

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

WASTE LICENCE

Waste Licence

Register Number:

36-1

Applicant:

Minchem Chemicals Limited

Location of Facility:

Tolka Quay Road

Dublin 1

Schedules - Table of Contents

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Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Act, 1996, the Environmental Protection Agency (the Agency) grants this waste licence, under Section 40(1) of the said Act, to MinChem Chemicals Limited, 4 Haddington Terrace, Dun Laoghaire, County Dublin, to carry on the waste activities listed below at Tolka Quay Road, Dublin 1 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 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 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.
Adequate lighting	20 lux measured at ground level.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of the waste licence application.
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.
Daytime	0800 hrs. to 2200 hrs.
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)	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 1.3 of this licence.
Hazardous Waste	As defined in Section 4 (2) of the Act.
Household Waste	As defined in Section 5 (1) of the Act, Household waste is waste produced within the curtilage of a building or self-contained part of a building used for the purposes of living accommodation.
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
Licence	A Waste Licence issued in accordance with the Act.

List I	Substances listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
List II	Substances listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
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	As defined in Section 5 (1) of the Act.
Night-time	2200 hrs to 0800 hrs.
Planning Authority	Dublin Corporation
Recovery	As defined in Section 4 (4) of the Act.
Sanitary Authority	Dublin Corporation
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 F of this licence.
The Licensee	MinChem Chemicals Limited
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.
Working Day	Monday to Friday 0800hrs to 1800 hrs.

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 the Site Plan, Drawing No.7015\ CD\001, Revision B, entitled 'Site Plan and Location Map' 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 specified in the notice;
 - b) that the licensee shall undertake the works stipulated in the notice, and/or otherwise comply with the requirements of the notice as set down therein, within any time-scale contained in the notice; and
 - c) that the licensee shall carry out any other requirement specified on the notice.

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

<i>Reason: To clarify the scope of this licence.</i>
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CONDITION 2 MANAGEMENT OF THE ACTIVITY

2.1 Environmental Management System.

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

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

2.2 Schedule of Environmental Objectives and Targets.

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

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

2.3 Environmental Management Programme.

2.3.1 The licensee shall, not later than nine 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 the specified requirements of 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 all personnel whose work is related to the licensed facility. Written records of training shall be maintained.

2.6 Responsibilities

2.6.1 Within three 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 arrangement 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 each calendar year thereafter, an Annual Environmental Report (AER).

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

2.9 The licensee shall employ a suitably qualified and experienced facility manager who shall be designated as the person in charge. The facility manager or a suitably qualified and experienced deputy, shall be present at all times during the operation of the facility.

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

Reason: To make provision for management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment.

CONDITION 3 NOTIFICATION AND RECORD KEEPING

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

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

- e) any malfunction of any environmental control system;
 - f) any indication that contamination has, or may have, taken place;
 - g) the cessation of waste activities at the facility for a period in excess of 28 days, and their recommencement
 - h) any occurrence with the potential for environmental pollution; and,
 - i) any emergency.
- 3.2 The written record of an incident shall include all aspects described in Condition 10.7.
- 3.3 Unless otherwise instructed in writing by the Agency, the licensee shall notify the Agency by telephone and facsimile 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 is 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 written notification, as a result of an incident occurring, the licensee shall forward a written report of those actions to the Agency as soon as practicable and no later than ten days after the initiation of those actions.
- 3.6 Copies of all reports, 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. All monitoring, analysis and investigation reports shall be accompanied by an interpretation.
- 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, or which affects the interests of the Local Authority, the licensee shall notify the Eastern Regional Fishery Boards and/or Dublin Corporation, as appropriate, 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 advance 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 by in writing by the Agency.
- 3.12 The licensee shall keep the following documents at the facility office shown in Drawing No. 7015\CD\001, Revision P1, "Site Plan and Location Map" :
- 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; and,
 - 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 and leaving 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 including relevant documentation and record numbers;
 - d) a description of the waste including the associated EWC codes and UN classification number;
 - e) the quantity of the waste accepted at the facility, recorded in tonnes;
 - f) the name of the person checking the load;
 - g) where loads or parts thereof are removed or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed;
 - h) the quantity of the waste leaving the facility, recorded in tonnes;
 - i) the destination of the load including a transfrontier shipment or other consignment number; and,
 - j) any other information which might be required from time to time subject to prior written agreement with the Agency.
- 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 in respect 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 1200mm by 750 mm.
- 4.2.2 The board shall clearly show:
- a) the name and telephone number of the facility;
 - b) the normal hours of 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; and,
 - f) the waste licence reference number.
- 4.3 Site Security
- 4.3.1 The licensee shall provide and maintain a 900mm high wall and a 2400mm high post and wire security fence along the front of the facility as detailed in Drawing No. 7015\CD\007 Revision 1, entitled 'Miscellaneous Details'. The licensee shall provide and maintain a 2400mm high post and wire security fence around the perimeter of the site as detailed in Drawing No. 7015\CD\003, Revision P1, entitled 'Proposed Site Layout'.
- 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 kept locked shut when the facility is unsupervised.
- 4.4 The licensee shall provide and maintain an office on the facility, at the location shown in Drawing No. 7015\CD\001, Revision P1, "Site Plan and Location Map". The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
- 4.5 The licensee shall provide and maintain a working telephone, computer and facsimile machine in the office specified in Condition 4.4 above.
- 4.6 The pallet store area, oxidising bay and bulk container area shown in Drawing No. 7015\CD\003 Revision P1, entitled 'Proposed Site Layout' shall drain only to the sumps shown thereon.

- 4.7 The hardstanding areas shown on Drawing No. 7025\CD\001 Revision P1, entitled 'Proposed Site Layout' shall drain only to the surface water manholes shown thereon.
- 4.8 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 4.9 Storage of Hazardous Waste Materials
- 4.9.1 All 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
 - b) 25% of the total volume of substance which could be stored within the bunded area.
- 4.9.2 All inlets, outlets, vent pipes, valves and gauges shall be within the bunded areas.
- 4.9.3 All 200-litre drums shall be stored on pallets or shelves and shall be no more than three high with each drum being easily accessible.
- 4.9.4 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 from the date of grant of this licence. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
- 4.9.5 The storage areas for the storage of toxic, corrosive and flammable hazardous waste materials shall be roofed as detailed in Drawing No. 7015\CD\013, Revision P1, entitled 'Drum Store Area Canopy G. A and Details'.
- 4.9.6 There shall be one bunded storage area which shall not be roofed. This shall be the area identified to store oxidising hazardous waste as shown in Drawing No. 7015\CD\003, Revision P1, entitled 'Proposed Site Layout'. Oxidising hazardous waste material shall be contained within a separately bunded and covered unit in this bunded storage area. No more than eight pallets of oxidising hazardous waste shall be placed within this unit. The use of this unroofed storage area for other hazardous or non-hazardous waste may be revised with the prior written agreement of the Agency.
- 4.10 Specified Engineering Works
- 4.10.1 The licensee shall submit a written report on any proposed specified engineering works, as defined in *Schedule F: 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.
- 4.10.2 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.

4.10.3 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; and
- i) any other information requested in writing by the Agency.

Reason: To provide for the protection of the environment

CONDITION 5 WASTE ACCEPTANCE AND HANDLING

- 5.1 Only those waste types and quantities listed in Table E.1.2 and Table E.1.3 of the Waste Licence application shall be accepted at the facility unless prior written agreement is received from the Agency.
- 5.2 All waste accepted at the facility shall be classified as per the United Nations publication entitled "Recommendations on the Transport of Hazardous Goods, Model Regulations" Tenth revised edition, published in 1997, prior to its' acceptance at the facility.
- 5.3 Each storage area as shown on Drawing No. FD-001, Revision B, entitled "Flow Diagram For Transfer Station", shall contain only those classes of waste shown thereon.
- 5.4 The classes of waste shown on Drawing No. FD-001, Revision B, entitled "Flow Diagram For Transfer Station", shall only be stored in those areas designated for them on that drawing.
- 5.5 Asbestos shall only be stored in locked containers. The licensee shall ensure that all asbestos received at the facility shall be contained in plastic bags or, where the asbestos is mixed with other wastes which might puncture plastic bags, rigid containers. Where plastic bags are used, the asbestos shall be double bagged. The inner bag shall be coloured red and the outer bag shall be transparent. All bags and containers used should be securely sealed and marked to clearly indicate their contents.
- 5.6 Waste shall only be accepted at the facility between the hours of 08:00 and 18:00 Monday to Friday inclusive, unless prior written agreement is received from the Agency.

- 5.7 All containers shall be uniquely marked using indelible or other permanent markings to clearly indicate their contents. All previous/ irrelevant markings and or labels shall be removed or obliterated.
- 5.8 No smoking shall be allowed on the facility other than in the Office as shown on Drawing No. 7015\CD\001, Revision P1, "Site Plan and Location Map".
- 5.9 All redrumming or other exposure of drum contents to the atmosphere shall take place indoors. Appropriate control measures shall be put in place to minimise fugitive emissions which may arise from such activity.

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

CONDITION 6 ENVIRONMENTAL NUISANCES

- 6.1 The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by vermin and odours. Written records shall be made of all inspections and any actions taken as a result of these inspections.
- 6.2 The licensee shall ensure that all vehicles delivering waste to the facility are fully enclosed.
- 6.3 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.
- 6.4 The licensee shall submit a Vermin Control Plan to the Agency within three months of the granting of this licence with the objective of the plan being to ensure that vermin do not give rise to nuisance at the facility or the immediate environment of the facility.

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: Emission Limits*. 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 supplied by the manufacturer/supplier or installer. Written records of the calibrations shall be made and kept by the licensee.
- 7.3 There shall be no direct emissions to groundwater.
- 7.4 There shall be no emissions to surface water.
- 7.5 Emissions to Sewer:
- a) No substance shall be present in such concentrations as would constitute a danger to sewer 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.

- b) The licensee shall permit authorised persons of the Agency and the Sanitary Authority to inspect, examine and test, at all reasonable times any works and apparatus installed, in connection with the discharge or emission, and to take samples of the discharge or emission.
- c) No discharge or emission to sewer shall take place which gives rise to any reaction within the sewer or to the liberation of by-products which may be of environmental significance.
- d) The licensee shall ensure that the discharge shall not contain dissolved methane, petroleum spirits or organic solvents (including chlorinated organic solvents), at concentrations which would give rise to flammable or explosive vapours in the sewer.
- e) 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.
- f) The licensee shall provide and maintain an inspection chamber in a suitable position in connection with each pipe through which a discharge or emission is being made. Each such inspection chamber or manhole shall be constructed and maintained by the licensee so as to permit the taking of samples of the discharge or emission.
- g) The licensee shall submit monitoring results to the Sanitary Authority on an annual basis.
- h) The acute toxicity of the undiluted final effluent for discharge, to at least four aquatic species, from different trophic levels shall be determined, by standardised and internationally accepted procedures and carried out by a competent laboratory. The name of the laboratory and the scope of testing to be undertaken shall be submitted, in writing, to the Agency, within three months of the date of grant of this licence. Once the testing laboratory and the scope of testing have been agreed by the Agency, the Agency shall decide when this testing is to be carried out and copies of all reports shall be submitted to the Agency within six weeks of the completion of testing.
- i) Having identified the more sensitive species, subsequent toxicity monitoring on the two most sensitive species shall be carried out. The Agency shall decide when this testing is to be carried out and copies of all reports shall be submitted by the licensee to the Agency within six weeks of completion to all testing.
- j) No substance shall be discharged in a manner, or at a concentration which, after additional dilution, causes tainting of fish or shellfish, interferes with normal patterns of fish migration or accumulates in sediments or biological tissues to the detriment of fish, wildlife or their predators.
- k) Surface water effluent shall be screened prior to discharge to remove gross solids and avoid blockages in the sewer.
- l) Any surface water collected from areas where barrels or containers are stored or washed shall be discharged to a sump. This water may be discharged to sewer if it does not exceed emission limit values specified in Table G.1 of Schedule G.
- m) A record or log book of cleaning maintenance and performance of each sump and storage tank shall be made available for inspection at all times by officials from the Sanitary Authority.

- n) In the event of accidental discharge, spillage or deposit of any diluting matter which enters or is likely to enter any waters or a sewer, the person responsible shall notify the Sanitary Authority as soon as is practicable thereafter.
- o) Sanitary Authority charges of £1,200.00 per annum should be made payable to Dublin Corporation directly. Sanitary Authority charges will increase from time to time in response to increased costs in providing drainage and monitoring.
- p) There shall be no discharge or emission to foul or surface water sewers of any waste classified under the Waste Management Act, 1996 which would cause a breach of the emission limits set out in Schedule G.1 of this licence.
- q) The licensee shall notify the Sanitary Authority and the Agency of any incident with the potential for environmental contamination of surface water or groundwater, or 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.
- r) The licensee shall notify the Local Authority and the Agency as soon as is practicable after the occurrence of any one of the following:
- (i) 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
 - (ii) any emission which relates to a discharge to sewer which does not comply with the requirements of this licence.
- s) Emission limits for emissions to sewer shall be interpreted as follows:
- For Continuous Monitoring:
No flow value shall exceed the specified limit.
- For Non-Continuous Monitoring:
No pH-value shall deviate from the specified rate
No temperature value shall exceed the emission limit value
For parameters other than pH, temperature and flow, eight out of ten consecutive results, calculated as daily mean concentration or mass emission values on the basis of flow proportional composite sampling, shall not exceed the limit value. No individual result similarly calculated shall exceed 1.2 times the emission limit value.
For parameters other than pH, temperature and flow, no grab sample value shall exceed 1.2 times the emission limit value
- t) The licensee shall provide safe and permanent access to the final effluent discharge point to the sewer.

emission
exceed 1.2

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

CONDITION 8 DECOMMISSIONING AND AFTERCARE

- 8.1 A proposal for a Decommissioning and Aftercare Plan for the facility shall be submitted to the Agency within six months of the date of grant of the licence. The licensee shall update these schemes when required in writing by the Agency and submit proposed amendments to the Agency for its agreement.

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 E: Monitoring* and as specified by the conditions of this licence.
- 9.2 Monitoring of liquid to be discharged to sewer shall be carried out at the location marked SW1 as shown on the drawing entitled 'Monitoring Points Layout' revision A.
- 9.3 The licensee shall ensure that no adverse chemical or other reaction occurs in the main sump (of dimensions 3m x 3m), as shown on Drawing No. 7015\CD\003, Revision P1 entitled "Proposed Site Layout", either as a result of the combination of the liquids collected in the bunded storage area sumps or for any other reason.
- 9.4 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.
- 9.5 Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturers instructions so that all monitoring results accurately reflect any emission or discharge or other environmental parameter.
- 9.6 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.
- 9.7 Unless otherwise agreed in writing with the Agency, a written record shall be kept of the names, qualifications and a summary of relevant experience of all persons who carry out any sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring.
- 9.8 The licensee shall maintain all sampling and monitoring points so that they may be used for the representative sampling and monitoring of emissions from the facility.

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

CONDITION 10 CONTINGENCY ARRANGEMENTS

- 10.1 The licensee shall, within six months from the date of grant of this licence, submit a written Emergency Response Procedure (ERP) to the Agency for its agreement. The ERP shall address any emergency situation which may originate on the facility and shall include provision for minimising the effects of any emergency on the environment.
- 10.2 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 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 All liquid collected in sumps, other than that collected in the main sump, shall be deemed hazardous waste and shall be pumped into drums or other appropriate

containers and disposed of or recovered accordingly. The collection of such liquid shall be treated as an incident.

- 10.5 A fire at the facility shall be treated as an emergency. Immediate action shall be taken to extinguish it and the appropriate authorities notified.
- 10.6 The licensee shall carry out a risk assessment to examine the existing arrangements for the storage of fire water and shall ensure that the requirements at the facility for fire fighting and fire water retention facilities are met. The Chief Fire Officer of Dublin Corporation shall be consulted by the licensee during this assessment. Within six months from the date of grant of this licence, the licensee shall submit a report, including recommendations, on the risk assessment to the Agency for its agreement.
- 10.7 In the event that any monitoring, sampling or observations indicate that an incident has, or may have, taken place, the licensee shall immediately:
- a) identify the date, time and place of the incident;
 - b) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission;
 - c) isolate the source of the emission;
 - d) evaluate the environmental pollution, if any, caused by the incident;
 - e) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
 - f) identify and put in place measures to avoid recurrence 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 £9,889 or such sum as the Agency from time to time determines, towards the cost of monitoring the activity or otherwise in performing any functions in relation to the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996. The licensee shall in 2000 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Consumer Price Index from the date of the grant of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 1999, the licensee shall pay a pro rata amount from the date of grant of this licence to 31st December 1999. This amount shall be paid to the Agency within one month from the date of grant of this licence.

11.2 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.

11.3 Environmental Liabilities

- 11.3.1 The licensee shall arrange for the completion of a comprehensive and fully costed Environmental Liabilities Risk Assessment for the facility which will address liabilities arising from the carrying on of the activities to which this licence relates or in consequence of ceasing to carry on those activities. A report on this assessment shall be submitted to the Agency for agreement within six months of date of grant of this licence.
- 11.3.2 Within nine months of the date of grant of this licence, the licensee shall make a Proposal for Financial Provision to the Agency for its agreement to cover any liabilities incurred by the licensee in carrying on the activities to which this licence relates or in consequence of ceasing to carry on those activities. Such provision shall be maintained unless otherwise agreed in writing by the Agency.
- 11.3.3 The amount of financial provision, held under Condition 11.3.2 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.
- 11.3.4 The licensee shall within two weeks of purchase, renewal or revision of the financial provision required under Condition 11.3.2, forward to the Agency written proof of such indemnity.

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

SCHEDULE A Waste Activities

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

WASTE MANAGEMENT ACT,1996: THIRD SCHEDULE <i>Note 1</i>	
Class 12.	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule: This activity is limited to emergency incidents only, such as after a spillage or on receipt of a faulty container, repackaging of waste may be required.
Class 13.	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste was produced: This activity is limited to the storage of waste at the facility.

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

WASTE MANAGEMENT ACT,1996: FOURTH SCHEDULE <i>Note 2</i>	
Class 13.	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste was produced: This activity is limited to the storage of waste that may be subsequently be used in the destination facility in a recovery operation such as the generation of energy or the recovery of materials such as Hydrochloric acid or carbon for use in activated carbon units.

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



SCHEDULE B Content of the Environmental Management Programme

Environmental Management Programme

Details of Operator

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

Types of Waste Accepted

A detailed description of the types of waste that can be accepted on the site should be given.

Quantity of Wastes Accepted

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

Engineering Details

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

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

Operational Matters

These should include:

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

Objectives and Targets

Objectives and targets for improving the environmental performance of the facility shall be detailed.

These should include:

- emissions
- resource use
- wastes produced.

Environmental Management Programme

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

Designation of Responsibility for Achieving Targets and Objectives

Emergency Procedures

Schedule of Drawings

Other items specified by the Agency

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SCHEDULE C Content of the Annual Environmental Report

Annual Environmental Report Content
Reporting Period.
Waste activities carried out at the facility.
Report on hazardous waste streams including the quantity and composition of waste accepted at the facility and exported from the facility during the reporting period and the EWC codes of such waste.
Total amount of waste being held at the facility at the time of the report.
Summary report on emissions (Certified results/data sheets to be attached as Appendices).
Summary of results and interpretations of environmental monitoring.
Resource and energy consumption summary.
Proposed future development of the site and timescale of such development.
Report on development works undertaken during the reporting period.
Estimated annual and cumulative quantity of indirect emissions to groundwater.
Environmental Management Programme - Proposal and 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.
Drums, pipeline, 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.



SCHEDULE D Recording and Reporting to the Agency

Table D(i) Recurring Reports

Report	Reporting Frequency ^{Note 1}	Report Submission Date
Environmental Management System Updates	Annually	One month after the end of the year reported on
Annual Environment Report (AER)	Annually	Twelve 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 five days of the incident
Cessation/Re-activation of an activity in accordance with Condition 3.1	As they arise	Fourteen days in advance of cessation/re-activation
Specified Engineering Works reports	As they arise	Prior to the works commencing
Bund, drum and container integrity assessment	3 yearly	Six months from the date of grant of licence and one month after end of the year being reported on
Monitoring of:		
(i) Surface Water Runoff and Quality	Biannually	Ten days after end of the six months being reported on
(ii) Groundwater Quality	Quarterly	Ten days after end of the quarter being reported on
Air 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

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

Table D(ii) Once-off Reports

Report	Report Submission Date
Environmental Management System	Within twelve months from the date of grant of licence
Schedule of Environmental Objectives and Targets	Within four months from the date of grant of this licence
Environmental Management Programme	Within nine months from the date of grant of licence
Management and manning levels	Within three months from the date of grant of licence
Communications Programme.	Within twelve months from the date of grant of licence
Emergency Response Procedure	Within six months from the date of grant of licence
Vermin Control Plan	Within three months from the date of grant of licence
Risk Assessment, Fire Fighting and Fire-water retention study	Within six months from the date of grant of licence
Decommissioning and Aftercare Plan - Proposal	Within six months from the date of grant of licence
Risk Assessment, Environmental Liabilities	Within six months from the date of grant of licence
Proposal for Financial Provision	Within nine months from the date of grant of licence

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SCHEDULE E Monitoring

All monitoring frequencies and programmes listed in this Schedule are subject to alteration under Condition 9 or as a result of an incident.

E.1: Monitoring of Emissions to Sewer

Sewer Monitoring Point Reference Numbers: **(Drawing entitled 'Monitoring Points Layout' Revision A,).**

Table E.1.1 Sewer Monitoring Locations

STATION	EASTING	NORTHING
SURFACEWATER MONITORING POINT 1 (SM1)	319757	234953

Table E.1.2 Sewer Monitoring Frequencies

Parameter	Monitoring Frequency ^{Note1}
BOD	Prior to Discharge
COD	Prior to Discharge
Suspended Solids	Prior to Discharge
Fats, Oil, Grease	Prior to Discharge
Detergents (as MBAS)	Prior to Discharge
Temperature	Prior to Discharge
pH	Prior to Discharge
Total Ammonium (as N)	Prior to Discharge
Molybdate Reactive Phosphate (PO₄ as P)	Prior to Discharge
Organic Solvents	See note 2 below
Mineral Oil	Prior to Discharge
Zinc	Prior to Discharge
Copper	Prior to Discharge
Lead	Prior to Discharge
Chromium	Prior to Discharge
Nickel	Prior to Discharge
Toxicity Units	Quarterly

Note 1: With the exception of Toxicity Units and regardless of discharge frequencies; monitoring of the parameters in Table E.1.2 shall be carried out at least once every calendar month.

Note 2: Screening for a priority polluting list substances is required (such as CLP 40, US EPA volatile and /or semi-volatile). A total concentration for BTX compounds in this sample should be determined by whatever method is chosen.

E.2: Air

Air Monitoring Point Reference Numbers: **(Drawing entitled ‘Monitoring Points Layout’ Revision A,).**

Table E.2.1 Air Monitoring Locations

STATION	EASTING	NORTHING
AIR SAMPLE LOCATION 1	319779	235032
AIR SAMPLE LOCATION 2	319779	234975

Table E.2. 2 Air Monitoring

Parameter	Monitoring Frequency	Analysis Method/Technique
Particulate Content (mg/m ³)	Annually	standard ^{Note 1}
Volatile Organic Compounds	Annually	standard ^{Note 1}

Note 1: All analyses shall be carried out by a competent laboratory using standard and internationally acceptable techniques. The testing laboratory and the testing technique shall be agreed in writing with the Agency in advance.

E.3: Noise

Noise Monitoring Point Reference Numbers: **(Drawing entitled ‘Monitoring Points Layout’ Revision A,).**

Table E.3.1 Noise Monitoring Locations

STATION	EASTING	NORTHING
Noise Monitoring Point 1	319779	234975
Noise Monitoring Point 2	319838	235032
Noise Monitoring Point 3	319779	235032
Noise Monitoring Point 4	319826	234996
Noise Monitoring Point 5	319803	234972

The frequency and method of sampling and analysis are listed in the following table:

Table E.3.2 Noise Monitoring

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

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

E.4: Groundwater

Groundwater Monitoring Point Reference Numbers: **(Drawing entitled 'Monitoring Points Layout' Revision A,).**

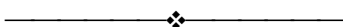
Table E.4.1 Groundwater Monitoring Locations

STATION	EASTING	NORTHING
GROUNDWATER MONITORING POINT 1	319820	235042
GROUNDWATER MONITORING POINT 2	319818	234978

Table E.4.2 Groundwater Monitoring

Parameter	Monitoring Frequency
Groundwater levels	Monthly
pH	Quarterly
Conductivity	Quarterly
Iron	Quarterly
Manganese	Quarterly
Copper	Quarterly
Aluminium	Quarterly
Total Ammonia	Quarterly
Non-purgable organic Carbon	Quarterly
Arsenic	Quarterly
Boron	Quarterly
Cadmium	Quarterly
Chromium	Quarterly
Lead	Quarterly
Mercury	Quarterly
Nickel	Quarterly
Selenium	Quarterly
Zinc	Quarterly
Volatile organic compounds	Quarterly
Semi-volatile organic compounds	Quarterly

Note 1: All analyses shall be carried out by a competent laboratory using standard and internationally acceptable techniques. The testing laboratory and the testing technique shall be agreed in writing with the Agency in advance.



SCHEDULE F Specified Engineering Works

Table F.1 Specified Engineering Works

Specified Engineering Works
Development of storage areas.
Installation of sumps or other drainage controls.
Installation of groundwater control and/or monitoring systems.
Installation of bunded fuel storage areas.
Any other works notified in writing by the Agency.



SCHEDULE G Emission Limits

G.1 Emissions to Sewer

Volume to be emitted: **Maximum in any one day: 60 m³**
Maximum rate per hour: 10 m³
Maximum rate per second: n/a

Table G.1 Emission Limit Values for emissions to sewer

Parameter	Emission Limit		Value
	Grab Sample (mg/l)	Daily Mean Concentration (mg/l)	Daily Mean Loading (kg/day)
BOD	20	15	0.9
COD	60	45	0.7
Suspended solids	30	25	1.5
Detergents (as MBAS)	10	10	0.6
Fats, Oils, Grease	10	10	0.6
pH	6 - 9	-	-
Temperature	25 degrees C	-	-
Total Ammonium (as N)	2.0	2.0	0.12
Molybdate Reactive Phosphate (PO ₄ as P)	1.0	1.0	0.06
Mineral Oil	10.0	10.0	0.60
Benzene, Toluene and Xylene (combined)	0.1	0.1	0.006
Zinc	2.0	2.0	0.12
Copper	2.0	2.0	0.12
Lead	2.0	2.0	2.0
Chromium	2.0	2.0	2.0
Nickel	2.0	2.0	0.12
Toxicity Units	-	10.0	-

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Sealed by the seal of the Agency on this 26th day of February 1999.

PRESENT when the seal of the Agency was affixed hereto:

 Dr. Padraic Larkin, Director/ Authorised Person