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**INDUSTRIAL EMISSIONS LICENCE
Recommended Determination**

Licence Register Number:	W0291-02
Company Register Number:	551113
Applicant:	Forge Hill Recycling Unlimited Company
Location of Installation:	Forge Hill Waste Transfer Station, Forge Hill, Cork, T12 AK44

INTRODUCTION

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

Forge Hill Recycling Unlimited Company operate a dry mixed recyclable waste recovery and transfer station at Forge Hill, County Cork. Dry recyclable waste is accepted from household and commercial sources. The type of recovery authorised by this licence is the sorting of mixed dry recyclable waste into single stream recyclable waste and preparing single stream recyclable waste for dispatch to authorised waste facilities. This licence is for an increase in the maximum quantity of waste acceptance at the installation, rising from 82,000 to 100,000 tonnes per annum. This will provide the installation with the capacity to process more than 75 tonnes of waste per day, the activity is therefore required to be brought into conformity with the Industrial Emissions Directive (IED) (2010/75/EC). From the date of this review, the licence (W0281-02) shall be deemed to be an Industrial Emissions Licence granted under Part IV of the Environmental Protection Agency Act 1992, as amended.

The hours of waste acceptance and dispatch at the installation have been extended as compared to the previous licence (W0291-01), to allow for the increase in tonnage of waste accepted and to avoid peak traffic periods. All waste will continue to be treated and stored indoors at this installation. There are no point source emissions to air from the waste treatment building. Storm water from roofs, clean yards, etc. discharges to the adjacent stream from non-process areas of the site. Run-off from process areas of the site discharge to sewer.

For the purposes of the EU Industrial Emissions Directive (2010/75/EU), this installation falls within the scope of the following Annex I category:

Category 5.3 (b) (ii).

The licence sets out in detail the conditions under which Forge Hill Recycling Unlimited Company will operate and manage this installation.

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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 Act 1992 as amended, unless otherwise defined in the section.

Adequate lighting	20 lux measured at ground level.
AER	Annual Environmental Report.
Approval	Approval in writing/electronically.
Annually	All or part of a period of twelve consecutive months.
Application	The application by the licensee for this licence.
Appropriate Facility	A waste management facility or installation, 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.
BAT conclusions	A document containing the parts of a BAT reference document laying down the conclusions on best available techniques, their description, information to assess their applicability, the emission levels associated with the best available techniques, associated monitoring, associated consumption levels and, where appropriate, relevant site remediation measures.
BAT reference document	A document drawn up by the Commission of the European Union in accordance with Article 13 of the Industrial Emissions Directive, resulting from the exchange of information in accordance with that Article of that Directive and describing, in particular, applied techniques, present emissions and consumption levels, techniques considered for the determination of best available techniques as well as BAT conclusions and any emerging techniques.
Biannually	At approximately six – monthly intervals.
CEN	Comité Européen De Normalisation – European Committee for Standardisation.
COD	Chemical Oxygen Demand.
Containment boom	A boom that can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses.

CRO Number	Company Register Number.
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	0700 hrs to 1900 hrs.
dB(A)	Decibels (A weighted).
Diffuse Emissions	Non-channelled emissions which can result from ‘area’ sources (e.g. tanks) or ‘point’ sources (e.g. pipe flanges).
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.
Emission limits	Those limits, including concentration limits and deposition rates, established in <i>Schedule B: Emission Limits</i> , of this licence.
EMP	Environmental Management Programme.
End User Agreement	An agreement between the licensee and Irish Water which provides for the contractual conditions and arrangements (outside the terms and conditions set out in this licence) relating to the acceptance of, and treatment by, Irish Water of the licensee’s trade effluent and wastewater.
Environmental damage	As defined in Directive 2004/35/EC.
EPA	Environmental Protection Agency.
Evening Time	1900hrs to 2300hrs.
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.

Groundwater	Has the meaning assigned to it by Regulation 3 of the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010), as amended.
Hazardous Substances	Substances or mixtures as defined in Article 3 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.
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.
Hours of operation	The hours during which the installation is authorised to be operational.
Hours of waste acceptance	The hours during which the installation is authorised to accept waste.
IE	Industrial Emissions.
Incident	The following shall constitute an 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 malfunction or breakdown of key environmental abatement, control or monitoring equipment (iv) any exceedance of the daily duty capacity of the waste handling equipment; (v) any trigger level specified in this licence which is attained or exceeded; and, (vi) any compliance value specified in this licence which is attained or exceeded; and, (vii) any indication that environmental pollution has, or may have, taken place.
Industrial Emissions Directive	Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (Recast).
Installation	A stationary technical unit or plant where the activity concerned referred to in the First Schedule of EPA Act 1992 as amended is or will be carried on, and shall be deemed to include any directly associated activity, which has a technical connection with the activity and is carried out on the site of the activity.
Irish Water	Irish Water, Colvill House, 24/26 Talbot Street, Dublin 1.

K	Kelvin.
L_{Aeq,T}	This is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period (T).
Landfill Directive	Council Directive 1999/31/EC.
L_{Ar,T}	The Rated Noise Level, equal to the L _{Aeq} during a specified time interval (T), plus specified adjustments for tonal character and/or impulsiveness of the sound.
Licensee	Forge Hill Recycling Unlimited Company, Forge Hill Waste Transfer Station, Forge Hill, County Cork, CRO Number: 551113.
Local Authority	Cork County Council.
List of Wastes (LoW)	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2014/955/EU, as amended by any subsequent amendment published in the Official Journal of the European Community.
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.
Monthly	A minimum of 12 times per year, at intervals of approximately one month.
Night-time	2300 hrs to 0700 hrs.
Noise-sensitive location (NSL)	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other installation or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
Odour-sensitive location	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other premises or area of high amenity which for its proper enjoyment requires the absence of odour 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).

Potential emissions	Emissions which take place only under abnormal operating conditions. Examples include emissions from overpressure valves, bursting discs, and emergency generators.
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.
Relevant Hazardous Substances	Those substances or mixtures defined within Article 3 of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) which, as a result of their hazardousness, mobility, persistence and biodegradability (as well as other characteristics), are capable of contaminating soil or groundwater and are used, produced and/or released by the installation.
SAC	Special Area of Conservation designated under the Habitats Directive, Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora.
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 installation toilet, washroom and canteen facilities.
Soil	The top layer of the Earth's crust situated between the bedrock and the surface. The soil is composed of mineral particles, organic matter, water, air and living organisms.
SOP	Standard operating procedure.
SPA	Special Protection Area designated under the Birds Directive, Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds
Specified emissions	Those emissions listed in <i>Schedule B: Emission Limits</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.
Storage	Includes holding of waste.
Storm water	Rain water run-off from roof and non-process areas.

The Agency	Environmental Protection Agency.
TOC	Total organic carbon.
Trade effluent	Trade effluent has the meaning given in the Water Services Act, 2007.
Trigger level	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
Waste	Any substance or object which the holder discards or intends or is required to discard.
Water Services Authority	Cork 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 Section 83(5) of the Environmental Protection Agency Act 1992 as amended.

The Agency also considers that the activities will not adversely affect the integrity of any European Site, and has decided to impose conditions for the purposes of ensuring they do not do so. It has determined that the activities, if managed, operated and controlled in accordance with the licence, will not have any adverse effect on the integrity of any of those sites.

The Agency has applied the **Commission Implementing Decision of 2018/1147/EU establishing Best Available Techniques (BAT) Conclusions, under Directive 2010/75/EU** of the European Parliament and of the Council, for waste treatment as a reference when setting licence conditions.

The Agency accordingly proposes to grant a licence to **Forge Hill Recycling Unlimited Company** to carry on the activities listed in *Part I, Schedule of Activities Licensed*, subject to the conditions set out in *Part III, Conditions*;

In reaching this decision the Agency has considered the documentation relating to:

- the application, Register Number: **W0291-02** and the supporting documentation received from the applicant;
- the submission received; and
- the Inspector's Report dated 21 January 2020

and has carried out an Environmental Impact Assessment (EIA) and an Appropriate Assessment of the likely significant effects of the activities on European Sites.

It is considered that the Inspector's Report contains a fair and reasonable examination, evaluation and analysis of the likely significant effects of the activities on the environment, and adequately and accurately identifies, describes and assesses those effects. The assessment as reported in those documents is adopted as the assessment of the Agency. Having regard to this assessment, it is considered that the activities, if managed, operated and controlled in accordance with the licence will not result in the contravention of any relevant environmental quality standards or cause environmental pollution.

Having regard to the examination of environmental information in the Inspector's report, and in particular to the content of the Environmental Impact Assessment Report (EIAR) and supplementary information provided by the licensee and the third parties in the course of the application, it is considered that the potential significant direct and indirect effects of the activities on the environment are as follows:

- Stormwater discharge to surface water
- Process water discharge to sewer
- Diffuse emissions to air
- Noise emissions
- Accidental leakages or spills

Having assessed those potential effects, the Agency has concluded as follows:

- **Generation of stormwater and discharge to surface water will be mitigated through: storage and processing of all waste indoors, operation and maintenance of silt traps and oil separators on stormwater discharge from yard areas, automatic diversion of stormwater to a storage tank with a high-level liquid alarm and the installation of an automatic shut-off valve on the out-flow to SW-1, maintenance and monitoring of suitable trigger levels for conductivity, total suspended solids and mineral oils;**

- **Generation of process water and discharge to sewer will be mitigated through: operation of abatement equipment, imposing emission limit values to comply with environmental quality standards/to comply with the CID and implementing monitoring, maintenance and control measures;**
- **Diffuse emissions to air will be mitigated through: maintaining and implementing a dust and odour management system, operation of abatement, imposing dust deposition limits, implementing odour and dust monitoring, implementing a waste storage plan and ensuring the yard is regularly swept and sprayed with water in dry weather;**
- **Noise emissions will be mitigated through: imposing daytime, evening-time and night-time noise limits at noise sensitive locations; implementing monitoring, maintenance and control measures;**
- **Accidental leakages or spills will be mitigated through: storage of all oils and diesel in bunded containers, inspection and maintenance of bunds and tanks and specified accident and emergency requirements in the licence.**

Having regard to the effects (and interactions) identified, described and assessed throughout the Inspector's report, it is considered that the monitoring, mitigation and preventative measures proposed will enable the activity to operate without causing environmental pollution, subject to compliance with the licence.

The conditions of the licence and the mitigation measures proposed will significantly reduce the likelihood of accidental emissions occurring and limit the environmental consequences of an accidental emission should one occur.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the activities, individually or in combination with other plans or projects are likely to have a significant effect on any European Site. In this context, particular attention was paid to the European Site(s) at **Cork Harbour SPA (Site Code: 004030) and Great Island Channel SAC (Site Code: 001058)**.

The activities are not directly connected with or necessary to the management of any European Site and the Agency considered, for the reasons set out below, that it cannot be excluded, on the basis of objective information, that the activities, individually or in combination with other plans or projects, will have a significant effect on any European Site and accordingly determined that an Appropriate Assessment of the activities was required, and for this reason determined to require the applicant to submit a Natura Impact Statement.

- **The licensee proposed to store baled metal waste in the yard area of the installation which drains to stormwater. The stormwater discharges into the Lehenagh Beg Stream, ultimately draining (via Lough Mahon) into Cork Harbour (004030) and Great Island Channel SAC (001058).**
- **The shut-off valve on the on-site firewater retention facility must be manually closed in the case of a fire. The retention facility feeds-out, via a rising main at SW-1, to the Lehenagh Beg Stream.**

The Agency has completed the Appropriate Assessment of potential impacts on these sites and has made certain, based on best scientific knowledge in the field and in accordance with the European Communities (Birds and Natural Habitats) Regulations 2011 as amended, pursuant to Article 6(3) of the Habitats Directive, that the activities, individually or in combination with other plans or projects, will not adversely affect the integrity of any European Site, **in particular Cork Harbour SPA (Site Code: 004030) and Great Island Channel SAC (Site Code: 001058)** having regard to their conservation objectives and will not affect the preservation of these sites at favourable conservation status if carried out in accordance with this licence and the conditions attached hereto for the following reasons:

The licence does not authorise external storage of baled metal waste at the installation, as was requested in the review application. Best practice is to store waste and materials that may generate diffuse emissions, indoors (CID 2018/1147/EU). As part of unsolicited information submitted on the

27th September 2019, the licensee informed the EPA that the stormwater gully which is adjacent to the proposed metal storage area would be decommissioned. However, the existing layout of stormwater gullies in the yard area mean two stormwater drains run through the south-eastern yard where the metal storage area is proposed and thus, the risk of contamination of stormwater would remain.

- Condition 8.2 of the licence requires all waste to remain stored inside the processing building, including baled metals. The risk of contaminated run-off draining to stormwater and ultimately, to Cork Harbour (004030) and Great Island Channel SAC (001058), is therefore removed.

The licence additionally ensures stormwater remains uncontaminated via fuel storage requirements, maintenance and monitoring.

- Condition 6.19.4 requires all on-site fuels to be stored only at appropriately bunded locations. Condition 6.10 states integrity and water tightness testing must be carried out on all tanks, bunding structures, containers and underground pipes.
- Condition 2.2.2.14 of the licence requires the licensee to maintain a preventive maintenance programme which will ensure all stormwater silt traps and oil separators are fully operational at all times.
- Condition 6.13 requires stormwater discharge at SW-1 to be monitored for TOC and COD, as well as several other parameters laid out in Schedule C.3.2. Monitoring of Storm Water Emissions. The licence requires a visual inspection of the stormwater discharge weekly. The risk of contaminated stormwater draining to Lehenagh Beg Stream and ultimately, to Cork Harbour (004030) and Great Island Channel SAC (001058), is therefore removed.

The underground stormwater retention tank at the installation also serves as the on-site firewater retention tank. Currently, this firewater retention tank feeds-out, via a rising main at SW-1, to the Lehenagh Beg Stream. The licensee states in the EIAR that in the event of a fire, emergency response actions include switching off the pump in the balance tank and manually closing the manual shut-off valve at SW-1. Section 5 of the EPA draft guidance note on fire water retention states that, “All potential retention infrastructure, as outlined below, must be automatically activated in the event of a fire alarm being activated. Reliance on manual intervention to deploy retention is not acceptable.” Therefore, the licence recommends for the installation of an automatic shut-off valve at SW-1, connected to the fire-detection system.

- Condition 3.14(i) of the licence requires an automatic shut-off valve, connected to the fire-detection system, to be installed at the SW-1 outlet. Should the fire alarms be activated, the valve to the surface water outlet shall immediately close, removing any potential significant effects from firewater, on the Lehenagh Beg Stream and ultimately on, Cork Harbour (004030) and Great Island Channel SAC (001058).

The Agency is satisfied that no reasonable scientific doubt remains as to the absence of adverse effects on the integrity of those European Sites Cork Harbour SPA (Site Code: 004030) and Great Island Channel SAC (Site Code: 001058).

Part I Schedule of Activities Licensed

In pursuance of the powers conferred on it by the Environmental Protection Agency Act 1992 as amended, the Agency proposes to grant this Industrial Emissions licence to:

Forge Hill Recycling Unlimited Company, Forge Hill Waste Transfer Station, Forge Hill, County Cork, CRO Number 551113

under Section 83(1) of the said Act to carry on the following activities:

11.4 (b) Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply):

(i) pre-treatment of waste for incineration or co-incineration.

11.1 The recovery or disposal of waste in a facility, within the meaning of the Act of 1F996, which facility is connected or associated with another activity specified in this Schedule in respect of which a licence or revised licence under Part IV is in force or in respect of which a licence under the said Part is or will be required.

at Forge Hill Waste Transfer Station, Forge Hill, County Cork, subject to the following Conditions, with the reasons therefor and associated schedules attached thereto.

Part II Schedule of Activities Refused

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

Part III Conditions

Condition 1. Scope

- 1.1 Industrial Emissions Directive activities at this installation 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 The licensee shall carry on the licensed activities in accordance with the limitations set out in *Schedule A: Limitations* of this licence.
- 1.3 For the purposes of this licence, the installation authorised by this licence is the area of land outlined in red on Drawing No. **14/4347-PL-01** of the application. Any reference in this licence to “installation” shall mean the area thus outlined in red. The licensed activities shall be carried on only within the area outlined.
- 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 approval of, the Agency and/or Irish Water as appropriate.
- 1.5 The installation 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 the purpose of licensing under the EPA Act 1992 as amended 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 shall have effect in lieu of the licence granted on **21st August 2017 (Register No. W0291-01)**.
- 1.8 Waste Acceptance Hours and Hours of Operation
- 1.8.1 With the exception of emergencies or as may be agreed by the Agency, waste shall be accepted at or dispatched from the installation only between the hours of **6:00** and **23:30** Monday to Friday inclusive, **06:00** to **18:00** Saturdays and **08:00** to **18:00** Sundays and Bank Holidays.
- 1.8.2 The installation may be operated twenty-four hours a day, seven days a week, subject to agreement with the Agency.

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

Condition 2. Management of the Installation

2.1 Installation Management

- 2.1.1 The licensee shall employ a suitably qualified and experienced installation manager who shall be designated as the person in charge. The installation manager or a nominated, suitably qualified and experienced deputy shall be present on the installation 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 installation manager and his/her deputy shall successfully complete a FAS waste management training programme or a Certificate in Compost Facility Operation or equivalent agreed by the Agency.

2.2 Environmental Management System (EMS)

- 2.2.1 The licensee shall maintain and implement an Environmental Management System (EMS), which shall incorporate energy efficiency management. The EMS shall be reviewed by senior management for suitability, adequacy and effectiveness and updated on an annual basis.

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

2.2.2.1 Commitment of management, including senior management.

2.2.2.2 An environmental policy defined for the installation that includes the continuous improvement for the installation by the management.

2.2.2.3 Management and Reporting Structure and responsibility.

2.2.2.4 The necessary procedures, objectives and targets, in conjunction with financial planning and investment.

2.2.2.5 Procedures that ensure employee involvement in ensuring compliance with environmental legislation.

2.2.2.6 A procedure for checking performance by sectoral benchmarking on a regular basis including energy efficiency.

2.2.2.7 Schedule of Environmental Objectives and Targets

The licensee shall **maintain and implement** 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, reduction in water consumption, reduction in effluent generation, optimisation of Cleaning in Place (CIP) system, the use of cleaner technology, cleaner production, odour and noise management, the use of cleaner technology, cleaner production and the prevention, reduction and minimisation of waste and shall include waste reduction targets **and** reduction of storm water runoff to sewer (diversion from sewer). 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 submitted to Irish Water as requested.**

2.2.2.8 Environmental Management Programme (EMP)

The licensee shall **maintain and implement** an EMP, including a time schedule, for achieving the Environmental Objectives and Targets prepared under Condition 2.2.2.7. The EMP 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.

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.

2.2.2.9 Documentation

- (i) The licensee shall **maintain and implement** 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.

2.2.2.10 Corrective and Preventative Action

- (i) The licensee shall **establish, maintain and implement** procedures to ensure that corrective and preventative action is taken should the specified requirements of this licence not be fulfilled. The responsibility and authority for persons initiating further investigation and corrective and preventative action in the event of a reported non-conformity with this licence shall be defined.
- (ii) Where a breach of one or more of the conditions of this licence occurs, the licensee shall without delay take measures to restore compliance with the conditions of this licence in the shortest possible time and initiate any feasible preventative actions to prevent recurrence of the breach.
- (iii) All corrective and preventative actions shall be documented

2.2.2.11 Internal Audits

The licensee shall **maintain and implement** a programme for independent internal audits of the EMS. Such audits shall be carried out at least once every three years. The audit programme shall determine whether or not the EMS is being implemented and maintained properly, and in accordance with the requirements of the licence. Audit reports and records of the resultant corrective and preventative actions shall be maintained as part of the EMS in accordance with condition 2.2.2.9.

2.2.2.12 Awareness, Training and Competence

The licensee shall **maintain and implement** procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a significant effect upon the environment to ensure awareness and competence in their work area. Appropriate records of training shall be maintained.

2.2.2.13 Communications Programme

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

2.2.2.14 Maintenance Programme

The licensee shall **maintain and implement** a detailed programme for maintenance of all plant and equipment based on the instructions issued by the manufacturer/supplier or installer of the equipment **or as otherwise approved in writing by IW**. 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). The maintenance programme shall use appropriate techniques and measures to ensure the optimisation of energy efficiency in plant and equipment.

2.2.2.15 Efficient Process Control

The licensee shall **maintain and implement** 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 ensure, at all times after the grant of this licence, that all infrastructure and all equipment required under this licence has been and is:
- (i) Installed;
 - (ii) Commissioned;
 - (iii) present on site; and,
 - (iv) maintained in full working order.
- 3.2 **Where any condition or schedule of this licence specifies any later deadline for installation of any piece of infrastructure or equipment, Condition 3.1 shall apply as and from the deadline specified.**
- 3.3 The licensee shall establish and maintain, for each component of the installation, 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.
- 3.4 The licensee shall have regard to the following when choosing and/or designing any new plant/infrastructure:
- (i) Energy efficiency, and
 - (ii) The environmental impact of eventual decommissioning.
- 3.5 Installation Notice Board
- (i) The licensee shall, within one month of the date of grant of this licence, provide an Installation Notice Board on the installation so that it is legible to persons outside the main entrance to the installation. The minimum dimensions of the board shall be 1200 mm by 750 mm. The notice board shall be maintained thereafter.

- (ii) The board shall clearly show:
 - (i) the name and telephone number of the installation;
 - (ii) the normal hours of opening;
 - (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 installation can be obtained.
 - (iii) A plan of the installation clearly identifying the location of each storage and treatment area shall be displayed as close as is possible to the entrance to the installation. 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 installation are made.
- 3.6 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.
- 3.7 In the case of composite sampling of aqueous emissions from the operation of the installation, 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.
- 3.8 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.
- 3.9 Tank, Container and Drum Storage Areas
- (i) All tank, 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).
 - (ii) All tank and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:
 - (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.
 - (iii) All drainage from bunded areas shall be treated as contaminated unless it can be demonstrated to be otherwise. All drainage from bunded areas shall be diverted for collection and safe disposal, unless it can be deemed uncontaminated and does not exceed the trigger levels set for storm water emissions under Condition 6.13.
 - (iv) All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
 - (v) All tanks, containers and drums shall be labelled to clearly indicate their contents.
 - (vi) All bunds shall be uniquely identified and labelled at the bund.
- 3.10 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 installation. Once used, the absorbent material shall be disposed of at an appropriate facility.
- 3.11 Storm Water Management
- Storm water management infrastructure shall be provided and maintained at the installation during construction works, operation, closure, restoration and aftercare at the installation. As a minimum, the infrastructure shall be capable of the following:

- (i) the prevention of discharge of contaminated storm water, process effluent and/or leachate **into ground or surface water drains and courses,**
 - (ii) the collection and diversion of run-off arising from paved areas.
- 3.12 Silt Traps and Oil Separators
- The licensee shall maintain silt traps and oil separators at the installation:
- (iii) Silt traps to ensure that all storm water discharges, other than from roofs, from the installation pass through a silt trap in advance of discharge;
 - (ii) An oil separator on the storm water discharge from yard areas. The separator shall be a Class I full retention separator.
- 3.13 The silt traps and separator shall be in accordance with I.S. EN-858-2: 2003 (separator systems for light liquids).
- 3.14 Fire-water Retention
- (i) **The licensee shall, within six months of the date of grant of this licence, install an automatic shut-off valve at surface water drainage outlet Reference No. SW-1, which will be automatically deployed in the event of a fire alarm being activated.**
 - (ii) The licensee shall have regard to the Environmental Protection Agency Draft Guidance Note to Industry on Fire-Water Retention Facilities, when implementing Condition 3.14(i).
 - (iii) A review of the firewater risk assessment shall be undertaken at least once every three years or prior to significant infrastructural developments or management of new materials. Updates shall be reported in the AER. Findings of such reviews shall be implemented according to a schedule to be approved by the Agency.
 - (iv) In the event that a significant risk exists for the release of contaminated fire-water, the licensee shall, based on the findings of the risk assessment, prepare and implement, with the agreement of the Agency, a suitable risk management programme. The risk management programme shall be fully implemented within three months of date of notification by the Agency.
 - (v) The licensee shall have regard to any guidelines issued by the Agency with regard to firewater retention.
- 3.15 All pump sumps, storage tanks 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) within **three** months from the date of grant of this licence.
- 3.16 All wellheads at the installation shall be adequately protected to prevent contamination or physical damage.
- 3.17 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.
- 3.18 The licensee shall, 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.
- 3.19 Specified Engineering Works
- 3.19.1 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.

- 3.19.2 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.
- 3.19.3 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; and
 - (iii) Any other information requested in writing by the Agency.
- 3.20 Installation security
 - 3.20.1 Security and stockproof fencing and gates shall be maintained. The base of the fencing shall be set in the ground.
 - 3.20.2 The licensee shall maintain a CCTV monitoring, system which records all waste vehicle movement into and out of the installation. The CCTV system shall be operated at all times with digital date stamping. Copies of recordings shall be kept on site and made available to the Agency on request.
 - 3.20.3 There shall be no unauthorised public access to the installation.
 - 3.20.4 Gates shall be locked shut when the installation is unsupervised.
 - 3.20.5 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.
- 3.21 Facility Roads and Site Surfaces
 - 3.21.1 Effective site roads shall be provided and maintained to ensure the safe and nuisance free movement of vehicles within the installation.
 - 3.21.2 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. The licensee shall remedy any defect in concrete surfaces within five working days.
- 3.22 Installation Office
 - 3.22.1 The licensee shall maintain an office at the installation. The office shall be maintained in a manner suitable for the processing and storing of documentation.
 - 3.22.2 The licensee shall maintain a working telephone and a method for electronic transfer of information at the installation.
- 3.23 Waste Inspection and Quarantine Areas
 - 3.23.1 A Waste Inspection Area and a Waste Quarantine Area shall be maintained at the installation.
 - 3.23.2 These areas shall be maintained in a manner suitable, and be of a size appropriate, for the inspection of waste and subsequent quarantine if required. The waste inspection area and the waste quarantine area shall be clearly identified and segregated from each other.
 - 3.23.3 Drainage from these areas shall be directed for collection and safe disposal.

3.24 Weighbridge and Wheel Cleaners

- 3.24.1 The licensee shall provide and maintain a weighbridge and wheel cleaners at the installation.
- 3.24.2 The wheel cleaner shall be used by all vehicles leaving the installation as required to ensure that no wastewater, waste or storm water is carried off-site. All water from the wheel cleaning area shall be directed for collection and safe disposal.
- 3.24.3 The wheel-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 wheel-wash and disposed of appropriately.

3.25 Waste handling, ventilation and processing plant

- 3.25.1 Items of plant deemed critical to the efficient and adequate processing of waste at the installation (including inter alia waste-loading vehicles and ejector trailers) shall be provided on the following basis:
 - (i) 100% duty capacity;
 - (ii) 20% standby capacity available on a routine basis; and
 - (iii) Provision of contingency arrangements and/or backup and spares in the case of breakdown of critical equipment
- 3.25.2 The licensee shall prepare and maintain on site a record detailing the duty and standby capacity, in tonnes per day, of all waste handling and processing equipment to be used at the installation. These capacities shall be based on the licensed waste intake, as per *Schedule A: Limitations* of this licence.
- 3.25.3 The quantity of waste to be accepted at the installation on a daily basis shall not exceed the duty capacity of the equipment at the installation. Any exceedance of this intake shall be treated as an incident.

3.26 Dust and Odour Control

The licensee shall maintain adequate measures for the control of dust and odour emissions, including fugitive dust emissions, from the installation. Installation of a dust and odour management system shall at a minimum include the following:

- Dust curtains (or equivalent approved by the Agency) shall be **maintained** on the entry/exit points from the waste treatment building;
- Roller shutter doors shall be **maintained** on all entry/exit points used by waste vehicles;
- All doors in this building shall be kept closed when not in use.

3.27 Operational Controls

The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.

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

Condition 4. Interpretation

- 4.1 Emission limit values for emissions to sewer and waters in this licence shall be achieved without the introduction of dilution, and shall be interpreted in the following way:
- 4.1.1 Continuous Monitoring
- (i) No flow value shall exceed the specific limit.
 - (ii) No pH value shall deviate from the specified range.
 - (iii) No temperature value shall exceed the limit value.
- 4.1.2 Composite Sampling
- (i) No pH value shall deviate from the specified range.
 - (ii) For parameters other than pH and flow, eight out of ten consecutive composite results, based on flow proportional composite sampling, shall not exceed the emission limit value. No individual results similarly calculated shall exceed 1.2 times the emission limit value.
- 4.1.3 Discrete Sampling
- For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.
- 4.2 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.
- 4.3 Noise
- Noise from the installation shall not give rise to sound pressure levels, measured at any noise-sensitive location, which exceed the limit values.
- 4.4 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 Emissions may be made from the specified emission points set out in *Schedule B: Emission Limits*, of this licence subject to compliance with the Emission Limit Values specified in that Schedule.
- 5.1.1 Uncontaminated storm water may be discharged to surface water.
- 5.1.2 Uncontaminated storm water may be emitted to groundwater or to soil.
- 5.1.3 Minor, diffuse and potential emissions may be emitted to air as specified in the application, or as approved by the Agency under Condition 1 of this licence.
- 5.2 Notwithstanding the requirements of Condition 5.1 above, there shall be no other emissions from the installation.
- 5.3 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 installation boundary or any other legitimate uses of the environment beyond the installation boundary.

- 5.4 No trade effluent, leachate or contaminated storm water shall be discharged to surface water courses.
- 5.5 No substance shall be discharged in a manner, or at a concentration, that, following initial dilution, causes tainting of fish or shellfish.
- 5.6 The licensee shall ensure that all or any of the following:
- Vermin
 - Birds
 - Flies
 - Mud
 - Litter

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

5.7 Emissions to Sewer – Irish Water conditions

- 5.7.1 Other than the trade effluent authorised to be discharged under this licence, the licensee shall at no time discharge or cause or permit to be discharged into the sewer trade effluent or any other matter unless authorised in writing by Irish Water.
- 5.7.2 The licensee shall ensure that any trade effluent generated from canteen activities shall pass through appropriate grease removal equipment prior to discharge to sewer.
- 5.7.3 A summary report of volumes of trade effluent and other matter discharged to the sewer along with monitoring and analysis data as specified in *Schedule B: Emission Limits to Sewer*, of this licence and *Schedule C: Control & Monitoring*, of this licence shall be forwarded to both Irish Water and the Local Authority in a manner and timeframe as may be specified by Irish Water.

Reason: *To provide for the protection of the environment by way of control and limitation of emissions and to provide for the requirements of Irish Water in accordance with Section 99E of the EPA Act 1992 as amended*

Condition 6. Control and Monitoring

- 6.1 Test Programme
- 6.1.1 The licensee shall prepare **and maintain** a test programme for abatement equipment installed to abate emissions to atmosphere.
- 6.1.2 The programme shall be completed within three months of the commencement of operation of the abatement equipment.
- 6.1.3 The criteria for the operation of the abatement equipment 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 operation, control and management of the abatement equipment to ensure compliance with the emission limit values specified in this licence; and
 - (ii) assess the performance of any monitors on the abatement system and establish a maintenance and calibration programme for each monitor.
- 6.1.5 An **updated** 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 Sampling and analysis shall be undertaken by competent staff in accordance with documented operating procedures. Unless otherwise approved by the Agency, sampling and analysis of emissions to atmosphere shall be carried out by ISO 17025 accredited persons/organisations, with accreditation for the relevant scope of sampling and analysis.
- 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 appropriate control standards with evaluation of test responses.
- 6.2.4 Where any analysis is sub-contracted it shall be outsourced 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 activities are being carried out unless alternative sampling or monitoring has been approved 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 approved by the Agency.
- 6.5 Monitoring and analysis equipment shall be operated and maintained as necessary so that all monitoring accurately reflects the emission/discharge.
- 6.6 The licensee shall ensure that groundwater monitoring well sampling equipment is available or installed on-site at the installation 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 shall be calibrated 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 as required or approved by the Agency following evaluation of test results.
- 6.9 The licensee shall **maintain** 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 integrity and water tightness of all tanks, bunding structures, containers and underground pipes and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee within **twelve** months of the date of grant of this licence. 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.
- 6.11 The ~~storm-water~~ drainage systems (i.e., gullies, manholes, any visible drainage conduits and such other aspects as may be required by the Agency), bunds, silt traps and oil separators shall be inspected weekly, desludged as necessary, and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal. The licensee shall maintain a drainage maps on site. The drainage maps shall be reviewed annually and updated as necessary.

- 6.12 An inspection system for the detection of leaks on all flanges and valves on over-ground pipes used to transport materials other than water shall be developed and maintained prior to the commencement of the activity.
- 6.13 Storm Water and Run-off Management
- 6.13.1 A visual examination of the storm water discharges shall be carried out daily. A log of such inspections shall be maintained.
- 6.13.2 The licensee shall **maintain** suitable trigger levels for conductivity, **ammonia**, total suspended solids, TOC, COD and mineral oils in storm water discharges such that storm waters exceeding these levels will be **retained and disposed of suitably by an authorised contractor**. The licensee shall have a response programme to address any exceedance of the trigger values. The licensee shall have regard to the Environmental Protection Agency “Guidance on the setting of trigger values for storm water discharges to off-site surface waters at EPA IPPC and Waste licensed facilities” when establishing the suitable trigger levels.
- 6.13.3 Run-off from process areas of the installation used for the holding, storage and treatment of waste shall not be discharged to the storm water drainage system.
- 6.13.4 Run-off from process areas of the installation used for the holding, storage and treatment of waste shall be diverted for collection and safe disposal.
- 6.13.5 The licensee shall ensure that storm waters that have the potential to become contaminated through contact with waste, are physically segregated from and managed separately to, storm waters that do not have the potential to become contaminated through contact with waste.
- 6.14 Noise
- The licensee shall carry out a noise survey of the site operations within three months of implementing operation hours of 24 hours/day, 7 days a week, and as otherwise required by the Agency. A report on the initial noise monitoring shall be prepared and notified to the Agency within three months. The survey programme shall be undertaken in accordance with the methodology specified in the ‘Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)’ as published by the Agency.
- 6.15 Pollutant Release and Transfer Register (PRTR)
- The licensee shall prepare and report a PRTR data report for the site. The pollutants and/or wastes to be included in the PRTR shall be determined by reference to EC Regulations No. 166/2006 concerning the establishment of the European Pollutant Release and Transfer Register. The PRTR shall be prepared in accordance with any relevant Agency guidelines and shall be submitted electronically in the format specified by the Agency.
- 6.16 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.
- 6.17 The licensee shall permit authorised persons of the Agency and Irish Water, 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.
- 6.18 Groundwater Monitoring
- The licensee shall carry out monitoring for relevant hazardous substances in groundwater at the site of the installation. The substances for monitoring shall be identified by the licensee by undertaking a risk based assessment. The risk assessment, sampling and monitoring shall be carried out in accordance with any guidance published by the Agency. The licensee shall have regard to the ‘*Classification of Hazardous and Non-Hazardous Substances in Groundwater*’ as published by the Agency.

- 6.18.1 Groundwater monitoring shall be carried out at least annually, unless a case for less frequent monitoring is agreed by the Agency. Monitoring shall be carried out in accordance with *Schedule C: 6. Groundwater Monitoring*.
- 6.19 Operational Controls
 - 6.19.1 The floor of the waste transfer building shall be cleaned on a weekly basis. The floor of the storage bays for recovered wastes shall be washed down and cleaned on each occasion such bays are emptied, or as a minimum on a weekly basis.
 - 6.19.2 Scavenging shall not be permitted at the installation.
 - 6.19.3 All vehicle and machinery refuelling, and maintenance operations shall be carried out in designated areas protected against spillage and run-off.
 - 6.19.4 Fuels shall be stored only at appropriately bunded locations at the installation.
- 6.20 Litter Control
 - 6.1.1 All loose litter or other waste, placed on or in the vicinity of the installation, other than in accordance with the requirements of this licence, shall be removed, subject to the agreement of the landowners, immediately and in any event by 10.00 am of the next working day after such waste is discovered.
 - 6.1.2 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the installation are appropriately covered.
- 6.21 Dust and Odour Control
 - 6.21.1 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.
 - 6.21.2 The licensee shall undertake regular sweeping of the yard and hardstanding areas using a mechanical sweeper.
 - 6.21.3 The road network in the vicinity of the installation shall be kept free from any debris caused by vehicles entering or leaving the installation. Any such debris or deposited materials shall be removed without delay.
 - 6.21.4 The licensee shall undertake, as required by the Agency, an odour assessment which shall include as a minimum the identification and quantification of all significant odour sources and an assessment of the suitability and adequacy of odour abatement systems to deal with these emissions. Any recommendations arising from such an odour assessment shall be implemented following approval by the Agency.
- 6.22 The licensee shall maintain a dust monitoring network as per *Schedule C: Control & Monitoring*, of this licence.
- 6.23 Nuisance Monitoring

The licensee shall, at a minimum of one week intervals, inspect the installation and its immediate surrounds for nuisances caused by litter, vermin, birds, flies, wasps, mud, dust and odours. The licensee shall maintain a record of all nuisance inspections.

6.24 Vermin, Wasps and Flies

The licensee shall **maintain** a programme for the control and eradication of vermin, wasp and fly infestations at the facility. This programme should include as a minimum, operator training, details on the rodenticides and insecticides, if any, to be used, mode and frequency of application and measures to contain sprays within the facility boundary.

Reason: *To provide for the protection of the environment by way of treatment and monitoring of emissions and to provide for the requirements of Irish Water in accordance with Section 99E of the EPA Act 1992 as amended.*

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 grant of this licence review. The audit shall be carried out in accordance with the guidance published by the Agency, “Guidance Note on Energy Efficiency Auditing.”
- 7.2 The audit 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 All waste processing and storage shall be carried out inside the waste treatment building.
- 8.3 Waste sent off-site for recovery or disposal
- 8.3.1 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.
- 8.3.2 Waste sent off-site for recovery or disposal shall be transferred only to an appropriate facility.
- 8.4 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.
- 8.5 The loading and unloading of materials shall be carried out in designated areas protected against spillage and leachate run-off.

- 8.6 Waste and materials shall be stored in designated areas, protected as may be appropriate against spillage and leachate run-off. The waste and materials shall be clearly labelled and appropriately segregated.
- 8.7 Waste for disposal/recovery off-site shall be analysed in accordance with *Schedule C: Control & Monitoring*, of this licence.
- 8.8 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.
- 8.9 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.
- 8.10 Waste Acceptance and Characterisation Procedures
- 8.10.1 Waste shall only be accepted at the installation from Local Authority waste collection or transport vehicles or holders of waste permits, unless exempted or excluded, issued under the Waste Management Act 1996, as amended. Copies of these waste collection permits shall be maintained at the installation.
- 8.10.2 The licensee shall maintain detailed written procedures and criteria for:
- (i) characterisation, compliance testing and acceptance of all wastes arriving at the installation;
 - (ii) rejection of unacceptable incoming waste; and
 - (iii) ensuring adequate storage capacity exists in advance of waste acceptance.
- 8.10.3 Waste shall be accepted at the installation 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 all be retained by the licensee for all active customers and for a two year period following termination of licensee/customer agreements.
- 8.10.4 Waste arriving at the facility shall have its documentation checked at the point of entry to the installation and subject to this verification, weighed, documented and directed to the Waste Treatment Building. Each load of waste arriving at the Waste Treatment Building shall be inspected upon tipping within this building. Only after such inspections shall the waste be processed for recovery.
- 8.10.5 A record of all inspections of incoming waste loads shall be maintained.
- 8.10.6 Any waste deemed unsuitable for processing at the installation and/or in contravention of this licence shall be immediately separated and removed from the installation 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.
- 8.10.7 No food, residual or odour-forming waste shall be accepted at the installation.
- 8.10.8 No hazardous waste shall be accepted at the installation.
- 8.11 Unless agreed by the Agency the licensee shall not dispose of any waste that has been accepted at the facility for the purpose of a recovery activity. This condition shall not apply to non-recyclable waste that is separated for disposal by the licensee from the incoming waste.

8.12 Waste Storage Plan

- 8.12.1 The licensee shall, within three months of the date of grant of this licence, **update**, maintain and implement the Waste Storage Plan for all waste stored and held at the installation.
- 8.12.2 The Waste Storage Plan shall be adequate to ensure compliance with all conditions of this licence.
- 8.12.3 The Waste Storage Plan shall be to the satisfaction of the Agency at all times.
- 8.12.4 The Waste Storage Plan shall include:
- (i) the recommendations of the Fire Risk Assessment required by Condition 9.5 of this licence;
 - (ii) a limit on the total quantity of waste to be stored at the installation at any one time;
 - (iii) maximum stockpile sizes in designated storage areas including maximum volume, height, length, width and area, and minimum separation distances;
 - (iv) a limit on the maximum storage or holding period for each type of waste in designated storage areas;
 - (v) limitations, as may be necessary, on waste storage arrangements to be used to prevent odours arising;
 - (vi) an **updated** drawing or plan of the location of each waste type and the means of storage for each waste type (e.g. as loose waste, baled, in sealed containers);
 - (vii) **updated** details of the drainage system super-imposed on the above drawing or plan; and
 - (viii) a designated fire quarantine area that is:
 - available at all times to aid separation and management of wastes during a fire incident; and,
 - is different to the quarantine area set aside for unacceptable wastes.
- 8.12.5 Waste storage and holding practices at the installation shall comply at all times with the Waste Storage Plan.
- 8.12.6 Waste accepted or generated at the installation shall be stored or held only in designated areas that have been identified in the Waste Storage Plan.
- 8.12.7 All designated areas for storage or holding of waste shall be:
- clearly labelled;
 - appropriately segregated; and
 - visibly or physically delineated by walls, dividers, painted lines or marks on the ground or other methods acceptable to the Agency.
- 8.12.8 The Emergency Response Procedure as required under Condition 9 of this licence shall include an up-to-date copy of the Waste Storage Plan.

Reason: *To provide for the appropriate handling of material and the protection of the environment.*

Condition 9. Accident Prevention and Emergency Response

- 9.1 The licensee shall, within six months of date of grant of this licence, ensure that a documented Accident Prevention Procedure is in place 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, within six months of date of grant of this licence, ensure that a documented Emergency Response Procedure is in place, 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 as required by Condition 11.3 of this licence.
- 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.
- 9.3.3 Where an incident or accident that significantly affects the environment occurs, the licensee shall, without delay take measures to limit the environmental consequences of the incident or accident and to prevent further incident or accident.
- 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 waste treatment building **for more than 48 hours**, any waste arriving at or already collected at the installation shall be transferred directly to an alternative appropriate installation until such time as the waste treatment building is returned to a fully operational status. **The breakdown of equipment or any other occurrence which results in the closure of the installation, regardless of duration**, shall be treated as an emergency and rectified as soon as possible.
- 9.4.2 All significant spillages occurring at the installation shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects.
- 9.4.3 No waste shall be burnt within the boundaries of the installation. A fire at the installation shall be treated as an emergency and immediate action shall be taken to extinguish it and notify the appropriate authorities.
- 9.5 The licensee shall arrange, **within three months following installation of the automatic shut-off valve (linked to the site's fire detection system) on surface water drainage outlet Reference No. SW-1**, and every three years thereafter, for the completion, by an independent and appropriately qualified consultant, of an **updated** fire risk assessment for the installation. The assessment shall

examine all relevant factors on site that impinge on fire risk and prevention. The assessment shall have regard to **any guidelines issued by the Agency with regard to fire risk assessment. A report on the fire risk assessment shall be prepared and notified to the Agency as part of the first AER, in accordance with Condition 11.10.** Any recommendations in the fire risk assessment shall be implemented by the licensee.

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

Condition 10. Closure, Restoration and Aftercare 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 activities, 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. A final validation report to include a certificate of completion to demonstrate there is no continuing risk to the environment shall be submitted to the Agency within three months of termination or planned cessation of the activities.
- 10.2 Closure, Restoration and Aftercare Management Plan (CRAMP)
- 10.2.1 The licensee shall submit a revised CRAMP for agreement by the Agency within two months of grant of the licence. The licensee shall maintain a fully detailed and costed plan for the closure, restoration and long-term aftercare of the site or part thereof.
- 10.2.2 The plan shall be reviewed 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.
- 10.2.3 The licensee shall have regard to the Environmental Protection Agency's Guidance on Assessing and Costing Environmental Liabilities (2014) and, as appropriate, Guidance on Financial Provision (2015) and its supplementary document; Insurance Documents (2019), when implementing Condition 10.2.1 and 10.2.2 above.
- 10.3 The Closure, Restoration and Aftercare Management Plan (CRAMP) shall include, as a minimum, the following:
- (i) a scope statement for the plan;
 - (ii) the criteria that define the successful closure and restoration and aftercare of the activity or part thereof, which ensures minimum impact on the environment;
 - (iii) a programme to achieve the stated criteria;
 - (iv) where relevant, a test programme to demonstrate the successful implementation of the plan;
 - (v) details of the long term supervision, monitoring, control, maintenance and reporting requirements for the restored facility; and
 - (vi) details of the costings for the plan and the financial provisions to underwrite those costs.
- 10.4 A final validation report to include a certificate of completion for the Closure, Restoration and Aftercare 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 licensee shall submit the reports, proposals and submissions required by this licence by the deadlines specified. The licensee shall not be in compliance with the requirements of this condition unless and until it has submitted every report, proposal and submission, the deadline for which has passed.
- 11.2 The licensee shall carry out every action required by the Agency, and arising out of such reports, proposals or submission, by such deadline as the Agency may specify. The licensee shall not be in compliance with the requirements of this condition unless and until it has carried out every such action.
- 11.3 The licensee shall notify the Agency by both telephone and either email or webform, 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) an incident or accident as defined by the glossary;
 - (ii) any release of environmental significance to atmosphere from any potential emissions point including bypasses;
 - (iii) any breach of one or more of the conditions attached to this licence;
 - (iv) any malfunction or breakdown of key environmental abatement, control or monitoring equipment; and
 - (v) any incident or accident as defined in the glossary 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. All details required to be communicated must be in accordance with any Guidance provided by the Agency.
- 11.4 In the event of any incident which relates to discharges to sewer having taken place, the licensee shall notify Irish Water and the Local Authority in a manner prescribed by Irish Water, as soon as practicable after such an incident.
- 11.5 The following shall be notified, as soon as practicable after the occurrence of any incident which relates to a discharge to water:
- (i) Inland Fisheries Ireland in the case of discharges to receiving waters.
- 11.6 The licensee shall make a record of any notification made under Condition 11.3. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident or accident. The record shall include all corrective actions taken to manage the incident or accident, minimise wastes generated and the effect on the environment, and avoid recurrence. In the case of a breach of a condition, the record shall include measures to restore compliance.
- 11.7 The licensee shall record all complaints of an environmental nature related to the operation of the activities. 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 installation.

- 11.9 The licensee shall as a minimum ensure that the following documents are accessible at the site:
- (i) the licences relating to the installation;
 - (ii) the current EMS for the installation including all associated procedures, reports, records and other documents;
 - (iii) the previous year's AER for the installation;
 - (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 installation;
 - (v) relevant correspondence with the Agency;
 - (vi) up-to-date site drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and emission points;
 - (vii) 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;
 - (viii) any elements of the licence application or EIAR 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 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 LoW Code for the waste materials imported and/or sent off-site for disposal/recovery;
 - (ii) 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);
 - (iii) 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;
 - (iv) 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;
 - (v) details of any rejected consignments;
 - (vi) details of any approved waste mixing;
 - (vii) the results of any waste analyses required under *Schedule C: Control & Monitoring*, of this licence; and
 - (viii) the tonnage and LoW Code for the waste materials recovered/disposed on-site.
 - (ix) any other records as may be specified by the Agency.
- 11.12 The licensee shall maintain a computer based record, which shall be open to inspection by authorised persons of the Agency at all times, for each load of waste arriving at the facility and each load of waste departing from the facility. The licensee shall record the following:
- (i) the date;
 - (ii) the name of the carrier (including if appropriate, the waste collection permit details);
 - (iii) the vehicle registration number;
 - (iv) the trailer, skip or other container unique identification number (where relevant);
 - (v) the name of the producer(s)/collector(s) of the waste as appropriate;

- (vi) the name of the waste facility (if appropriate) from which the load originated including
 - (vii) the waste licence or waste permit register number;
 - (viii) a description of the waste including the associated LOW codes;
 - (ix) the quantity of the waste, recorded in tonnes;
 - (x) details of the treatment(s) to which the waste has been subjected;
 - (xi) whether the waste is for disposal or recovery and if recovery for what purpose;
 - (xii) the name of the person checking the load;
 - (xiii) where loads or wastes are removed or rejected, details of the date of occurrence, the
 - (xiv) types of waste and the appropriate facility to which they were removed including
 - (xv) waste licence and waste permit register number of the appropriate facility; and
 - (xvi) where applicable, a consignment note number (including transfrontier shipment notification and movement/tracking form numbers, as appropriate).
- 11.13 A record shall be kept of each consignment of trade effluent, leachate and/or contaminated storm water removed from the facility. The record shall include the following:
- (i) the name of the carrier;
 - (ii) the date and time of removal of trade effluent, leachate and/or contaminated storm water from the installation;
 - (iii) the volume of trade effluent, leachate and/or contaminated storm water, in cubic metres, removed from the installation on each occasion;
 - (iv) the name and address of the Wastewater Treatment Plant to which the trade effluent, leachate and/or contaminated storm water was transported; and
 - (v) any incidents or spillages of trade effluent, leachate and/or contaminated storm water during its removal or transportation.
- 11.14 A record shall be kept at the installation of the programme for the control and eradication of vermin and fly infestations at the installation. A report on the programme shall be prepared and submitted to the Agency as part of the AER.
- 11.15 The licensee shall electronically submit report(s) as required by the conditions of this licence to the Agency.
- 11.16 All reports shall be certified accurate and representative by the installation manager or a nominated, suitably qualified and experienced deputy.
- 11.17 Waste Recovery Reports
- The licensee shall as part of the Annual Environmental Report for the site submit a report on the contribution by this installation to the achievement of the waste recovery objectives stated in Condition 2.2.2.3 and as otherwise may be stated in National and European Union waste policies and shall, as a minimum, include the following:
- (i) the recovery of metals;
 - (ii) the separation and recovery of other recyclable materials.

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 **€13,476**, 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 activities as the Agency considers necessary for the performance of its functions under the Environmental Protection Agency Act 1992 as amended. 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 Environmental Protection Agency Act 1992 as amended, 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 Irish Water Charges

The licensee shall pay to Irish Water such 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, treatment, monitoring, sampling and analysis costs. Payment to be made on demand from Irish Water.

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, as appropriate 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 activities.

12.3.2 The licensee shall arrange for the revision, by an independent and appropriately qualified consultant, of a comprehensive and fully costed revised Environmental Liabilities Risk Assessment (ELRA) which addresses the liabilities from past and present activities. The assessment shall include those liabilities and costs identified in Condition 10 for execution of the CRAMP. A report on this assessment shall be submitted to the Agency for agreement within two months of date of grant of this licence. The ELRA shall be reviewed as necessary to reflect any significant change on site, and in any case every three years following initial agreement. Review results are to be notified as part of the AER.

12.3.3 The licensee shall to the satisfaction of the Agency, make financial provision to cover any liabilities associated with the operation **of the site for 100,000 tonnes of waste per annum** (including closure, restoration and aftercare). The amount of financial provision 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 revise the cost of closure, restoration and aftercare annually and any adjustments shall be reflected in the financial provision made under Condition 12.3.3.

12.3.5 The licensee shall have regard to the Environmental Protection Agency's Guidance on Assessing and Costing Environmental Liabilities (2014) and Guidance on Financial Provision (2015) and the baseline report when implementing Conditions 12.3.2, 12.3.3 and 12.3.4 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 Irish Water in accordance with Section 99E of the EPA Act 1992 as amended.

SCHEDULE A: Limitations

A.1 Waste Processes

The following waste related processes are authorised:

- (i) **Reception, sorting, separation, shredding, screening, storage and transfer of municipal dry recyclable waste.**

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



A.2 Waste Acceptance

Table A.1 Waste Categories and Quantities

Non-Hazardous Waste Types ^{Note 1}	LoW Codes	Maximum (Tonnes per calendar year)
Municipal dry recyclable waste	15 01 01	100,000
	15 01 02	
	15 01 03	
	15 01 04	
	15 01 06	
	15 01 07	
	20 01 01	
	20 01 38	
	20 01 39	
	20 03 01	

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



A.3 Waste storage

Maximum amount of waste that may be stored at the facility at any one time	1,551 tonnes
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SCHEDULE B: Emission Limits

B.1 Emissions to Air

There shall be no emissions to air of environmental significance.

B.2 Emissions to Water

There shall be no emissions to water of environmental significance.

B.3 Emissions to Sewer

Emission Point Reference No: FW-1
Name of Receiving WWTP: Cork City Waste Water Treatment Plant, waste water discharge licence D0033-01
Location of emission point: E566799, N568771
Volume to be emitted: Maximum in any one day: 100 m³
 Maximum rate per hour: 30 m³

Parameter	Emission Limit Value		
pH	6-9 pH units		
Temperature	25°C		
Toxicity ^{Note 1}	10 TU		
	mg/l	Mean Daily Load kg/day	Max. daily Load kg/day
BOD	2000	20	200
COD	4000	40	400
Total Suspended Solids	500	5	50
Oils, Fats and Greases	100	-	-
Detergents	10	-	-
Mineral Oil	5	-	-
Total Nitrogen	100	-	-
Total Hydrocarbons	5	-	-
Sulphate	750	-	-
VOC	1	-	-
Total Heavy Metals	1	-	-

Note 1: Toxicity Units (TU) are defined as: $TU = (100/X \text{ Hour EC50})$ where X is the relevant period of exposure and EC50 is expressed as %vol/vol.

B.4 Noise Emissions

Daytime dB L _{Ar,T} (30 minutes)	Evening time dB L _{Ar,T} (30 minutes)	Night-time dB L _{Aeq,T} (15-30 minutes)
55	50	45 ^{Note 1}

Note 1: During night time hours, there shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise-sensitive location.



B5. Dust Deposition Limits

Level (mg/m ² /day) ^{Note 1}
350

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



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

There shall be no emissions to air of environmental significance.



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.2.3. Monitoring of Storm Water Discharges

Emission Point Reference No:

SW-1 (566793E, 568771N)

Parameter	Monitoring Frequency	Analysis Method/Technique
Visual Inspection	Daily	Sample and examine for colour and odour.
pH	Weekly	Standard method
Temperature	Weekly	Standard method
Conductivity	Weekly	Standard method
TOC	Weekly	Standard method
Total suspended solids	Weekly	Standard method
COD	Weekly	Standard method
Total Ammonia	Weekly	Standard method
Total Nitrogen	Weekly	Standard method
Mineral oils	Weekly	Standard method

**C.3.1. Control of Emissions to Sewer**

Emission Point Reference No:

FW-1

Description of treatment:

Removal of suspended solids, mineral oils and fats, oil and greases.

Control Parameter	Monitoring	Key Equipment
Suspended solids & Mineral oils/Total hydrocarbons	Suspended solids/silt & Mineral oils/Total hydrocarbons removal	Class I Full Retention Interceptor.
Fats, oil and grease removal	Fats, oil and grease content in trade effluent as a result of canteen activities.	Grease removal equipment ^{Note 1}

Note 1: Grease removal equipment shall comply with the requirements of European Standards (EN) or Plumbing and Drainage Institute (PDI) standards or as otherwise specified by Irish Water.



C.3.2. Monitoring of Emissions to Sewer

Emission Point Reference No: FW-1

Parameter	Monitoring Frequency ^{Note 1 & 2}	Analysis Method /Technique
Flow to sewer	Continuous	On-line flow meter with recorder
Temperature	Continuous	On-line temperature probe with recorder
pH	Continuous	On-line pH probe with recorder
Chemical Oxygen Demand	Weekly	Standard Method
Total Suspended Solids	Weekly	Standard Method
Biochemical Oxygen Demand	Monthly	Standard Method
Oils, fats and greases	Monthly	Standard Method
Detergents	Quarterly	Standard Method
Sulphate	Quarterly	Standard Method
VOC	Quarterly	Standard Method
Total Nitrogen	Bi-annually	Standard Method
Mineral oil	Bi-annually	Standard Method
Total Hydrocarbons	Bi-annually	Standard Method
Total Heavy Metals	Annually	Standard Method
Toxicity ^{Note 3}	As may be required	To be agreed by the Agency

Note 1: All samples excluding those for flow, pH and temperature shall be collected on a 24 hour flow proportional composite sampling basis. In this regard, a composite sample for testing purposes shall be defined as any sample extracted from the sampling apparatus between 8.00 am and 12.00 noon on any day for which normal operational activities have been ongoing for the previous 24 hours.

Note 2: Sampling shall take place in alternate week days on a rolling basis to ensure representative samples are obtained for site operations which may vary across the working week.

Note 3: The number of toxic units (Tu) = 100/x hour EC/LC50 in percentage vol/vol so that higher Tu values reflect grater levels of toxicity. For test regimes where species death is not easily detected, immobilisation is considered equivalent to death.



C.4 Waste Monitoring

Waste Class	Frequency	Parameter	Method
To be agreed by the Agency ^{Note 1}			

Note 1: Analytical requirements to be determined on a case by case basis.



C.5 Noise Monitoring

Location: NSL1 (567005E, 568771N)
 NSL2 (566693E, 568860N)
 NSL3 (566632E, 568620N)
 N1 (566800E, 568768N)
 N2 (566768E, 568802N)
 N3 (566913E, 568859N)
 N4 (566901E, 568794N)

Period	Minimum Survey Duration
Daytime	4 hour survey with a minimum of 3 sampling periods at each noise monitoring location ^{Note 2}
Evening-time	2 hours survey with a minimum of 1 sampling period at each noise monitoring location.
Night-time ^{Note 1}	3 hour survey with a minimum of 2 sampling periods at each noise monitoring location.

Note 1: Night-time measurements should be made between 2300hrs and 0400hrs, Sunday to Thursday, with 2300hrs being the preferred start time.

Note 2: Sampling period is to be the time period T stated within the relevant licence. Typically, this will be either 15 minutes or 30 minutes in duration. This applies to day, evening and night time periods.

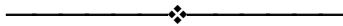


C.6 Ambient Monitoring

C.6.1 Dust Deposition

Location: D1 (566837E, 568772N);
 D2 (566768E, 568816N);
 D3 (566901E, 568790N);
 D4 (566900E, 568859N); and
 any other locations required by the Agency

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust deposition	Quarterly	Bergerhoff

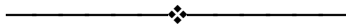


C.6.2 Groundwater Monitoring

Location: GW-1

Parameter	Monitoring Frequency	Analysis Method/Techniques
pH	Biannually	pH electrode/meter
COD	Biannually	Standard Method
Nitrate	Biannually	Standard Method
Total Ammonia	Biannually	Standard Method
Total Nitrogen	Biannually	Standard Method
Conductivity	Biannually	Standard Method
Chloride	Biannually	Standard Method
Fluoride	Biannually	Standard Method
Relevant Hazardous Substances <small>Note1</small>	Biannually	Standard Method

Note 1: Groundwater monitoring for relevant hazardous substances shall be in accordance with Condition 6.18.



SCHEDULE D: Specified Engineering Works

Specified Engineering Works
<p>Development of the installation including implementation of waste-handling, processing, recycling/recovery infrastructure and implementation of increased waste processing capacity as well as any abatement system(s).</p> <p>Any other works notified in writing by the Agency.</p>



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SCHEDULE E: Annual Environmental Report

Annual Environmental Report Content ^{Note 1}
<p>Emissions from the installation.</p> <p>Waste management record.</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 assessment 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 installation, and a programme for public information.</p> <p>Review of Closure, Restoration & Aftercare 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 approval of the Agency.



Signed on behalf of the said Agency _____
On the xx day of xxxxx, 201X xxxxxxxxxxxx **Authorised Person**