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

WASTE LICENCE

Waste Licence 28-1

Register Number:

Applicant: Westmeath County Council

Location of Facility: Ballydonagh Landfill

Dublin Road, Athlone, Co. Westmeath

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Reasons for the Proposed 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.

No objection having been received to the proposed decision the licence is granted in accordance with the terms of the proposed decision and the reasons therefor.

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, grants this Waste Licence to Westmeath County Council, County Buildings, Mullingar, Co. Westmeath to carry on the waste activities listed below at Ballydonagh Landfill, Dublin Road, Athlone, Co. Westmeath 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 1: Deposit on, in or under land (including landfill).
- Class 4: Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.
- Class 5: Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.
- Class 13: Storage prior to submission to an 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 11: Use of Waste obtained from any activity referred to in a preceding paragraph of this Schedule.
- Class 13: Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

INTERPRETATION

Act The Waste Management Act, 1996 (No. 10 of 1996).

Aerosol A suspension of solid or liquid particles in a gaseous medium.

20 lux measured at ground level. Adequate lighting

Agreement Agreement in writing.

Attachment Any reference to Attachments in this licence refers to attachments

submitted as part of the waste licence application.

Application 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.

BATNEEC Best Available Technology Not Entailing Excessive Cost as defined in

section 5 (2) of the Act.

Commercial waste As defined in Section 5 (1) of the Act.

Containment

boom

A boom which can contain spillages and prevent these from entering

drains or watercourses.

0800 hrs to 2200 hrs. **Davtime**

Emission As defined in Section 5 (1) of the Act.

Environmental

Pollution

As defined in Section 5 (1) of the Act.

European Waste Catalogue (EWC) The EWC is 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.

Facility That area or areas defined under Condition 1.2

Hazardous Waste As defined in Section 4 (2) of the Act.

Household Waste As defined in Section 5 (1) of the Act.

Industrial waste As defined in Section 5 (1) of the Act.

Incident Any reference to an incident in this licence means an incident as

defined in Condition 3.1.

Landfill As defined in Section 5 (1) of the Act.

Landfill Gas Gases generated from the landfilled waste.

Any liquid percolating through the deposited waste and emitted from or Leachate

contained within a landfill as defined in Section 5 (1) of the Act.

LEL (Lower Explosive Limit)

The lowest percentage concentration by volume of a mixture of flammable gas with air which will propagate a flame at 25 °C and

atmospheric pressure.

Licence A Waste Licence issued in accordance with the Act.

Licensee Westmeath County Council

List I/II Organics Substances classified pursuant to EC Directives 76/464/EEC and

80/68/EEC

Liquid Waste Any waste in liquid form and containing less than 20% dry matter

Maintain Keep in a fit state, including such regular inspection, servicing and

repair as may be necessary to adequately perform its function.

Monthly At least 12 times per year, at approximately monthly intervals.

Municipal Waste Municipal waste as defined in Section 5 (1) of the Act.

Night-time 2200 hrs to 0800 hrs.

Non hazardous

waste

Non-Hazardous Waste is any waste which is not a hazardous waste as

defined in the Act.

Recovery As defined in Section 4 (4) of the Act.

Sludge The accumulation of solids resulting from chemical coagulation,

flocculation and/or sedimentation after water or wastewater treatment.

Specified Emissions

Those emissions listed in Schedule G of this licence.

Specified Engineering Works Those engineering works listed in Schedule E of this licence.

Trigger Level A parameter value which when achieved or exceeded requires certain

actions to be taken.

Waste As defined in Section 4(1) of the Act.

Waste disposal activity

Includes the activities referred to in Section 4 of the Act and listed in

the Third Schedule thereto.

Waste recovery activity

Includes the activities referred to in Section 4 of the Act and listed in

the Fourth Schedule thereto.

White Goods Fridges, washing machines and similar appliances

Working Day 08:30 to 16:30 Monday to Friday inclusive and 10:00 to 15:00 on

Saturdays.

Working Face The area of the site in which waste other than cover material is being

deposited.

Part II CONDITIONS

CONDITION 1 SCOPE

- 1.1 The waste activities authorised by this licence are listed and described in *Schedule A:* Waste Activities. Waste activities at the facility shall be restricted to those listed in Schedule A and any restrictions set down therein.
- 1.2 Waste activities shall be restricted to the area of land outlined in red on Figure B.2.1 and entitled 'Site Plan' of the waste licence application. Any reference in this licence to "facility" shall mean the area thus outlined in red.
- 1.3 Wherever a Condition of this licence requires the licensee to submit a plan, programme, or proposal to the Agency for its agreement, the licensee shall subsequently modify such documentation in accordance with, and within the time stated in, any written instructions from the Agency. The actions described therein shall be carried out within any timescale specified in writing by the Agency but shall not be undertaken without the prior written 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;
 - 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; and,
 - 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 withdrawn.

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 eighteen 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 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 twelve months from the date of grant of this licence, submit to the Agency for its agreement a Schedule of 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, within twelve 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 establish and maintain written Corrective Action Procedures to ensure that corrective action is taken should specified requirements to this licence not be fulfilled.

2.5 Awareness and Training

2.5.1 The licensee shall establish and 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.

2.6 Responsibilities

2.6.1 Within twelve 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) details of the responsibilities for each individual named under a) above;
- c) details of the relevant experience, competence and qualifications held by each of the persons nominated under a) above; and
- d) contingency arrangements for the absences of the named persons from the facility.

2.7 Communications

2.7.1 Within twelve 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 the 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 guidance 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 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;
- the cessation of waste activities at the facility for a period in excess of 28 days, and their recommencement;
- g) any occurrence with the potential for environmental pollution; and,
- h) any emergency.
- 3.2 The written record shall include all aspects described in Condition 10.5
- 3.3 Unless otherwise instructed in writing by the Agency, the licensee shall notify the Agency by telephone and facsimile if available, as soon as practicable and in any case not later than 10.00am 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 Copies of all reports, numbers of copies, monitoring and analysis results and interpretations, shall be forwarded to the Agency's Headquarters unless an alternative location is agreed in writing with the Agency. The format of all reports and method of reporting shall be in accordance with any written instructions or guidance of the Agency.
- 3.7 Copies of all records and reports set out in Schedules A to F shall be forwarded to the Agency at the reporting frequencies set out in those Schedules.
- 3.8 In the event of any incident which relates to discharges to surface water, the licensee shall notify the Shannon Regional Fishery Board as soon as practicable by telephone and in writing (by facsimile if available) and in any case not later than 10:00am on the following working day after such an incident.
- 3.9 All written reports submitted to the Agency shall be certified accurate and representative by the licensee.
- 3.10 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.
- 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 on Drawing No. E066-03 Revision D entitled 'Proposed Site Plan Phase II':
 - 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 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;
 - e) the quantity of the waste, recorded in tonnes;
 - f) the name of the person checking the load; and,
 - g) where loads or wastes are removed or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed.
- 3.14 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 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 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 1200 mm 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 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;
 - f) the licence reference number.
- 4.3 Site Security

- 4.3.1 The existing security fence and gates shall be maintained such that unauthorised access to the site shall be prevented.
- 4.3.2 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 in writing with the Agency.
- 4.3.3 Gates shall be locked when the facility is unsupervised.

4.4 Site Roads

- 4.4.1 The primary access road and haul roads shall be provided and maintained to the specification given in Attachment D.1.2 of the application.
- 4.5 The licensee shall provide and maintain an office on the facility, at the location shown in Drawing No. E066-03 Revision D entitled 'Proposed Site Pan Phase II' received as further information on 27th November 1998. and referred to thereon as the 'Hut'. 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 facsimile machine in the office specified in Condition 4.5 above.
- 4.7 Within three months from the date of grant of this licence, the licensee shall submit to the Agency for its agreement, detailed plans for the area referred to in Attachment D.1.h of the application as the Waste Inspection and Quarantine Area. The licensee shall ensure that this area shall be constructed and maintained in a manner suitable and be of a size appropriate for the inspection of waste and subsequent quarantine if required. The waste inspection area and the waste quarantine area shall be suitably and clearly segregated from each other.
- 4.8 Within six months of the date of grant of this licence, details for a Civic Waste Facility at the site shall be submitted for agreement to the Agency.
- 4.9 Within three months of the date of grant of this licence a proposal for the storage of waste oil to be collected at the site by a specialist contractor for recovery shall be submitted for agreement to the Agency.
- 4.10 Unless otherwise agreed in writing with the Agency, the storage of White Goods will be at the White Goods Holding Compound as shown on Drawing No. E066-03 Revision D entitled 'Proposed Site Plan - Phase II' received as further information on 27th November 1998.
- 4.11 Unless otherwise agreed in writing with the Agency, the licensee shall maintain the weighbridge at the location shown in Drawing No. E066-03 Revision D entitled 'Proposed Site Plan Phase II' received as further information on 27th November 1998.
- 4.12 Unless otherwise agreed in writing with the Agency, the licensee shall maintain the wheelwash at the location shown on Drawing No. E066-03 Revision D entitled 'Proposed Site Plan Phase II' received as further information on 27th November 1998. The wheel wash shall be inspected on a daily basis and drained as required. Accumulated silt shall be removed and disposed of at the working face.
- 4.13 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.

4.14 Unless otherwise agreed in writing with the Agency, the licensee shall maintain the septic tank system shown in Drawing E066-03 revision D entitled 'Proposed Site Plan - Phase II' received as further information on 27th November 1998.

4.15 Fuel Storage

- 4.15.1 Unless contained in mobile plant on the site, the licensee shall provide a bunded fuel storage area at a location to be agreed in writing with the Agency. Fuels shall be stored at these agreed locations.
- 4.15.2 Prior to the construction of the bunded fuel storage area referred to in 4.15.1 above, fuel shall be stored in a bunded tank to a specification agreed in advance in writing with the Agency.
- 4.15.3 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.
- 4.15.4 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 4.15.5 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 4.15.6 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 within six months of 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. 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.
- 4.15.7 All tanks and containers shall be labelled to clearly indicate their contents.

4.16 Specified Engineering Works

- 4.16.1 The licensee shall submit a written report on any proposed specified engineering works as defined in *Schedule E: Specified Engineering Works*, to the Agency for agreement prior to any works being carried out. No such works shall be carried out without the prior agreement of the Agency.
- 4.16.2 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.
- 4.16.3 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 individual(s) responsible for supervision of works and for quality assurance validation of works;
- h) records of any problems and the remedial works carried out; and
- i) any other information requested in writing by the Agency.
- 4.17 In the event that monitoring of local wells indicate that the facility is affecting the quantity and/or quality of the water supply the licensee shall submit to the Agency for its agreement and within a time specified in writing by the Agency, written proposals for the provision of an alternative supply of water to those affected.

4.18 Landfill Gas Management:

- 4.18.1 Within six months of the date of grant of the licence, a proposal for the upgrading of the open gas flare unit to an enclosed flare unit shall be submitted to the Agency for its agreement.
- 4.18.2 Within twelve months of the date of grant of this licence, a proposal for the utilisation of landfill gas as an energy resource shall be submitted to the Agency for agreement.
- 4.18.3 Within three months of the date of grant of this licence, the gas monitoring boreholes shown as G1 to G10 on the drawing entitled 'Ballydonagh National Grid Co-ordinates Monitoring Points' received as further information on 14th December 1998 shall be drilled at the locations shown thereon.
- 4.18.4 The licensee shall maintain all gas venting wells, pipework, valves, pumps flares and other infrastructure that form part of the landfill gas management scheme in a safe and fully operational manner.

4.19 Leachate Management

4.19.1 Unless otherwise agreed in writing with the Agency, leachate management at the facility shall be carried out as described in Attachment D.4 of the application and of the further information received on 27th November 1998.

4.20 Capping

4.20.1 Within three months of the date of grant of this licence, a detailed proposal to provide a temporary capping layer on Phase I where Phase I and Phase II are to be integrated on the completion of Phase II, shall be submitted to the Agency for its agreement.

Reason: To provide for the protection of the environment

CONDITION 5 WASTE ACCEPTANCE AND HANDLING

- 5.1. No hazardous or liquid waste shall be disposed of in the landfill.
- 5.2. Subject to Condition 5.1 only those Waste Types and quantities listed in Tables E.1.1, E.1.2 and E.1.3 of the Waste Licence application shall be disposed of in the landfill unless the prior written agreement of the Agency has been obtained.
- 5.3. Within six months of the date of grant of this licence, the licensee shall submit to the Agency for agreement written procedures for the acceptance of waste.
- 5.4. Wastes shall be checked at the working face to ensure that they comply with the requirements of the licence. Any wastes deemed to be in contravention of this licence and /or unsuitable for disposal at this facility shall be removed for disposal at an appropriate alternative facility.
- 5.5. The quantity of wastes to be accepted for disposal at the landfill, shall not exceed 40,000 tonnes per annum, unless otherwise agreed in writing with the Agency.
- 5.6. Unless the prior written agreement of the Agency is given, wastes shall not be deposited in any cell or part of the landfill, apart from cells 3 and 4 as shown on Drawing No. E066-03 Revision D entitled 'Proposed Site Plan Phase II' received as further information on 27th November 1998, after the date of grant of this licence.
- 5.7. Scavenging shall not be permitted at the facility.
- 5.8. Waste shall only be accepted at the facility between the hours of 8.30 to 16.30 Monday to Friday inclusive and 10.00 to 15.00 on Saturdays unless otherwise agreed in writing in advance with the Agency.
- 5.9. Unless the prior written agreement of the Agency is given, the following shall apply at the landfill:
 - a) only one working face shall exist at the landfill at any one time for the deposit of waste other than cover or restoration materials; and,
 - b) the working face of the landfill shall be no more than 2.5 metres in height after compaction, no more than 25 metres wide and have a slope no greater than 1 in 3.
- 5.10. The working face of the operational cell shall, at the end of each day, be covered with suitable material in the manner set down in Attachment E.4(f). Any cover material at any location within the facility which is eroded, washed off or otherwise removed shall be replaced by the end of the working day.
- 5.11. Within nine months of the date of grant of this licence, a proposal for the treatment of sewage sludge at the facility shall be submitted to the Agency for agreement.
- 5.12. Within nine months of the date of grant of this licence, a proposal for the recovery of construction and demolition waste at the facility shall be submitted to the Agency for agreement.
- 5.13. A steel wheeled compactor or other such vehicle as agreed in writing with the Agency shall be used for compacting all waste other than that used for restoration or construction purposes.

- 5.14. In order to prevent the formation of voids, all hollow objects and large articles deposited on the site shall be crushed, broken up, flattened or otherwise treated.
- 5.15. Wastes once deposited and covered shall not be excavated, disturbed or otherwise picked over without prior written agreement from the Agency
- 5.16. No smoking shall be allowed on the facility other than in the Control Hut as shown on Drawing No.E066-03 revision D entitled 'Proposed Site Plan Phase II' received as further information on 27th November 1998.

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 road network 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.
- 6.3. The measures and infrastructure as described in Attachment F.5 of the waste licence application shall be applied to control litter at the facility.
- 6.4. All loose litter accumulated within the facility and its environs, excluding that which is deposited on the working face, shall be removed and appropriately disposed of on a daily basis.
- 6.5. 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 and in any event by 10:00am of the next working day, after such waste is discovered. Such waste shall be disposed of at an appropriate facility.
- 6.6. The licensee shall ensure that all waste being delivered to the facility is appropriately covered.
- 6.7. In dry weather, site roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
- 6.8. The licensee shall ensure that the activities shall be carried out in a manner such that emissions including odours do not result in significant impairment of, or significant interference with amenities or the environment beyond the facility boundary.
- 6.9. Within six months of the date of grant of this licence, the licensee shall submit proposals, to prevent, control and eradicate infestations of insects, pests and vermin.
- 6.10. The licensee shall ensure that birds do not give rise to nuisance at the facility or the immediate area of the facility. The method used by the licensee to control birds at the facility shall not cause environmental pollution.

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 limit values set out in *Schedule G: Emissions* of this licence. There shall be no other emissions of environmental significance.
- 7.2. 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.
- 7.3. The licensee shall ensure that the activities shall be carried out in a manner such that emissions including odours do not result in significant impairment of, or significant interference with the environment beyond the facility boundary.
- 7.4. There shall be no clearly audible tonal component in the noise emissions from the activity at the facility boundary.
- 7.5. The following are the trigger levels for landfill gas emissions from the facility measured in any service on or immediately adjacent to the facility and/or at any other point located outside the body of the waste:
 - a) Methane, greater than or equal to 1.0% v/v; and
 - b) Carbon dioxide, greater than or equal to 1.5% v/v.
- 7.6. There shall be no direct emissions to groundwater.
- 7.7. 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, the environment beyond the facility.

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

CONDITION 8 RESTORATION AND AFTERCARE

- 8.1. The final profile of the facility shall be as shown in Map H.7 of the application entitled 'Proposed Completed Contours and Planting'. Within twelve months of the date of grant of this licence, the licensee shall submit details of landfilling, to achieve final contours, to the Agency for its agreement.
- 8.2. Restoration of the landfill shall be undertaken on a phased basis, the details of which shall be submitted to the Agency for agreement, within six months of the date of grant of this licence.
- 8.3. The Restoration and Aftercare Plan for the facility shall be based on the plan submitted as part of G1 of the waste licence application, the final details to be agreed, in advance of any works, in writing with the Agency. The licensee shall update these schemes when required by the Agency and submit amendments to the Agency for its agreement.
- 8.4. Completed areas of the landfill shall be profiled so that no depressions exist in which water may accumulate.

- 8.5. No material or object that is incompatible with the proposed restoration of the site shall be present within one metre of the final soil surface levels.
- 8.6. In areas where tree planting is proposed to be carried out above waste filled areas a synthetic barrier shall be used to augment the clay cap. Topsoil and subsoil depths shall be a minimum of 1m unless otherwise agreed in advance in writing with the Agency.

Reason: To provide for the restoration and aftercare of the facility.

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 in the Conditions of this licence.
- 9.2. Within three months from the date of grant of this licence, the licensee shall submit to the Agency for its agreement, monitoring proposals to detect off-site migration of landfill gas with particular regard to the possible increase in migration following the placement of the capping layer.
- 9.3. Within three months from the date of grant of this licence, the licensee shall submit to the Agency for its agreement details of the permanent gas monitoring system to be installed in the site office.
- 9.4. Within three months from the date of grant of this licence, a proposal for the inclusion of all private wells, within 500m of the facility, in the monitoring programme set out in *Schedule F* shall be submitted to the Agency for agreement.
- 9.5. Within three months of the date of grant of this licence, monitoring boreholes BH7 and BH8 are to be sunk in the locations shown on Figure J.1 of the Supplementary Report dated 8th May 1998. The national grid co-ordinates of the wells shall be submitted to the Agency upon completion of drilling.
- 9.6. The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and off-site points as required by the Agency. All ditches and drains located around the perimeter of the site are to be kept clear of silt such that monitoring can be carried out successfully.
- 9.7. Ionic balances shall be carried out on groundwater and surface water monitoring results.
- 9.8. 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 environmental parameter.
- 9.9. 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.
- 9.10. 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.

- 9.11. 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.
- 9.12. A topographical survey including the void space shall be carried out within three months of the date of grant of this licence. It shall be repeated annually thereafter. The survey shall be in accordance with any written instructions issued 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 licensee shall, within six months of 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. The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility. Once used the absorbent material shall be disposed of at an appropriate facility.
- 10.3. All significant spillages, including all spillages of greater than 100 litres, other than water, 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. 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;
 - 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) identify and put in place measures to avoid reoccurrence of the incident, and;
 - g) 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 £ 12.045 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 licensee 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 this licence to 31st December 1999 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 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. Financial Provision for Closure, Restoration and Aftercare
 - 11.2.1. The licensee shall from a date to be set by the Agency establish and maintain a fund, or other form of approved security, that is adequate to assure the Agency that the licensee is at all times financially capable of implementing the Restoration and Aftercare Plan required by Condition 8.2. The type of fund and means of its release/recovery shall be agreed in writing by the Agency prior to its establishment.
 - 11.2.2. The fund shall be maintained in an amount always sufficient to underwrite the current Restoration and Aftercare Plan.
 - 11.2.3. The licensee shall revise the cost of aftercare and restoration annually and any details of the necessary adjustments to the fund must, within two weeks of the revision, be forwarded to the Agency for agreement. Any adjustment agreed by the Agency shall be effected within four weeks of said written agreement.
 - 11.2.4. Unless otherwise agreed any revision to the fund shall be computed using the following formula:

Cost = (ECOST x WPI) + CiCC

Where:

Cost = Revised restoration and aftercare cost

ECOST = Existing restoration and aftercare cost

WPI = Appropriate Wholesale Price Index [Capital Goods Building & Construction (i.e. Materials & Wages) Index], as published by the Central Statistics Office, for the year since last closure calculation/revision.

CiCC = Change in compliance costs as a result of change in site conditions, changes in law, regulations, regulatory authority charges, or other significant changes.

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 MAN	NAGEMENT ACT, 1996: THIRD SCHEDULE Note 1
Class 1.	Deposit on, in or under land (including landfill).
	This activity is limited to the disposal of non hazardous waste.
Class 4	Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.
	This activity is limited to the storage of leachate, fire water and surface water at the facility.
Class 5	Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.
	This activity is limited to the deposition of waste in the landfill.
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.
	This activity is limited to the storage of waste in the Quarantine Area and in skips in the Public Facility area.

Note 1: Any reference to an activity Class is to be taken as being from the Third Schedule of the Waste Management Act, 1996, unless otherwise stated.

1996, unless otherwise	stated.		
WASTE MANAGEMENT ACT, 1996: FOURTH SCHEDULE Note 1			
Class 2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).		
	This activity is limited to the storage prior to recycling of waste oils and the receipt, holding and collection of organic wastes in the civic waste facility area.		
Class 3	Recycling or reclamation of metals and metal compounds.		
	This activity is limited to receipt, holding and collection of metal containers, scrap cars, white goods and cans.		
Class 4	Recycling or reclamation of other inorganic materials.		
	This activity is limited to receipt, holding and collection of bottle glass, clothing, car batteries, household hazardous waste etc.		
Class 11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.		
	This activity is limited to the use of compost for soil enhancement.		
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.		
	This activity is limited to the storage of waste in the public waste facility and the civic waste area.		

Note 1: Any reference to an activity Class is to be taken as being from the Fourth Schedule of the Waste Management Act, 1996, unless otherwise stated.

SCHEDULE B 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 to be specified in writing by the Agency

SCHEDULE C Content of the Annual Environmental Report

Annual Environmental Report Content NOTE 1

Reporting Period.

Waste activities carried out at the facility.

Quantity and Composition of waste received during the reporting period.

Total accumulated quantities of waste deposited.

Calculated remaining capacity of the site.

Year in which final capacity is expected to be reached.

Area occupied by waste.

Methods of deposition of waste.

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

Summary of results and interpretations of environmental monitoring.

Plan of all monitoring locations including 12 digit grid references.

Resource and energy consumption summary.

Proposed development of the site and timescale of such development.

Volume of leachate produced and volume of leachate transported / discharged off-site.

Report on development works undertaken during the reporting period (including site and void survey).

Proposed development works to be undertaken during the coming year.

Progress on restoration of completed cells/ phases.

Site survey showing existing levels of the site at the end of the reporting period.

Estimated annual and cumulative quantity of landfill gas emitted from the site.

Estimated annual and cumulative quantity of indirect emissions to groundwater.

Monthly water balance calculation and interpretation.

Estimated (projected) annual and cumulative infiltration from rainfall through capping layer and associated leachate quantities.

Meteorological Report.

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 operation of the facility.

Tank, pipeline and bund testing and inspection report.

Reported incidents summary.

Complaints summary.

Report on financial provision made under this licence.

Report on management and staffing structure of the facility.

Report on programme for public information.

NOTE 1 Content to be revised subject to the written agreement of the Agency after cessation of waste acceptance at the facility.

SCHEDULE D Recording and Reporting to the Agency

Table D.1 Recurring Reports

Report	Reporting Frequency Note1	Report Submission Date
Environmental Management System Updates	Annually	One month after the end of the year reported on.
Annual Environment Report (AER)	Annually	Eighteen months from the date of grant of licence and one month after the end of each year thereafter.
Record of incidents	As they occur	Within three days of the incident.
Specialised Engineering Works reports	As they arise	Prior to the works commencing.
Bund, tank and container integrity assessment	Every three years	Six months from the date of grant of licence and one month after end of the three year being reported on.
Indirect discharges to groundwater	Annually	Six months from the date of grant of licence and one month after the each year being reported on.
Monitoring of landfill gas	Quarterly	Ten days after end of the quarter being reported on.
Dust Monitoring	Annually	One month after end of the year being reported on.
Noise Monitoring	Annually	One month after end of the year being reported on.
Monitoring of Surface Water Quality	Quarterly	Ten days after end of the quarter being reported on.
Monitoring of Groundwater Quality	Quarterly	Ten days after end of the quarter being reported on.
Monitoring of Leachate Volumes	Quarterly	Ten days after end of the quarter being reported on.
Monitoring of Leachate levels and Composition	Quarterly	Ten days after end of the quarter being reported on.
Meteorological Monitoring	Annually	One month after end of the year being reported on.

Note 1: Unless altered at the request of the Agency

Table D.2 Once-off Reports

Report and Contents	Report Submission Date
Environmental Management System	Within twelve months of the date of grant of this licence.
(i)Schedule of Objectives and Targets	
(ii)Environmental Management Programme	
(iii)Management Structure	
(iv)Communication Programme	
Infrastructure	Within three months of the date of grant of this licence for (i) and (ii), six months for the remainder with the exception of (vii).
(i)Proposals for the Design of the Public Tipping Area and Access Road	
(ii)Waste Inspection & Quarantine Area	
(iii)Civic Waste Facility	
(iv)Bunded Fuel Storage Area	
(v) Waste Oil Storage Area	
(vi)Integrity and Water Tightness Testing Report	
(vii)Specified Engineering Works	prior to any works in Schedule E being carried out
(viii) Phased Restoration Details	
Surface water, Groundwater, Landfill Gas and Leachate	Item (i) within six months, item (iv) within twelve months and the remainder within three months of the date of grant of this licence.
(i)Active Landfill Gas Control System:Flare	
(ii)Off Site Migration of Landfill Gas Monitoring Proposals	
(iii)Proposals for Permanent Landfill Gas Monitoring System for the Site Office	
(iv)Proposals for Landfill Gas Utilisation	
Waste Acceptance	Item (i) within six months of the date of grant of this licence. Items (ii) and (iii) within nine months of the date of grant of this licence.
(i) Waste Acceptance Procedures	
(ii) Sewage Sludge	
(iii) C & D Waste	
Nuisances	Within six months of the date of grant of this licence.
(i)Noise Monitoring Proposals	
(ii)Proposals to Control & Eradicate Infestations of Insects, Pests and Vermin	
Emergency Response Procedures	Within six months of the date of grant of this licence.

SCHEDULE E Specified Engineering Works

Specified Engineering Works

Development of Phases and future Cells of the facility including preparatory works

Landfill cap installation, including temporary and intermediate capping and all other containment works (including any containment works relating to leachate control)

Fencing and site security works

Upgrading of the weighbridge system

Construction of civic waste facility and recycling areas

Bunding of fuel and oil storage areas

Installation of landfill gas management and monitoring systems

Installation of leachate management, detection, storage, treatment, monitoring and control systems

Installation of alternative drinking water supplies

Installation of groundwater control and/or monitoring systems

Surface water management works

Restoration and Aftercare Works

Any other works notified in writing by the Agency

SCHEDULE F Monitoring

F.1 Landfill Gas

Table F.1.1 Perimeter Monitoring Locations: Proposed.

STATION	NORTHING	EASTING
G1	209192	238675
G2	209170	238620
G3	209226	238553
G4	209290	238490
G5	209370	238527
G6	209400	238602
G7	209328	238643
G8	209348	238789
G9	209437	238628
G10	209280	238742
Flare Stack	209469	238612

Table F.1.2 Landfill Gas Monitoring

Parameter	Monitoring Frequency ¹		Analysis Method ² /Technique ³
	Perimeter Boreholes/Gas Vents/Wells within the waste	Site Office	
Methane	Monthly	Weekly	Infrared analyser/flame ionisation detector
(CH ₄) % v/v			ionisation detector
Carbon dioxide	Monthly	Weekly	Infrared analyser/ flame ionisation detector
(CO ₂) % v/v			ionisation detector
Oxygen	Monthly	Weekly	Infrared analyser
(O ₂) %v/v			
Atmospheric Pressure	Monthly	Weekly	Standard
Temperature	Monthly	Weekly	Standard

¹ This monitoring shall commence three months from the date of grant of this licence or from the installation of monitoring boreholes, whichever is the sooner.

² All monitoring equipment used should be intrinsically safe.

³Or other methods agreed in advance with the Agency.

F.2 Dust

Table F.2.1 Dust Monitoring Locations

STATION	EASTING	NORTHING
D1	209420	238605
D2	209304	238483
D3	209177	238622
D4	209210	238710
D5	209620	238806
D6	209465	238725

Table F.2.2 Dust Monitoring

Parameter (mg/m²/day)	Monitoring Frequency	Analysis Method/Technique
Dust	Annual ^{Note 2}	Standard Method ^{Note 1}

Note 1: Standard method VDI2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute)

Note 2: During the period May to September, or as otherwise specified in writing by the Agency.

F.3 Noise

Table F.3.1 Noise Monitoring Locations

STATION	EASTING	NORTHING
N1	209167	238655
N2	209277	238500
N3	209185	238615
N4	209200	238728
N5	209980	238400
N6	209879	237935
N7	209260	239000
N8	208905	238920
N9	208805	238873
N10	210517	238315

Table F.3.2 Noise Monitoring Frequency and Technique:

Parameter	Monitoring Frequency	Analysis Method/Technique
L(A) _{EQ} [30 minutes]	Annual	Standard ^{Note 1}
L(A) ₁₀ [30 minutes]	Annual	Standard ^{Note 1}
L(A) ₉₀ [30 minutes]	Annual	Standard ^{Note 1}
Frequency Analysis(1/3 Octave band analysis)	Annual	Standard ^{Note 1}

Note 1:"International Standards Organisation. ISO 1996. Acoustics - description and Measurement of Environmental noise. Parts 1, 2 and 3."

F.4 Surface Water

Table F.4.1 Monitoring Locations

STATION	EASTING	NORTHING
SW1	209860	238373
SW2	208983	239107
SW3	209551	238765

Table F.4.2 Water and Leachate - Parameters /Frequency

Parameter (Note 1)	SURFACE WATER** Monitoring Frequency	GROUNDWATER Monitoring Frequency	LEACHATE Monitoring Frequency
Visual Insurantian		N1/A	NI/A
Visual Inspection	Weekly	N/A	N/A
Groundwater Level	N/A*	Monthly	N/A
Leachate Level	N/A	N/A	Monthly
Ammoniacal Nitrogen	Quarterly	Quarterly	Biannually
BOD	Quarterly	N/A	Biannually
COD	Quarterly	N/A	Biannually
Chloride	Quarterly	Quarterly	Biannually
Dissolved Oxygen	Quarterly	Quarterly	N/A
Electrical Conductivity	Quarterly	Quarterly	Biannually
Odour/visual inspection	N/A	Quarterly	Biannually ^(Note 2)
рН	Quarterly	Quarterly	Biannually
Total Suspended Solids	Quarterly	N/A	Biannually
Temperature	Quarterly	Quarterly	Biannually
Boron	N/A	Quarterly	Biannually
Cadmium	Quarterly	Quarterly	Biannually
Calcium	Quarterly	Quarterly	Biannually
Chromium (Total)	Quarterly	Quarterly	Biannually
Copper	Quarterly	Quarterly	Biannually
Cyanide (Total)	N/A	Quarterly	Biannually
Fluoride	N/A	Quarterly	Biannually
Iron	Quarterly	Quarterly	Biannually
Nickel	Quarterly	Quarterly	Biannually
Lead	Quarterly	Quarterly	Biannually
List I/II organic substances (Note 3)	Quarterly	Quarterly	Biannually
Magnesium	Quarterly	Quarterly	Biannually
Manganese	Quarterly	Quarterly	Biannually
Mercury	Quarterly	Quarterly	Biannually
Phosphorus	Quarterly	Quarterly	Biannually

Table F.4.2 (Continued) Water and Leachate - Parameters /Frequency

Parameter (Note 1)	SURFACE WATER** Monitoring Frequency	GROUNDWATER Monitoring Frequency	LEACHATE Monitoring Frequency
Potassium	Quarterly	Quarterly	Biannually
Sulphate	Quarterly	Quarterly	Biannually
Sodium	Quarterly	Quarterly	Biannually
Total Alkalinity	Quarterly	Quarterly	Biannually
Total Phosphorus or orthophosphate	Annually	Annually	Annually
Total Oxidised Nitrogen	Quarterly	Quarterly	Biannually
Total Organic Carbon	Quarterly	Quarterly	Biannually
Residue on evaporation	N/A	Quarterly	Biannually
Arsenic	N/A	Quarterly	N/A
Barium	N/A	Quarterly	N/A
Selenium	N/A	Quarterly	N/A
Silver	N/A	Quarterly	N/A
Phenol	N/A	Quarterly	N/A
Zinc	Quarterly	Quarterly	Biannually
Faecal Coliforms	Annually	Annually ^{Note 4}	Annually ^{Note 4}
Total Coliforms	Annually	Annually ^{Note 4}	Annually ^{Note 4}

^{*} N/A means not applicable

- Note 1. All the analysis shall be carried out by a competent laboratory using standard and internationally accepted procedures. The testing laboratory and the testing procedures shall be agreed in writing with the Agency in advance.
- Note 2. Where there is evident gross contamination of leachate, additional samples should be analysed.
- Note 3. Representative samples of the leachate screened for the presence of organic compounds using Gas Chromatography/ Mass Spectrometry (GC/MS) or other appropriate techniques and using the List I/II Substances From EU Directive 76/464/EEC and 80/68/EEC as a guideline. Recommended analytical methods include: volatiles (US EPA method 524 or equivalent), semi-volatiles (US EPA method 525 or equivalent, and pesticides (US EPA method 608 or equivalent).
- Note 4. If there is evidence of bacterial contamination, the analysis at up gradient and downgradient monitoring points should include enumeration of total bacteria at 22°C, 37°C and faecal streptococci. The frequency should be increased to quarterly monitoring in cases where nearby wells may be of local importance for drinking water.

^{**} Where the receiving water body is protected under specific legislation (e.g. Bathing waters, Shellfish Waters) cognisance should be placed on the parameters listed and baseline and compliance monitoring should include any additional parameters required by the above legislation e.g. bacteriological analysis. Biological assessment may need to be considered in some instances.

F.5 Groundwater

The frequency of sampling and analysis is listed in the Table F.4.2.

Table F.5.1Monitoring Locations

STATION	EASTING	NORTHING
BH1	209525	238745
BH3	209529	238475
BH4	209116	238891
BH5	209373	238825
BH6	209864	238607
BH7	proposed	
BH8	proposed	

Grid references to be provided for all private wells (used or in use) within 500m of the facility as per Condition 9.4.

F.6 Leachate

The frequency of sampling and analysis is listed in the Table F.4.2.

Table F.6.1 Leachate Monitoring Locations

LEACHATE INSPECTION MANHOLES	EASTING	NORTHING
1	209437	238600
2	209420	238612
3	209403	238625
4	209391	238623
MH2A	209381	238682
MH3A	209348	238691
MH4A	209317	238705
MH5A	209287	238714

F.7 Meteorological

Table F.7.1 Meteorological Monitoring: Data to be obtained from Mullingar weather station.

Parameter	Monitoring Frequency	Analysis Method/Technique
Precipitation Volume	Daily	Standard
Temperature(min/max.)	Daily	Standard
Wind Force and Direction	Daily	Standard
Evaporation	Daily	Standard
Evapotranspiration	Daily	Standard
Humidity	Daily	Standard
Atmospheric Pressure	Daily	Standard

SCHEDULE G Emission Limits

G.1 Dust Deposition

Level (mg/m² /day)^{Note 1}
240

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

G.2 Landfill Gas Emission Limits

Measured in any building on or adjacent to the facility

Methane	Carbon Dioxide
20 % LEL (1% v/v)	1.5 % v/v

G.3 Noise Emissions

Measured at the perimeter of the facility

Night dB(A)L _{eq} (30 minutes)
Night db(A)Leq(30 mindles)
A.F.
45

Sealed by the seal of the Agency on the 24th day of March 1999.

PRESENT when the seal of the Agency was affixed hereto:

Declan Burns, Director/Authorised Person