

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

## WASTE LICENCE

<b>Waste Licence Register Number:</b>	39-2
<b>Licensee:</b>	IPODEC Ireland Limited
<b>Location of Facility:</b>	Ballymount Cross, Tallaght, Dublin 24.

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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, and the report of its inspector.

## **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 46(2) of the said Act hereby grants this Waste Licence to IPODEC Ireland Ltd., Ballymount Cross, Tallaght, Dublin 24 to carry on the waste activities listed below at Ballymount Cross, Tallaght, Dublin 24, 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 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 Act, 1996*

- Class 2: Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
- Class 3: Recycling or reclamation of metals and metal compounds.
- Class 4: Recycling or reclamation of other inorganic materials.
- 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.

# INTERPRETATION

<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>Attachment</b>	Any reference to Attachments in this licence refers to attachments submitted as part of the waste licence application.
<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>Annually</b>	All or part of a period of twelve consecutive months.
<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>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>Commercial waste</b>	As defined in Section 5 (1) of the Waste Management Act 1996.
<b>Containment boom</b>	A boom which can contain a spillage and prevent it from entering rains or watercourses
<b>Day</b>	A period from 0000 hours to 2400 hours.
<b>Daytime</b>	0800 hours to 2200 hours.
<b>Daily</b>	Consecutive 24 hour periods
<b>Emission</b>	As defined in Section 5 (1) of the Waste Management Act 1996.
<b>EMP</b>	Environmental Management Programme.
<b>Environmental Pollution</b>	As defined in Section 5 (1) of the Waste Management Act 1996.
<b>Every Two Months</b>	One measurement in every two month calendar period.
<b>EWC</b>	European Waste Catalogue: a harmonised, non-exhaustive list of wastes drawn up by the European Commission and Published as Commission Decision 94/2/EC an any subsequent amendment published in the Official Journal of the European Community.
<b>Facility</b>	That area or areas defined under Condition 1.2.
<b>Fugitive Dust</b>	Non-point source dust emissions. For example, dust from vehicular movements on yards.
<b>Hazardous Waste</b>	As defined in Section 4(2) of the Waste Management Act, 1996.
<b>Household Waste</b>	As defined in Section 5 (1) of the Waste Management Act 1996.
<b>Impulsive Noise</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>Industrial waste</b>	As defined in Section 5 (1) of the Waste Management Act 1996.
<b>Licence</b>	A Waste Licence issued in accordance with the Act.
<b>Licensee</b>	IPODEC Ireland Limited
<b>List I/II Organics</b>	Substances classified pursuant to EC Directives 76/464/EEC and 80/68/EEC
<b>Liquid Waste</b>	Any waste in liquid form and containing less than 20% dry matter
<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>Monthly</b>	At least 12 times per year, once during each calendar month.
<b>Municipal Waste</b>	Municipal waste as defined in Section 5 (1) of the Act.
<b>Night-time</b>	2200 hours to 0800 hours.
<b>Noise sensitive location</b>	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
<b>Oil separator</b>	Device installed according to the draft European Standard prEN 858 (Installations for the separation of light liquids, eg. oil and petrol).
<b>Putrescible waste</b>	Waste which is readily biodegradable such as vegetable matter, green waste, etc.
<b>Sanitary Authority</b>	South Dublin County Council.
<b>Specified Engineering Works</b>	Those engineering works listed in Schedule D of this licence.
<b>Tonal noise</b>	As defined in International Standards Organisation "Acoustics - description and measurement of environmental noise", Part 2, 1996.
<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>Unacceptable Waste</b>	As defined in Condition 5.2 of this licence.
<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 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>	0000 to 2400 hours

# Part II: CONDITIONS

## Condition 1 SCOPE

- 1.1 Waste activities at the facility shall be restricted to those listed and described in Part I and required by the Licence.
- 1.2 Waste activities shall be restricted to the area of land outlined in red on the "Site Boundary Map" (Figure B.2.a, Revision A, Nov. '99) of the waste licence application. 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 set down 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 the time-scale contained in the notice.
  - (c) that the licensee shall carry out any other requirement specified in 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.

- 1.6 This licence has been granted in substitution for the waste licence granted to the licensee on 25<sup>th</sup> November 1999 and bearing Register No.: 39-1. This licence replaces the previous waste licence (Reg. No. 39-1).

*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 before 1st June, 2001 submit to the Agency for its agreement a proposal for a documented Environmental Management System (EMS) for the facility. Following the 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 the following elements:

a) Schedule of Environmental Objectives and Targets

The licensee shall, before 1st December 2000, submit to the Agency for its agreement a Schedule of Environmental Objectives and Targets. The Schedule shall address a five-year period as a minimum and shall be reviewed and submitted annually to the Agency for its agreement. The objectives should be specific and the targets measurable.

b) Environmental Management Programme

The licensee shall, before 1st December 2000, 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. The EMP shall include, as a minimum, the information specified in *Schedule A: Content of the Environmental Management Programme*. The EMP shall be reviewed and submitted to the Agency for its agreement annually.

c) Corrective Action

The licensee shall maintain Corrective Action Procedures (including Emergency Response procedures as per Condition 10.1) which shall ensure that corrective action is taken should specified requirements of this licence not be fulfilled.

d) Awareness and Training

The licensee shall maintain Awareness and Training Procedures for identifying training needs and for providing appropriate training, for personnel whose work is related to the licensed facility. Written records of training shall be maintained.

e) Communications

Before 1st December 2000, 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.

### 2.2 Management Structure

2.2.1. Within one month 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 arrangements for the absences of the named persons from the facility.

### 2.3 Annual Environmental Report

2.3.2. The licensee shall submit to the Agency for its agreement, before the 1st December 2000 and within one month of the end of each year thereafter, an Annual Environmental Report (AER).

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

2.4 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.

2.5 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 written records 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 malfunction of any environmental control system;
  - e) any indication that contamination has, or may have, taken place;
  - f) any occurrence with the potential for environmental pollution; and,
  - g) any emergency.
- 3.2 The written record shall include all aspects described in Condition 10.8 (a to e).
- 3.3 Unless otherwise instructed in writing by the Agency, the licensee shall notify the Agency by both telephone and facsimile as soon as practicable and in any case not later than 10.00 a.m. the following working day after the occurrence of any incident.
- 3.4 Unless otherwise instructed in writing by the Agency, the licensee shall submit the written record to the Agency as soon as practicable and in any case within five working days after the occurrence of any incident.
- 3.5 Should any further actions be taken after the date of 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 no later than ten days after the initiation of those actions.
- 3.6 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 the Eastern Regional Fisheries Board and/or South Dublin County Council, as appropriate, as soon as practicable by telephone and in writing and in any case not later than 10.00 a.m. the following day after such an incident.
- 3.7 Copies of all reports, monitoring and analysis results and interpretations required by this licence, shall be forwarded to the Agency's Headquarters, or to such other alternative location as agreed with the Agency, at the reporting frequencies set out in this licence. The format of all reports and method of reporting shall be in accordance with any written instructions or guidance of the Agency. All monitoring results must be accompanied by a written interpretation of those results setting out their significance. Each report and drawing, including each modification, shall be identified with a unique code. An original and three copies of all reports and results shall be provided to the Agency.
- 3.8 All written reports submitted to the Agency shall be certified as accurate by the licensee.
- 3.9 Unless otherwise agreed in writing with the Agency, all written records, reports and other documents required to be maintained under this licence, shall be retained by the licensee for a minimum period of seven years.
- 3.10 Unless otherwise agreed in advance in writing with the Agency, the licensee must give at least fourteen days notice to the Agency of the following events:

- a) the cessation of waste disposal activities at the facility for a period in excess of twenty-eight days;
  - b) the re-commencement of waste disposal activities at the facility following a period of cessation referred to at a) above.
- 3.11 The licensee shall provide copies of any written records, reports and other documents referred to in this licence to the Agency upon written request, within the time specified in writing by the Agency.
- 3.12 The licensee shall keep the following documents at the facility office shown in Drawing "Site Boundary Map" (Figure B.2.a, Revision A, Nov. '99), and referred to therein as the Office Block:
- a) the current waste licence relating to the facility;
  - b) any previous waste licence in respect of the facility;
  - c) the current EMS for the facility;
  - d) the previous year's AER for the facility;
  - e) all written procedures produced by the licensee which relate to the licensed activities.
- 3.13 The licensee shall maintain a written record, or a record in a format to be agreed in writing by the Agency, for each load of waste arriving at the facility. The licensee shall record the following:
- a) the name of the carrier;
  - b) the vehicle registration number;
  - c) the name of the producer(s)/collector(s) of the waste as appropriate;
  - d) a description of the waste including the associated European Waste Catalogue (EWC) codes;
  - e) the quantity of the waste, recorded in tonnes;
  - f) the name of the person checking the load; and,
  - g) the time and date of arrival.
- The requirement to record EWC codes shall be implemented within three months of the date of grant of this licence.
- 3.14 A written record shall be kept for each load of waste departing from the facility. The following shall be recorded:
- a) the name of the carrier;
  - b) the vehicle registration number;
  - c) the destination of the waste (facility name and waste licence/permit number as appropriate);
  - d) a description of the waste including the associated European Waste Catalogue codes;
  - e) the quantity of the waste, recorded in tonnes; and,
  - f) the name of the person checking the load.
  - g) the time and date of departure.
- The requirement to record EWC codes shall be implemented within three months of the date of grant of this licence.

- 3.15 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.
- 3.16 All foul sewer discharge monitoring results, as set out in *Schedule E.1*, shall be submitted annually to the Sanitary Authority.
- 3.17 The licensee shall notify the Local Authority and the Agency of the occurrence of any one of the following within the time set out in Condition 3.3:
- a) any incident with the potential for environmental contamination of surface water or groundwater, on posing a threat to land, or a Sanitary Authority sewer or personnel working in connection with a sewer, or requiring an emergency response by the Local Authority;
  - b) any emission which relates to a discharge to sewer which does not comply with the requirements of this licence.

*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 referred to in this licence prior to the commencement of the licensed activities or as agreed in advance in writing with the Agency.
- 4.2 Site Notice Board
- 4.2.1 A Site Notice Board shall be maintained by the licensee 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 750mm.
- 4.2.2 The board shall clearly show:
- a) the name and telephone number of the facility;
  - b) the normal hours of opening;
  - c) the name, 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 if different from (c) above; and,
  - f) the waste licence reference number.
- 4.3 Site Boundary
- 4.3.1 The site boundary landscaping shall be maintained at least to the extent set down in Drawing "Site Boundary Map" (Figure B.2.a, Revision A, Nov. '99). Any gaps that exist or develop in this landscaping shall be filled with appropriate plants at the earliest opportunity.
- 4.3.2 A security fence and appropriate gates shall be provided according to the Drawing "Traffic Control" (No. 9811501, D.1-2, Revision A, April 1998).
- 4.3.3 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 fence shall be undertaken within three working days or as agreed in writing with the Agency.
- 4.3.4 Gates shall be kept locked shut when the facility is unsupervised.
- 4.4 Liquid storage
- 4.4.1 Unless agreed otherwise in writing with the Agency or unless contained in mobile plant at the facility, fuels, waste oils and greases shall be stored at the locations shown in Drawing "Hardcore Areas" (Figure 2, Revision A of the further information supplied to the Agency on the 28th October 1998).
- 4.4.2 All tank and drum storage areas shall be rendered impervious to the materials stored therein. In addition, 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:
- a) 110% of the capacity of the largest tank or drum within the bunded area; or
  - b) 25% of the total volume of substance which could be stored within the bunded area.

- 4.4.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 4.4.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 4.4.5 The integrity and water tightness of all the bunds, tanks and containers 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. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. The licensee shall also submit to the Agency for its agreement in each case a written report on the storage of fuels on site. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
- 4.4.6 All tanks and containers shall be labelled to clearly indicate their contents and volume.
- 4.4.7 All tanks and containers shall be secured against unauthorised access.
- 4.5 An office shall be provided and maintained on the facility, at the location shown in Drawing "Site Boundary Map" (Figure B.2.a, Revision A, Nov. '99) and referred to therein as the Office Block/Future Extension. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
- 4.6 The licensee shall provide and maintain a working telephone and a facsimile machine at the facility.
- 4.7 A waste quarantine area shall be provided and maintained. Pending the provision of this quarantine area, the temporary quarantine area agreed by the Agency's letter, WL39-1/AK002EM dated 22<sup>nd</sup> February 2000, shall be employed.
- 4.8 A weighbridge shall be provided at the location shown in Drawing "Site Boundary Map" (Figure B.2.a, Revision A, Nov. '99), and referred to therein as Weighbridge, and shall be maintained in such condition as to accurately measure the weight of all vehicles using it. The accuracy of the weighbridge shall be tested and demonstrated to be in accordance with the manufacturer's specifications, and it shall be reported to the Agency. A written record of such tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
- 4.9 The drainage system, bunds 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. A written record shall be kept of the inspections, desludging, cleaning, disposal of associated waste products, maintenance and performance of the interceptors, bunds and drains.
- 4.10 The storm and foul sewer systems shall be established and maintained as set out in Drawing "New Location of Fuel Tank and Pump" (Drawing No. B5805-C001-B submitted 10<sup>th</sup> March 2000) subject to any alterations agreed in advance by the Agency.
- 4.11 The connection from the Conveyor Belt Sump in the Transfer Station Building to the storm water discharge as set out in Drawing "Monitoring Points" (No. 9811502.01, Revision B, August 1998), shall be terminated in a manner to prevent any liquid passing from the sump to the storm water sewer.
- 4.12 The waste Transfer Station and Garage/Workshop shall be established and maintained as set out in Drawing "Floor Slab G.A. and details" (No. B2767S04, Revision 1, October 1998) subject to any alteration(s) agreed in advance by the Agency.
- 4.13 The foul sewer pumps located in the pump sumps of the Loading Bay of the Waste Transfer Station (Drawing "Monitoring Points", 9811502, 01, revision B, August 1998) shall be

maintained according to the manufacturer's instructions. A written record of pump servicing, maintenance and remedial work shall be maintained by the licensee.

- 4.14 The fog system as agreed by the Agency's letter, WL39-1/AK007EM dated 8<sup>th</sup> May 2000, shall be installed and subsequently maintained at all times unless otherwise agreed in writing by the Agency. A written record of component/system servicing, maintenance and remedial work shall be maintained by the licensee.
- 4.15 Before 1st September 2000, all foul sewer gullies, drainage grids and manhole covers shall be painted with red squares whilst 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 during site operation. Any alterations to the site drainage thereafter shall comply with this colour coding within one week of such alterations. All manhole covers associated with oil separators and sediment traps shall also be uniquely numbered (for example OS1, ST1).
- 4.16 The licensee shall provide adequate lighting during the operation of the facility during the hours of darkness.
- 4.17 The double-skinned diesel storage tank, as shown in Drawing "Site Boundary Map" (Figure B.2.a, Revision A, Nov. '99) and referred to therein as "tank + pump", shall be provided with a bund. Surface water drainage from the fuel dispensing area of this tank, unless contained within the bund, shall be directed through an oil separator.
- 4.18 An area with an impermeable surface shall be provided for the parking of trucks at the location shown in the Drawing "Hardcore Areas" (Figure 2, Revision A, October 1998) before 1st December 2000 as agreed by the Agency's letter, WL39-1/AK005 dated 3<sup>rd</sup> April 2000. The drainage from this area shall pass through a suitable oil separator. Other concrete and hard-core hardstanding areas shall be maintained at the locations specified in Drawing "Hardstanding Layout Plan" (Figure D.1.e, Revision A, Nov. '99) subject to any alterations in site drainage agreed in advance in writing by the Agency.
- 4.19 Vehicle cleaning facilities, including detergent storage, shall be provided and maintained at the location and to the specification agreed by the Agency's letter, WL39-1/AK003EM dated 3<sup>rd</sup> March 2000, unless agreed otherwise by the Agency.
- 4.20 All drainage from the floor of the Transfer Station, Loading Bay and the open concrete yard to the east shall be directed to foul sewer.
- 4.21 The licensee shall provide, install and maintain a system for the detection of a fire inside the Transfer Station, including the Loading Bay. A written record shall be kept of the inspections, testing and maintenance of this system.
- 4.22 Traffic shall be directed around the site as shown in Drawing "Site Boundary Map" (Figure B.2.a, Revision A, Nov. '99).
- 4.23 Unless agreed otherwise by the Agency, surface water discharges from the facility, other than clean roof water run-off, shall receive Class I full retention oil separator treatment prior to discharge at the location shown in Drawing "Monitoring Points" (Figure J.1.a, Revision A, Nov. '99) before 7<sup>th</sup> November 2000.
- 4.24 Specified Engineering Works
  - 4.24.1 The licensee shall submit a written report on any proposed specified engineering works, as defined in Schedule D: 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.

- 4.24.2 All specified engineering works shall be supervised by a competent person(s) agreed in writing in advance by the Agency and that person, or persons, shall be present at all times during which relevant works are being undertaken.
- 4.24.3 Following the completion of all specified engineering works, the licensee shall submit a construction quality assurance validation report to the Agency. The validation report shall include the following information:
- a) a description of the works;
  - b) as-built drawings of the works;
  - c) records and results of all tests carried out (including failures);
  - d) where relevant a drawing and sections showing the location of all samples and tests carried out;
  - e) daily records sheets/diary;
  - f) name(s) of contractor(s)/individual(s) responsible for undertaking the engineering works;
  - g) name(s) of person(s) responsible for supervision of works and for quality assurance validation of works;
  - h) records of any problems and the remedial works carried out;
  - i) any other information requested in writing by the Agency; and
  - j) a comprehensive drawing of the entire facility drainage network including foul sewerage, surface water drainage, fuel, raw material and waste storage locations, waste quarantine area, monitoring stations, cut-off valves, underground services such as electricity cables and their associated manhole covers, vehicle wash area, oil separators, gullies, manhole covers, buildings, truck parking area, pumps, et cetera.

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

## **Condition 5 WASTE ACCEPTANCE AND HANDLING**

- 5.1 Where waste types are not permitted to be accepted at the facility, then those waste types shall not be accepted whether or not they have been packaged, placed in other containers or waste materials, or pre-treated by any form of solidification or encapsulation.
- 5.2 The following non-hazardous, non-liquid wastes only shall be accepted at the facility:
- a) Municipal Waste;
  - b) Commercial and Industrial waste of similar composition to Municipal Waste; and,
  - c) The wastes listed in Table E.1.3 of the waste licence application.
- 5.3 The licensee shall submit a written proposal on any proposed new waste processing procedure, along with relevant details, to the Agency for its agreement prior to any such processes or associated works being carried out.
- 5.4 The quantity of wastes to be accepted at the facility shall not exceed 150,000 tonnes per annum.
- 5.5 Waste must only be accepted at the facility from known customers or new customers subject to initial waste profiling as specified in Section 2.5 of the Environmental Impact Statement (EIS) and subject to the conditions of this licence. The written records of this off-site waste profiling shall be retained by the licensee for all active customers and for a two year period following termination of licensee/customer agreements. There shall be no casual public access to the facility.

- 5.6 Waste arriving at the facility shall be weighed, documented and directed to the Transfer Station building, as shown on the Drawing "Site Boundary Map" (Figure B.2.a, Revision A, Nov. '99). The waste shall then be deposited on the floor of the Transfer Station building for visual inspection. Only following visual inspection and assessment shall the waste be processed for disposal or recovery.
- 5.7 All suspect materials identified by the visual inspection of the waste shall be diverted to the Waste Quarantine Area or other designated area as agreed in advance by the Agency, for further examination and classification. Materials other than those permitted by this licence shall be submitted to an alternative appropriate facility.
- 5.8 The Unacceptable Waste Procedure EW10 as agreed by the Agency's letter, WL39-1/AK002EM (our reference) dated 22<sup>nd</sup> February 2000, shall be implemented.
- 5.9 No waste shall be placed, or allowed to accumulate outside the Transfer Station, as shown on the drawing "Site Boundary Map" (Figure B.2.a, Revision A, Nov. '99), other than waste in fully enclosed trailers/containers pending removal from the site, unless agreed in advance by the Agency. There shall be no liquid discharges from those trailers/containers.
- 5.10 The blinded hard-core surfaced areas, as delineated in Drawing "Hardstanding Layout Plan" (Figure D.1.e, Revision A, Nov. '99), shall not be used for the storage of waste materials, fuels and other potentially polluting substances unless agreed in advance by the Agency
- 5.11 Hours of Operation.
- 5.11.1 Waste may be accepted 24 hours a day, 7 days a week.
- 5.11.2 Waste which is received at night-time, following its acceptance, shall only be deposited on the floor of the Transfer Station. Unless agreed otherwise by the Agency, cardboard baling and transferring of waste from the floor of the Transfer Station (unless it is unacceptable waste) or any other waste handling or processing shall be restricted to daytime hours.
- 5.12 Scavenging shall not be permitted at the facility.
- 5.13 The licensee shall submit proposals for increasing within six months of the date of grant of this licence the separation and recovery of appropriate components of the waste being accepted at the facility to the Agency for its agreement. The targets set for Construction and Demolition wastes in "Waste Management, Changing Our Ways" (Department of the Environment and Local Government, 1998) shall be complied with.

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

## Condition 6 ENVIRONMENTAL NUISANCES

- 6.1 All waste for disposal shall be removed from the facility within thirty six hours of its arrival on-site unless agreed otherwise by the Agency.
- 6.2 The licensee shall, at a minimum of one week intervals, inspect for nuisances caused by vermin, litter and odours. Written records shall be made of all inspections and any actions taken as a result of these inspections.
- 6.3 All litter on the site and its environs shall be removed and appropriately disposed of on a daily basis. Dust Curtains, as referred to in Section 3.3.3.(b) of the EIS, shall be maintained on the Transfer Station/Loading Bay plant entry/exit points. All other doors in the Transfer Station shall be kept closed as far as is practicable.
- 6.4 The Loading Bay and the impermeable outdoor yard areas of the facility shall be maintained in a clean state.
- 6.5 Waste shall be stored under appropriate conditions in order to avoid putrefaction, odour generation, the attraction of vermin and any other environmental nuisance or objectionable condition.
- 6.6 Any waste placed on or in the vicinity of the facility, other than in accordance with the requirements of this licence, shall be removed by the licensee immediately such waste is discovered and in any event by 10.00am of the next working day.
- 6.7 The public highway in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay by the licensee.
- 6.8 The licensee shall ensure that all vehicles delivering and removing waste from the facility are suitably covered, and that there shall be no liquid discharges from the waste transported therein.
- 6.9 The Vermin Control Plan as agreed by the Agency's letter, WL39-1/AK001EM dated 23<sup>rd</sup> December 1999, shall be implemented. The objective of the plan is to ensure that vermin do not give rise to nuisance at the facility or the immediate environment of the facility.
- 6.10 Dust and Odour control shall be implemented as agreed by the Agency's letter, WL39-1/AK007EM dated 8<sup>th</sup> May 2000, subject to any further instructions issued by the Agency.

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

## Condition 7 EMISSIONS AND ENVIRONMENTAL IMPACTS

- 7.1 No specified emission from the facility shall exceed the emission and deposition limit values-set out in Schedule F of this licence. There shall be no other emissions of environmental significance.
- 7.2 The licensee shall ensure that the activities shall be carried out in a manner such that emissions do not result in significant impairment of, or significant interference with the environment beyond the site boundary.
- 7.3 There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at the facility boundary.

- 7.4 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer. Written records of the calibrations and maintenance shall be made and kept by the licensee.
- 7.5 There shall be no direct emissions to groundwater.
- 7.6 Discharges to Surface Water
- 7.6.1 Discharges to surface water shall only be made at the location SW1 as shown in Drawing "Monitoring Points" (Figure J.1.a, Revision A, Nov. '99).
- 7.6.2 There shall be no visible oil in the discharge.
- 7.6.3 Emission limits for emissions to surface water shall be interpreted as follows: For parameters other than pH, eight out of ten consecutive grab sample results shall not exceed the emission limit value. No individual result similarly calculated shall exceed 1.2 times the emission limit value.
- 7.7 Discharges to Sewer
- 7.7.1 Discharges to Sewer shall only be made at the location FW1 shown in Drawing "Monitoring Points" (Figure J.1.a, Revision A, Nov. '99).
- 7.7.2 No substance shall be present in emissions to sewer in such concentrations as would constitute a danger to maintenance personnel working in the sewerage system or as would be damaging to the fabric of the sewer or as would interfere with the biological functioning of a downstream wastewater treatment works.
- 7.7.3 No 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. In particular, the emission shall not contain any liquid matter (including dissolved methane, petroleum spirits or organic solvents) or thing which is or may be liable to set or congeal at average sewer temperature or is capable of giving off any flammable 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.
- 7.7.4 Non-trade effluent wastewater (e.g. firewater, accidental spillage) which occurs on-site shall not be discharged to the sewer without the prior authorisation of the Sanitary Authority. The Agency shall be notified of such an event.
- 7.7.5 The licensee shall provide and maintain an inspection chamber in a suitable position in connection with each pipe through which the trade effluent is being discharged. 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.
- 7.7.6 The licensee shall permit authorised persons of the Agency and the Sanitary Authority to inspect, examine and test, at all reasonable times, any works or apparatus installed in connection with the trade effluent and to take samples of the trade effluent.

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

## **Condition 8 DECOMMISSIONING AND AFTERCARE**

- 8.1 Decommissioning shall be according to the scheme laid out in Section G.1 – Decommissioning of the application. The licensee shall update the schemes for Decommissioning and Aftercare when required in writing by the Agency and submit any 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 at such locations and frequencies as set out in Schedule E : *Monitoring* and in the conditions of this licence.
- 9.2 Foul Sewer Monitoring
- 9.2.1 The licensee shall provide, install and maintain a system for monitoring and recording the discharge volume to foul sewer.
- 9.2.2 The licensee shall provide, install and maintain a monitoring point for the representative sampling of the final effluent discharge from the facility to the Sanitary Authority foul sewer. A cut-off valve shall be incorporated in the design to stop this discharge if so required.
- 9.3 Surface Water Monitoring
- 9.3.1 The licensee shall provide, install and maintain a monitoring point for the representative sampling of the final surface water discharge from the facility to the storm drain located on Upper Ballymount Road. A shut-off valve shall be incorporated in the design to stop this discharge if so required.
- 9.4 The licensee shall provide and maintain all sampling and monitoring points so that they may be used for the representative sampling and monitoring of emissions from the facility.
- 9.5 The licensee shall provide safe and permanent access to all on-site and off-site sampling and monitoring points as required by the Agency.
- 9.6 Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturer's instructions (if any) so that all monitoring results accurately reflect any emission or discharge or environmental parameter.
- 9.7 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.
- 9.8 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 all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring.
- 9.9 The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 9.10 The licensee shall undertake a programme of testing and inspection of pipelines to ensure that all underground effluent, storm and foul sewer pipes are tested at least once every three years. A written record of such tests and any remedial work carried out on these pipes shall be maintained by the licensee.

- 9.11 All on-site monitoring points as described in Condition 9.1 shall be tagged in situ with their agreed sampling point codes as agreed by the Agency.

*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 Emergency Response Procedure as agreed by the Agency's letter, WL39-1/AK008EM dated 16<sup>th</sup> May 2000, shall be implemented unless agreed otherwise by the Agency.
- 10.2 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 safely stored prior to disposal at an appropriate facility. A written record of the use and disposal of these items shall be maintained by the licensee.
- 10.3 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.
- 10.4 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.
- 10.5 The licensee shall carry out a risk assessment to determine if the activity should have a fire-water retention facility. This assessment shall include an investigation into the provision of automatic/remote diversion of surface water to the retention facility. The assessment shall have regard to any guidelines issued by the Agency with regard to firewater retention. The licensee shall submit the assessment and a report to the Agency on the findings and recommendations of the assessment.
- 10.6 In the event that a significant risk is found to exist for the release of contaminated fire-water, the licensee shall, based on the findings of the risk assessment, prepare and implement, with the agreement of the Agency, a suitable risk management programme. The risk management programme shall be fully implemented within the timescale as notified in writing by the Agency.
- 10.7 In the event of a complete breakdown of equipment or any other occurrence which results in the closure of the transfer station building, any putrescible waste arriving at or already collected at the facility shall be transferred directly to appropriate landfill sites or any other appropriate facility until such time as the Waste Transfer Station is returned to a fully operational status. Such a breakdown event will be treated as an emergency and rectified as soon as possible.
- 10.8 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, if any;
  - 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 its agreement within one month to:
    - i) identify and put in place measures to avoid recurrence of the incident; and,
    - ii) 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 £8,614 or such sum as the Agency from time to time determines, towards the cost of monitoring the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996. The licensee shall in 2001 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Public Sector Average Earnings Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 2000, the licensee shall pay a pro rata amount from the date of this licence to December 31 2000. This amount shall be paid to the Agency within one month of 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, or incidents, occurring at, or adjacent to, and associated with the facility, the licensee shall contribute such sums as determined by the Agency to defray 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.
- 11.2.2 Before 1st September 2000, 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

- a) A charge of £0.35 per cubic metre of trade effluent or other matter discharged to sewer.
- b) An annual charge of £900 for monitoring costs.
- c) These charges shall be paid directly to South Dublin County Council on a quarterly basis.
- d) Sanitary Authority charges may increase from time to time in response to increased costs in providing drainage and monitoring.

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

# Schedule A : Content of the Environmental Management Programme

## Environmental Management Programme

Items specified to be contained in an Environmental Management Plan in the Landfill Operational Practices Manual published by the Agency, or otherwise as agreed in writing with the Agency

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 as specified in writing by the Agency

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# SCHEDULE B : Content of the Annual Environmental Report

## Annual Environmental Report Content

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, including wastes dispatched directly from customers to disposal/recovery facilities.

Summary report on emissions (Certified results/data sheets to be attached as Appendices)

Summary of results and interpretations of environmental monitoring, including a location plan of all monitoring locations along with their respective 12 digit grid references.

Resource and energy consumption summary.

Report on development works undertaken during the reporting period, and a timescale for those proposed for the coming year.

Schedule of Environmental Objectives and Targets for the forthcoming year.

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

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

Tank, pipeline and bund testing and inspection report.

Drum, tank and bund testing at least every third year.

Reported Incidents and Complaints summaries.

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

Any other items specified by the Agency.

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# SCHEDULE C: Recording and Reporting to the Agency

**Table C.1 Recurring Reports**

Report	Reporting Frequency <sup>Note1</sup>	Report Submission Date
<b>Monitoring</b>		
(i) Monitoring of emissions to surface water	Quarterly	Ten days after end of the quarter being reported on.
(ii) Monitoring of emissions to sewer	Quarterly	Ten days after end of the quarter being reported on
(iii) Noise monitoring	Annually	One month after the completion of the monitoring
(iv) Dust monitoring	Annually	One month after the completion of the monitoring
<b>Records of incidents</b>	As they occur	See Condition 3.4
<b>Cessation/Re-activation of an activity in accordance with Condition 3.10</b>	As they arise	Fourteen days in advance of cessation/re-activation
<b>Infrastructure</b>		
(i) Bund and tank integrity assessment	Every third year	Within one month of the date of grant of this licence and one month after the end of every year as specified in Condition 4.4.5.
(ii) Weighbridge Accuracy	As they occur	According to manufacturer's specifications.
<b>Environmental Management System Updates</b>	Annually	Before 1/6/2001 and one month after the end of each year being reported on thereafter.
<b>Annual Environmental Report</b>	Annually	Before 1/12/2000 and one month after the end of each year being reported on thereafter.
<b>Financial</b>		
(i) Financial Provision as per Conditions 11.2.2 and 11.2.3	Annually	Before 1/9/00 and thereafter within the first month of each year being reported on.
(ii) Financial Provision as per Conditions 11.2.4	As they occur	Within two weeks of the purchase, renewal or revision of the financial provision required under Condition 11.2.2

Note 1: Unless altered at the request of the Agency

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## SCHEDULE D : Specified Engineering Works

The terms of Condition 4.24 shall apply to the Specified Engineering Works listed in Table D.1 unless stated otherwise.

**Table D.1 Specified Engineering Works**

Specified Engineering Works
Installation of Waste Quarantine Areas.
Bunding.
Installation of an impermeable parking facility for trucks and site vehicles before 1/12/2000.
Installation of agreed vehicle cleaning area.
Installation of agreed revised drainage to the Transfer Station and the open concrete yard east of same.
Termination of the connection from the Conveyor Belt Sump, which is located in the Transfer Station , to surface water drainage.
Installation of agreed Fire Detection System within the Transfer Station and Loading Bay.
Installation of agreed system to monitor the effluent discharge volume to foul sewer from the facility.
Installation of agreed foul sewer discharge monitoring station and cut-off valve.
Installation of agreed surface water discharge monitoring station, along with a cut-off valve.
Oil separators.
Alterations to facility surface water and/or foul sewer drainage arrangements.
Any other works notified in writing by the Agency.

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## SCHEDULE E : Monitoring

### ***E.1: Monitoring of Emissions to Sewer***

The permanent monitoring location is to be agreed as per Condition 9.2. In the interim, monitoring shall be carried out at FW1 as shown in the drawing “Monitoring Points” (No. 9811502.01, Revision B, July 1998).

**Table E.1.1 Sewer Monitoring Parameters and Frequencies**

Parameter	Monitoring Frequency	Sampling Method/Type
<b>BOD</b>	Every two months	Grab
<b>COD</b>	Every two months	Grab
<b>Suspended Solids</b>	Every two months	Grab
<b>Fats, Oil, Grease</b>	Every two months	Grab
<b>Detergents (as MBAS)</b>	Every two months	Grab
<b>Temperature</b>	Every two months	Grab
<b>PH</b>	Every two months	Grab
<b>Flow to Sewer</b>	Daily <sup>Note 1</sup>	To be agreed as per Condition 9.2.1

Note 1: To be estimated fortnightly until agreed monitoring system has been installed as per Condition 9.2.1.

## E.2: Dust

Monitoring shall be carried out at D1, D2, D3 and D4 as shown in Drawing “Monitoring Points” (No. 9811502.01, Revision B, July 1998).

**Table E.2.1 Dust Monitoring Locations**

STATION			
D1	D2	D3	D4

**Table E.2.2 Dust Monitoring Parameters**

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust Deposition	Three times a year <sup>Note 1</sup>	Standard Method <sup>Note 2 and Note 3</sup>

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) in which 2 methoxy ethanol may be employed to eliminate interference due to algae growth in the gauge is allowed.

Note 3: A wind rose for the relevant monitoring period, obtained from a source approved by the Agency, shall be submitted with the dust monitoring results.

## E.3: Noise

Monitoring shall be carried out at B1, B2, B3 and NS1 as shown in the drawing ‘Noise Monitoring Location Map’, Figure C.8.a, revisions A, November 1999.

**Table E.3.1 Noise Monitoring Locations**

STATION			
B1	B2	B3	NS1

**Table E.3.2 Noise Monitoring Parameters, Frequencies and Method**

Parameter	Monitoring Frequency	Analysis Method/Technique
L(A) <sub>EQ</sub> [30 minutes]	Annually <sup>Note 2</sup>	Standard <sup>Note 1</sup>
L(A) <sub>10</sub> [30 minutes]	Annually <sup>Note 2</sup>	Standard <sup>Note 1</sup>
L(A) <sub>90</sub> [30 minutes]	Annually <sup>Note 2</sup>	Standard <sup>Note 1</sup>
Frequency Analysis (1/3 Octave band analysis)	Annually <sup>Note 2</sup>	Standard <sup>Note 1</sup>

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

Note 2: Both during daytime and night-time hours. The report will provide, inter alia, the periods of the measurements, a description of the activities occurring in the facility and a traffic count survey at location NS1 during those periods.

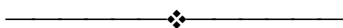
## E.4 Monitoring of Emissions to Surface Water

The permanent monitoring location is to be agreed as per Condition 9.3.1. In the interim, monitoring shall be carried out at SW1 as shown in the drawing "Monitoring Points" (Figure J.1.a, Revision A, Nov. '99).

**Table E.4.1 Surface Water Monitoring Parameters and Frequencies**

Parameter	Monitoring Frequency	Analysis Method/Technique
PH	Monthly	Electrometry
Temperature	Monthly	Thermometry
Electrical Conductivity	Monthly	Electrometry
Total Suspended Solids	Monthly	Gravimetry
Oils , Fats & Grease	Monthly	Standard Method <sup>Note 1</sup>
COD	Monthly	Digestion + Colourimetry/Titrimetry
BOD	Monthly	Electrometry/Titrimetry with nitrification inhibitor
Visual Inspection	Weekly	Not Applicable

Note 1: "Standards Methods for the Examination of Water and Wastewater", (prepared and published jointly by A.P.H.A., A.W.W.A & W.E.F) 19th Ed. 1995, American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA.



## SCHEDULE F : Emission Limits

### F.1 Emissions to Sewer

**Table F.1 Emissions to Sewer** <sup>Note 1</sup>

Parameter	Emission		Limit	Value
	Grab Sample (mg/l)		Daily Mean Concentration (mg/l)	Daily Mean Loading (kg/day)
Biological Oxygen Demand	2000		1500	30
Chemical Oxygen Demand	4000		3000	60
Suspended Solids	1000		800	16
Fats, Oils, Grease	100		100	2
PH	6 - 10			
Maximum Temperature	42 °C			
Detergents (as MBAS)	100		100	2

Note 1: Maximum volume to be discharged in any one day: 20 cubic metres,  
Maximum rate per hour: 5 cubic metres.

**F.2 Dust Deposition Limits**

**Table F.2 Dust Deposition Limits**

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

Note 1: Based on a 30 day composite sample with the results expressed as mg/m<sup>2</sup> /day at the monitoring points specified in Table E.2.1 other than D.1.

**F.3 Emissions to Surface Water**

**Table F.3 Emissions to Surface Water** <sup>Note 1</sup>

Parameter	Emission Limit Value (mg/l)
Biological Oxygen Demand	20
Suspended Solids	30
Fats, Oils, Grease	10
PH	6 - 10

Note 1: The permanent monitoring location is to be agreed as per Condition 9.3.1. In the interim, monitoring shall be carried out at SW1 as shown in the drawing "Monitoring Points" (Figure J.1.a, Revision A, Nov. '99).

**F.4 Noise emissions (Relating to noise emissions from the facility measured at NS1 as shown on drawing number Figure C.8.a titled "Noise Monitoring Location Map")**

**Table F.4 Noise Emissions**

Daytime dB(A) L <sub>Aeq</sub> (30 minutes)	Night-Time dB(A) L <sub>Aeq</sub> (30 minutes)
55	45

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**Sealed by the seal of the Agency on this 4th day of September, 2000.**

**PRESENT when the seal of the Agency was affixed hereto:**

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