

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

## WASTE LICENCE

<b>Waste Licence Register Number:</b>	40-1
<b>Licensee:</b>	Sorundon Ltd. trading as Irish Environmental Services Ltd.
<b>Location of Facility:</b>	520 Beech Rd., Western Industrial Estate, Naas Rd., Dublin 12

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## 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 not contravene any of the requirements of Section 40(4) of the Waste Management Act, 1996.

In reaching this decision the Agency has considered the application and supporting documentation received from the applicant, all submissions and the objection received and the reports of its inspectors.

## Part I - Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Act, 1996, the Environmental Protection Agency (the Agency), under Section 40(1) of the said Act hereby grants this Waste Licence to Sorundon Ltd. trading as Irish Environmental Services Ltd. to carry on the waste activities listed below at 520 Beech Rd., Western Industrial Estate, Naas Rd., Dublin 12, subject to eleven 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 Act, 1996*

*Class 7:* Physico-chemical treatment not referred to elsewhere in this Schedule (including evaporation, drying and calcination) which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 10 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 Act, 1996*

*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.

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## INTERPRETATION

<b>6 log<sub>10</sub>reduction</b>	A six decade reduction or a 0.000001 survival probability in a microbial population; i.e. a 99.9999% reduction.
<b>Act</b>	The Waste Management Act, 1996 (No. 10 of 1996).
<b>Adequate lighting</b>	20 lux measured at ground level.
<b>AER</b>	Annual Environmental Report
<b>Agency</b>	Environmental Protection Agency
<b>Agreement</b>	Agreement in writing.
<b>Annually</b>	All or part of a period of twelve consecutive months.
<b>Application</b>	The application by the licensee for this waste licence, including any other material submitted to the Agency in writing by the licensee between the date of the application and the date of grant of this licence.
<b>Appropriate facility</b>	A waste management facility, duly authorised under relevant law and technically suitable.
<b>Attachment</b>	Any reference to Attachments in this licence refers to attachments submitted as part of the waste licence application.
<b>BATNEEC</b>	Best Available Technology Not Entailing Excessive Cost as defined in section 5(2) of the Act.
<b>Bi-annually</b>	All or part of a period of six consecutive months.
<b>Bin</b>	Wheeled cart for the containment of healthcare risk waste.
<b>Bund</b>	A structure to provide containment for any loss of liquid from a storage tank and associated pipework. The Agency's Landfill Design Manual (draft) sets forth design criteria.
<b>Challenge Test</b>	The introduction into the system of known microbiological indicators to provide an assessment of the effectiveness of the treatment process.
<b>Condition</b>	Condition of this licence. In any case where this licence refers to a numbered condition, the reference shall be taken to mean the condition and any sub-condition therein which the context of the reference requires that reference is to be made to
<b>Containment boom</b>	A boom which can contain spillages and prevent these from entering drains or watercourses.
<b>Daily</b>	Consecutive 24 hour periods
<b>Day</b>	A period from 0000 hours to 2400 hours.
<b>Daytime</b>	0800 hours to 2200 hours

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<b>Documentation</b>	Any report, record, result, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.
<b>Drawing</b>	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
<b>Effective residence time</b>	The continuous duration of the treatment cycle at which both the operational parameters are maintained.
<b>Emission</b>	As defined in Section 5 (1) of the Act.
<b>Emission Limit Value</b>	Those limits, including concentration limits or deposition limits, contained in Schedule G.
<b>EMP</b>	Environmental Management Plan
<b>Environmental pollution</b>	As defined in Section 5 (1) of the Act.
<b>European Waste Catalogue (EWC)</b>	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 94/3/EC and any subsequent amendment published in the Official Journal of the European Community.
<b>Facility</b>	That area or areas defined under Condition 1.3 of this licence.
<b>Hazardous waste</b>	As defined in Section 4 (2) of the Act.
<b>Healthcare Risk Waste</b>	Comprises any infectious waste known or clinically assessed to be at risk of being contaminated with any infectious biological agents and sharps (eg. Needles, scalpels, sharp broken materials).
<b>IBC</b>	Intermediate bulk container
<b>Impulsive</b>	As defined in British Standard BS 4142, 1990. "Method for rating industrial noise affecting mixed residential and industrial areas".
<b>Incident</b>	Any reference to an incident in this licence means an incident as defined in Condition 3.1
<b>Instruction</b>	Instruction in writing
<b>Licence</b>	A Waste Licence issued in accordance with the Act.
<b>Licensee</b>	Sorundon Ltd. trading as Irish Environmental Services Ltd.
<b>Local authority</b>	South Dublin County Council
<b>Maintain</b>	Keep in a fit state, including such regular inspection, servicing and repair as may be necessary to adequately perform its function.
<b>Main Processing Unit</b>	Bondtech Autoclave System
<b>Monthly</b>	At least 12 times per year, once during each calendar month.

<b>Night time</b>	2200 hours to 0800 hours
<b>Recovery</b>	As defined in Section 4 (4) of the Act.
<b>Sanitary authority</b>	South Dublin County Council
<b>Specified emissions</b>	Those emissions listed in Schedule G of this licence.
<b>Specified engineering works</b>	Those engineering works listed in Schedule E of this licence.
<b>Submit</b>	Unless the context of this licence indicates otherwise, submit to the Agency in writing for agreement
<b>Trade effluent</b>	As defined in the Local Government (Water Pollution) Act, 1977
<b>Trigger level</b>	A parameter value which when achieved or exceeded requires certain actions to be taken.
<b>Waste</b>	As defined in Section 4 (1) of the Act.
<b>Waste disposal activity</b>	Includes the activities referred to in Section 4 of the Act and listed in the Third Schedule thereto.
<b>Waste oil</b>	All oil and petroleum based wastes (including hydrocarbon sludge) accepted for recovery or disposal at the facility.
<b>Waste recovery activity</b>	Includes the activities referred to in Section 4 of the Act and listed in the Fourth Schedule thereto.
<b>Weekly</b>	During all weeks of plant operation, and in the case of emissions, when emissions are taking place; with no more than one measurement in any one week.
<b>Working day</b>	Monday to Saturday 07.00 to 19.00

## Part II - CONDITIONS

### Condition 1 SCOPE

- 1.1. Waste activities at the facility shall be restricted to those listed and described in Schedule A and required by the licence.
- 1.2. Waste activities shall be restricted to the area of land outlined in red on the Site Plan Drawing No. H 04 CS/2 received by the Agency on 22 March 1999 as further information. Any reference in this licence to "facility" shall mean the area thus outlined in red.
- 1.3. Every plan, programme or proposal submitted to the Agency for agreement pursuant to any condition of this licence shall include a proposed timescale for its implementation. The Agency may modify or alter any such plan, programme or proposal in so far as it considers such modification or alteration to be necessary. Every plan, programme or proposal shall be carried out within the timescale fixed by the Agency but shall not be undertaken without the agreement of the Agency.
- 1.4. This licence is for the purposes of waste licensing under the Waste Management Act, 1996 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.5. Where the Agency considers that a non-compliance with the conditions of this licence has occurred, it may serve a notice on the licensee specifying:
  - (a) that only those wastes as specified, if any, in the notice are to be accepted at the facility after the date specified in the notice;
  - (b) that the licensee shall undertake the works stipulated in the notice, and/or otherwise comply with the requirements of the notice as set down therein, within any time-scale contained in the notice; and
  - (c) that the licensee shall carry out any other requirement specified on the notice.

When the notice has been complied with, the licensee shall provide written confirmation that the requirements of the notice have been carried out. No waste, other than that which is stipulated in the notice, shall be accepted at the facility until written confirmation is received from the Agency that the notice is lifted.

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

## Condition 2 MANAGEMENT OF THE ACTIVITY

### 2.1. Environmental Management System.

2.1.1 The licensee shall, within six months from the date of grant of this licence, submit to the Agency for its agreement a proposal for a documented Environmental Management System (EMS) for the facility. Following the written agreement of the Agency, the licensee shall establish and maintain such a system. The EMS shall be updated on an annual basis with amendments being submitted to the Agency for agreement.

2.1.2 The EMS shall include as a minimum those elements specified in the Conditions 2.2 to 2.8 below:

### 2.2. Schedule of Environmental Objectives and Targets.

2.2.1 The licensee shall, within six months from the date of grant of this licence, submit to the Agency for its agreement a Schedule of Environmental Objectives and Targets. The objectives should be specific and the targets measurable.

2.2.2 The Schedule shall address a five year period as a minimum and shall be reviewed and submitted annually to the Agency for its agreement.

### 2.3. Environmental Management Programme.

2.3.1 The licensee shall, not later than six months from the date of grant of this licence, submit to the Agency for its agreement an Environmental Management Programme (EMP). The EMP shall include a time-scale for achieving the Schedule of Objectives and Targets and shall comply with any other guidance issued by the Agency.

2.3.2 The EMP shall include, as a minimum, the information specified in *Schedule B: Content of the Environmental Management Programme*. The EMP shall be reviewed and submitted to the Agency for its agreement annually.

### 2.4. Corrective Action

2.4.1 The licensee shall, not later than three months from the date of grant of this licence, or prior to the operation of the autoclave whichever is the sooner, submit to the Agency for its agreement written Corrective Action Procedures to ensure that corrective action is taken should the specified requirements of this licence not be fulfilled.

### 2.5. Awareness and Training

2.5.1 The licensee shall, not later than six months from the date of grant of this licence, submit to the Agency for its agreement Awareness and Training Procedures for identifying training needs and for providing appropriate training, for all personnel whose work is related to the licensed facility. Written records of training shall be maintained.

### 2.6. Management Structure

2.6.1 Within six months from the date of grant of this licence, the licensee shall submit written details of the management structure of the facility for the agreement of the Agency. Any proposed changes in the management structure shall be submitted in writing to the Agency for its agreement. Written details of the management structure shall include the following information:



- (a) the names of all persons who are to provide the management and supervision of the waste activities authorised by the licence;
- (b) a named contact person for communications with the Sanitary Authority;
- (c) details of the responsibilities for each individual named under a) above;
- (d) details of the relevant experience, competence and qualifications held by each of the persons nominated under a) above; and,
- (e) contingency arrangement for the absences of the named persons from the facility.

## 2.7. Communications

2.7.1 Within six months from the date of grant of this licence, the licensee shall submit for agreement to the Agency a Communications Programme to ensure that members of the public can obtain information concerning the environmental performance of the facility at all reasonable times.

## 2.8. Annual Environmental Report.

2.8.1 The licensee shall submit to the Agency for its agreement, within twelve months from the date of grant of this licence, and within one month of the end of each year thereafter, an Annual Environmental Report (AER).

2.8.2 The AER shall include as a minimum the information specified in *Schedule C: Content of Annual Environmental Report* and shall be prepared in accordance with any relevant written guidelines issued by the Agency.

2.9. 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 suitably qualified and experienced deputy shall be present at all times during the operation of the facility.

2.10. The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and/or experience, as required and shall be aware of the requirements of this licence.

*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 NOTIFICATION AND RECORD KEEPING

3.1. The licensee shall make a written record of the following incidents:

- (a) any emission which results in the contravention of any relevant standard, including any standard for an environmental medium, or any relevant emission limit value, prescribed under any relevant enactment;
- (b) any emission which does not comply with the requirements of this licence;
- (c) any trigger level specified in this licence or in the EMS which is attained or exceeded;
- (d) any test failures of waste samples taken;

- (e) any malfunction of any environmental control system;
  - (f) any indication that contamination has, or may have, taken place;
  - (g) the cessation of waste activities at the facility for a period in excess of 28 days, and their recommencement;
  - (h) any occurrence with the potential for environmental pollution;
  - (i) the acceptance of any waste which is unsuitable for treatment by the Autoclave;
  - (j) any emergency; and
  - (k) any failure of an autoclave chamber to achieve the operating parameters during a cycle, such that the employment of the procedures identified in Condition 5.15 is considered necessary.
- 3.2. The written record of an incident as specified in Condition 3.1 shall include (a-e) as described in Condition 10.7.
- 3.3. Unless otherwise instructed in writing by the Agency, the licensee shall:
- a) notify the Agency by telephone, and by facsimile if available, as soon as practicable and in any case not later than 10.00 am the following working day after the occurrence of any incident; and
  - b) submit the written record required by this condition to the Agency as soon as practicable and in any case within five working days after the occurrence of any incident.
- 3.4. Should any further actions be taken after the date of written notification, as a result of an incident occurring, the licensee shall forward a written report of those actions to the Agency as soon as practicable and in any case no later than ten days after the initiation of those actions.
- 3.5. Unless otherwise agreed by the Agency, all documentation submitted to the Agency shall:
- (a) be sent to the Agency's headquarters;
  - (b) comprise one original and three copies;
  - (c) be formatted in accordance with any written instruction or guidance issued by the Agency;
  - (d) be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;
  - (e) be submitted in accordance to the relevant reporting frequencies specified by this licence;
  - (f) be certified as accurate and representative by the licensee; and
  - (g) in the case of results of any environmental monitoring, be accompanied by a written interpretation setting out their significance.
- 3.6. Copies of all environmental monitoring data obtained by the licensee which relates to the facility shall be forwarded to the Agency at the frequencies set out in *Schedule D Recording and Reporting to the Agency* to this licence.

- 3.1. In the event of any incident which relates to discharges to surface water, or which affects the interests of the local authority, the licensee shall notify South Dublin County Council or the Eastern Regional Fisheries Board, as appropriate, as soon as practicable by telephone and in writing (by facsimile if available) and in any case not later than 10:00 on the following working day after such an incident.
- 3.2. Unless otherwise agreed in advance with the Agency, all written records, reports and other documents required to be maintained under this licence, shall be retained by the licensee.
- 3.3. The licensee shall provide additional copies of any documentation referred to in this licence to the Agency upon written request, within the time specified by the Agency.
- 3.4. The licensee shall keep the following documents at the office referred to in Condition 4.4:
  - (a) the current waste licence relating to the facility;
  - (b) the current Environmental Management System for the facility;
  - (c) the previous year's Annual Environmental Report for the facility; and
  - (d) all written procedures produced by the licensee which relate to the licensed activities.
  - (e) written declaration by each waste producer using the facility that they have been made aware of the conditions of this licence, in particular with regards to waste segregation.
- 3.5. The licensee shall maintain a written record for each load of waste arriving at or being dispatched 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) for incoming loads, the name of the producers and collectors of the waste as appropriate;
  - (e) the identification of each bin or other container contained in the load;
  - (f) a description of the waste including the associated EWC codes;
  - (g) the quantity of waste accepted at the facility, recorded in kilograms or tonnes;
  - (h) the name of the person checking the load;
  - (i) where incoming or outgoing loads or parts thereof are removed or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed;
  - (j) a consignment note number (including transfrontier shipment notification and movement/tracking form numbers, as appropriate) ;
  - (k) the destination of outgoing waste (including facility name and waste licence or permit number as appropriate);

- (l) written confirmation that consigned waste has reached its destination and/or has been subjected to the recovery/disposal process for which it was destined, as appropriate; and
  - (m) any other information which may be required from time to time by the Agency.
- 3.6. The licensee shall maintain a written record of all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the following:
- (a) date and time of the complaint;
  - (b) the name of the complainant;
  - (c) details of the nature of the complaint;
  - (d) actions taken on foot of the complaint and the results of such actions; and
  - (e) the response made to each complainant.

*Reason: To provide for the notification of incidents, to update information on the activity and to provide for the keeping of records.*

## **Condition 4 SITE INFRASTRUCTURE**

- 4.1. The licensee shall establish all infrastructure as set out in this licence or as otherwise instructed by the Agency.
- 4.2. Site Notice Board
- 4.2.1 Within three months from the date of grant of this licence, the licensee shall provide and maintain a notice board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the identification board shall be 1200mm by 750 mm.
- 4.2.2 The board shall clearly show:
- (a) the name and telephone number of the facility;
  - (b) the normal hours of operations;
  - (c) the name, address and telephone number of the licence holder;
  - (d) an emergency out of hours contact telephone number;
  - (e) the name, address and telephone number of the operator of the facility;
  - (f) where and when environmental monitoring information relating to the facility can be obtained, and,
  - (g) the waste licence reference number.

### **4.1. Site Security**

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- 4.1.1 The licensee shall maintain the fencing as shown on Drawing No. H 04 CS/2 March 1999.
  - 4.1.2 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.
  - 4.1.3 Gates shall be kept locked shut when the facility is unsupervised.
  - 4.1.4 The security arrangements shall be as outlined in Attachment D.1(a) of the application unless otherwise agreed with the Agency.
  - 4.1.5 All key holders for the site shall be instructed on safety /emergency procedures relating to the handling and storage of hazardous wastes.
  - 4.2. The licensee shall provide and maintain an office on the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
  - 4.3. The licensee shall provide and maintain a working telephone and facsimile machine in the office specified in Condition 4.4 above.
  - 4.4. The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
  - 4.5. Fuel Storage
    - 4.5.1 The licensee shall maintain the bunded fuel storage area as described in Attachment: D.1 Infrastructure Response 2 of further information submitted to the Agency on 10 Sept. 1998. Unless otherwise agreed with the Agency the location of the fuel storage area shall be in the south western corner of the site. Fuels shall only be stored at the agreed location. The bund shall be checked weekly for structural soundness and cracking/damage by any vehicle. Any defect shall be treated as an incident.
  - 4.6. Bunding
    - 4.6.1 All waste and chemical storage areas shall be rendered impervious to the materials stored therein. In addition, tank, drum and IBC storage areas shall, as a minimum be bunded, either locally or remotely, to a volume not less than the greater of the following:
      - (a) 110% of the capacity of the largest tank or drum within the bunded area
      - (b) 25% of the total volume of substance which could be stored within the bunded area.
    - 4.6.2 All drainage from bunded areas shall be diverted for collection and safe disposal.
    - 4.6.3 All inlets, outlets, vent pipes, valves and gauges shall be within the bunded areas.
    - 4.6.4 All spillages and liquids recovered from bunded areas shall be treated as hazardous waste. All spillages shall be appropriately recovered or disposed of.
    - 4.6.5 All tanks and containers shall be labelled to clearly indicate their contents.
  - 4.7. The integrity and water tightness of all the bunds, tanks, containers and all underground pipes and tanks, and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee and shall be reported to the Agency within six months

from the date of grant of this licence. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion as part of the AER. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.

#### 4.8. Oil Interceptor

4.8.1 Within three months of the date of grant of the licence, the licensee shall submit proposals for the installation of an oil interceptor to the surface water drainage system specifying type and location of interceptor to be agreed in advance by the Agency.

4.8.2 Following Agency agreement the oil interceptor shall be installed and maintained. All records shall be kept of the maintenance of the interceptor and submitted as part of the AER.

4.9. The hardstanding areas illustrated on Drawing No. H 04 CS/2 Rev I shall drain only to the surface drainage system illustrated on Drawing No. H 04 CS/2 Rev I. No liquid other than waste oil and water shall be permitted to enter this drainage system.

4.10. All foul sewer gullies, drainage grids and manhole covers shall be painted with red squares. All surface water discharge gullies, drainage grids and manhole covers shall be painted with blue triangles. These colour codes shall be maintained so as to be visible at all times.

#### 4.11. Specified Engineering Works

4.11.1 The licensee shall submit a written proposals for all Specified Engineering Works, as defined in *Schedule E: Specified Engineering Works*, to the Agency for its agreement prior to any works being carried out. No such works shall be carried out without the prior written agreement of the Agency.

4.11.2 All specified engineering works shall be supervised by a competent person(s) agreed in advance by the Agency and that person, or persons, shall be present at all times during which relevant works are being undertaken.

4.11.3 Following the completion of all specified engineering works, the licensee shall submit to the Agency updated site drawings of the facility and any other information as may be required by the Agency.

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

## Condition 5 WASTE MANAGEMENT

5.1. For the purpose of Waste Acceptance and Handling the following applies;

Condition 5.2 to 5.16 (inclusive) relate to the Transfer Station.

Condition 5.2 to 5.7 (inclusive) and 5.17 to 5.35 (inclusive) relate to the Healthcare Risk Waste Treatment Process.

5.1. Except where prior agreement is received from the Agency, waste shall only be accepted at the facility between 7.00 and 19.00 hours Monday to Saturday. Any operation at the facility outside of the hours of a normal working day or on a Sunday shall be notified to the Agency by 10:00 on the morning of the next working day. The notification shall detail the operations carried out, the reason for carrying them out and the hours during which they were carried out.

- 5.2. Waste shall only be stored at the facility in designated and secure storage areas. Within three months from the date of grant of this licence, the licensee shall submit a report and drawing illustrating the designated waste storage areas for agreement with the Agency.
- 5.3. All containers shall be uniquely marked using indelible or other permanent markings to clearly indicate their contents. All previous or irrelevant markings and/or labels shall be removed or obliterated. Each container shall be tracked such that its location, whether at or away from the facility, may be determined at all times.
- 5.4. All containers accepted at the facility shall be whole and sound. Any leaking or otherwise ruptured containers shall immediately be overdrummed or the contents transferred to a sound container in a manner which will not adversely affect the environment. Any spillages should be cleaned up so as not to adversely affect the environment or the performance of the oil interceptor. Within three months of the date of grant of this licence, a procedure for undertaking this activity shall be submitted to the Agency for its agreement.
- 5.5. No waste shall have a retention time in the waste transfer station in excess of three months.
- 5.6. Waste sent off-site for recovery or disposal shall only be conveyed to a waste contractor, as agreed by the Agency. The ultimate recovery or disposal facility for all wastes shall be agreed in advance with the Agency. All wastes removed off site for recovery or disposal shall be transported from the facility to the consignee in a manner which will not adversely affect the environment.
- 5.7. Except where prior written agreement is received from the Agency, only those waste types and quantities listed in *Schedule H: Waste Types* shall be accepted at the facility.
- 5.8. The procedure for waste acceptance and waste handling shall be as detailed in Attachment E.3 of the waste licence application and Appendix 1 of further information received on 10 Sept.1998, or as otherwise agreed in writing with the Agency. Any waste deemed unsuitable and/or in contravention of this waste licence shall be immediately separated and at the earliest possible time removed for recovery or disposal at an alternative appropriate facility.
- 5.9. No hazardous waste of one category shall be mixed with hazardous waste of another category or with non hazardous waste.
- 5.10. The maximum amount of waste stored at the facility shall not exceed 130,000 litres (or equivalent in m<sup>3</sup>) at any one time. Wastes to be stored only in the racked shelving so as not to impede access.
- 5.11. All waste accepted at the facility for the purpose of storage prior to recovery or disposal at the facility or elsewhere shall be classified as per "Recommendations on the Transport of Hazardous Goods: Model Regulations", tenth revised edition, United Nations, 1997, prior to its acceptance at the facility. All such waste shall be stored in bunded areas (Condition 4.8) or as otherwise outlined in Condition 5.16.
- 5.12. Subject to Condition 5.12 and the layout in Drawing No. H 04 CS /1<sup>A</sup> (12 Jul 95), appropriate arrangements shall be made for the storage of incompatible substances. The arrangements shall ensure that no mixing of incompatible substances, as a result of spillages or otherwise, shall take place.
- 5.13. All 200-litre drums shall be stored on pallets or shelves to a maximum stacking height of three drums within a bunded area in accordance with Condition 4.8. IBCs shall be stored to a maximum stacking height of three containers. During storage, each drum or IBC shall be accessible for identification purposes.
- 5.14. The licensee shall, prior to commencement of waste activities on site, submit to the Agency for its agreement a procedure to deal with the emptying and cleaning out of the autoclave in the

event of a failure to achieve and maintain the operating parameters, due to a machine fault, such that any necessary maintenance of the autoclave can be safely carried out.

5.15. Asbestos waste

5.15.1 The transfer station shall only be used for the temporary storage of asbestos waste prior to its removal for final disposal.

5.15.2 Before acceptance at the site, all fibrous asbestos waste and dust shall have been enclosed in sealed plastic bags, doubled wrapped, of a minimum thickness of 500 gauge, or other sealed containers as approved in advance by the Agency. "Hard" waste shall have been wrapped in heavy duty plastic and sealed, in a manner approved in advance with the Agency.

5.15.3 All asbestos waste received shall be carefully loaded into the skip or other container used for bulking-up the waste, or into any building or other structure used for the temporary storage of the waste. Care shall be taken in handling the waste that no damage is caused to any plastic bags or wrapping such as to permit the escape of fibres and dust. Any damage shall be recorded as an incident.

5.15.4 Asbestos waste shall be placed in lockable steel containers or skips immediately on arrival at the site, or into dedicated buildings/structures for temporary storage. Buildings and containers shall remain locked and skips covered at all times that waste is not being placed in them. No waste shall be deposited or allowed to accumulate outside the containers or buildings being used for waste storage. Containers/buildings used to store asbestos shall not be used for any other purpose.

5.15.5 Containers and/or any building or structure holding the asbestos waste before onward transport shall be of a design suitable to the washing and cleansing without lodgement of debris or fibres and secure from escape of fibres or dust. The design should also ensure maximum protection from accidental or deliberate damage.

5.15.6 Not more than one container shall be in use at any one time. Full containers shall be removed as soon as operationally possible and, in any case, at no longer than three monthly intervals.

5.15.7 Within three months of the date of grant of this licence, the licensee shall submit proposals to the Agency for its prior agreement for monitoring for asbestos fibres and dust in air adjacent to the operational area. The results shall be recorded and kept in the site office for inspection by the Agency.

5.16. Except where prior written agreement is received from the Agency the following waste types only, as described in E.1.2 as clarified in applicants correspondence of 22 March 1999, shall be accepted at the facility.

- (a) Group A - human tissues (no recognisable body parts) including blood, tissues from veterinary centres, hospitals or laboratories and related swabs and dressings; infectious waste materials which pose a risk to those handling them; and soiled surgical dressings, swabs and all other soiled waste from treatment areas.
- (b) Group B - discarded syringes, needles, cartridges, broken glass and other sharps instruments.
- (c) Group C- microbiological cultures and potentially infected waste from pathology departments and other clinical or research laboratories.

5.17. Waste shall be processed in the autoclave at a maximum rate of one tonne per hour.



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## 5.18. Acceptance and Handling

- 5.18.1 The procedure for waste acceptance shall be as described in Attachment: Section E received on 17 May 1999 or as otherwise agreed with the Agency. In addition to the procedure above, the licensee shall submit, prior to the operation of the autoclave, proposals for determining acceptable waste including the scanning for radioactivity. The licensee shall be responsible for ensuring that no unacceptable waste is placed into the autoclave unit.
- 5.18.2 Each container accepted at the facility shall be uniquely identifiable by visual or other means. Each container shall be tracked such that its location may be determined at all times.
- 5.18.3 The procedure for the diversion of unacceptable healthcare risk waste and the disposal of wheeled cart washings shall be as outlined in Attachment: Section E Waste Acceptance and Handling (Autoclave) 3 (a) submitted on 17 May 1999.
- 5.18.4 Prior to the operation of the Autoclave, the licensee shall submit to the Agency for its agreement a procedure for the handling of the untreated and treated healthcare risk waste.
- 5.18.5 The licensee shall, prior to the operation of the Autoclave submit to the Agency for agreement a procedure for dealing with the handling and processing of previously processed healthcare risk waste in the event of test failures.
- 5.18.6 Waste shall only be stored indoors. All containers shall be readily identifiable as to their contents and associated hazards.

## 5.19. Autoclave Process

- 5.19.1 The Autoclave processing area shall have a controlled contaminated area and designated quarantine store, the locations of which shall be agreed with the Agency prior to the operation of the Autoclave unit.
- 5.19.2 All waste accepted at the facility shall be processed as detailed in Attachment: Section D Process Efficacy received by the Agency on 17 May 1999 and on 26 May 1999. Any waste deemed unsuitable for such processing and/or in contravention of this waste licence shall be immediately separated, stored in the designated quarantine store and at the earliest possible time removed from the facility to an alternative appropriate facility. The quarantine store shall be kept locked at all times except during movement of waste into or out of the store. Waste shall be stored such that it will avoid putrefaction, odour generation, the attraction of vermin and any other nuisance or objectionable condition. The use of the quarantine store shall be reported in the AER or otherwise as requested by the Agency.
- 5.19.3 During operation of the Autoclave the process control parameters shall be continuously monitored so as to ensure that temperatures and residence times detailed in Attachment: Section D Process Efficacy received by the Agency on 17 May 1999 and 26 May 1999 are maintained within the established limits. Continuous records shall be kept of the following process control parameters:-
  - (a) operating cycle;
  - (b) the temperature during the complete cycle inside the Autoclave chamber;
  - (c) the pressure during the complete cycle inside the Autoclave chamber;
  - (d) the effective residence time of waste inside the processing unit (autoclave); and

- (e) the mode of operation (automatic or maintenance).

These records shall be held on site for a minimum of six months and made available for inspection by the Agency or other party at all reasonable times. The waste temperature and the effective residence time calculation shall be mechanically verified monthly, or at a frequency to be agreed with the Agency, and reported as part of the AER.

- 5.1. No waste shall be stored at the facility in other than designated storage areas in the Healthcare Risk Waste Treatment Area illustrated on Drawing No. H 04 CS/2 Rev I May 1999. Details of the storage arrangements shall be submitted to the Agency for its agreement, prior to the operation of the Autoclave system. In any case, no waste, other than that stored in the quarantine store, shall be stored for longer than 36 hours.
- 5.2. Subject to Condition 7.7.8 all spillages of healthcare risk wastes shall be cleaned up so as to prevent spilled fluid draining to sewer.
- 5.3. Commissioning tests
- 5.3.1 Prior to any waste being processed in the Autoclave at the facility, the licensee shall carry out commissioning tests to prove the efficacy of the process and to determine its operating parameters with respect to residence time and temperature. A procedure for the completion of commissioning tests and for the establishment of operating parameters shall be submitted for agreement with the Agency prior to such tests commencing.
- 5.3.2 A report on the commissioning tests shall be submitted to the Agency. The report shall;
- (a) describe the programme as carried out;
  - (b) provide all analytical results obtained;
  - (c) concisely interpret those results; and
  - (d) detail the parameter settings by which the process will be operated.
- 5.3.3 Other than for commissioning, healthcare risk waste shall not be processed at the facility until the Agency has confirmed its satisfaction, in writing, with the commissioning tests as reported upon. All healthcare risk waste processed during commissioning shall be disposed of at an agreed appropriate facility.
- 5.4. Process Efficacy
- 5.4.1 The process shall be operated so as to achieve microbiological inactivation and disintegration of healthcare risk waste as follows;
- a) inactivation of vegetative bacteria, fungi, lipophilic/hydrophilic viruses, parasites and mycobacteria at a 6 log<sub>10</sub> reduction or greater; and
  - b) inactivation of *Bacillus stearothermophilus* spores or *Bacillus subtilus* spores at a 6 log<sub>10</sub> reduction or greater, and
  - c) the disintegration of waste. Sharps shall be destroyed such that particles no larger in any dimension than 15mm exist after shredding. For other wastes no particle of a dimension exceeding 25mm shall remain after shredding.
- 5.4.2 The process efficacy shall be proved within two months of commissioning tests commencing and a report shall be submitted to the Agency within five days of all

- analytical results being obtained. The report shall at least satisfy Condition 5.23.2 (a), (b) and (c).
- 5.4.3 The process efficacy shall be subsequently proved within twelve months from the date of grant of the licence and annually thereafter. Such annual or other efficacy testing programmes shall be submitted to the Agency for its agreement and subsequently reported upon as part of the AER. The report shall at least satisfy Condition 5.23.2 (a), (b), (c) and (d).
- 5.5. All processed healthcare risk waste shall be held at the facility in fully enclosed containers to be sealed daily, until such time as each day's batch test results from the analysis carried out under Schedule F.3 confirm its successful treatment.
- 5.6. Should any of the samples taken for the purposes of Condition 5.24 and 5.25 indicate test failure, the following actions shall be taken:
- (a) the batch of processed waste being held shall be further processed and analysed;
  - (b) all of the sampling and analysis specified in *Schedule F.3* shall be carried out daily for the next four consecutive working days;
  - (c) should this additional sampling and analysis indicate the continued presence of the relevant micro-organisms, the acceptance and processing of healthcare risk waste shall cease until written notice from the Agency agreeing to its resumption is received;
  - (d) a written report on the test failures shall be submitted to the Agency within three days of the availability of analytical results and at most within 7 days of the batch being processed.
- 5.2. The licensee shall, prior to the commission of the Autoclave, submit to the Agency for its agreement a procedure for the handling and reprocessing of waste in the event of test failure.
- 5.3. Microbiological inactivation shall be routinely verified by carrying out the testing specified in Schedule F.3. The Autoclave shall be operated such that viable micro-organisms specified for processed waste in Analysis method or technique of Table F.3.2 in Schedule F.3 are not present in the processed waste.
- 5.4. The licensee shall operate and maintain all plant including the autoclave, shredder and compactor in accordance with the manufacturers instruction and as outlined in Attachment: J.1 Maintenance Programme received on 17<sup>th</sup> May 1999.
- 5.5. All testing of waste samples and indicator organisms shall be carried out by a laboratory to be agreed in advance with the Agency.
- 5.6. The licensee shall, not later than three months from the date of grant of licence, submit to the Agency for agreement a sampling and testing regime for the examination of shredded processed waste in relation to particle size.
- 5.1. The waste processing equipment shall be cleaned at least daily and prior to any routine or emergency maintenance as specified in Attachment: Section J Monitoring received by the Agency on 17 May 1999.
- 5.2. All healthcare risk waste removed off site shall be accompanied by a consignment note or a signed certificate of analysis from the testing laboratory as appropriate.
- 5.3. The ultimate recovery or disposal facility for processed healthcare risk waste shall be agreed in advance with the Agency.

- 5.4. The licensee shall, within twelve months from the date of grant of this licence, submit a report identifying options for the recovery of processed healthcare risk waste to the Agency for its agreement.

*Reason: To provide for the acceptance and management of wastes authorised under this waste licence*

## **Condition 6 ENVIRONMENTAL NUISANCES**

- 6.1. The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by vermin and odours. Written records shall be made of all inspections and any actions taken as a result of these inspections.
- 6.2. The licensee shall ensure that all vehicles delivering waste to or removing waste from the facility are fully enclosed and clean and shall not give rise to offensive odours or other nuisance.
- 6.3. The licensee shall ensure that the activities shall be carried out in a manner such that odours do not result in significant impairment of, or significant interference with, the environment beyond the facility boundary.
- 6.4. The licensee shall ensure that vermin do not give rise to nuisance at the facility or the immediate environment of the facility.
- 6.5. All loose litter accumulated within the facility and its environs shall be removed and appropriately disposed of on a daily basis.

*Reason: To provide for the control of nuisances.*

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## Condition 7 EMISSIONS AND ENVIRONMENTAL IMPACTS

- 7.1. No specified emission from the facility shall exceed the emission limit values set out in *Schedule G: Emission Limits*.
- 7.2. All treatment, abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions supplied by the manufacturer/supplier or installer. Written records of the calibrations shall be made and kept by the licensee.
- 7.3. Emissions to atmosphere
- 7.3.1 There shall be no air emission of environmental significance from the facility.
- 7.3.2 Within six months from the date of grant of this licence, the licensee shall submit proposals for the assessment of fugitive emissions from the facility for agreement with the Agency. The assessment shall be carried out within six months of agreement on the proposals being reached and, on completion of the assessment, a final report, including recommendations and a programme for implementation, shall be submitted for agreement with the Agency.
- 7.3.3 During the commissioning phase of the Autoclave, an assessment of potential air emissions and odours shall be carried out; the scope of which shall be agreed in advance with the Agency. On completion of the assessment a final report outlining the results shall be submitted to the Agency. In the event that the assessment identifies any air emissions, proposals for their abatement, which may include a HEPA filter, to meet the emission limits outlined in Schedule G shall be submitted prior to the processing of waste in the autoclave to the Agency for its agreement. The operation and maintenance of any proposed abatement equipment shall also be submitted to the Agency for its agreement.
- 7.3.4 Emission limit values to atmosphere in this licence shall be interpreted in the following way:
- 7.3.4.1 For non-continuous monitoring:
- (a) For any parameter where, due to sampling/analytical limitations, a 30 minute sample is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value.
  - (b) For all other parameters, no 30 minute mean value shall exceed the emission limit value.
  - (c) For flow, no hourly or daily mean shall exceed the relevant limit value.
- 7.3.5 The concentration limits for emission to atmosphere specified in this licence shall be based on gas volumes under standard conditions of:
- Temperature 273K, pressure 101.3kPa (no correction for oxygen or water content).
- 7.1.1 Emissions to atmosphere shall only be made at locations agreed in advance with the Agency following the assessment in Condition 7.3.3 above.
- 7.2. There shall be no direct emissions to groundwater.

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- 7.3. There shall be no emissions from the processed healthcare risk waste compactors.
- 7.4. The licensee shall ensure that the activities shall be carried out in a manner such that noise does not result in significant impairment of, or significant interference with, amenities or the environment beyond the facility boundary. There shall be no clearly audible tonal or impulsive component in the noise emissions from the facility at the facility boundary.
- 7.5. Emissions to sewer shall be subject to the following conditions:
- 7.5.1 No specified discharge or emission to sewer shall exceed the emission limit value set out in *Schedule G: Emission Limits*. There shall be no other discharge or emission to sewer of environmental significance.
  - 7.5.2 Monitoring and analyses of each discharge or emission to sewer shall be carried out as specified in *Schedule F: Monitoring*.
  - 7.5.3 Monitoring and analytical equipment shall be operated and maintained as necessary so that monitoring accurately reflects the discharge or emission.
  - 7.5.4 No substance shall be present in such concentrations as would constitute danger to sewer maintenance personnel working in the sewerage system or would be damaging to the fabric of the sewer or as would interfere with the biological functioning of a downstream waste water treatment works.
  - 7.5.5 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 discharge or emission, and to take samples of the discharge or emission.
  - 7.5.6 No discharge or emission to sewer shall take place which gives rise to any reaction within the sewer or to the liberation of by-products which may be of environmental significance.
  - 7.5.7 The licensee shall ensure that the discharge shall not contain dissolved methane, petroleum spirits or organic solvents (including chlorinated organic solvents) at concentrations which would give rise to flammable or explosive vapours in the sewer.
  - 7.5.8 Non-trade effluent wastewater (e.g. firewater, accidental spillage) which occurs onsite shall not be discharged to the sewer without the prior authorisation of the Sanitary Authority.
  - 7.5.9 The licensee shall provide and maintain an inspection chamber in a suitable position in connection with each pipe through which a discharge or emission is being made. Each such inspection chamber or manhole shall be constructed and maintained by the licensee so as to permit the taking of samples of the discharge or emission.
  - 7.5.10 The licensee shall submit the monitoring results to the Sanitary Authority on an annual basis.
  - 7.5.11 The trade effluent shall be screened prior to discharge to remove gross solids and avoid blockages in the sewer.
  - 7.5.12 The trade effluent shall not contain active viruses, pathogens and / or unsterilised body fluids.
  - 7.5.13 Results of the microbiological screening programme specified in *Schedule F: Monitoring* of this licence shall be reported to the Sanitary Authority on a quarterly basis.

7.5.14 Materials, liquids and / or sludges classified as hazardous waste by the second schedule of the Waste Management Act, 1996 may not be discharged to sewer.

7.5.15 The licensee shall install and maintain a sampling point / inspection chamber at a point on the foul drain that contains solely trade effluent, that does not contain domestic effluent. For the purposes of these consent condition this point shall be labelled FW -1.

7.5.16 Emission limits for emissions to sewer shall be interpreted as follows:

For continuous monitoring:

No flow value shall exceed the specified limit.

For non-continuous monitoring:

No pH value shall deviate from the specified rate.

No temperature value shall exceed the emission limit value.

For parameters other than pH, temperature and flow, eight out of ten consecutive results, calculated as daily mean concentration or mass emission values on the basis of 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.

For parameters other than pH, temperature and flow, no grab sample value shall exceed 1.2 times the emission limit value

*Reason: To control emissions from the facility and provide for the protection of the environment*

## Condition 8 DECOMMISSIONING AND AFTERCARE

8.1. Decommissioning of the plant at the facility shall be as outlined in Attachment G.1 submitted on 22 March 1999. A proposal for an Aftercare Plan for the facility shall be submitted to the Agency for its agreement within six months of the date of grant of the licence. The licensee shall update this plan when required in writing by the Agency and submit proposed amendments to the Agency for its agreement.

*Reason: To provide for decommissioning of the facility and aftercare of the site on which the facility is located.*

## Condition 9 ENVIRONMENTAL MONITORING

9.1. The licensee shall carry out such monitoring and at such frequencies as set out in *Schedule F: Monitoring* and as specified by the conditions of this licence.

9.2. The licensee shall provide safe and permanent access to all sampling and monitoring points as required by the Agency.

- 9.3. Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturers instructions (if any) so that all monitoring results accurately reflect any emission or discharge or other environmental parameter.
- 9.4. The licensee shall amend the frequency, locations, methods and scope of monitoring, sampling, analyses and investigations only upon the written instruction of the Agency and shall provide such information concerning such amendments as may be requested in writing by the Agency. Such alterations shall be carried out within any timescale nominated by the Agency.
- 9.5. Unless otherwise agreed in writing with the Agency, a written record shall be kept of the names, qualifications and a summary of relevant experience of all persons who carry out any sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring.
- 9.6. The licensee shall maintain all sampling and monitoring points so that they may be used for the representative sampling and monitoring of emissions from the facility.

*Reason: To ensure compliance with the requirements of other conditions of this licence by provision of a satisfactory system of measurement and monitoring of emissions*

## **Condition 10 CONTINGENCY ARRANGEMENTS**

- 10.1. The licensee shall, within six months from the date of grant of this licence, submit a written Emergency Response Procedure (ERP) to the Agency for its agreement. The ERP shall address any emergency situation which may originate on the facility and shall include provision for minimising the effects of any emergency on the environment.
- 10.2. In addition to the contingency arrangements set out in Attachment K of the application, the licensee shall within six months of the date of grant of this licence, submit proposals for contingency arrangements in the case of contaminated air, surface water, groundwater and any other environmental media.
- 10.3. 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 in an appropriate manner.
- 10.4. All significant spillages occurring at the facility shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects.
- 10.5. No waste shall be burnt within the boundaries of the facility. A fire at the facility shall be treated as an emergency. Immediate action shall be taken to extinguish it and the appropriate authorities notified.
- 10.6. The licensee shall carry out a risk assessment to determine the requirements at the facility for fire fighting and fire water retention facilities and, within six months from the date of grant of this licence, submit a report, including recommendations, on the risk assessment to the Agency for its agreement. This assessment shall include an examination of the existing arrangements for storage of fire water. The Chief Fire Officer of South Dublin County Council shall be consulted by the licensee during this assessment.
- 10.7. In the event that any monitoring, sampling or observations indicate that an incident has, or may have, taken place, the licensee shall immediately:
  - (a) identify the date, time and place of the incident;
  - (b) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission;



- (c) isolate the source of the emission;
- (d) evaluate the environmental pollution, if any, caused by the incident;
- (e) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
- (f) provide a proposal to the Agency for agreement within one month to:
  - 1. identify and put in place measures to avoid reoccurrence of the incident, and;
  - 2. identify and put in place any other appropriate remedial action.

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

## **Condition 11 CHARGES AND FINANCIAL PROVISIONS**

### 11.1. Agency charges

- 11.1.1 The licensee shall pay to the Agency an annual contribution of £10,457 or such sum as the Agency from time to time determines, towards the cost of monitoring the activity or otherwise in performing any functions in relation to the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996. The licensee shall in 2000 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Consumer Price Index from the date of the grant of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 1999, the licensee shall pay a pro rata amount from the date of grant of this licence to 31st December 1999. This amount shall be paid to the Agency within one month from the date of grant of this licence.
- 11.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased due to an incident occurring on or adjacent to the facility and associated with the facility, the licensee shall contribute such sums as determined by the Agency to defraying its costs.

### 11.2. Environmental Liabilities

- 11.2.1 The licensee shall arrange for the completion of a comprehensive and fully costed Environmental Liabilities Risk Assessment for the facility which will address liabilities arising from the carrying on of the activities to which this licence relates or in consequence of ceasing to carry on those activities. A report on this assessment shall be submitted to the Agency for agreement within six months of date of grant of this licence.
- 11.2.2 Within nine months of the date of grant of this licence, the licensee shall make a Proposal for Financial Provision to the Agency for its agreement to cover any liabilities incurred by the licensee in carrying on the activities to which this licence relates or in consequence of ceasing to carry on those activities. Such provision shall be maintained unless otherwise agreed in writing by the Agency.
- 11.2.3 The amount of financial provision, held under Condition 11.2.2 shall be reviewed and revised as necessary, but at least annually. Any proposal for such a revision shall be submitted to the Agency for its agreement.

11.2.4 The licensee shall within two weeks of purchase, renewal or revision of the financial provision required under Condition 11.2.2, forward to the Agency written proof of such indemnity.

11.3. Sanitary authority charges

11.3.1 Sanitary authority charges as follows shall be paid to South Dublin County Council. The charges will be adjusted from time to time by South Dublin County Council in response to increased costs in providing drainage and monitoring.

Charge per cubic metre of trade effluent	0.28 p (note charges under this section are subject to price variation)
Payment frequency	Quarterly
Annual monitoring costs	£1,200.00 (note charges under this section are subject to price variation)

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

## SCHEDULE A Waste Activities

Activities authorised by the licence shall be restricted to those described below.

### WASTE MANAGEMENT ACT, 1996: THIRD SCHEDULE *Note 1*

**Class 7**      **Physico-chemical treatment not referred to elsewhere in this Schedule (including evaporation, drying and calcination) which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 10 of this Schedule:**

This activity is limited to the treatment of healthcare risk waste involving the sterilisation of waste by means of a Bondtech autoclave followed by shredding and compaction of the shredded material as described in the application and controlled by this licence.

**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 was produced:**

This activity is limited to the provision of interim storage of hazardous and non-hazardous waste prior to transport for disposal.

**Note 1:** Any reference to a Class is to be taken as being a class in the Third Schedule of the Waste Management Act, 1996.

### WASTE MANAGEMENT ACT, 1996: FOURTH SCHEDULE *Note 2*

**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 was produced:**

This activity is limited to the provision of interim storage of hazardous and non-hazardous waste prior to transport for recovery.

**Note 2:** Any reference to a Class is to be taken as being a class in the Fourth Schedule of the Waste Management Act, 1996

## SCHEDULE B Content of the Environmental Management Programme

### Environmental Management Programme

#### Details of Operator

Name and address of operator and site. Included should be contact names in respect of persons with managerial responsibility for site operations, including the facility manager. Relevant telephone numbers should also be given. All relevant drawings should be included in the EMP.

#### Types of Waste Accepted

A detailed description of the types of waste that can be accepted at the facility.

#### Quantity of Wastes Accepted

Details should be given on the annual quantity of waste taken into the facility.

#### Engineering Details

Details of all significant site engineering works should be included. Where applicable the information should cover:

- fencing, gates and other security
- site access roads and secondary site roads
- offices, fuel stores etc.
- site infrastructure etc.

#### Operational Matters

These should include:

- description of the operations
- measures for the control of environmental nuisances
- measures for the control of emissions
- site opening and operating times
- access control
- waste acceptance procedures
- procedures for dealing with unacceptable wastes
- equipment to be utilised
- site personnel, including qualifications, duties and responsibilities
- monitoring and maintenance procedures
- trigger levels for emissions
- operational and safety rules (including safety statement)
- emergency procedures

**Objectives and Targets**

Timescale for achieving the objectives and targets listed in the Schedule of Objectives and Targets

Designation of Responsibility for Achieving Targets and Objectives

**Other items specified by the Agency**

**SCHEDULE C Content of the Annual Environmental Report**

Reporting Period.

Waste activities carried out at the facility.

Quantity and composition of waste received, disposed of and recovered during the reporting period and each previous year.

Waste sent off site for recovery or disposal including waste contractors and final destination.

Summary report on emissions.

Summary of results and interpretations of environmental monitoring, including plans of all monitoring locations including 12 digit grid references..

Resource and energy consumption summary.

Proposed development of the site and timescale of such development.

Report on development works undertaken during the reporting period and those proposed during the coming year.

Estimated annual and cumulative quantity of indirect emissions to groundwater.

Schedule of Environmental Objectives and Targets for the Forthcoming Year - Report and Proposal.

Report on the progress towards achievement of the Environmental Objectives and Targets contained in the previous year's report.

Full title and a written summary of any procedures developed by the licensee in the year which relates to the operation of the facility.

Environmental Management Programme - Report and Proposal.

Environmental Objectives and Targets for the forthcoming year - Report and Proposal.

Tank, pipeline and bund testing and inspection report.

Reported incidents and complaints summary.

Report on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information.

Use of the quarantine store for rejected waste.

Report on rejected waste - handling and final disposal.

Process efficacy - microbiological inactivation and disintegration of healthcare risk waste.

Monitoring of emissions and processed healthcare risk waste.

Any other items specified by the Agency.

**SCHEDULE D  
Agency****Recording and Reporting to the**

**Table D.1 Recurring Reports**

<b>Report</b>	<b>Reporting Frequency (Note 1)</b>	<b>Report Submission Date</b>
<b>Environmental Management System Updates</b>	Annually	One month after the end of the year reported on.
<b>Annual Environment Report (AER)</b>	Annually	Twelve months from the date of grant of licence and one month after the end of each year thereafter.
<b>Record of Incidents</b>	As they occur	Within five days of the incident.
<b>Cessation/re-activation of an activity in accordance with Condition 3.9</b>	As they arise	Fourteen days in advance of cessation/re-activation
<b>Specified Engineering Works reports</b>	As they arise	Prior to the works commencing.
<b>Bund, tank and container integrity assessment</b>	3 yearly	Six months from the date of grant of licence and one month after end of the year being reported on.
<b>Underground pipe and tank integrity assessment</b>	5 yearly	Eighteen months from the date of grant of licence and one month after end of the year being reported on.
<b>Noise Monitoring</b>	Annually	One month after end of the year being reported on.
<b>Monitoring of sewer discharge</b>	Quarterly	14 days after end of the period being reported on.
<b>Air Monitoring</b>	Bi annually	14 days after end of the period being reported on.
<b>Microbiological inactivation and destruction of waste</b>	Annually	Two months from the date of grant of licence and one month after the end of each year thereafter.
<b>Monitoring of processed waste and challenge tests</b>	Quarterly	14 days after end of the year being reported on.

Note 1. Unless altered at the request of the Agency.

**Table D.2 Once-off Reports**

<b>Report and Contents</b>	<b>Condition Number</b>	<b>Report Submission Date (Number of months within which to submit, from date of granting of licence, unless otherwise specified)</b>
<b>1. Environmental Management System</b>		
EMS proposals	2.1.1	6
Schedule of Environmental Objectives and Targets	2.2.1	6
Environmental Management Programme	2.3.1	6
Corrective Action	2.4.1	3
Awareness and Training	2.5.1	6
Management Structure	2.6.1	6
Communications Programme	2.7.1	6
<b>2. Proposals for the installation of an oil interceptor</b>	4.10.1	3
<b>3. Report on waste storage areas</b>	5.3	3
<b>4. Proposals for monitoring of asbestos fibres.</b>	5.16.7	3
<b>5. Waste handling</b>		
Procedure for handling of untreated and treated healthcare risk waste	5.19.4	Prior to operation commencing
Procedure for the handling of waste from leaking or otherwise ruptured containers	5.5	3
Procedure for the handling and reprocessing of previously processed waste	5.19.5	Prior to operation commencing
Location of controlled contaminated area and designated quarantine store	5.20.1	Prior to operation commencing
Sampling and testing regime for the examination of shredded processed waste	5.31	3
Report on options for the recovery of processed waste	5.35	12
<b>6. Commissioning tests</b>		
Procedure for carrying out the tests	5.23.1	Prior to waste being processed
Report on the test	5.23.2	Prior to operation commencing



<b>7. Emissions and Environmental Impacts</b>		
Proposals for the assessment of fugitive emissions	7.3.2	6
Report on the assessment of air emissions and odours during commissioning testing	7.3.3	Following the commissioning testing
<b>8. Decommissioning and Aftercare</b>	8.1	6
<b>9. Contingency arrangements</b>		
Emergency Response Procedure	10.1	6
Contaminated air, surface water, groundwater etc.	10.2	6
Risk Assessment, Fire Fighting and Fire-water retention study	10.6	6
<b>10. Financial capacity</b>		
Report on Environmental Liabilities Risk Assessment	11.2.1	6
Proposal for Financial Provision	11.2.2	9

## SCHEDULE E Specified Engineering Works

Table E.1 Specified Engineering Works

Specified Engineering Works
<p>The detailed design and installation of the Autoclave unit and ancillary plant.</p> <p>Bunding of the healthcare risk waste storage areas.</p> <p>Any works notified in writing by the Agency.</p>

## SCHEDULE F Monitoring

All monitoring frequencies and programmes listed in this Schedule are subject to alteration under Condition 10 or as a result of an incident.

### ***F.1: Monitoring of emissions to sewer***

Within three months of the date of grant of this licence the location of the sewer monitoring point (FW 1) to be agreed in writing with the Agency.

**Table F.1.1 Sewer discharge monitoring frequency and sampling methods**

Parameter	Monitoring frequency	Analysis method or technique
<b>Flow to sewer</b>		
<b>BOD<sub>5</sub></b>	Monthly	24-hour composite
<b>COD</b>	Monthly	24-hour composite
<b>Suspended solids</b>	Monthly	24-hour composite
<b>Fats, oil and grease</b>	Monthly	24-hour composite
<b>Detergents as methylene blue active substances (MBAS)</b>	Monthly	24-hour composite
<b>Temperature</b>	Monthly	24-hour composite
<b>pH</b>	Monthly	24-hour composite
<b>Total Coliform /100ml</b>	Monthly	Grab
<b>Faecal Coliform/100ml</b>	Monthly	Grab
<b>Faecal Streptococci</b>	Monthly	Grab
<b>Culturable Enteroviruses</b>	Monthly	Grab
<b>Bacillus Strearothermophilus</b>	Monthly	Grab

**F.2: Monitoring of noise****Table F.2.1 Noise monitoring locations**

Note 1: The location of noise monitoring point shall be agreed in writing with the Agency in advance.

STATION	EASTING	NORTHING
N1	see Note 1.	

**Table F.2.2 Noise monitoring**

Parameter	Monitoring frequency	Analysis method or technique
L(A) <sub>EQ</sub> [30 minutes]	Annually	Standard <sup>Note 1</sup>
L(A) <sub>10</sub> [30 minutes]	“	“
L(A) <sub>90</sub> [30 minutes]	“	“
Frequency analysis (1/3 octave band analysis)	“	“

Note 1: International Standards Organisation. ISO 1996. Acoustics - Description and Measurement of Environmental Noise. Parts 1, 2 and 3.

**F.3: Monitoring of processed waste and disinfection efficacy of the processing unit**

Waste Monitoring Point Reference Numbers: **TWG** and **challenge tests**

**Table F.3.1 Microbiological monitoring locations**

STATION	REF. NUMBER	EASTING	NORTHING
Treated waste grab sample	TWG	to be agreed with the Agency	
Challenge tests	-	-	-

**Table F.3.2 Process and microbiological monitoring**

Parameter	Monitoring frequency	Analysis method or technique
Processed waste - visual inspection	each batch	-
Processed waste	each batch <sup>Note 1</sup>	<u>Test organisms to be agreed in advance with the Agency</u> See note 2
Challenge test for spore forming organisms	each batch <sup>Note 1</sup>	<u>Bacillus stearothermophilus</u> or <u>Bacillus subtilis</u> See note 2
Verification of healthcare risk waste inactivation and disintegration being achieved	annually	As specified in Condition 5.26.

Note 1: Frequency to be reviewed after three months.

Note 2: Procedure to be agreed in advance with the Agency.

**F.4: Monitoring of emissions to air**

Air Monitoring Point Reference Numbers: Three locations to be agreed following results of assessment as part of Condition 7.3.2

**Table F.4.1 Air monitoring**

Parameter	Sampling location and monitoring frequency	
	as above	Analysis method or technique
Total volatile organic compounds (VOC)	bi-annually	Note 1
Indicator micro-organisms	bi-annually	Note 1

Note 1: Sampling and analysis method to be agreed with the Agency.

## SCHEDULE G Emission Limits

### G.1 Emissions to Sewer

Volume to be emitted: Maximum in any one day: 20.0 m<sup>3</sup>

Table G.1 Emission limit values for emissions to sewer

Parameter	Emission limit value		
	Grab sample (mg/l)	Daily mean concentration (mg/l)	Daily mean loading (kg/day)
BOD <sub>5</sub>	200	150	3.0
COD	600	450	9.0
Suspended solids	500	400	8.0
Detergents as methylene blue active substances (MBAS)	100	100	2.0
Fats, oil and grease	100	100	2.0
pH	6 -10		
Temperature	42 °C		

### G.2 Emissions to Air

Emission point: To be agreed with the Agency following assessment required under Condition 7.3.2

Table G.2 Emission limit values for emissions to air at emission points above.

Parameter	Emission limit value
Total volatile organic compounds (VOC)	0.1 kg/hour
Indicator micro-organisms	2,000 cfu/m <sup>3</sup> (see note)

Note: cfu = colony forming units

**G.3 Noise Emissions:** (Measured at the monitoring points indicated in Table F.2.1 of Schedule F.

**Table G.3 Noise emission limits**

Day dB(A) L <sub>Aeq</sub> (30 minutes)	Night dB(A) L <sub>Aeq</sub> (30 minutes)
55	45

## SCHEDULE H Waste Types

**TABLE H.1 WASTE CATEGORIES AND QUANTITIES**

WASTE TYPE	MAXIMUM TONNES PER ANNUM
Non-Hazardous Waste	240
Hazardous Waste comprising asbestos, infectious healthcare , pharmaceuticals, cytotoxic, sharps, solvents, photographic processing, paint and ink, batteries	3,200

Sealed by the Seal of the Agency on this 21<sup>st</sup> day of December 1999.

PRESENT when the Seal of the Agency

was affixed hereto:

\_\_\_\_\_  
Anne Butler, Director/Authorised Person