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Johnstown Castle Estate
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Ireland

**WASTE LICENCE
Recommended Decision**

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| Licence Register Number: | 131-2 |
| Applicant/Licensee: | Midland Waste Disposal Company Limited |
| Location of Facility: | Clonmagaddan, Proudstown, Navan, Co. Meath |

ZNTRODUCTZON

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 transfer station and enclosed composting facility located at Clonmagaddan, Proudstown, Navan, Co. Meath. Midland Waste Disposal Company Limited collects domestic household, commercial, industrial and construction and demolition waste from Meath and North County Dublin. The licensed facility is operated as a transfer station for receipt of the wastes collected. The waste is processed (segregated, shredded, trammelled, baled, repackaged) and transferred off site for further recovery or disposal. The throughput of the facility is limited by this licence to 95,000 tonnes per annum. In addition to the material which is transferred through the facility there is currently one vertical composting unit on-site and second one is to be installed. Green waste, catering waste, cereal waste, fines from domestic municipal waste, and shredded wood waste shall be processed in the composting units.

The licensee must manage and operate the facility to ensure that the activities do not cause environmental pollution. The licensee is required to carry out regular environmental monitoring and submit all monitoring results, and reports on the operation and management of the facility to the Agency.

The licence sets out in detail the conditions under which Midland Waste Disposal Company 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, (the Acts), unless otherwise defined in this section.

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| 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. |
| Compost | 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 environmental quality classes outlined in <i>Schedule D: Standards for Compost Quality</i> , of this licence. |
| Construction and Demolition Waste | Wastes that arise from construction, renovation and demolition activities: 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. |

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| 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. |
| Emergency | Those occurrences defined in Condition 9.2 |
| 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: <ol style="list-style-type: none">an emergency;any emission which does not comply with the requirements of this licence;any exceedence of the daily duty capacity of the waste handling equipment;any trigger level specified in this licence which is attained or exceeded; and,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 2003. |

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| 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. |
| 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. |
| IPPC | Integrated Pollution Prevention & Control. |
| K | Kelvin. |
| KPa | Kilo Pascals. |
| Landfill Directive | Council Directive 1999/131/EC. |
| Leq | Equivalent continuous sound level. |
| Licence | A waste licence issued in accordance with the Acts. |
| Licensee | Midland Waste Disposal Company Limited, Clonmagaddan, Proudstown, Navan, Co. Meath |
| 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 | Meath 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 Acts. |
| 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 installation/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. |

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| 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 | Eastern Regional Fisheries Board. |
| Sanitary Authority | Meath County Council |
| 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. |
| Stabilised Biowaste | Waste resulting from the mechanical/biological treatment of unsorted waste or residual municipal waste including treated biowaste which does not comply with the environmental quality classes outlined in <i>Schedule D: Standards for Compost Quality</i> , of this licence. |
| 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. |
| 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. |
| 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, all submissions received from other parties 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 46(2) of the said Act to grant this Waste Licence to Midland Waste Disposal Company Limited to carry on the waste activities listed below at Clonmagaddan, Proudstown, Navan, Co Meath 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

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| 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

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| 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 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. MID 03/03" of the application. Any reference in this licence to "facility" shall mean the area thus outlined in red. The licensed activities shall be those carried on only within the area outlined.
- 1.5 Waste Acceptance Hours and Hours of Operation
- 15.1 Waste shall not be accepted and the facility shall not operate on Sundays or on Bank Holidays without the agreement of the Agency.
- 1.6 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.
- 1.7 This licence is for the purposes of waste licensing under the Waste Management Acts 1996 to 2003 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.8 This licence is being granted in substitution for the waste licence granted to the licensee on 13/03/2001 and bearing Waste Licence Register No: 131-1. The previous waste licence (Register No: 131-1) is superseded by this licence.

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 with the Agency.

2.2 Environmental Management System (EMS)

- 2.2.1 The licensee shall maintain an Environmental Management System (EMS). 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 maintain an EMP including a time schedule, for achieving the Environmental Objectives and Targets prepared under Condition 2.2.2.2. 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 1 1.8).

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 maintain 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 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 maintain a 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.

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 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.
- 3.3 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.
- 3.4 Sampling equipment shall be operated and maintained such that sufficient sample is collected to meet both internal monitoring requirements and those of the Agency. A separate composite sample or homogeneous sub-sample (of sufficient volume as advised) should be refrigerated immediately after collection and retained as required for EPA use.
- 3.5 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.

- 3.6 Tank and Drum Storage Areas
- 3.6.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein.
- 3.6.2 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
- 3.6.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.6.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.6.5 The integrity and water tightness **of** all the bunding structures and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee at least once every three years. This testing shall be carried out in accordance with any guidance published by the Agency.
- 3.7 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.
- 3.8 Silt Traps and Oil Separators
- The licensee shall install and maintain silt traps and **oil** separators at the facility to ensure that all storm water discharges, except roof water, from the facility pass through a silt trap and oil separator prior to discharge. The separator shall be a Class I full retention separator, unless otherwise agreed in writing with the Agency, and the silt traps and separator shall be in accordance with I.S. EN 585-2:2003 (separator systems for light liquids)
- 3.9 Firewater Retention
- 3.9.1 The licensee shall review the current firewater risk assessment to determine if the activity operating at an increased throughput should have a fire-water retention facility. The licensee shall submit the assessment and a report on the findings and recommendations of the assessment to the Agency within six months from the date of grant of this licence.**
- 3.9.2 In the event of a fire or a spillage to storm water, the site storm water shall be retained on-site. The licensee shall have regard to **any** guidelines issued by the Agency with regard to firewater retention.
- 3.9.3 The licensee shall have regard to the Environmental Protection Agency Draft Guidance Note to Industry on the Requirements for Fire-Water Retention Facilities.
- 3.10** 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 separator, shall be fitted with high liquid level alarms (or oil detectors as appropriate) from the date of grant of this licence. In particular high level alarms shall be maintained on the trade effluent (foul water) holding tanks.
- 3.1 The provision of a catchment system to collect any leaks from flanges and valves of all over ground pipes used to transport material other than water shall be examined. This shall be incorporated into a schedule of objectives and targets *set* out in Condition 2.2.2.2 of this licence for the reduction in fugitive emissions.

- 3.12** 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.
- 3.13** Site Security
- 3.13.1 Security and stockproof fencing shall be maintained around the perimeter of the facility. The base of the fencing shall be set in the ground.
- 3.13.2 The licensee shall maintain security gates at the weighbridge entrance and the general entrance.
- 3.13.3 The licensee shall remedy any defect in the gates and/or fencing as follows:
- (a) a temporary repair shall be made by the end of the working day; and
 - (b) a repair to the standard of the original gates and/or fencing shall be undertaken within three working days or as otherwise agreed with the Agency.
- 3.13.4 Gates shall be locked shut when the facility is unsupervised.
- 3.14** The licensee shall provide and maintain an impermeable concrete surface in all areas of the facility where waste is handled, stored, and vehicles parked.
- 3.15** Waste Inspection/Waste Quarantine areas.
- 3.15.1 The licensee shall provide, within three months of date of grant of this licence, and maintain a Waste Inspection Area and a Waste Quarantine Area within the Recycle Plant Building.
- 3.15.2 These areas shall be constructed and maintained in a manner suitable for the inspection of waste and be of a size appropriate for the quarantine of waste. The waste inspection area and the waste quarantine area shall be suitably and clearly segregated from each other.
- 3.16** The licensee shall maintain a weighbridge at the facility. The weighbridge shall be maintained in such condition as to accurately measure the weight of all vehicles (laden and unladen) using it.
- 3.17** No waste processing or segregation shall take place outside the Recycle Plant Building, other-than composting within the vertical composting units.
- 3.18** Vertical Composting Unit
- 3.18.1 All plant associated with the composting units (including storage bays, shredders, mixers and conveyors etc) shall be contained within a building or appropriately covered.
- 3.18.2 Raw material and compost/stabilised biowaste shall not be allowed accumulate on plant associated with the composting unit. All plant shall be cleaned at least weekly, when operational, or as agreed with the Agency.
- 3.18.3 All material entering the composting units shall be inspected prior to mixing.
- 3.18.4 The temperature within each chamber of the composting units shall be monitored continuously and recorded on a chart.
- 3.18.5 The drainage system around the composting units shall be directed to the trade effluent tanks prior to the commencement of composting on-site.

- 3.18.6** Prior to commencement of composting of material which may contain animal by-products (catering waste, municipal waste fines) the licensee shall confirm that the necessary permits/approvals have been granted under Regulation (EC) 1774/2002 as necessary.
- 3.19** Waste Handling Plant
- 3.19.1** Items of plant deemed critical to the efficient and adequate processing of waste on site (including *inter alia* waste loading vehicles and sorting lines) shall be provided on the following basis:
- **100%** duty capacity
 - **50%** additional standby capacity;
 - provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment.
- 3.19.2** Within three months from the date of grant of this licence the licensee shall 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.
- 3.19.3** The quantity of waste accepted at the facility on a daily basis shall not exceed the duty capacity of the waste handling and processing equipment on site. Any waste intake exceeding the duty capacity shall be treated as an incident.
- 3.20** Vehicle cleaning facilities shall be maintained on-site, dirty water from this facility shall be directed to the trade effluent tanks and sent off site to sewer.
- 3.21** All tanks and containers shall be labelled to clearly indicate their contents. They shall also be secured against unauthorised access.
- 3.22** The licensee shall maintain the trade effluent tanks, which shall have a minimum capacity of **8.1m³**.
- 3.23** The licensee shall upgrade within three months of date of grant of this licence and thereafter maintain a trade effluent collection system which shall collect all liquid run-off from the floor of the Recycle Plant Building, the compactors, vertical composting units, tromeels, vehicle wash area and any other areas where waste is handled or processed. The system shall as a minimum include a bund wall for separation of clean and dirty water as received by the Agency on the **20/07/2005** as part of the application.
- 3.24** The licensee shall maintain the on-site sanitary effluent treatment system (secondary treatment) through which all sanitary effluent shall pass prior to temporary storage in the trade effluent tanks awaiting transfer to sewer.
- 3.25** The licensee shall maintain a system for the detection of fire inside the Recycling Plant Building, the workshop and the office. A written record shall be maintained of the inspection, testing and maintenance of the system.
- 3.26** Metal, timber and glass may be stored outside of buildings but only in designated, contained areas. Compost/stabilised biowaste shall be stored only in designated, contained areas with seepage collection, for maximum of **72** hours following removal from the vertical composting units. All other waste temporarily stored on the facility outside of buildings shall be stored in suitable covered and sealed containers (skips/containers).
- 3.27** Unless subject to the prior agreement of the Agency a maximum of **15** enclosed waste containers (including sealed containers of compacted waste or fully enclosed collection vehicles containing waste) shall be stored at the facility

overnight. These containers shall be stored in clearly designated areas and appropriately labelled.

- 3.28 There shall be no casual public access to the facility and scavenging shall not be permitted
- 3.29 No smoking shall be allowed at the facility other than in a designated area adjoining the office building.
- 3.30 No waste shall be burned on-site
- 3.31 The licensee shall ensure that there shall be no liquid discharges from the vehicles delivering or removing waste from the facility.

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 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.
- 4.1.2 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 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 There shall be no emissions to surface water.
- 5.6 The licensee shall investigate and report within twelve months of date of grant of this licence, and thereafter as required by the Agency, on the feasibility of connecting the surface water drainage system **and/or** effluent collection system to the Local Authority surface water sewer **and/or** sewerage system as appropriate. The report shall be included in the AER.
- 5.7 The licensee shall permit authorised persons of the Agency and the Sanitary Authority to inspect, examine and test, at all reasonable times, any works and apparatus installed, in connection with the process effluent, and to take samples of the process effluent.
- 5.8 The licensee shall at no time discharge or permit to be discharged to the Sanitary Authority Waste Water Treatment Plant any liquid matter or thing which is or may be liable to set or congeal at average sewer temperature or is capable of giving off any inflammable or explosive gas or any acid, alkali or other substance in sufficient concentration to cause corrosion to sewer pipes, penstock and sewer fittings or the general integrity of the sewer.
- 5.9 In the event of any incident which relates to discharges to sewer, having taken place, the licensee shall notify the Agency, Local Authority and Sanitary Authority as soon as practicable after the incident.
- 5.10 The licensee shall notify the caretaker of Navan or Trim (as appropriate) waste water treatment plant at least one working day in advance of a scheduled discharge.

Reason: *To provide for the protection of the environment by way of control and limitation of emissions and to provide for the requirements of the Sanitary Authority in accordance with Section 52 of the Waste Management Acts 1996 to 2003.*

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 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 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer.
- 6.5 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.
- 6.6 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.
- 6.7 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.
- 6.8 The integrity of all concreted/hardstanding areas where waste is handled, deposited, processed, stored etc shall be integrity assessed within twelve months of the date of grant of licence and thereafter at least annually and reported to the Agency as part of the AER. A written record of all integrity assessments and any maintenance or remedial work arising from them shall be maintained by the licensee.**
- 6.9 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.
- 6.10 Storm water
- 6.10.1** A visual examination of the storm water discharge shall be carried out daily. A log of such inspections shall be maintained.
- 6.10.2 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.
- 6.11 Noise
- 6.11.1 The licensee shall carry out a noise survey of the site operations annually. 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 Pollution Emission Register (PER)
- The licensee shall prepare and maintain a PER for the site. The substances to be included in the PER shall be agreed by the Agency each year by reference to the list specified in the Agency's AER Guidance Note. The PER shall be prepared in

accordance with any relevant guidelines issued by the Agency and shall be submitted as part of the AER.

6.13 Litter Control

- 6.13.1 All loose litter or other waste, placed 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 10.00am of the next working day after such waste is discovered.
- 6.13.2 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.

6.14 Dust/Odour Control

- 6.14.1 All waste for disposal shall be removed from the facility within forty eight hours of its arrival on-site. At Bank Holiday weekends such waste shall be removed from the facility within seventy-two hours of its arrival on-site.
- 6.14.2 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.
- 6.14.3 Within six months of the date of grant of this licence, the licensee shall install and provide adequate measures for the control of odours and dust emissions, including fugitive dust emissions, from the facility. Installation of an odour management system shall at a minimum include the following:-
 - 6.14.3.1 Dust curtains (or equivalent approved by the Agency) shall be installed and maintained on the entry/exit points from the Recycle plant Building. All other doors in this building shall be kept closed where possible.
 - 6.14.3.2 An odour management system shall be established and maintained for all waste processing buildings and the composting units. The Agency may instruct the licensee to install an appropriate negative air pressure system and odour abatement system within a specified period where the odour management system is deemed inadequate.
 - 6.14.3.3 Provision of 100% duty capacity and 20% stand by capacity, back ups and spares must be provided for the air handling, ventilation and abatement plant.
- 6.14.4 The licensee shall not install a second vertical composting unit without the prior written agreement of the Agency and the completion of the test programme as required under condition 6.17.

6.15 Operational Controls

- 6.15.1 The floor of the waste transfer building shall be cleaned on a weekly basis and on a daily basis where putrescible waste is handled. The floor of the storage bays for recovered wastes shall be washed down and cleaned on each occasion such bays are emptied, or as a minimum on a weekly basis.
- 6.15.2 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 6.15.3 Fuels shall be stored only at appropriately bunded locations on the facility.
- 6.15.4 All tanks and drums shall be labelled to clearly indicate their contents.

6.16 Nuisance Monitoring

The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by litter, vermin, birds, flies, mud, dust and odours. The licensee shall maintain a record of all nuisance inspections.

6.17 Test Programme

6.17.1 The licensee shall prepare, to the satisfaction of the Agency, a test programme for the existing vertical composting. This programme shall be submitted to the Agency, prior to implementation.

6.17.2 This programme, following agreement with the Agency, shall be completed within three months of the commencement of operation of the composting unit.

6.17.3 The criteria for the operation of the composting unit as determined by the test programme, shall be incorporated into the standard operating procedures as approved by the Agency.

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

6.18.1 Establish all criteria for operation, control and management of the composting unit to ensure compliance with the conditions of this licence .

6.18.2 Assess the performance of any monitors on the composting unit and establish a maintenance and calibration programme for each monitor.

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

6.19 Bioaerosol Monitoring

6.19.1 Prior to the commencement of waste acceptance the licensee shall submit to the Agency the results of a baseline bioaerosol monitoring study (to include in particular, spores of *Aspergillus fumigatus* and Actinomycetes).

6.19.2 The licensee shall carry out the bioaerosol monitoring in accordance with *Schedule C: Control & Monitoring*, of this licence.

6.20 Compost quality

6.20.1 Compost quality monitoring shall be undertaken as set out in *Schedule D: Standards for Compost Quality*, of this licence.

6.20.2 Any compost not meeting the *Standards for Compost Quality specified in Schedule D*, of this licence shall be reused in the process or handled as a waste and details recorded as required under condition **11**.

| |
|---|
| <p><i>Reason:</i> To provide for the protection of the environment by way of treatment and monitoring of emissions and to provide for the requirements of the Sanitary Authority in accordance with Section 52 of the Waste Management Acts 1996 to 2003.</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 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 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.
- 8.5 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.
- 8.6 Waste acceptance and Characterisation procedures**
- 8.6.1 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 under the Waste Management Acts 1996 to 2005. Copies of these waste collection permits must be maintained at the facility.**
- 8.6.2 The licensee shall maintain detailed written procedures for the acceptance and handling of all wastes.**
- 8.6.3 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 Waste Transfer Building. Each load of waste arriving at the Waste Transfer Building shall be inspected upon tipping within this building.**

Only after such inspections shall the waste be processed for disposal or recovery.

8.6.4 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.

8.6.5 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.

8.7 Compost

8.7.1 In order not to be considered a waste, compost produced by the facility shall, unless otherwise agreed by the Agency, comply with the quality standards established in *Schedule D: Standards for Compost Quality*, of this licence. Analysis of the compost shall be in accordance with the requirements of that schedule.

8.7.2 Compost not meeting the above standard will be regarded as waste and records shall be kept of such waste.

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 with 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.

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:
- i. Any release of environmental significance to atmosphere from any potential emission point including bypasses.
 - ii. Any emission which does not comply with the requirements of this licence.
 - iii. 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.
 - iv. 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.

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 Eastern 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:-
- (i) the licences relating to the facility;
 - (ii) the current EMS for the facility;
 - (iii) the previous year's AER for the facility;
 - (iv) 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;
 - (v) relevant correspondence with the Agency;
 - (vi) 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 E* and shall be prepared in accordance with any relevant guidelines issued by the Agency.

11.9 Waste Recovery Reports

The licensee shall as part of the AER submit a report on the contribution by this facility to the achievement of the recovery targets stated in national and European Union waste policies and shall include the following:-

- a) **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;**
- b) **the separation of recyclable materials from the waste;**
- c) **the recovery of Construction and Demolition Waste; and**
- d) **the recovery of metal waste and white goods.**

- 11.10 A written record shall be kept of each consignment of trade effluent removed from the facility. The record shall include the following:**
- (c) **the name of the carrier;**
 - (d) **the date and time of removal of trade effluent from the facility;**
 - (e) **the volume of trade effluent water, in cubic metres, removed from the facility on each occasion;**
 - (f) **the name and address of the Waste Water Treatment Plant to which the trade effluent was transported; and**
 - (g) **any incidents or spillages of trade effluent during its removal or transportation.**
- 11.11 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:
- i. The tonnages and EWC Code for the waste materials imported and/or sent off-site for disposal/recovery.
 - ii. 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).
 - iii. 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.
 - iv. Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.
 - v. 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.
 - vi. Details of any rejected consignments.
 - vii. Details of any approved waste mixing.
 - viii. **The results of any waste analyses required under *Schedule D: Standard for Compost Quality*, of this licence.**
 - ix. The tonnages and EWC Code for the waste materials recovered/disposed on-site.
- 11.10 The licensee shall maintain a written record, or a record in a format to be agreed with the Agency, for each load of waste arriving at and departing from the facility. The licensee shall record the following:
- a) the time and date of arrival or departure;
 - b) the name of the carrier;
 - c) the vehicle registration number;
 - d) the name of the producer(s)/collector(s) of the waste as appropriate;
 - e) a description of the waste;
 - f) the quantity of the waste accepted at the facility, recorded in tonnes;
 - g) the name of the person checking the load;
 - h) 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;
 - i) the quantity of waste leaving the facility, recorded in tonnes;
 - j) the destination of the load; and
 - k) any other information which might be required from time to time subject to prior agreement with the Agency.

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 €1,694, 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 2003. 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 2003, 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 Sanitary Authority Charges

12.2.1 The licensee shall pay to the Sanitary Authority 0.39 cent per cubic metre of trade effluent discharged to the foul sewer or such sum as may be determined from time to time, having regard to the variations in the cost of providing drainage and the variation in effluent reception and treatment costs. **Payment to be made annually, in arrears by 28th February.**

12.3 Environmental Liabilities

12.3.1 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 and to provide for the requirements of the Sanitary Authority in accordance with Section 52 of the Waste Management Acts 1996 to 2003.*

SCHEDULE A: Limitations

A.1

The following waste related processes are authorised:

- i. Shredding, crushing, baling, repackaging processes
- ii. C & D waste recovery (incl. Screening, sorting, blending)
- iii. Temporary storage of waste
- iv. Recovery of dry recyclables
- v. Enclosed composting subject to a maximum throughput of 300 tonnes per week.

No addition to these processes are permitted unless agreed in advance by the Agency.



A.2 Waste Acceptance

Table A.1 Waste Categories and Quantities

| WASTE TYPE | MAXIMUM (TONNES PER ANNUM) |
|-----------------------------------|----------------------------|
| Household waste | 38,000 |
| Commercial and industrial waste | 33,250 |
| Construction and demolition waste | 23,750 |
| TOTAL | 95,000 ^{Note 1} |

Note 1 The individual limitation on waste streams may be varied with the agreement of the Agency subject to the overall total limit staying the same



SCHEDULE B: Emission Limits

B.1 Emissions to Air

There are no Emissions to Air of environmental significance

B.2 Emissions to Water

There are no Emissions to Water of environmental significance.

B.3 Emission to Sewer

Emission Point Reference No.: Trade Effluent Storage Tank
 Name of Receiving Waste Water Treatment Plant: Navan or Trim
 (Tankered to waste water treatment plant)

B.4 Noise Emissions

| Daytime dB(A) L_{Aeq} (30 minutes) | Night-time dB(A) L_{Aeq} (30 minutes) |
|--------------------------------------|---|
| 55 ^{Note 1} | 45 ^{Note 1} |

B.5 Dust Emissions

| Level (mg/m ² /day) ^{Note1} |
|---|
| 350 |

Note 1: 30 day composite sample with the results expressed as mg/m²/day.

SCHEDULE C: Control & Monitoring

C.1.1 Control of Emissions to Air

There are no Emissions to Air of environmental significance.

c.1.2 Monitoring of Emissions to Air

There are no Emissions to Air of environmental significance.

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.:

GWE2 (Northwest corner of site)

GWE3 (Proposed emission point east of site)

| | | Analysis Method/Technique |
|-------------------|-----------|---|
| pH | Quarterly | pH electrode/meter |
| COD | Quarterly | Standard Method |
| BOD | Quarterly | Standard Method |
| Suspended Solids | Quarterly | Standard Method |
| Total Ammonia | Quarterly | Standard Method |
| Total Nitrogen | Quarterly | Standard Method |
| Conductivity | Quarterly | Standard Method |
| Visual Inspection | Weekly | Sample and examine for colour and odour |

C.3.1 Control of Emissions to Sewer

Emission Point Reference No.:

Trade Effluent Storage Tank

Description of Treatment:

Local Authority Waste Water Treatment Plant

Equipment:

| Control Parameter | Monitoring | Key Equipment ^{Note 1} |
|-------------------|-------------------|---------------------------------|
| Oil/sludge | Visual inspection | Oil interceptor |



C.3.2 Monitoring of Emissions to Sewer

Emission Point Reference No.:

Trade Effluent Storage Tank

| Parameter | Monitoring Frequency | Analysis Method/Technique |
|---------------------------------|----------------------|---------------------------------|
| pH | Quarterly | pH electrode/meter and recorder |
| TOC | Quarterly | On-line TOC meter with recorder |
| Chemical Oxygen Demand | Quarterly | Standard Method |
| Biochemical Oxygen Demand | Quarterly | Standard Method |
| Suspended Solids | Quarterly | Gravimetric |
| Sulphates (as SO ₄) | Quarterly | Standard methods |
| Mineral oil | Quarterly | Standard Method |
| Detergents | Quarterly | Standard Method |
| Zinc | Quarterly | Standard Method |
| Copper | Quarterly | Standard Method |
| Oils, fats & greases | Quarterly | Standard Method |



C.4 Waste Monitoring

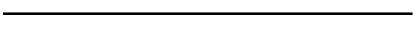
No additional Waste monitoring required.



C.5 Noise Monitoring

Monitoring Locations:

- N1 (Northeast corner of site)
- N2 (Northwest corner of site)
- N3 (Southwest corner of site)
- N4 (Southeast corner of site)
- N5 (Noise sensitive location south of site)
- N6 (Noise sensitive location northeast of site)



C.6 Ambient Monitoring

Air Monitoring

Location: D1, D2, D3, & D4

| Parameter | Monitoring Frequency | Analysis Method/Technique |
|-----------------------|--------------------------------------|-----------------------------------|
| Dust Deposition | Three times a year ^{Note 1} | Standard Method ^{Note 2} |
| Dust Direction | Monthly ^{Note 3} | Standard Method ^{Note 4} |
| Bacteria | Annually | Grab sample ^{Note 5} |
| Aspergillus fumigatus | Annually | Grab sample ^{Note 5} |

Note 1: Twice during the period May to September, or as otherwise specified in writing by the Agency.

Note 2: Standard method VDI2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute). A modification (not included in the standard) whereby 2 methoxy ethanol may be employed to eliminate interference due to algae growth in the gauge.

Note 3: Unless otherwise instructed by the Agency.

Note 4: British Standard BS 1747: Part 5 "Directional dust gauges".

Note 5: 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.

Groundwater Monitoring

Location: Kilsaran Well

| Parameter | Monitoring Frequency | Analysis Method/Technique |
|----------------------------------|----------------------|---------------------------|
| pH | Biannually | pH electrode/meter |
| COD | Biannually | Standard Method |
| Nitrate | Biannually | Standard Method |
| Total Ammonia | Biannually | Standard Method |
| Total Nitrogen | Biannually | Standard Method |
| Conductivity | Biannually | Standard Method |
| Chloride | Biannually | Standard Method |
| Fluoride | Biannually | Standard Method |
| Organohalogens ^{Note 1} | Biannually | GC-MS |
| Faecal Coliforms | Biannually | Standard Methods |
| Total Coliforms | Biannually | Standard Methods |

Note 1: Screening for priority pollutant list substances (such as US EPA volatile and/or semi-volatile compounds)

SCHEDULE D: Standards for Compost Quality

The following criteria are deemed a quality standard for the use of compost as a soil improver and should not be deemed as criteria for fertiliser. In addition N, P, K, NH₄-N, NO₃-N, pH and dry matter content should also be measured.

Compost shall be deemed unsatisfactory if more than 10% of samples fail the criteria below. No sample shall exceed 1.2 times the quality limit values set.

1. Maturity

Compost shall be deemed to be mature if it meets two of the following requirements:

- C/N ratio \leq 25
- oxygen uptake rate \leq 150 mg O₂/kg volatile solids per hour;
- germination of cress (*Lepidium sativum*) seeds and of radish (*Raphanus sativus*) seeds in compost must be greater than 90 percent of the germination rate of the control sample, and the growth rate of plants grown in a mixture of compost and soil must not differ more than 50 percent in comparison with the control sample;
- elimination of the following test organisms (used to evaluate composting system efficiency in removing plant pathogens and weed seeds during the composting process): *Plasmodiophora brassicae*, tobacco-mosaic-virus (TMV) and tomato seeds.

Guidance on test may be obtained from the German document LAGA M10 'Quality Criteria and Application Recommendations for Compost'.

2. Foreign Matter

Compost must not contain any sharp foreign matter measuring over a 2mm dimension that may cause damage or injury to humans, animals and plants during or resulting from its intended use.

| | |
|---|-------------|
| Foreign matter content as a percentage of oven-dried mass | \leq 1.5% |
| Foreign matter, maximum dimensions, in mm | 25 mm |

3. Trace Elements

Maximum Trace Element Concentration Limits for Compost^{Note 2}

| Trace Elements | (mg/kg, dry mass) |
|-----------------------------------|-------------------|
| Arsenic (As) ^{Note 1} | 15 |
| Cadmium (Cd) | 1.5 |
| Chromium (Cr) | 100 |
| Copper (Cu) | 100 |
| Mercury (Hg) | 1 |
| Molybdenum (Mo) ^{Note 1} | 5 |
| Nickel (Ni) | 50 |
| Lead (Pb) | 150 |
| Selenium (Se) ^{Note 1} | 2 |
| Zinc (Zn) | 350 |

Note 1: Monitoring of these parameters required if waste from an industrial source.

Note 2: The above alone should not be taken as an indication of suitability for addition to soil as the cumulative metal additions to soil should be first calculated.

4. Pathogens

Pathogenic organism content must not exceed the following limits:

- Escherichia coli 4,000 CFU/g
- Salmonella species absent in 25 g sample.

5. Monitoring

The licensee shall submit to the Agency for its agreement, prior to commencement of compost operations, details of methods of analyses, methods of sampling and sample numbers.

The analyses shall be carried out:

- (a) every six months for plants producing more than 500 and up to 1,000 tonnes of treated biowaste per year;
- (b) at intervals of at least every 1,000 tonnes of treated biowaste produced or every 3 months, whichever comes first, for plants producing more than 1,000 and up to 10,000 tonnes **of** treated biowaste per year;
- (c) every month for plants producing more than 10,000 tonnes **of** treated biowaste per year.

SCHEDULE E: 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 trade 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, 2005

xxxxxxxxx,

Authorised Person

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