported off-site in fully enclosed road tankers.**
- 3.15.2 **The licensee shall, within six months of date of grant of licence, ensure that six-week effluent storage capacity is provided or equivalent measures are undertaken. The licensee shall, within three months of date of grant of licence, submit for agreement by the Agency, proposals to meet this requirement having regard to Agency guidelines 'Storage and Transfer of Materials for Scheduled Activities' (2004).**
- 3.15.3 **The licensee shall decommission within six months of date of grant of licence the underground effluent holding tank of 4.55m³ capacity shown on Drawing No. 02-034-J4-MCOS2F03.**
- 3.16 Dust and Odour**
- The licensee shall, within three months of the date of grant of this licence, install and provide adequate measures for the control of odours and dust emissions, including fugitive dust emissions, from the facility. Such measures shall at a minimum include the following:-**
- (i) **Dust canopies shall be maintained on the fines waste collection/storage bay.**
 - (ii) **Other such measures as maybe required by the Agency to alleviate dust or odour nuisance.**

- 3.17 All waste processing operations shall be carried out within the materials recovery building or a dedicated building (with respect to waste wood shredding operations). All wastes/materials shall be stored within the materials recovery building except wood, metals and masonry wastes/materials, which can be stored in the open yard.
- 3.18 All pump sumps, storage tanks, effluent holding tanks, lagoons 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 separator, shall be fitted with high liquid level alarms (or oil detectors as appropriate) within six months from the date of grant of this licence.
- 3.19 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 3.20 The licensee shall, within three months of the date of grant of this licence, install in a prominent location on the site a wind sock, or other wind direction indicator, which shall be visible from the public roadway outside the site.
- 3.21 The licensee shall, within three months of date of grant of licence, submit proposals for the installation of groundwater monitoring borehole(s) for agreement by the Agency. At least one borehole shall be located down gradient (in relation to groundwater flow) of the facility. The proposal shall be implemented within such a period to be agreed by the Agency.
- 3.22 An appropriately sized septic tank, puraflo and percolation area shall be installed, operated and maintained in accordance with the EPA guidance on treatment systems.

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

Condition 4. Interpretation

- 4.1 Emission limit values for emissions to sewer/waters in this licence shall be interpreted in the following way:-
- 4.1.1 Continuous monitoring:
- (i) No flow value shall exceed the specified limit.
 - (ii) No pH value shall deviate from the specified range.
 - (iii) No temperature value shall exceed the limit value.
- 4.1.2 Composite Sampling:
- (i) No pH value shall deviate from the specified range.
 - (ii) For parameters other than pH and flow, eight out of ten consecutive composite results, based on flow proportional composite sampling, shall not exceed the emission limit value. No individual result similarly calculated shall exceed 1.2 times the emission limit value.
- 4.1.3 Discrete Sampling
- For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.
- 4.2 Where the ability to measure a parameter is affected by mixing before emission, then, with agreement from the Agency, the parameter may be assessed before mixing takes place.
- 4.3 Noise

Noise from the facility shall not give rise to sound pressure levels (Leq,T) measured at the **boundary** of the facility which exceed the limit value(s).

4.4 Dust and Particulate Matter

Dust and particulate matter from the activity shall not give rise to deposition levels, which exceed the limit value(s).

Reason: To clarify the interpretation of limit values fixed under the licence.

Condition 5. Emissions

- 5.1 No specified emission from the facility shall exceed the emission limit values set out in *Schedule B: Emission Limits* of this licence. There shall be no other emissions of environmental significance.
- 5.2 The licensee shall ensure that the activities shall be carried out in a manner such that emissions including odours do not result in significant impairment of, and/or significant interference with amenities or the environment beyond the facility boundary.
- 5.3 No substance shall be discharged in a manner, or at a concentration which, following initial dilution, causes tainting of fish or shellfish.
- 5.4 The licensee shall ensure that vermin, birds, flies, mud, dust, litter and odours do not give rise to nuisance at the facility or in the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution.
- 5.5 Emissions to air from the vortex dryer at emission point reference number A5 in the Materials Recovery Building shall be a minimum of 10m above ground level.

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

Condition 6. Control and Monitoring

- 6.1 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and as in accordance with *Schedule C: Control & Monitoring* of this licence:
- 6.1.1 Analysis shall be undertaken by competent staff in accordance with documented operating procedures.
- 6.1.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics determined.
- 6.1.3 Such procedures shall be subject to a programme of Analytical Quality Control using control standards with evaluation of test responses.
- 6.1.4 Where analysis is sub-contracted it shall be to a competent laboratory.
- 6.2 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring has been agreed in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring

- facilities shall be put in place. Agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.
- 6.3 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the emission or discharge.
- 6.4 The licensee shall ensure that groundwater monitoring well sampling equipment is available/installed on-site and is fit for purpose at all times. The sampling equipment shall be to Agency specifications.
- 6.5 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer.
- 6.6 **Sampling and analysis of all pollutants as well as reference measurement methods to calibrate automated measurement systems shall be carried out in accordance with CEN-standards. If CEN standards are not available, ISO, national or international standards which will ensure the provision of data of an equivalent scientific quality shall apply.**
- 6.7 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the agreement of the Agency following evaluation of test results.
- 6.8 The licensee shall prepare a programme, to the satisfaction of the Agency, for the identification and reduction of fugitive emissions. This programme shall be included in the Environmental Management Programme.
- 6.9 All tanks and pipelines shall be maintained impervious to the materials **conveyed** or stored therein. The integrity and water tightness of all underground pipes and tanks and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
- 6.10 **Process Effluent**
The drainage system, bunds, **effluent tank** shall be inspected weekly, desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal.
- 6.11 **Storm water**
- 6.11.1 A visual examination of the storm water discharge shall be carried out daily. A log of such inspections shall be maintained.
- 6.11.2 The drainage system, bunds, silt traps and oil separators shall be inspected weekly, desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal.
- 6.12 **Noise**
- 6.12.1 The licensee shall carry out a noise survey of the site operations **biannually**. The survey programme shall be undertaken in accordance with the methodology specified in the 'Environmental Noise Survey Guidance Document' as published by the Agency.
- 6.12.2 **The licensee shall establish and maintain best work practices for the control of noise emissions from the site.**
- 6.12.3 **The licensee shall within 13 months of the date of grant of this licence prepare a programme, based on the findings of the surveys referred to in Condition 6.12.1 above, to the satisfaction of the Agency, for the identification and reduction of noise emissions. This programme shall be included in the Environmental Management Programme.**

6.13 Nuisance Monitoring

The licensee shall, at a minimum of one-week intervals, inspect the facility and its immediate surrounds for nuisances caused by vermin, birds, flies, mud, dust and odours. A log of such inspections shall be maintained.

6.14 Monitoring Locations

The licensee shall, within three months of the date of grant of this licence, submit to the Agency an appropriately scaled drawing(s) showing all the monitoring locations that are stipulated in this licence. The drawing(s) shall include the reference code of each monitoring point and the eight-digit national grid reference of each monitoring point.

6.15 Litter Control

6.15.1 The measures described in Attachment E6 of the licence application shall be applied to control litter at the facility.

6.15.2 All loose litter or other waste from the carrying on of the waste activities, arising on or in the vicinity of the facility, other than in accordance with the requirements of this licence, shall be removed, subject to the agreement of the landowners, immediately and in any event by 1000 hrs of the next working day after such waste is discovered.

6.15.3 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.

6.16 Dust/Odour Control

6.16.1 All waste for disposal and malodorous waste stored overnight at the facility, shall be stored within the materials recovery building or in suitably covered and enclosed containers, and shall be removed from the facility within forty eight hours, except at Bank Holiday weekends. At Bank Holiday weekends, waste for disposal shall be removed within seventy-two hours of its arrival on site.

6.16.2 Areas where there is a potential for generation of odour (temporary storage area, skips, bins) shall be covered.

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

6.16.4 Access roads and hardstanding areas shall be swept regularly.

6.16.5 All plant and equipment shall be maintained to minimise dust and odour generation.

6.16.6 All stockpiles of materials/wastes shall be maintained so as to minimise dust generation.

6.17 Operational Controls

6.17.1 The floor of the materials recovery building handling mixed municipal waste shall be washed down and cleared of all waste at the end of the working day. The floor of the storage bays for recovered wastes shall be washed down and cleaned on each occasion such bays are emptied.

6.17.2 Scavenging shall not be permitted at the facility.

6.17.3 All tanks and drums shall be labelled to clearly indicate their contents.

6.18 Vermin and Flies

The licensee shall, within three months of date of grant of licence, establish and maintain a programme for the control and eradication of vermin and fly infestations at the facility to the satisfaction of the Agency. The programme should include as a minimum, operator training, details on the rodenticide(s) and insecticide(s) to be used, mode and frequency of application and measures to contain sprays within the facility boundary.

6.19 Test Programme

6.19.1 The licensee shall prepare, to the satisfaction of the Agency, a test programme for abatement equipment installed to vortex dryer. This programme shall be submitted to and agreed by the Agency, prior to implementation.

6.19.2 This programme, following agreement with the Agency, shall be completed within three months of the commencement of operation of the abatement equipment.

6.19.3 The criteria for the operation of the abatement equipment as determined by the test programme, shall be incorporated into the standard operating procedures as approved by the Agency in *Schedule B: Emission Limits*, of this licence.

6.20 The test programme shall include as a minimum, the following:

6.20.1 Establish all criteria for operation, control and management of the abatement equipment to ensure compliance with the emission limit values specified in this licence.

6.20.2 Assess the performance of any monitors on the abatement system and establish a maintenance and calibration programme for each monitor.

6.20.3 A report on the test programme shall be submitted to the Agency within one month of completion.

6.21 The licensee shall, within six months of the date of grant of this licence, develop and establish a Data Management System for collation, archiving, assessing and graphically presenting the environmental monitoring data generated as a result of this licence.

<p><i>Reason: To provide for the protection of the environment by way of treatment and monitoring of emissions.</i></p>

Condition 7. Resource Use and Energy Efficiency

7.1 The licensee shall carry out an audit of the energy efficiency of the site within one year of the date of grant of this licence. The audit shall be carried out in accordance with the guidance published by the Agency; "Guidance Note on Energy Efficiency Auditing". The energy efficiency audit shall be repeated at intervals as required by the Agency.

7.2 The audit shall identify all opportunities for energy use reduction and efficiency and the recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2 above.

7.3 The licensee shall identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible. Reductions in

water usage shall be incorporated into Schedule of Environmental Objectives and Targets.

- 7.4 The licensee shall undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into the Schedule of Environmental Objectives and Targets.

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

Condition 8. Materials Handling

- 8.1 Disposal or recovery of waste on-site shall only take place in accordance with the conditions of this licence and in accordance with the appropriate National and European legislation and protocols.
- 8.2 Waste sent off-site for recovery or disposal shall be transported only by an authorised waste contractor. The waste shall be transported only from the site of the activity to the site of recovery/disposal in a manner which will not adversely affect the environment and in accordance with the appropriate National and European legislation and protocols.
- 8.3 The licensee shall ensure that waste, prior to transfer to another person, shall be classified packaged and labelled in accordance with National, European and any other standards which are in force in relation to such labelling.
- 8.4 The loading and unloading of materials shall be carried out in designated areas protected against spillage and leachate run – off.
- 8.5 Waste shall be stored in designated areas, protected as may be appropriate, against spillage and leachate run-off. The waste is to be clearly labelled and appropriately segregated.
- 8.6 No waste classified as green list waste in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No.259/1993, as amended) shall be consigned for recovery without the agreement of the Agency.
- 8.7 Waste for disposal/recovery off-site shall be analysed in accordance with *Schedule C* of this licence.
- 8.8 Unless approved in writing 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 **Waste Acceptance and Characterisation Procedures**
- 8.9.1 **Waste shall only be accepted at the facility, from Local Authority waste collection or transport vehicles or holders of waste permits, unless exempted or excluded, issued in accordance with Regulations made under the Waste Management Acts 1996 to 2005. Copies of these waste collection permits must be maintained at the facility.**
- 8.9.2 **Within three months of the date of grant of this licence, the licensee shall establish and maintain detailed written procedures for the acceptance and handling of wastes.**
- 8.9.3 **Waste arriving at the facility shall be inspected at the point of entry to the facility and subject to this inspection, weighed, documented and directed to the materials recovery building. Each load of waste arriving at the materials recovery building shall be inspected upon**

tipping within this building. Only after such inspections shall the waste be processed for disposal or recovery.

8.9.4 Any waste deemed unsuitable for processing at the facility and/or in contravention of this licence shall be immediately separated and removed from the facility at the earliest possible time. Temporary storage of such wastes shall be in a designated Waste Quarantine Area. Waste shall 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.

8.9.5 Waste shall be accepted at the facility only from known customers or new customers subject to initial waste profiling and waste characterisation off-site. The written records of this off-site waste profiling and characterisation shall be retained by the licensee for all active customers and for a two year period following termination of licensee/customer agreements. There shall be no casual public access to the facility.

Reason: To provide for the appropriate handling of materials and the protection of the environment.

Condition 9. Accident Prevention and Emergency Response

9.1 The licensee shall, **within six months of date of grant of this licence**, ensure that a documented Accident Prevention Policy is in place which will address the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary.

9.2 The licensee shall, **within six months of date of grant of this licence**, ensure that a documented Emergency Response Procedure is in place, which shall address any emergency situation which may originate on-site. This Procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary.

9.3 In the event of an incident the licensee shall immediately:-

- (i) isolate the source of any such emission;
- (ii) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission arising therefrom;
- (iii) evaluate the environmental pollution, if any, caused by the incident;
- (iv) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
- (v) identify the date, time and place of the incident;
- (vi) provide a proposal to the Agency for its agreement within one month of the incident occurring or as otherwise agreed by the Agency to:-
 - identify and put in place measures to avoid reoccurrence of the incident; and
 - identify and put in place any other appropriate remedial action.
- (vii) notify any other appropriate Agency or Authority.

Reason: To provide for the protection of the environment.

Condition 10. Closure, Restoration and Aftercare

- 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 shall, to the satisfaction of the Agency, decommission, render safe or remove for disposal/recovery, any soil, subsoils, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution. The licensee shall carry out such tests, investigation or submit certification, as requested by the Agency, to confirm that there is no risk to the environment.

Reason: To make provision for the proper closure of the activity ensuring protection of the environment.

Condition 11. Notifications, Records and Reports

- 11.1 The licensee shall notify the Agency by both telephone and either facsimile or electronic mail, if available, to the Agency's Headquarters in Wexford, or to such other Agency office as may be specified by the Agency, as soon as practicable after the occurrence of any of the following:
- 11.1.1 Any release of environmental significance to atmosphere from any potential emission point including bypasses.
 - 11.1.2 Any emission which does not comply with the requirements of this licence.
 - 11.1.3 Any malfunction or breakdown of key control equipment or monitoring equipment set out in *Schedule C: Control & Monitoring* which is likely to lead to loss of control of the abatement system.
 - 11.1.4 Any incident with the potential for environmental contamination of surface water or groundwater, or posing an environmental threat to air or land, or requiring an emergency response by the Local Authority.
 - 11.1.5 Any breach of the high liquid level alarm in the effluent holding tanks as referred to in Condition 3.18.

The licensee shall include as part of the notification, date and time of the incident, summary details of the occurrence, and where available, the steps taken to minimise any emissions.

- 11.2 In the event of any incident which relates to discharges to sewer, having taken place, the licensee shall notify the Local and Sanitary Authority as soon as practicable, after such an incident.
- 11.3 In the case of any incident which relates to discharges to water, the licensee shall notify the Local Authority and the South Western Regional Fisheries Board as soon as practicable after such an incident.
- 11.4 The licensee shall make a record of any incident. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident. The record shall include all corrective actions taken to; manage the incident, minimise wastes generated and the effect on the environment, and avoid recurrence. The

licensee shall as soon as practicable following incident notification, submit to the Agency the incident record.

- 11.5 The licensee shall record all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the date and time of the complaint, the name of the complainant and give details of the nature of the complaint. A record shall also be kept of the response made in the case of each complaint.
- 11.6 The licensee shall 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 facility.
- 11.7 The licensee shall as a minimum keep the following documents at the site:-
- 11.7.1.1 the licences relating to the facility;
 - 11.7.1.2 the current EMS for the facility;
 - 11.7.1.3 the previous year's AER for the facility;
 - 11.7.1.4 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 facility;
 - 11.7.1.5 relevant correspondence with the Agency;
 - 11.7.1.6 an up to date site drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and emission points
- and this documentation shall be available to the Agency for inspection at all reasonable times.
- 11.8 The licensee shall submit to the Agency, by the 31st March of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in *Schedule D* and shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 11.9 A full record, which shall be open to inspection by authorised persons of the Agency at all times, shall be kept by the licensee on matters relating to the waste management operations and practices at this site. This record shall be maintained on a monthly basis and shall as a minimum contain details of the following:
- 11.9.1 The tonnages and EWC Code for the waste materials imported and/or sent off-site for disposal/recovery.
 - 11.9.2 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).
 - 11.9.3 Details of the ultimate disposal/recovery destination facility for the waste and its appropriateness to accept the consigned waste stream, to include its permit/licence details and issuing authority, if required.
 - 11.9.4 Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.
 - 11.9.5 Details of all wastes consigned abroad for Recovery and classified as 'Green' in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No. 259/1993, as amended). The rationale for the classification must form part of the record.
 - 11.9.6 Details of any rejected consignments.
 - 11.9.7 Details of any approved waste mixing.
 - 11.9.8 The results of any waste analyses required under *Schedule C*.

- 11.9.9 The tonnages and EWC Code for the waste materials recovered/disposed on-site.
- 11.10 A record shall be kept of each consignment of process effluent removed from the facility. The record shall include the following:-
- (i) the name of the carrier;
 - (ii) details of the ultimate disposal/recovery destination;
 - (iii) the date and time of removal of process effluent from the facility;
 - (iv) the volume of process effluent in cubic metres, removed from the facility on each occasion;
 - (v) any incidents or spillages of process effluent during its removal or transportation.
- 11.11 Waste Recovery Report
- 11.11.1 The licensee shall as part of their EMP prepare a report examining waste recovery options. The report shall be submitted to the Agency for its agreement in the AER. This report shall address methods to contribute to the achievement of the recovery targets stated in national and European Union waste policies and shall include the following:-
- 11.11.1.1 proposals for the contribution of the facility to the achievement of targets for the reduction of biodegradable waste to landfill as specified in the Landfill Directive;
 - 11.11.1.2 the separation of recyclable materials from the waste;
 - 11.11.1.3 the recovery of Construction and Demolition Waste;
 - 11.11.1.4 the recovery of metal waste and WEEE;
- 11.12 A record shall be kept at the facility of the programme for the control and eradication of vermin and fly infestations at the facility. A report on programme shall be prepared and submitted to the Agency as part of the AER.

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

Condition 12. Financial Charges and Provisions

12.1 Agency Charges

- 12.1.1 The licensee shall pay to the Agency an annual contribution of €11,660, 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, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Waste Management Acts 1996 to 2005. The first payment shall be a pro-rata amount for the period from the date of this licence to the 31st day of December, and shall be paid to the Agency within one month from the date of the licence. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Waste Management Acts 1996 to 2005, and all such payments shall be made within one month of the date upon which demanded by the Agency.

12.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased the licensee shall contribute such sums as determined by the Agency to defraying its costs in regard to items not covered by the said annual contribution.

12.2 Environmental Liabilities

12.2.1 The licensee shall as part of the AER provide an annual statement as to the measures taken or adopted at the site in relation to the prevention of environmental damage, and the financial provisions in place in relation to the underwriting of costs for remedial actions following anticipated events **(including closure)** or accidents/incidents, as may be associated with the carrying on of the activity.

Reason: To provide for adequate financing for monitoring and financial provisions for measures to protect the environment.

SCHEDULE A: Limitations

A.1 Authorised Processes

The following waste related processes are authorised:

- i. The sorting and separation of waste to recover organic substances such as paper and cardboard, plastics, wood, and biodegradable waste (kitchen and canteen waste).
- ii. Sorting of metals from other wastes.
- iii. Sorting, separation and processing of mixed municipal waste, separately collected dry recyclables and non-hazardous Construction & Demolition waste to recover organic substances, inorganic materials and metals.
- iv. The drying of organic substances.
- v. The shredding of wood.
- vi. The baling, wrapping and placing of waste into containers or trailers prior to submission to a recycling facility.
- vii. The exchange of recycling at the facility.
- viii. The mixing and baling of wastes prior to transfer to another facility for disposal.
- ix. Storage of waste prior to recovery/disposal off-site

No addition to these processes is permitted unless agreed in advance with the Agency.



A.2 Waste Acceptance

Table A.1 Waste Categories and Quantities

WASTE TYPE ^{Note 1}	MAXIMUM (TONNES PER ANNUM)
Mixed municipal waste	15,500
Organic waste (kitchen and canteen waste)	6,000
Dry recyclable wastes	6,500
Non-Hazardous Construction and Demolition (C&D)	12,000
TOTAL	40,000

Note 1: Any proposals to accept other compatible waste streams must be agreed in advance with the Agency and the total amount of waste must be within that specified.

◆

SCHEDULE B: Emission Limits

B.1 Emissions to Air

Emission Point Reference No.: A5

Location: Vortex dryer in the materials recovery building

Volume to be emitted: Maximum in any one day: 86,400 m³
Maximum rate per hour: 7,200 m³

Minimum discharge height: 10 m above ground

Parameter	Emission Limit Value
Particulates	20 mg/m ³
Total Amines	10 mg/m ³
Ammonia	50 ppm v/v
Hydrogen sulphide and mercaptans (total)	5 ppm v/v

◆

B.2 Emissions to Water

There are no Emissions to Water of environmental significance.

◆

B.3 Emission to Sewer

There are no Process Effluent Emissions to Sewer.

◆

B.4. Noise Emissions

Daytime dB L _{(A)eq} (30 minutes)	Night-time dB L _{(A)eq} (30 minutes)
55 ^{Note 1}	45 ^{Note 1}

Note 1: There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at noise sensitive locations.



B.5. Ambient Air Limits

Parameter	Emission Limit Value ^{Note 1}
Total dust deposition	350 mg/m ² /day ^{Note 2}
Fine particulates (PM ₁₀)	50 ug/m ³ /day

Note 1: As measured at the boundary of the facility.

Note 2: 30 day composite sample with the results expressed as mg/m²/day.



SCHEDULE C: Control & Monitoring

C.1.1 Control of Emissions to Air

Emission Point Reference No.: A5
Description of Treatment: Air filtration

Control Parameter ^{Note 1}	Monitoring ^{Note 1}	Key Equipment ^{Note 1 & 2}
Compressed air	As required	Solenoid/diaphragm valve
Particulates	As required	Cartridge filter

Note 1: Subject to Condition 6.19 and 6.20

Note 2: The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.



C.1.2 Monitoring of Emissions to Air

Emission Point Reference No.: A5

Parameter	Monitoring Frequency	Analysis Method/Technique
Particulates	Biannually	Isokinetic/Gravimetric
Total Amines	Biannually	NIOSH Method 2010
Ammonia	Biannually	To be agreed by the Agency
Hydrogen sulphide and mercaptans	Biannually	To be agreed by the Agency

C.2.1 Control of Emissions to Water

There are no Emissions to Water of environmental significance.

C.2.2 Monitoring of Emissions to Water

There are no Emissions to Water of environmental significance.

C.2.3 Monitoring of Storm Water Emission

Emission Point Reference No.: R1, R2 and GW1- located prior to the wetland and after the lagoon

Parameter	Monitoring Frequency	Analysis Method/Technique
pH	Weekly	pH electrode/meter
Conductivity (GW1 only)	Weekly	Standard Method
Suspended Solids (GW1 only)	Weekly	Standard Method
Total Ammonia (as N) (GW1 only)	Weekly	Standard Method
Sulphate (GW1 only)	Weekly	Standard Method
Chloride (GW1 only)	Weekly	Standard Method
Heavy metals ^{Note 1} (GW1 only)	Biannually	Atomic Absorption/ICP
Visual Inspection	Daily	Sample and examine for colour and odour

Note 1: The sum of antimony, arsenic, cadmium, chromium, copper, lead, mercury, nickel, selenium, tellurium, thallium and tin.

C.3.1 Control of Emissions to Sewer

There are no Process Effluent Emissions to Sewer.

C.3.2 Monitoring of Emissions to Sewer

There are no Process Effluent Emissions to Sewer.

C.4 Waste Monitoring

Waste Class	Frequency	Parameter	Method
Process effluent	Annually	Chemical characterisation (BOD, COD, ammonia, nitrogen, sulphate, chloride organics, metals, other)	To be agreed by the Agency
Other ^{Note 1}			

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

C.5 Noise Monitoring

There is no additional noise monitoring required in this schedule.

C.6 Ambient Monitoring

Air Monitoring

Location ^{Note 1:} At least three points on the boundary.

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust deposition	Quarterly	VDI method 2119 part 2 (Bergerhoff Gauge)
Fine particulates	As required	prEN12341 method
Airborne Micro-Organisms	As required	Standardised Protocol ^{Note 2}

Note 1: Monitoring locations to be specified on drawing as required by Condition 6.14

Note 2: Monitoring to be completed as per "The Composting Association" publication "Standardised Protocol for the Sampling and Enumeration of Airborne Micro-Organisms at Composting Facilities".

Receiving Water Monitoring

Location:

Site B (just upstream of site boundary)
 Site D (just downstream of facility)

Parameter	Monitoring Frequency	Analysis Method/Technique
pH	Biannually	pH electrode/meter
Conductivity	Biannually	Standard Method
Ammonia	Biannually	Standard Method
Visual inspection	Weekly	Sample and examine for colour and odour



Groundwater Monitoring

Location:

To be agreed by the Agency and specified on drawing as required under Condition 6.14 and an

Parameter	Monitoring Frequency	Analysis Method/Technique
Total Ammonia (as N)	Biannually	Standard Method
Nitrates (as N)	Biannually	Standard Method
Conductivity	Biannually	Standard Method
Chloride	Biannually	Standard Method
Sulphates	Biannually	Standard Method
Diesel range organics	Biannually	To be agreed by the Agency



SCHEDULE D: Annual Environmental Report**Annual Environmental Report Content** ^{Note 1}

Emissions from the facility.
Waste management record.
Resource consumption summary.
Complaints summary.
Schedule of Environmental Objectives and Targets
Environmental management programme – report for previous year
Environmental management programme – proposal for current year
Pollution emission register – report for previous year
Pollution emission register – proposal for current year
Noise monitoring report summary
Ambient monitoring summary
Tank and pipeline testing and inspection report
Reported incidents summary
Energy efficiency audit report summary
Report on the assessment of the efficiency of use of raw materials in processes and the reduction in waste generated.
Report on progress made and proposals being developed to minimise water demand and the volume of process effluent discharge.
Development / Infrastructural works summary (completed in previous year or prepared for current year).
Reports on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information
Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities)
Any other items specified by the Agency.

Note 1: Content may be revised subject to the agreement of the Agency

Signed on behalf of the said Agency

on the xx day of xxxxxx, 200X

xxxxxxxxx,

Authorised Person

