



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

**WASTE LICENCE
Recommended Decision**

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| Licence Register Number: | W0192-03 |
| Applicant: | Rilta Environmental Ltd. |
| Location of Facility: | Block 402, Grant's Drive, Greenogue Business Park, Rathcoole, Co. Dublin. |

INTRODUCTION

This introduction is not part of the licence and does not purport to be a legal interpretation of the licence.

Rilta Environmental Limited operate a hazardous waste treatment facility at Greenogue Business Park, Rathcoole, County Dublin. The quantity of waste to be accepted at the facility is limited to 111,000 tonnes per annum consisting of hazardous waste, commercial waste, construction and demolition waste, industrial sludges and industrial waste.

The facility comprises two main buildings which house three distinct operations:

- (i) Drum Recovery Centre
Reconditioning or recycling of empty industrial packaging such as steel drums, plastic drums and intermediate bulk containers (IBCs). There are 3 emission points to atmosphere from the Drum Recovery Centre.
- (ii) Hydrocarbon Waste Treatment Centre
Treatment/recovery of hydrocarbon-contaminated waste from sources such as bilge tanks of ships, petrol stations and oil spills. Trade effluent arising from the waste treatment is discharged to sewer under the consent of the Water Services Authority (South Dublin County Council).
- (iii) Hazardous Waste Transfer Station
Bulking up and transfer of hazardous waste (including asbestos and contaminated soil) for disposal/recovery.

The licence review was required to facilitate the setting of a standard for processed fuel oil produced at this facility that can be sold for use in the asphalt/quarry sector as a substitute for heavy fuel oil. There is a requirement to assess the location of the infrastructure on-site to provide for the segregation of wastes.

This facility falls within the scope of Annex I of Council Directive 96/61/EC concerning Integrated Pollution Prevention and Control as the following activity is carried on at the facility:

Category 5.1: Installations for the disposal or recovery of hazardous waste as defined in the list referred to in Article 1(4) of Directive 91/689/EEC, as defined in Annexes IIA and IIB (operations R1, R5, R6, R8 and R9) to Directive 75/442/EEC and in Council Directive 75/439/EEC of 16 June 1975 on the disposal of waste oils (2), with a capacity exceeding 10 tonnes per day.

The licence sets out in detail the conditions under which Rilta Environmental Limited will operate and manage this facility.

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Glossary of Terms

All terms in this licence should be interpreted in accordance with the definitions in the Environmental Protection Agency Acts 1992 to 2007 / Waste Management Acts 1996 to 2008, unless otherwise defined in the section.

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| Adequate lighting | 20 lux measured at ground level. |
| AER | Annual Environmental Report. |
| Aerosol | A suspension of solid or liquid particles in a gaseous medium. |
| Agreement | Agreement in writing. |
| Annually | At approximately twelve-monthly intervals. |
| Application | The application by the licensee for this licence. |
| Appropriate Facility | A waste management facility, duly authorised under relevant law and technically suitable. |
| Attachment | Any reference to Attachments in this licence refers to attachments submitted as part of this licence application. |
| BAT | Best Available Techniques. |
| Biannually | All or part of a period of six consecutive months. |
| Biennially | Once every two years. |
| BOD | 5 day Biochemical Oxygen Demand (without nitrification suppression). |
| CEN | Comité Européen De Normalisation - European Committee for Standardisation. |
| COD | Chemical Oxygen Demand. |
| Commercial Waste | As defined in Section 5(1) of the Waste Management Acts 1996 to 2007 |
| Consignment Note | All movements of hazardous waste within Ireland must be accompanied by a "CI" consignment note issued by a Local Authority under the Waste Management (Movement of Hazardous Waste) Regulations (S.I. No. 147 of 1998) |
| Construction and demolition (C&D) waste | Wastes that arise from construction, renovation and demolition activities: Chapter 17 of the EWC or as otherwise may be agreed. |

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| Containment boom | A boom that can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses. |
| Daily | During all days of plant operation and, in the case of emissions, when emissions are taking place; with at least one measurement on any one day. |
| Day | Any 24 hour period. |
| Daytime | 0800 hrs to 2200 hrs. |
| dB(A) | Decibels (A weighted). |
| DO | Dissolved oxygen. |
| Documentation | Any report, record, results, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence. |
| Drawing | Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence. |
| EMP | Environmental Management Programme. |
| Emission limits | Those limits, including concentration limits and deposition rates, established in <i>Schedule B: Emission Limits</i> of this licence. |
| Environmental damage | As defined in Directive 2004/35/EC. |
| EPA | Environmental Protection Agency. |
| European Waste Catalogue (EWC) | A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2000/532/EC and any subsequent amendment published in the Official Journal of the European Community. |
| Facility | Any site or premises used for the purpose of the recovery or disposal of waste. |
| Fortnightly | A minimum of 24 times per year, at approximately two week intervals. |
| Gas Oil | Gas Oil as defined in Council Directive 1999/32/EC and meeting the requirements of S.I. No. 119 of 2008. |
| GC/MS | Gas chromatography/mass spectroscopy. |
| Green Waste | Waste wood (excluding timber), plant matter such as grass cuttings, and other vegetation. |
| ha | Hectare. |

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| Heavy metals | This term is to be interpreted as set out in "Parameters of Water Quality. Interpretation and Standards" published by the Agency in 2001. ISBN 1-84095-015-3. |
| HFO | Heavy Fuel Oil as defined in Council Directive 1999/32 EC and meeting the requirements of S.I. No. 119 of 2008. |
| Hours of operation | The hours during which the facility is authorised to be operational. |
| Hours of waste acceptance | The hours during which the facility is authorised to accept waste. |
| ICP | Inductively coupled plasma spectroscopy. |
| Incident | The following shall constitute as incident for the purposes of this licence: (i) an emergency; (ii) any emission which does not comply with the requirements of this licence; (iii) any exceedance of the daily duty capacity of the waste handling equipment; (iv) any trigger level specified in this licence which is attained or exceeded; and (v) any indication that environmental pollution has, or may have, taken place. |
| Industrial waste | As defined in Section 5(1) of the Waste Management Acts 1996 to 2008. |
| IPPC | Integrated Pollution Prevention & Control. |
| K | Kelvin. |
| kPa | Kilopascals. |
| Landfill Directive | Council Directive 1999/31 EC. |
| L_{eq} | Equivalent continuous sound level. |
| Licensee | Rilta Environmental Limited, Block 402 Grant's Drive, Greynogue Business Park, Rathcoole, County Dublin. |
| Liquid waste | Any waste in liquid form and containing less than 2% dry matter. |
| List I | As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments. |
| List II | As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments. |

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| Local Authority | South Dublin County Council. |
| Maintain | Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to perform its function adequately. |
| Mass flow limit | An emission limit value expressed as the maximum mass of a substance that can be emitted per unit time. |
| Mass flow threshold | A mass flow rate above which a concentration limit applies. |
| Mobile plant | Self-propelled machinery used for the emplacement of wastes or for the construction of specified engineering works. |
| Monthly | A minimum of 12 times per year, at intervals of approximately one month. |
| Municipal Waste | As defined in Section 5(1) of the Waste Management Acts 1996 to 2008 |
| Night-time | 2200 hrs to 0800 hrs. |
| Noise-sensitive location (NSL) | Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels. |
| Oil separator | Device installed according to the International Standard I.S. EN 858-2:2003 (Separator system for light liquids, (e.g. oil and petrol) Part 2: Selection of normal size, installation, operation and maintenance). |
| PRTR | Pollutant Release and Transfer Register. |
| Quarterly | All or part of a period of three consecutive months beginning on the first day of January, April, July or October. |
| Recyclable materials | Waste types, such as cardboard, batteries, gas cylinders etc. which may be recycled |
| Regional Fisheries Board | Eastern Regional Fisheries Board. |
| Sample(s) | Unless the context of this licence indicates to the contrary, the term samples shall include measurements taken by electronic instruments. |
| Sanitary effluent | Wastewater from facility toilet, washroom and canteen facilities. |
| SOP | Standard operating procedure. |
| Source segregated waste | Waste which is separated at source: meaning that the waste is sorted at the point of generation into a recyclable fraction(s) for separate collection (e.g., paper, metal, glass, plastic, bulk dry recyclables, biodegradables, etc..) and a residual fraction. The expression 'separate at source' shall be construed accordingly. |

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| Specified emissions | Those emissions listed in <i>Schedule B: Emission Limits</i> of this licence. |
| Specified engineering works (SEW) | Engineering works listed in <i>Schedule D: Specified Engineering Works</i> of this licence. |
| Standard method | A National, European or internationally recognised procedure (e.g. I.S. EN, ISO, CEN, BS or equivalent); or an in-house documented procedure based on the above references; a procedure as detailed in the current edition of "Standard Methods for the Examination of Water and Wastewater" (prepared and published jointly by A.P.H.A., A.W.W.A. & W.E.F.), American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA; or an alternative method as may be agreed by the Agency. |
| Storm water | Rain water run-off from roof and non-process areas. |
| Temporary Storage | In relation to waste is a period of less than six months as defined in the Waste Management Acts 1996 to 2008. |
| The Agency | Environmental Protection Agency. |
| TA Luft | Technical Instructions on Air Quality Control – TA Luft in accordance with art. 48 of the Federal Immission Control Law (BImSchG) dated 15 March 1974 (BGBl. I p 721). Federal Ministry for Environment, Bonn 1986, including the amendment for Classification of Organic Substances according to section 3.1.7 TA, Luft, published in July 1997. |
| TOC | Total organic carbon. |
| Trade effluent | Trade effluent has the meaning given in the Water Services Act, 2007. |
| Transfrontier Shipment Notification | Transfrontier Shipment Notification and movement tracking form numbers are required for all exports of waste from, into or through the State under the Waste Management (Shipments of Waste) Regulations (S.I. No. 419 of 2007) |
| Trigger level | A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee. |
| Wastewater | Contaminated water including water that has been used for washing and/or flushing (including foul water). |
| Water Services Authority | South Dublin County Council. |
| Weekly | During all weeks of plant operation and, in the case of emissions, when emissions are taking place; with at least one measurement in any one week. |
| WWTP | Waste water treatment plant. |

Decision & Reasons for the Decision

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this licence, any emissions from the activity will comply with and will not contravene any of the requirements of the Section 40(4) of the Waste Management Acts 1996 to 2008.

In reaching this decision the Environmental Protection Agency has considered the application and supporting documentation received from the applicant and the report of its inspector.

Part I Schedule of Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Acts 1996 to 2008, the Environmental Protection Agency (the Agency) proposes, under Section 46(8) of the said Acts to grant this Waste Licence to Rilta Environmental Limited, Block 402 Grant's Drive, Greenogue Business Park, Rathcoole, County Dublin to carry on the waste activities listed below at Block 402 Grant's Drive, Greenogue Business Park, Rathcoole, County Dublin subject to conditions, with the reasons therefor and the associated schedules attached thereto set out in the licence.

Licensed Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Acts 1996 to 2008

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| Class 7. | Physico-chemical treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 8 to 10 of this Schedule (including evaporation, drying and calcination). |
| Class 11. | Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule. |
| Class 12. | Repacking prior to submission to any activity referred to in a preceding paragraph of this Schedule. |
| Class 13. | Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced. |

Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2008

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| Class 2. | Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes). |
| Class 3. | Recycling or reclamation of metals and metal compounds. |
| Class 4. | Recycling or reclamation of other inorganic materials. |
| Class 6. | Recovery of components used for pollution abatement. |
| Class 8. | Oil re-refining or other re-uses of oil. |
| Class 13. | Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced. |

Part II Schedule of Activities Refused

On the basis of the information before it, the Environmental Protection Agency (the Agency), pursuant to its powers under Section 46(8) of the Waste Management Acts 1996 to 2008, proposes to refuse the following classes of activity.

None of the proposed activities as set out in the licence application have been refused.

Part III Conditions

Condition 1. Scope

- 1.1 Waste activities at this facility shall be restricted to those listed and described in *Part I Schedule of Activities Licensed*, and shall be as set out in the licence application or as modified under Condition 1.4 of this licence and subject to the conditions of this licence.
- 1.2 Activities at this facility shall be limited as set out in *Schedule A: Limitations* of this licence.
- 1.3 For the purposes of this licence, the facility authorised by this licence is the area of land outlined in dark blue on Drawing No. 4709-1101 Issue A of the application. Any reference in this licence to "facility" shall mean the area thus outlined in dark blue. The licensed activities shall be carried on only within the area outlined. Check with Gavin and old maps.
- 1.4 No alteration to, or reconstruction in respect of, the activity, or any part thereof, that would, or is likely to, result in
- (i) a material change or increase in:
 - the nature or quantity of any emission;
 - the abatement/treatment or recovery systems;
 - the range of processes to be carried out;
 - the fuels, raw materials, intermediates, products or wastes generated, or
 - (ii) any changes in:
 - site management, infrastructure or control with adverse environmental significance;
- shall be carried out or commenced without prior notice to, and without the agreement of, the Agency.
- 1.5 The facility shall be controlled, operated and maintained, and emissions shall take place as set out in the licence. All programmes required to be carried out under the terms of this licence become part of this licence.
- 1.6 This licence is for purposes of waste licensing under the Waste Management Acts 1996 to 2008 only and nothing in this licence shall be construed as negating the licensee's statutory obligations, or requirements under any other enactments or regulations.
- 1.7 This licence has been granted in substitution for the licence granted to the licensee on 29th May 2008 (Register No W0192-02). The previous IPPC licence (Reg No. W0192-02) is superseded by this revised licence.

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| <p><i>Reason: To clarify the scope of this licence.</i></p> |
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Condition 2. Management of the Facility

- 2.1 Facility Management
- 2.1.1 The licensee shall employ a suitable qualified and experienced facility manager who shall be designated as the person in charge. The facility manager or a nominated, suitably qualified and experienced deputy shall be present on the facility at all times during its operation or as otherwise required by the Agency.
- 2.1.2 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience as required and shall be aware of the requirements of this licence. In addition, the facility manager and his/her deputy shall successfully complete a FAS waste management training programme or equivalent agreed by the Agency.

2.2 Environmental Management System (EMS)

2.2.1 The licensee shall **maintain** an Environmental Management System (EMS). The EMS shall be updated on an annual basis.

2.2.2 The EMS shall include, as a minimum, the following elements:

2.2.2.1 Management and Reporting Structure.

2.2.2.2 Schedule of Environmental Objectives and Targets.

The licensee shall **maintain** a Schedule of Environmental Objectives and Targets. The schedule shall, as a minimum, provide for a review of all operations and processes, including an evaluation of practicable options, for energy and resource efficiency, the use of cleaner technology, cleaner production, and the prevention, reduction and minimisation of waste and shall include waste reduction targets. The schedule shall include time frames for the achievement of set targets and shall address a five-year period as a minimum. The schedule shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER).

2.2.2.3 Environmental Management Programme (EMP)

The licensee shall **maintain** an EMP, including a time schedule, for achieving the Environmental Objectives and Targets prepared under Condition 2.2.2.2. Once agreed the EMP shall be **maintained** by the licensee. It shall include:

- designation of responsibility for targets;
- the means by which they may be achieved;
- the time within which they may be achieved.

The EMP shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER).

A report on the programme, including the success in meeting agreed targets, shall be prepared and submitted to the Agency as part of the AER. Such reports shall be retained on-site for a period of not less than seven years and shall be available for inspection by authorised persons of the Agency.

2.2.2.4 Documentation

- (i) The licensee shall **maintain** an environmental management documentation system which shall be to the satisfaction of the Agency.
- (ii) The licensee shall issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

2.2.2.5 Corrective Action

The licensee shall establish procedures to ensure that corrective action is taken should the specified requirements of this licence not be fulfilled. The responsibility and authority for persons initiating further investigation and corrective action in the event of a reported non-conformity with this licence shall be defined.

2.2.2.6 Awareness and Training

The licensee shall **maintain** procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a

significant effect upon the environment. Appropriate records of training shall be maintained.

2.2.2.7 Communications Programme

The licensee shall **maintain** a Public Awareness and Communications Programme to ensure that members of the public can obtain information at the facility, at all reasonable times, concerning the environmental performance of the facility.

2.2.2.8 Maintenance Programme

The licensee shall **maintain** a programme for maintenance of all plant and equipment based on the instructions issued by the manufacturer/supplier or installer of the equipment. Appropriate record keeping and diagnostic testing shall support this maintenance programme. The licensee shall clearly allocate responsibility for the planning, management and execution of all aspects of this programme to appropriate personnel (see Condition 2.1 above).

2.2.2.9 Efficient Process Control

The licensee shall **maintain** a programme to ensure there is adequate control of processes under all modes of operation. The programme shall identify the key indicator parameters for process control performance, as well as identifying methods for measuring and controlling these parameters. Abnormal process operating conditions shall be documented, and analysed to identify any necessary corrective action.

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

Condition 3. Infrastructure and Operation

3.1 The licensee shall establish and maintain, for each component of the facility, all infrastructure referred to in this licence in advance of the commencement of the licensed activities in that component, or as required by the conditions of this licence. Infrastructure specified in the application that relates to the environmental performance of the installation and is not specified in the licence, shall be installed in accordance with the schedule submitted in the application.

3.2 Specified Engineering Works

3.2.1 The licensee shall submit proposals for all Specified Engineering Works, as defined in *Schedule D: Specified Engineering Works*, of this licence, to the Agency for its agreement at least two months in advance of the intended date of commencement of any such works. No such works shall be carried out without the prior agreement of the Agency.

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

3.2.3 Following the completion of all specified engineering works, the licensee shall complete a construction quality assurance validation. The validation report shall be made available to the Agency on request. The report shall, as appropriate, include the following information:

- (i) A description of the works;

- (ii) As-built drawings of the works;
- (iii) Records and results of all tests carried out (including failures);
- (iv) Drawings and sections showing the location of all samples and tests carried out;
- (v) Daily record sheets/diary;
- (vi) Name(s) of contractor(s)/individual(s) responsible for undertaking the specified engineering works;
- (vii) Records of any problems and the remedial works carried out to resolve those problems; and
- (viii) Any other information requested in writing by the Agency.

3.3 Facility Notice Board

3.3.1 The licensee shall maintain a Facility Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the board shall be 1200 mm by 750 mm.

3.3.2 The board shall clearly show:

- (i) the name and telephone number of the facility;
- (ii) the normal hours of operation;
- (iii) the name of the licence holder;
- (iv) an emergency out of hours contact telephone number;
- (v) the licence reference number; and
- (vi) where environmental information relating to the facility can be obtained.

3.3.3 A plan of the facility clearly identifying the location of each storage and treatment area shall be displayed as close as is possible to the entrance to the facility. The plan shall be displayed on a durable material such that is legible at all times. The plan shall be replaced as material changes to the facility are made.

3.4 Facility Security

3.4.1 There shall be no unauthorised public access to the facility.

3.4.2 Security and stockproof fencing and gates shall be maintained at the facility. The base of the fencing shall be set in the ground.

3.4.3 Gates shall be locked shut when the facility is unsupervised.

3.4.4 The licensee shall remedy any defect in the gates and/or fencing as follows:

- (i) A temporary repair shall be made by the end of the working day; and
- (ii) A repair to the standard of the original gates and/or fencing shall be undertaken within three working days.

3.5 Facility Roads and Site Surfaces

3.5.1 Effective site roads shall be provided and maintained to ensure the safe and nuisance-free movement of vehicles within the facility.

3.5.2 The licensee shall provide and maintain an impermeable concrete surface in all areas of the facility. The surfaces shall be concreted and constructed to British Standard 8110 or an alternative as agreed by the Agency.

3.5.3 Traffic layout at the facility shall be such that emergency services' vehicles shall have access to all parts of the facility at all times.

3.5.4 Surface water run-off from areas other than the weighbridge and vehicle wash area shall be discharged to surface water drainage system.

3.6 Facility Office

3.6.1 The licensee shall provide and maintain an office at the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.

- 3.6.2 The licensee shall provide and maintain a working telephone and a method for the electronic transfer of information at the facility.
- 3.7 Waste Inspection and Quarantine Areas
- 3.7.1 Waste inspection areas and separate waste quarantine areas shall be provided and maintained at the facility.
- 3.7.2 These areas 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 areas and the waste quarantine areas shall be clearly identified and segregated from each other.
- 3.7.3 The waste quarantine areas shall be secured, bunded and surfaced to deal with spillages.
- 3.8 Weighbridge and Vehicle Wash Area
- 3.8.1 The licensee shall provide and maintain a weighbridge and a vehicle wash area at the facility.
- 3.8.2 The vehicle wash area shall be used by all vehicles leaving the facility as required, to ensure that no wastewater or waste is carried off-site. All water from the weighbridge and vehicle wash areas (including surface water run-off) shall be directed to the wastewater drainage system.
- 3.8.3 The vehicle wash shall be inspected on a daily basis and drained as required. Silt, stones and other accumulated material shall be removed as required from the vehicle wash and disposed appropriately.
- 3.9 Waste handling, ventilation and processing plant
- 3.9.1 Items of plant deemed critical to the efficient and adequate processing of waste at the facility (including *inter alia* waste loading vehicles and ejector trailers) shall be provided on the following basis:-
- (i) 100% duty capacity;
 - (ii) 20% standby capacity on a routine basis; and
 - (iii) Provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment.
- 3.9.2 Prior to the shipment of processed fuel oil off-site the licensee shall prepare an updated report, which shall be agreed with the Agency, detailing the duty and standby capacity in tonnes per day, of all waste handling and processing equipment used at the facility. These capacities shall be based on the licensed waste intake, as per *Schedule A: Limitations*, of this licence.
- 3.9.3 The quantity of waste accepted at the facility on a daily basis shall not exceed the duty capacity of the equipment at the facility.
- 3.10 The licensee shall provide a dedicated area in the Hydrocarbon Treatment Centre for the treatment and storage of waste oils which shall include a waste inspection area, a waste quarantine area and dedicated waste oil and final product storage tanks. A drawing outlining the location of these facilities shall be agreed with the Agency prior to the shipment of reprocessed waste oil from the facility in accordance with Condition 3.2 of this licence.**
- 3.11 The licensee shall provide and use adequate lighting during the operation of the facility.
- 3.12 The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 3.13 In the case of composite sampling of aqueous emissions from the operation of the facility, a separate composite sample or homogeneous sub-sample (of sufficient volume as advised) shall be refrigerated immediately after collection and retained as required for EPA use.

- 3.14 The licensee shall clearly label and provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency. The requirement with regard to off-site points is subject to the prior agreement of the landowner(s) concerned.
- 3.15 Hazardous Waste Storage Areas, Tank, Sump, Container and Drum Storage Areas
- 3.15.1 All hazardous waste storage areas, tank, sump, container and drum storage areas shall be rendered impervious to the materials stored therein. Bunds shall be designed having regard to Agency guidelines 'Storage and Transfer of Materials for Scheduled Activities' (2004).
- 3.15.2 All hazardous waste storage areas, tank, sump, container and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:
- (i) 110% of the capacity of the largest tank or drum within the bunded area; or
 - (ii) 25% of the total volume of substance that could be stored within the bunded area.
- 3.15.3 All drainage from bunded areas shall be treated as hazardous waste unless it can be demonstrated to be otherwise. All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.15.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.15.5 All tanks, containers and drums shall be labelled to clearly indicate their contents.
- 3.16 The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility. Once used, the absorbent material shall be disposed of at an appropriate facility.
- 3.17 Silt Traps and Oil Separators
- The licensee shall install and maintain silt traps and oil separators at the facility to ensure that all storm water discharges, and wastewater (excluding toilet and canteen wastewater) discharges from the facility pass through a silt trap and oil separator in advance of discharge. For discharges to surface water, the separator shall be a Class I full retention separator which shall be fitted with a manual shut-off valve. For discharges to sewer, the interceptor shall be Class II full retention intercepter. The silt traps and separator shall be in accordance with I.S. EN-858-2: 2003 (separator systems for light liquids)
- 3.18 Fire-water Retention
- 3.18.1 In the event of a fire or a spillage to storm water, the site storm water shall be diverted to the firewater retention tank.
- 3.18.2 The licensee shall have regard to the Environmental Protection Agency Draft Guidance Note to Industry on the Requirements for Fire-Water Retention Facilities.
- 3.19 All pump sumps, storage tanks, lagoons or other treatment plant chambers from which spillage of environmentally significant materials might occur in such quantities as are likely to breach local or remote containment or separators, shall be fitted with high liquid level alarms (or oil detectors as appropriate).
- 3.20 The provision of a catchment system to collect any leaks from flanges and valves of all over-ground pipes used to transport material other than water shall be examined. This shall be incorporated into a Schedule of Environmental Objectives and Targets set out in Condition 2. of this licence for the reduction in fugitive emissions.
- 3.21 All wellheads, as shown on Figure 7.1 *Environmental Monitoring Location* of the licence application for Waste Licence Reg. No. W0192-02 shall be adequately protected to prevent contamination or physical damage.

- 3.22 Monitoring infrastructure which is damaged or proves to be unsuitable for its purpose shall be replaced within three months of it being damaged or recognised as being unsuitable.
- 3.23 The licensee shall, within three months of the date of grant of this licence, install/maintain in a prominent location on the site a wind sock, or other wind direction indicator, which shall be visible from the public roadway outside the site.
- 3.24 Natural gas or biodiesel meeting CEN standard EN14214 shall be used in the boilers on site. In the event of an interruption to the supply of natural gas or biodiesel, an alternative fuel such as gas oil may be used with the prior written agreement of the Agency.

Reason: *To provide for appropriate operation of the facility to ensure protection of the environment.*

Condition 4. Interpretation

- 4.1 Emission limit values for emissions to atmosphere in this licence shall be interpreted in the following way:
- 4.1.1 Non-Continuous Monitoring
- 4.1.1.1 For any parameter where, due to sampling/analytical limitations, a 30 minute sample is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value.
- 4.1.1.2 For flow, no hourly or daily mean value, calculated on the basis of appropriate spot readings, shall exceed the relevant limit value.
- 4.1.1.3 For all other parameters, no 30 minute mean value shall exceed the emission limit value.
- 4.1.1.4 Mass flow thresholds refer to a rate of discharge expressed in units of kg/h, above which the concentration emission limit value applies. Mass flow threshold rates shall be determined on the basis of a single 30 minute measurement (i.e. the concentration determined as a 30 minute average shall be multiplied by an appropriate measurement of flow and the result shall be expressed in units of kg/h).
- 4.1.1.5 Mass flow limits shall be calculated on the basis of the concentration, determined as an average over the specified period, multiplied by an appropriate measurement of flow. No value, so determined, shall exceed the mass flow limit value.
- 4.2 The concentration and volume flow limits for emissions to atmosphere specified in this licence shall be achieved without the introduction of dilution air and shall be based on gas volumes under standard conditions of:
- 4.2.1 In the case of non-combustion gases:
Temperature 273K, Pressure 101.3 kPa (no correction for oxygen or water content).
- 4.2.2 In the case of combustion gases:
Temperature 273K, Pressure 101.3 kPa, dry gas; 3% oxygen for gas fuels.
- 4.3 **Emission limit values for emissions to sewer in this licence shall be interpreted in the following way:**
- 4.3.1 **Continuous Monitoring**
- (i) **No flow value shall exceed the specific limit.**
- 4.3.2 **Composite Sampling**
- (i) **No pH value shall deviate from the specified range.**

(ii) For parameters other than pH and flow, based on flow proportional composite sampling, no individual result shall exceed the Daily Mean Concentration emission limit value or the Daily Mean Loading emission limit value.

4.3.3 Discrete Sampling

No grab sample value shall exceed the Grab Sample emission limit value or the pH and temperature emission limit value.

4.4 Where the ability to measure a parameter is affected by mixing before emission, then, with agreement from the Agency, the parameter may be assessed before mixing takes place.

4.5 Noise

Noise from the facility shall not give rise to sound pressure levels (Leq, T) measured at the boundary of the facility which exceed the limit value(s).

4.6 Dust and Particulate Matter

Dust and particulate matters from the activity shall not give rise to deposition levels which exceed the limit value.

Reason: To clarify the interpretation of limit values fixed under the licence.

Condition 5. Emissions

5.1 No specified emission from the facility shall exceed the emission limit values set out in Schedule B: Emission Limits of this licence. There shall be no other emissions of environmental significance.

5.2 No emissions, including odours, from the activities carried on at the site shall result in an impairment of, or an interference with amenities or the environment beyond the facility boundary or any other legitimate uses of the environment beyond the facility boundary.

5.3 The licensee shall ensure that all or any of the following:

- Vermin
- Birds
- Flies
- Mud
- Dust
- Litter

associated with the activity do not result in an impairment of, or an interference with, amenities or the environment at the facility or beyond the facility boundary or any other legitimate uses of the environment beyond the facility boundary. Any method used by the licensee to control or prevent any such impairment interference shall not cause environmental pollution.

5.4 No wastewater and/or contaminated surface water run-off shall be discharged to surface water drains or watercourses.

5.5 There shall be no direct discharge to groundwater.

5.6 Emissions to sewer

5.6.1 The licensee shall at no time discharge or permit to be discharged into the sewer any liquid matter or thing that is or may be liable to set or congeal at average sewer temperature or is capable of giving off any inflammable or explosive gas or any acid, alkali or other substance in sufficient concentration to cause corrosion to sewer pipes, penstock and sewer fittings or the general integrity of the sewer.

- 5.6.2 Materials classifiable as "Hazardous Wastes" under the Waste Management Acts 1996 to 2008, shall not be discharged to sewer.
- 5.6.3 Trade effluent shall be screened prior to discharge to remove gross solids and avoid blockages in the sewer.
- 5.6.4 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.
- 5.6.5 Non-trade effluent wastewater (e.g. firewater, accidental spillages) which occurs on site shall not be discharged to the sewer without the prior authorisation of the Water Services Authority.
- 5.6.6 The licensee shall maintain, or have maintained, the effluent treatment system, to comply with the requirements of this licence. Records of maintenance and desludging operations shall be kept on site for inspection purposes.
- 5.6.7 No substance shall be present in such concentrations as would constitute a danger to sewer maintenance personnel working in the sewerage system or would be damaging to the fabric of the sewer, or would interfere with the biological functioning of a downstream wastewater treatment plant.

Reason: *To provide for the protection of the environment by way of control and limitation of emissions and to provide for the requirements of the Water Services Authority in accordance with Section 52 of the Waste Management Acts 1996 to 2008.*

Condition 6. Control and Monitoring

- 6.1 Test Programme for the Waste Oil Treatment System
- 6.1.1 The licensee shall prepare to the satisfaction of the Agency, a test programme for operation of the Waste Oil Treatment System to the specification required to produce reprocessed waste oil in this licence. This programme shall be submitted to the Agency in advance of implementation.
- 6.1.2 The programme, following agreement with the Agency, shall be completed within three months of the commencement.
- 6.1.3 The criteria for the operation of the waste oil treatment system as determined by the test programme, shall be incorporated into the standard operating procedures.
- 6.1.4 The test programme shall as a minimum:
- (i) establish all criteria for the operation, control and management of the waste oil treatment equipment to ensure compliance with the emission limit values specified in this licence;
 - (ii) assess the performance of any monitors on the system and establish a maintenance and calibration programme for each monitor; and
 - (iii) establish all procedures for the sampling and analysis of incoming waste oils, intermediates produced in the waste oil treatment system and final product.
- 6.1.5 A report on the test programme shall be submitted to the Agency within one month of completion.

- 6.2 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and as in accordance with *Schedule C: Control & Monitoring* of this licence.
- 6.2.1 Analyses shall be undertaken by competent staff in accordance with documented operating procedures.
- 6.2.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics shall be determined.
- 6.2.3 Such procedures shall be subject to a programme of Analytical Quality Control using control standards with evaluation of test responses.
- 6.2.4 Where any analysis is sub-contracted it shall be to a competent laboratory.
- 6.3 The licensee shall ensure that:
- (i) sampling and analysis for all parameters listed in the Schedules to this licence; and
- (ii) any reference measurements for the calibration of automated measurement systems;
- shall be carried out in accordance with CEN-standards. If CEN standards are not available, ISO, national or international standards that will ensure the provision of data of an equivalent scientific quality shall apply.
- 6.4 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring has been agreed in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring facilities shall be put in place. The use of alternative equipment, other than in emergency situations, shall be as agreed by the Agency.
- 6.5 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the emission/discharge (or ambient conditions where that is the monitoring objective).
- 6.6 The licensee shall ensure that groundwater monitoring well sampling equipment is available installed on-site and is fit for purpose at all times. The sampling equipment shall be to Agency specifications.
- 6.7 All treatment/abatement and emission control equipment, **including waste processing equipment and infrastructure, shall be calibrated (where relevant)** and maintained in accordance with the instructions issued by the manufacturer/supplier or installer.
- 6.8 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the agreement of the Agency following evaluation of test results.
- 6.9 The licensee shall prepare a programme, to the satisfaction of the Agency, for the identification and reduction of fugitive emissions using an appropriate combination of best available techniques. This programme shall be included in the Environmental Management Programme.
- 6.10 The licensee shall carry out daily visual inspections of all bunded areas to detect any possible spillages. *The licensee shall carry out weekly visual inspections to assess all bunds and hardstanding areas for structural soundness and cracking/damage.*
- 6.11 The integrity and water tightness of all underground pipes, tanks, sumps, bunding structures and containers and their resistance to penetration by water or other materials carried or stored

therein shall be tested and demonstrated by the licensee. This testing shall be carried out by the licensee at least once every three years and reported to the Agency on each occasion. This testing shall be carried out in accordance with any guidance published by the Agency. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.

6.12 The drainage system (i.e., gullies, manholes, any visible drainage conduits and such other aspects as may be agreed) and bunds, silt traps and oil separators shall be inspected weekly and desludged as necessary. All sludge and drainage from these operations shall be collected for safe disposal. The drainage system, bunds, silt traps and oil interceptors shall be properly maintained at all times.

6.13 All foul sewer gullies, drainage grids and manhole covers shall be painted with red squares whilst all surfacewater discharge gullies, drainage grids and manhole covers shall be painted with blue triangles. These colour codes shall be maintained so as to be visible at all times during facility operation, and any identification designated in this licence (e.g. SW1) shall be inscribed on these manholes.

6.14 There shall be no direct wastewater discharge to sewer from the Drum Recovery Centre, Hydrocarbon Waste Treatment Area and the Hazardous Waste Transfer Centre, without the prior agreement of the Agency and the WSA. Wastewater from these areas shall be treated as hazardous waste unless it can be demonstrated to be otherwise. Such wastewater shall be disposed of in a safe and appropriate manner.

6.15 Storm Water

6.15.1 A visual examination of the storm water discharges shall be carried out daily. A log of such inspections, shall be maintained.

6.176.16A representative sample of effluent shall be screened for the presence of organic compounds and heavy metals within twelve months of date of grant of licence and annually thereafter.

6.186.17An inspection for leaks on all flanges and valves on over-ground pipes used to transport materials other than water shall be carried out weekly. A log of such inspections shall be maintained.

6.196.18Noise

The licensee shall carry out a noise survey of the site operations annually. The survey programme shall be undertaken in accordance with the methodology specified in the 'Environmental Noise Survey Guidance Document' as published by the Agency.

6.206.19Hydrocarbon Treatment Centre

6.20.16.19.1 The processing of aqueous and sludge waste at the facility shall be carried out as described in Section 2.3.2 Hydrocarbon Waste Treatment Centre of the EIS submitted to the Agency on 07th June 2007, unless otherwise agreed in writing by the Agency.

6.20.26.19.2 The processing of waste oil at the facility shall be carried out as described in Attachment D2 of this review application or as otherwise agreed in writing by the Agency having regard to the requirements of this licence.

6.20.36.19.3 The heating of waste oils shall be carried out at the appropriate temperature so as to avoid their combustion. A safety cutoff temperature detection unit shall be installed on the oil heating tanks and calibrated annually.

6.20.46.19.4 Treatment of waste in the Hydrocarbon Treatment Centre shall cease in the event of a breakdown of the on-site wastewater treatment system and wastewater shall be stored for removal off-site for disposal at an authorised facility to be agreed with the Agency.

6.216.20 The licensee shall take precautions to prevent accidental ignition or reaction of ignitable or reactive wastes. The waste shall be separated and protected from sources of ignition or reaction including but not limited to: open flames, smoking, cutting and welding, hot surfaces, frictional heat, sparks (static, electrical or mechanical), spontaneous ignition (e.g. heat-producing chemical reactions) and radiant heat.

6.226.21 Dust and Odour Control

6.22.16.21.1 ... 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.

6.22.26.21.2 The licensee shall provide adequate measures for the control of odours and dust emissions, including fugitive dust emissions, from the facility. Such measures shall as a minimum include the following:-

6.22.2.16.21.2.1 Dust curtains, or equivalent, shall be maintained on the entry/exit points from the facility buildings.

6.22.2.26.21.2.2 Odour Management System

6.22.2.36.21.2.3 Provision of 100% duty capacity and 50% standby capacity, back-ups and spares for the air handling, ventilation and abatement plant.

6.236.22 The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by litter, mud, dust and odours.

6.246.23 Pollutant Release and Transfer Register (PRTR)

The licensee shall prepare and report a PRTR for the site. The substance and/or wastes to be included in the PRTR shall be as agreed by the Agency each year by reference to EC Regulations No. 166/2006 concerning the establishment of the European Pollutant Release and Transfer Register and amending Council Directives 91/689/EEC and 96/61/EC. The PRTR shall be prepared in accordance with any relevant guidelines issued by the Agency and shall be submitted electronically in specified format and as part of the AER.

6.256.24 The licensee shall maintain a Data Management System for collation, archiving, assessing and graphically presenting the monitoring data generated as a result of this licence.

6.266.25 The licensee shall permit authorised persons of the Agency and Water Services Authority, to inspect, examine and test, at all reasonable times, any works and apparatus installed in connection with the process effluent and to take samples of the process effluent.

Reason: *To provide for the protection of the environment by way of treatment and monitoring of emissions and to provide for the requirements of the Water Services Authority in accordance with Section 52 of the Waste Management Acts 1996 to 2008.*

Condition 7. Resource Use and Energy Efficiency

7.1 The licensee shall carry out an audit of the energy efficiency of the site within one year of the date of grant of this licence. The audit shall be carried out in accordance with the guidance published by the Agency, "Guidance Note on Energy Efficiency Auditing". The energy efficiency audit shall be repeated at intervals as required by the Agency.

7.2 The audit shall review the findings and recommendations of the previous audit, dated 30th October 2006, and shall identify all practicable opportunities for energy use reduction and efficiency and the recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2 above.

- 7.3 The licensee shall identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible. Reductions in water usage shall be incorporated into Schedule of Environmental Objectives and Targets.
- 7.4 The licensee shall undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into the Schedule of Environmental Objectives and Targets.

Reason: *To provide for the efficient use of resources and energy in all site operations.*

Condition 8. Materials Handling

- 8.1 Disposal or recovery of waste on-site shall only take place in accordance with the conditions of this licence and in accordance with the appropriate National and European legislation and protocols.
- 8.2 Waste sent off-site for recovery or disposal shall be transported only by an authorised waste contractor. The waste shall be transported from the site of the activity to the site of recovery/disposal only in a manner that will not adversely affect the environment and in accordance with the appropriate National and European legislation and protocols.
- 8.3 The licensee shall ensure that, in advance of transfer to another person, waste shall be classified, packaged and labelled in accordance with National, European and any other standards which are in force in relation to such labelling.
- 8.4 The loading and unloading of materials shall be carried out in designated areas protected against spillage and leachate run-off.
- 8.5 Waste shall be stored in designated areas, protected as may be appropriate against spillage and leachate run-off. The waste shall be clearly labelled and appropriately segregated.
- 8.6 No waste classified as green list waste in accordance with the EU Shipment of Waste Regulations (Council Regulation EEC No. 1013/2006, as may be amended) shall be consigned for recovery without the agreement of the Agency.
- 8.7 Waste for disposal/recovery off-site shall be analysed in accordance with *Schedule C: Control & Monitoring* of this licence.
- 8.8 The licensee shall neither import waste into the State nor export waste out of the State except in accordance with the relevant provisions of Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14th June 2006 on shipments of waste and associated national regulations.
- 8.9 All waste processing shall be carried out indoors, in a designated building appropriate for the waste stream.
- 8.10 Waste oil reprocessing
- 8.10.1 **Waste oil processing shall be carried out in a designated area and in designated tanks and process vessels segregated from other aqueous and sludge wastes.**
- 8.10.2 **Processed waste oil produced in the Waste Oil Treatment System from waste oils specified in Table A.3 Schedule A and which meets the limits in Schedule C.8 shall only be used as a fuel in 'hot mix' plants in the asphalt/quarry sector as a substitute for HFO.**
- 8.10.3 **Waste oil which does not meet the criteria specified in this licence must be disposed of/recovered off-site in accordance with appropriate National and European legislation and protocols.**
- 8.11 Waste Acceptance and Characterisation Procedures
- 8.11.1 Waste shall only be accepted at the facility from Local Authority waste collection or transport vehicles or holders of valid waste collection permits, unless exempted or excluded, issued under the Waste Management (Collection Permit) Regulations 2007, or as may be amended.
- 8.11.2 The licensee shall maintain detailed written procedures and criteria for the acceptance, handling, sampling and bulking of all wastes to include decontamination.

labelling, compatibility testing, analysis, weighing, documentation, transfer, storage and record keeping.

- 8.11.3 No hazardous waste may be accepted at the facility unless:
 - 8.11.3.1 The licensee has been notified in advance of the types of waste (including EWC codes) and the date of delivery;
 - 8.11.3.2 The waste has been appropriately labelled using the relevant EWC codes;
 - 8.11.3.3 An effective procedure for accepting and handling the waste is in place and satisfactory staff training in the implementation of that procedure has been undertaken;
 - 8.11.3.4 The waste has been fully characterised and classified in accordance with the UN publication "Recommendations on the Transport of Hazardous Goods: Model Regulations" as amended. Where necessary, and particularly in the case of new customers or waste types, its characteristics and hazardous properties have been confirmed by the licensee by sampling and analysis in advance of arrival at the facility;
 - 8.11.3.5 A suitable designated storage area is immediately available at the facility; and
 - 8.11.3.6 A designated quarantine area is immediately available at the facility for any waste that does not conform with the pre-notification and which cannot be otherwise accepted at the facility.
- 8.11.4 Waste arriving at the facility shall be inspected and have its documentation checked at the point of entry to the facility and subject to this verification, weighed, recorded and directed to the Drum Recovery Centre, Hazardous Waste Transfer Station or Hydrocarbon Treatment Centre as appropriate. On arrival at the Hydrocarbon Treatment Centre the waste shall be directed to either the aqueous, sludge or waste oil processing areas. Only after such inspections may the waste be unloaded for storage or processed for disposal or recovery.
- 8.11.5 All waste deemed unsuitable for storage or processing at the facility and/or in contravention of this licence shall be immediately separated and removed from the facility at the earliest possible time. Temporary storage of such wastes shall be in a designated Waste Quarantine Area. Waste shall be stored under appropriate conditions in the quarantine area to avoid putrefaction, odour generation, the attraction of vermin and any other nuisance or objectionable condition.
- 8.11.6 A record of all inspections of incoming waste loads shall be maintained.
- 8.11.7 Waste shall be accepted at the facility only from known customers or new customers subject to initial waste profiling and waste characterisation off-site. The written records of this off-site waste profiling and characterisation shall be retained by the licensee for all active customers and for a two year period following termination of licensee/customer agreements.
- 8.12 Labelling of containers, drums and tanks
 - 8.12.1 No container, drum or tank whose contents are unknown and whose contents are not clearly displayed on the label, shall be accepted at the facility.
 - 8.12.2 All containers, including waste and fuel tanks and drums, shall be labelled to clearly indicate their contents. During storage, each container shall be accessible and shall be so placed as to allow for the reading of the label.
 - 8.12.3 All hazardous waste containers shall be uniquely marked with an identification code using indelible or other permanent or electronic markings. All containers shall be

marked or labelled to clearly indicate their contents. All previous markings and labels shall be defaced or crossed out.

8.13 Waste Repackaging

8.13.1 All containers accepted at the facility shall be whole and sound. Any leaking or otherwise ruptured drums or containers shall be overdrummed or the contents transferred to a sound container in a manner which will not adversely affect the environment. This operation shall only be carried out in bunded areas such that any spillage arising from the activity may be contained and collected.

8.13.2 All operations involving the transfer of contents referred to in Condition 8.14.1 shall take place indoors, protected against spillage, in a designated area to be agreed with the Agency. Appropriate control measures shall be put in place to minimise any emissions which may arise from such activity.

8.14 Waste and Chemical Storage Tracking System

8.14.1 An electronic waste and chemical storage tracking system shall be maintained at the facility.

8.14.2 The waste storage tracking system shall illustrate the location, identification code, volume and content of all waste containers held at the facility. The chemical storage tracking system shall illustrate the location, identification code, volume and content of all chemical containers whose volume exceeds 25 litres held at the facility.

8.14.3 The waste and chemical storage tracking system shall be updated daily by the end of each working day and shall be verified as updated by an authorised person or nominated deputy as identified under Condition 2.1.1.

8.15 Blending/Mixing/Bulking of Hazardous Wastes

8.15.1 Unless approved in writing, in advance, by the Agency the licensee is prohibited from mixing a hazardous waste of one category with a hazardous waste of another category or with any other non-hazardous waste.

8.15.2 Blending, mixing or bulking up of hazardous solids or liquid waste shall only be carried out inside the Hazardous Waste Transfer Station.

8.15.3 The compatibility of wastes to be bulked-up shall be established prior to such bulking up taking place. The procedures to be in place under Condition 8.12.2 shall consider any compatibility testing that may be required, including, as far as is possible, the identification of any potentially abnormal or unusual situations.

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| <p><i>Reason: To provide for the appropriate handling of material and the protection of the environment.</i></p> |
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Condition 9. Accident Prevention and Emergency Response

9.1 The licensee shall maintain a documented Accident Prevention Procedure that addresses the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary.

9.2 The licensee shall maintain a documented Emergency Response Procedure that addresses any emergency situation which may originate on-site. This procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary.

9.3 Incidents

9.3.1 In the event of an incident the licensee shall immediately:

- (i) carry out an investigation to identify the nature, source and cause of the incident and any emission arising therefrom;
- (ii) isolate the source of any such emission;
- (iii) evaluate the environmental pollution, if any, caused by the incident;
- (iv) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
- (v) identify the date, time and place of the incident;
- (vi) notify the Agency and other relevant authorities.

9.3.2 The licensee shall provide a proposal to the Agency for its agreement within one month of the incident occurring or as otherwise agreed by the Agency, to:

- (i) identify and put in place measures to avoid recurrence of the incident; and
- (ii) identify and put in place any other appropriate remedial actions.

9.4 Emergencies

9.4.1 In the event of a breakdown of equipment or any other occurrence which results in the closure of the facility, any waste arriving at or already collected at the facility shall be transferred directly to appropriate landfill sites or any other appropriate facility until such time as the facility is returned to a fully operational status. Such a breakdown event will be treated as an emergency and rectified as soon as possible.

9.4.2 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.

9.4.3 A fire at the facility shall be treated as an emergency and immediate action shall be taken to extinguish it and notify the appropriate authorities.

9.4.4 In the event that monitoring of local wells indicates that the facility is having a significant adverse effect on the quantity and/or quality of the water supply this shall be treated as an emergency and the licensee shall provide an alternative supply of water to those affected.

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| <i>Reason: To provide for the protection of the environment.</i> |
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Condition 10. Decommissioning & Residuals Management

10.1 Following termination, or planned cessation for a period greater than six months, of use or involvement of all or part of the site in the licensed activity, the licensee shall, to the satisfaction of the Agency, decommission, render safe or remove for disposal/recovery any soil, subsoil, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution.

10.2 Decommissioning Management Plan (DMP)

10.2.1 The licensee shall review the Decommissioning Management Plan annually and proposed amendments thereto notified to the Agency for agreement as part of the AER. No amendments may be implemented without the agreement of the Agency.

- 10.2.2 The licensee shall have regard to the Environmental Protection Agency Guidance on Environmental Liability Risk Assessment, Decommissioning Management Plans and Financial Provision when implementing Condition 10.2.1 above.
- 10.3 A final validation report to include a certificate of completion for the Decommissioning Management Plan, for all or part of the site as necessary, shall be submitted to the Agency within three months of execution of the plan. The licensee shall carry out such tests, investigations or submit certification, as requested by the Agency, to confirm that there is no continuing risk to the environment.

Reason: *To make provision for the proper closure of the activity ensuring protection of the environment.*

Condition 11. Notification, Records and Reports

- 11.1 The licence shall notify the Agency by both telephone and facsimile, if available, to the Agency's headquarters in Wexford, or to such other Agency office as may be specified by the Agency, as soon as practicable after the occurrence of any of the following:
- (i) any release of environmental significance to atmosphere from any potential emissions point including bypasses;
 - (ii) any emission that does not comply with the requirements of this licence;
 - (iii) any malfunction or breakdown of key control equipment or monitoring equipment set out in *Schedule C: Control and Monitoring* which is likely to lead to loss of control of the abatement system; and
 - (iv) any incident with the potential for environmental contamination of surface water or groundwater, or posing an environment threat to air or land, or requiring an emergency response by the Local Authority.
- The licensee shall include as part of the notification, date and time of the incident, summary details of the occurrence, and where available, the steps taken to minimise any emissions.
- 11.2 In the event of any incident which relates to discharges to sewer having taken place, the licensee shall notify the Local and Water Services Authority as soon as practicable after such an incident.
- 11.3 In the case of any incident relating to discharges to water, the licensee shall notify the Local and Water Services Authority and the Regional Fisheries Board as soon as practicable after such an incident.
- 11.4 All communication with the Local Authority and WSA with regard to this licence and conditions relating to discharges to sewer, water pollution control, submission of monitoring results or charges shall be in writing to the Senior Engineer, Water Services Department, County Hall, The Square, Tallaght, Dublin 24.
- 11.5 The licensee shall, prior to reprocessed waste oil being sent off site for use as a fuel, notify the Health and Safety Authority in writing of the characteristics and quantities of the product in accordance with the
- 11.6 The licensee shall make a record of any incident. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident. The record shall include all corrective actions taken to manage the incident, minimise wastes generated and the effect on the environment, and avoid recurrence. The licensee shall, as soon as practicable following incident notification, submit to the Agency the incident record.
- 11.7 The licensee shall record all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the date and time of the complaint, the name of the complainant (if provided), and give details of the nature of the complaint. A record shall also be kept of the response made in the case of each complaint.

- 11.8 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the facility.
- 11.9 The licensee shall as a minimum keep the following documents at the site:
- (i) the licences relating to the facility;
 - (ii) the current EMS for the facility;
 - (iii) the previous year's AER for the facility;
 - (iv) records of all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the facility;
 - (v) records of waste management operations in accordance with Condition 11.9;
 - (vi) relevant correspondence with the Agency;
 - (vii) up to date site drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and emission points;
 - (viii) up to date Standard Operational Procedures for all processes, plant and equipment necessary to give effect to this licence or otherwise to ensure that standard operation of such processes, plant or equipment does not result in unauthorised emissions to the environment; and
 - (ix) any elements of the licence application or EIS documentation referenced in this licence.
- This documentation shall be available to the Agency for inspection at all reasonable times.
- 11.10 The licensee shall submit to the Agency, by the 31st March of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in *Schedule D: Annual Environmental Report* of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 11.11 A full record, which shall be open to inspection by authorised persons of the Agency at all times, shall be kept by the licensee on matters relating to the waste management operations and practices (including consignment of wastewater) at this site. This record shall be maintained on a monthly basis and shall as a minimum contain details of the following:
- (i) the tonnages and EWC Code for the waste materials imported and/or sent off-site for disposal/recovery
 - (ii) **a year-to-date total of the tonnages accepted on-site in each of the waste types in Schedule A.2;**
 - (iii) the names of the agent and carrier of the waste, and their waste collection permit details, if required (to include issuing authority and vehicle registration number);
 - (iv) details of the ultimate disposal/recovery destination facility for the waste and its appropriateness to accept the consigned waste stream, to include its permit/licence details and issuing authority, if required;
 - (v) written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site;
 - (vi) details of all waste consigned abroad for Recovery and classified as 'Green' in accordance with the EU Shipment of Waste Regulations (Council Regulation EEC No. 1013/2006, as may be amended). The rationale for the classification must form part of the record;
 - (vii) details of any rejected consignments;
 - (viii) details of any approved waste mixing;
 - (ix) the results of any waste analyses required under *Schedule C: Control & Monitoring*, of this licence; and
 - (x) the tonnage and EWC Code for the waste materials recovered/disposed on-site.

- 11.12 In addition to Condition 11.11, a full record, which shall be open to inspection by authorised persons of the Agency at all times, shall be kept by the licensee on matters relating to the production of processed fuel oil at this site. This record shall be maintained on a weekly basis and shall as a minimum contain details of the following:
- (i) for each batch of processed fuel oil produced in the Waste Oil Treatment System -details of the tonnages, EWC Code and analysis of the waste oil inputs;
 - (ii) for each consignment of processed fuel oil -the Batch number, name, contact details and nature of the business of the ultimate user of the processed fuel oil, the quantity and date supplied to the ultimate user and the results of sampling and analysis of the batches supplied to the ultimate user.
 - (iii) Copy of the certificate of compliance with requirements in Schedule C.8 supplied to ultimate user.
- 11.13 The following records shall be maintained by the licensee:-
- (i) the types and quantities of waste recovered at the facility each year. These records shall include the relevant EWC codes, any details required to complete national waste reports on waste statistics, and the list of wastes in Schedules A.2. and A.3 or as amended with the agreement of the Agency;
 - (ii) all training undertaken by facility staff;
 - (iii) results from all integrity tests of bunds and other structures and any maintenance or remedial works arising from them;
 - (iv) details of all nuisance inspections; and
 - (v) the names and qualifications 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.
- 11.14 The licensee shall submit report(s) as required by the conditions of this licence to the Agency's Headquarters in Wexford, or to such other Agency office as may be specified by the Agency.
- 11.15 All reports shall be certified accurate and representative by the facility manager or a nominated, suitably qualified and experienced deputy.
- 11.16 The licensee shall submit monitoring results for discharges to sewer to the WSA on a quarterly basis.

Reason: To provide for the collection and reporting of adequate information on the activity.

Condition 12. Financial Charges and Provisions

12.1 Agency Charges

- 12.1.1 The licensee shall pay to the Agency an annual contribution of €19,554, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Waste Management Acts 1996 to 2008. The first payment shall be a pro-rata amount for the period from the date of grant of this licence to the 31st day of December, and shall be paid to the Agency within one month from the date of grant of the licence. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Waste Management Acts 1996 to 2008, and all such payments shall be made within one month of the date upon which demanded by the Agency.

12.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased, the licensee shall contribute such sums as determined by the Agency to defray its costs in regard to items not covered by the said annual contribution.

12.2 Water Services Authority Charges

The licensee shall pay to the Water Services Authority **an annual monitoring charge of €2,150** and such other sum as may be determined from time to time, having regard to the variations in the cost of providing drainage and the variation in effluent reception and treatment costs. Payment to be made on demand.

12.3 Environmental Liabilities

12.3.1 The licensee shall as part of the AER, provide an annual statement as to the measures taken or adopted at the site in relation to the prevention of environmental damage, and the financial provisions in place in relation to the underwriting of costs for remedial actions following anticipated events (including closure) or accidents/incidents, as may be associated with the carrying on of the activity.

12.3.2 The Environmental Liabilities Risk Assessment (ELRA) shall be reviewed as necessary to reflect any significant change on site, and in any case every three years following initial agreement. The results of the review shall be notified as part of the AER.

12.3.3 As part of the measures identified in Condition 12.3.1, the licensee shall, to the satisfaction of the Agency, make financial provision to cover any liabilities identified in Condition 12.3.2. The amount of indemnity held shall be reviewed and revised as necessary, but at least annually. Proof of renewal or revision of such financial indemnity shall be included in the annual 'Statement of Measures' report identified in Condition 12.3.1.

12.3.4 The licensee shall have regard to the Environmental Protection Agency Guidance on Environmental Liability Risk Assessment, Decommissioning Management Plans and Financial Provision when implementing Conditions 12.3.2 and 12.3.3 above.

Reason: To provide for adequate financing for monitoring and financial provisions for measures to protect the environment and to provide for the requirements of the Water Services Authority in accordance with Section 52 of the Waste Management Acts 1996 to 2008.

SCHEDULE A: Limitations

A.1 Waste Activities

The following waste related processes are authorised:

- (i) Recycling and reconditioning of industrial packaging (steel drums, plastic drums & IBC's)
- (ii) Physical and chemical treatment of wastes;
- (iii) Filtering and dewatering of waste oil and production of processed fuel oil;
- (iv) Shredding, crushing, baling, repackaging processes;
- (v) Packaging, handling, bulking, sizing, storage and transfer of waste

No additions to these processes are permitted unless agreed in advance with the Agency.



A.2 Waste Acceptance

Table A.2 Waste Categories and Quantities

| Waste Type ^{Note 3} | | Maximum (Tonnes Per Annum) ^{Note 3} |
|--|---|---|
| Non-Hazardous Wastes <small>Note 1,2</small> | Commercial Waste | 500 |
| | Construction & Demolition Waste | 500 |
| | Industrial sludges | 1,000 |
| | Other Industrial Waste | 3,000 |
| Non-Hazardous Waste Total | | 5,000 |
| Hazardous Wastes | | |
| EWC code | Description | |
| 13 05 03* | Interceptor sludges | 10,000 |
| 16 07 08* | Wastes containing oil | 2,000 |
| 16 10 01* | Aqueous liquid waste containing dangerous substances | 1,500 |
| 17 05 03* | Soil and stones containing dangerous substances | 60,000 |
| 17 06 01* & 17 06 05* | Insulation materials and construction materials containing asbestos | 8,100 |
| Other ^{Note 4} | | 24,400 |
| Hazardous Waste Total | | 106,000 |
| Total | | 111,000 |

Note 1: Any proposals to accept other compatible non-hazardous waste types must be agreed in advance by the Agency.

Note 2: Excluding putrescible waste.

Note 3: The limitation on individual hazardous and non-hazardous waste types may be varied with the agreement of the Agency subject to the individual total limits for non-hazardous and hazardous waste staying the same.

Note 4: Hazardous waste types as detailed in Attachment H.1 of the review application for this licence Reg No. W0192-03, or as may be otherwise agreed in advance by the Agency.



A.3 Wastes acceptable for the production of processed fuel oil in the Waste Oil Treatment System

| EWC Code^{Note 1} |
|--|
| 12 01 07*; 12 01 10*; 12 01 19*; 13 01 10*; 13 01 11*; 13 01 12*; 13 01 13*; 13 02 05*; 13 02 06*; 13 02 07*; 13 02 08*; 13 03 07*; 13 03 08*; 13 03 09*; 13 03 10*; 13 04 01*; 13 04 02*; 13 04 03*; 13 05 02*; 13 05 03*; 13 05 06*; 13 05 08*; 13 07 01* and 13 07 03* 19 02 07* 20 01 26* |

Note 1: Acceptable inputs are only those specific waste types listed, as identified by a full six digit EWC code.



A.43 Solvent Usage

The quantity of organic solvents used at the facility shall not exceed 5 tonnes per annum.

SCHEDULE B: Emission Limits**B.1 Emissions to Air**

| | | |
|--------------------------------------|-------------------------|-----------------------|
| Emission Point Reference No.: | A1 | |
| Location: | Drum Washer Stack | |
| Volume to be emitted: | Maximum in any one day: | 44,982 m ³ |
| | Maximum rate per hour: | 5,292 m ³ |
| Minimum discharge height: | 13.7 m above ground | |

| Parameter | Emission Limit Value |
|-----------------------------|---|
| TA Luft Organics Class 1 | 20 mg/m ³ (for mass emissions > 0.1 kg/h of these compounds) |
| Total Organic Carbon (as C) | 1 kg/hr |



| | | |
|--------------------------------------|-------------------------|-----------------------|
| Emission Point Reference No.: | A2 | |
| Location: | Paint Spray Booth Stack | |
| Volume to be emitted: | Maximum in any one day: | 44,982 m ³ |
| | Maximum rate per hour: | 5,292 m ³ |
| Minimum discharge height: | 13.7 m above ground | |

| Parameter | Emission Limit Value ^{Note 1} |
|-----------------------------|--|
| TA Luft Organics Class 1 | 20 mg/m ³ (for mass emissions > 100 g/h of these compounds) |
| Total Organic Carbon (as C) | 0.1 kg/hr |



Emission Point Reference No.: A3
Location: Drying Tunnel Stack
Volume to be emitted: Maximum in any one day: 21,420 m³
 Maximum rate per hour: 2,520 m³
Minimum discharge height: 13.7 m above ground

| Parameter | Emission Limit Value ^{Note 1} |
|-----------------------------|--|
| TA Luft Organics Class I | 20 mg/m ³ (for mass emissions > 100 g/h of these compounds) |
| Total Organic Carbon (as C) | 0.3 kg/hr |



B.2 Emissions to Water

There shall be no emissions to water of environmental significance.

B.3 Emissions to Sewer

Emission Point Reference No.: SE-1 (previously labelled EFF2, Grid Ref. E301655, N228530)

Volume to be emitted: Maximum in any one day: 180 m³
 Maximum rate per hour: 40 m³

| Parameter | Emission Limit Value | | |
|---------------------------------|----------------------|---------------------------------|-----------------------------|
| | Grab Sample (mg/l) | Daily Mean Concentration (mg/l) | Daily Mean Loading (kg/day) |
| Temperature | 42°C (max.) | | |
| pH | 6 - 10 | | |
| BOD | 2,000 | 800 | 144 |
| COD | 4,000 | 1,600 | 288 |
| Suspended Solids | 500 | 400 | 72 |
| Sulphates (as SO ₄) | 1,000 | 1,000 | 180 |
| Mineral Oils | 10 | 10 | 1.8 |
| Detergents (as MBAS) | 100 | 100 | 18 |
| Benzene | 1 | 1 | 0.18 |
| Toluene | 1 | 1 | 0.18 |
| Ethyl Benzene | 1 | 1 | 0.18 |
| o/p/m Xylenes | 1 | 1 | 0.18 |
| Zinc | 3 | 3 | 0.54 |
| Copper | 1 | 1 | 0.18 |
| Nickel | 1 | 1 | 0.18 |
| Chromium | 1 | 1 | 0.18 |
| Arsenic | 0.5 | 0.5 | 0.09 |
| Lead | 0.2 | 0.2 | 0.04 |



B.4 Noise Emissions

Measured at the site boundary

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

Note 1: There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise-sensitive location.



B.5. Dust Emissions

Measured at monitoring points D1, D2, D3 & D4 shown on Figure 7.1 'Environmental Monitoring Location' of the Application.

| Level (mg/m ³ per day) ^{Note 1} |
|---|
| 350 |

Note 1: 30 day composite sample with the results expressed as mg m⁻³ per day.

**B.6 Surface Water Discharge Limits**

Measured at the surface water emission point SW3.

| Parameter | Emission Limit Value |
|------------------|----------------------|
| Mineral oils | 5mg/l |
| Suspended Solids | 35 mg/l |



SCHEDULE C: Control & Monitoring

C.1.1 Control of Emissions to Air

There shall be no emissions to air of environmental significance.



C.1.2 Monitoring of Emissions to Air

| Parameter | Monitoring Frequency | Analysis Method/Technique |
|-----------------------------------|-------------------------------|---|
| T.A. Luft Organics Class 1 | Annually ^{Note 1} | Adsorption/GCMS or other method to be agreed by the Agency. |
| Total organic carbon (as C) | Bi-annually ^{Note 1} | Adsorption/GCMS or other method to be agreed by the Agency. |
| Characterisation of VOC emissions | Annually ^{Note 1} | Adsorption/GCMS or other method to be agreed by the Agency. |

Note 1: Monitoring must occur during periods of maximum discharge. Production records should be available to demonstrate that gas sampling took place during periods of maximum loading.



C.2.1 Control of Emissions to Water

There shall be no emissions to water of environmental significance.

C.2.2 Monitoring of Emissions to Water

There shall be no emissions to water of environmental significance.

C.3.1 Control of Emissions to Sewer

Emission Point Reference No.: SE-1
Description of Treatment: Wastewater Treatment
Equipment: Primary settlement, sludge processing, water treatment & oil recovery.

| Control Parameter | Monitoring | Key Equipment^{Note 1} |
|--|-------------------|--|
| Suspended solids (influent) | Daily | Screens |
| Effluent transfer | Daily | Pumps |
| Suspended solids (primary settlement stage) | Daily | Primary settlement tanks |
| Sludge removal | Daily | Pump |
| Sludge dewatering | Daily | Centrifuge |
| Oil removal | Daily | Oil vacuum pump & tank |
| Suspended solids (flocculation stage) | Daily | Flocculation tanks Polyelectrolyte dosing pump Ferric aluminium sulphate dosing pump Mixing tanks Stirrers |
| pH (flocculation tanks) | Daily | pH monitor Sodium Hydroxide mixing tanks & pump |

Note 1: The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.



C.3.2 Monitoring of Emissions to Sewer

Emission Point Reference No.: SE-1

| Parameter | Monitoring Frequency | Analysis Method/Technique |
|---------------------------------|---------------------------|--|
| Flow to sewer | During release | On-line flow meter with recorder / recording of tank volumes |
| Temperature | Monthly ^{Note 1} | Temperature probe |
| pH | Monthly ^{Note 1} | pH electrode/meter |
| Biochemical Oxygen Demand | Monthly ^{Note 2} | Standard Method |
| Chemical Oxygen Demand | Monthly ^{Note 2} | Standard Method |
| Suspended Solids | Monthly ^{Note 2} | Standard Method |
| Sulphates (as SO ₄) | Monthly ^{Note 2} | Standard Method |
| Ammonia (as N) | Monthly ^{Note 2} | Standard Method |
| Mineral Oils | Monthly ^{Note 1} | Standard Method |
| Detergents (as MBAS) | Monthly ^{Note 1} | Standard Method |
| Benzene | Monthly ^{Note 1} | Standard Method |
| Toluene | Monthly ^{Note 1} | Standard Method |
| Ethyl Benzene | Monthly ^{Note 1} | Standard Method |
| o/m/p Xylenes | Monthly ^{Note 1} | Standard Method |
| Zinc | Monthly ^{Note 2} | Standard Method |
| Copper | Monthly ^{Note 2} | Standard Method |
| Nickel | Monthly ^{Note 2} | Standard Method |
| Chromium | Monthly ^{Note 2} | Standard Method |
| Arsenic | Monthly ^{Note 2} | Standard Method |
| Lead | Monthly ^{Note 2} | Standard Method |

Note 1: Samples shall be collected by grab sampling.

Note 2: Samples shall be collected on a 24 hour flow proportional composite sampling basis.



C.4 Noise Monitoring

| 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."



C.5 Dust Monitoring

| Parameter (mg/m ² /day) | Monitoring Frequency | Analysis Method/Technique |
|------------------------------------|--------------------------------------|-----------------------------------|
| Dust | Three times a year ^{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). A modification (not included in the standard) which 2-methoxy ethanol may be employed to eliminate interference due to algae growth in the gauge

Note 2: Twice during the period May to September.



C.6.1 Control of Emissions to Surface Water

Emission Control Location: SW3
Description of Treatment: Silt trap - Oil interceptor

| Control Parameter | Monitoring | Key Equipment ^{Note 1} |
|-------------------|---|--|
| Oil removal | Mineral oil content in water at discharge point | Class I Full Retention Oil Interceptor |
| Suspended solids | | Silt traps |

Note 1: The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.



C.6.2 Monitoring of Surface Water Emissions

Emission Point Reference No.: SW3

| Parameter | Monitoring Frequency | Analysis Method/Technique ^{Note 1} |
|--------------------------|-----------------------------|--|
| Visual Inspection | Daily | Standard Method |
| pH | Quarterly | Electrometry |
| COD | Quarterly | Standard Method |
| Suspended Solids | Quarterly | Standard Method |
| Mineral Oils | Quarterly | Standard Method |

Note 1: All the analysis shall be carried out by a competent laboratory using standard and internationally accepted procedures.

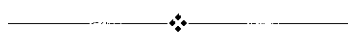


C.7 Waste Monitoring

| Waste Class | Frequency | Parameter | Method |
|--|------------------------------|------------------|-----------------|
| Inputs to Waste Oil Treatment System as per Table A.3 of this licence ^{Note 1} | Per load prior to acceptance | PCB, halogens | IP462 and IP503 |
| Other ^{Note 2} | | | |

Note 1: Additional monitoring may be required by the Agency following an assessment of the results or any changes in standards.

Note 2: Analytical requirements to be determined on a case by case basis.



C.8 Processed Waste Oil Monitoring^{Note 1}

| Parameter | Limit ^{Note 2} | Method | Frequency |
|-----------------------------------|-------------------------|--------|------------------------|
| | ppm | | |
| Total halogens, as chlorine | 2000 | IP503 | Per 50 tonnes produced |
| PCB's | 5 | IP462 | Per 50 tonnes produced |
| Mercury | 5 | Note 3 | Per 50 tonnes produced |
| Lead | 150 | Note 3 | Per 50 tonnes produced |
| Nickel | 20 | Note 3 | Per 50 tonnes produced |
| Chromium | 20 | Note 3 | Per 50 tonnes produced |
| Copper | 60 | Note 3 | Per 50 tonnes produced |
| Arsenic | 5 | Note 3 | Per 50 tonnes produced |
| Cadmium | 10 | Note 3 | Per 50 tonnes produced |
| Vanadium | 60 | Note 3 | Per 50 tonnes produced |
| Ash content | 1.50 %m/m | IP550 | Per 50 tonnes produced |
| Flash Point ^{Note 4} | 66.0°C (min) | IP523 | Per 50 tonnes produced |
| Water content ^{Note 4} | 1.0% v/v (max) | IP74 | Per 50 tonnes produced |
| Carbon Residue ^{Note 4} | 20% m/m (max) | IP398 | Per 50 tonnes produced |
| Total Sediment ^{Note 4} | 0.15% m/m (max) | IP375 | Per 50 tonnes produced |
| Strong Acid No. ^{Note 4} | 0 | IP139 | Per 50 tonnes produced |
| Sulphur content ^{Note 4} | 1.0% m/m (max) | IP336 | Per 50 tonnes produced |

Note 1: The Agency may amend the parameters, limits, methods and frequency following the adoption of an Irish or European standard or specification for reprocessed fuel oil as a Technical Regulation under Directive 98/34/EC as amended.

Note 2: Processed oil which does not comply with the limits for all the parameters listed shall be considered waste and disposed/recovered in accordance with National and European legislation and protocols.

Note 3: Standardised and validated method to be agreed with the Agency.

Note 4: As specified in BS 2869:2006 for Class G oils excluding viscosity.



C.9 Groundwater Monitoring

Location: BI11, BI12 & BI13

| Parameter ^{Note 1} | Monitoring Frequency | Analysis Method/Technique |
|--|----------------------|---------------------------|
| Visual Inspection/Odour ^{Note 2} | Monthly | N/A |
| Groundwater Level | Monthly | Portable Electronic Meter |
| Electrical Conductivity | Monthly | Portable Electronic Meter |
| pH | Monthly | pH electrode/meter |
| Temperature | Monthly | Thermometer |
| List I/II organic substances ^{Note 3} | Quarterly | Standard Method |
| Mineral Oil ^{Note 3} | Quarterly | Standard Method |
| BTEX ^{Note 3} | Quarterly | Standard Method |
| Arsenic | Quarterly | Standard Method |
| Mercury | Quarterly | Standard Method |
| Dissolved Oxygen | Annually | Standard Method |
| Total Alkalinity | Annually | Standard Method |
| Metals / Non Metals ^{Note 4} | Annually | AA/ICP |
| Sulphate | Annually | Standard Method |
| Cyanide (Total) | Annually | Standard Method |
| Chloride | Annually | Standard Method |

Note 1: All the analysis shall be carried out by a competent laboratory using standard and internationally accepted procedures.

Note 2: Where there is evident gross contamination of groundwater, additional samples should be analysed.

Note 3: Samples screened for the presence of organic compounds using Gas Chromatography – Mass Spectrometry (GC/MS) or other appropriate techniques and using the list III Substances from EU Directive 76/464/EEC and 80/68/EEC as a guideline. Recommended analytical techniques include: volatiles (US Environmental Protection Agency method 524 or equivalent), semi-volatiles (USEPA method 525 or equivalent), and pesticides (USEPA method 608 or equivalent).

Note 4: Metals and elements to be analysed by AA/ICP should include as a minimum: boron, cadmium, calcium, chromium (total), copper, iron, lead, magnesium, manganese, nickel, potassium, sodium and zinc.

**SCHEDULE D: Specified Engineering Works****Specified Engineering Works**

Development of the facility including installation of segregated waste oil handling and processing infrastructure.

Any other works notified in writing by the Agency.



SCHEDULE E: Annual Environmental Report

| Annual Environmental Report Content ^{Note 1} |
|--|
| <p>Emissions from the facility</p> <p>Waste management records.</p> <p>Resource consumption summary.</p> <p>Complaints summary.</p> <p>Schedule of Environmental Objectives and Targets.</p> <p>Environmental management programme -- report for previous year.</p> <p>Environmental management programme -- proposal for current year.</p> <p>Pollutant Release and Transfer Register -- report for previous year.</p> <p>Pollutant Release and transfer Register -- proposal for current year.</p> <p>Noise monitoring report summary.</p> <p>Ambient monitoring summary.</p> <p>Tank and pipeline testing and inspection report.</p> <p>Reported incidents summary.</p> <p>Energy efficiency audit report summary.</p> <p>Report on the assessment of the efficiency of use of raw materials in processes and the reduction in waste generated.</p> <p>Report on progress made and proposals being developed to minimise water demand and the volume of trade effluent discharges.</p> <p>Development/Infrastructural works summary (completed in previous year or prepared for current year).</p> <p>Reports on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information.</p> <p>Review of decommissioning management plan</p> <p>Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities).</p> <p>Environmental Liabilities Risk Assessment Review (every three years or more frequently as dictated by relevant on-site change including financial provisions.</p> <p>Any other items specified by the Agency.</p> |

Note 1: Content may be revised subject to the agreement of the Agency.

Sign off for Proposed Determinations Decisions

Signed on behalf of the said Agency _____
 On the xx day of xxxxx, 200X xxxxxxxxxxxx **Authorised Person**