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Waste Licence

<b>Licence Register Number:</b>	W0256-02
<b>Company Register Number:</b>	263357
<b>Licensee:</b>	Lennon Quarries Limited
<b>Location of Facility:</b>	Tallagh Belmullet County Mayo



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WASTE MANAGEMENT ACT 1996 AS AMENDED

WASTE LICENCE

Decision of the Agency, under Section 46(8)(a) of the Waste Management Act 1996 as amended

*Waste Licence Register No:* **W0256-02**

Further to notice dated the 10<sup>th</sup> day of July 2014, the Agency in exercise of the powers conferred on it by the Waste Management Act 1996 as amended, for the reasons hereinafter set out in the attached Decision, grants this revised waste licence to Lennon Quarries Limited, Glencastle, Bunnahowen, Ballina, County Mayo, CRO Number 263357 to carry on the waste activities set out below at Lennon Quarries Limited, Tallagh, Belmullet, County Mayo, subject to twelve Conditions, as set out in the schedules attached thereto.

A copy of the Decision is attached.

Licensed Waste Activities

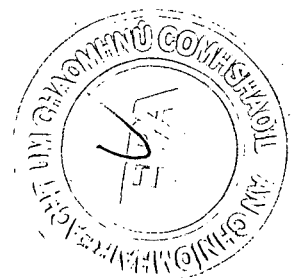
*Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Act 1996 as amended:*

- |                   |   |
|-------------------|---|
| <b>Class R5.</b>  | Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials.   |
| <b>Class R13.</b> | Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage (being preliminary storage according to the definition of 'collection' in section 5(1)), pending collection, on the site where the waste is produced). |

Sealed by the seal of the Agency on this the 14th day of August 2014

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

  
Mary Turner, Authorised Person



## **INTRODUCTION**

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

This waste licence review relates to the recovery of waste soil and stones by deposition on land at Tallagh, Belmullet, County Mayo, by Lennon Quarries Limited.

This licence authorises the continued operation of a soil recovery facility, with no change to the licenced final topographic level of a 1 metre land raise and with the acceptance of up to a maximum of 90,000 tonnes per annum of soil and stone for recovery. No changes to the nature, composition or volume of materials intended for recovery by deposition at the site is expected. The overall tonnage of 265,000 tonnes required to meet the development objectives at the site remains unchanged.

The existing open surface water drains (including 5 settlement ponds) on the site will remain in operation. A buffer zone will be maintained between the area of waste deposition and the Clooneen River which runs in an easterly direction along the northern site boundary.

The licence requires robust waste acceptance and inspection procedures to ensure that only uncontaminated, natural soil and stones are used in the waste activity. The licence specifies a number of environmental controls in order to minimise the risk of environmental pollution and nuisance to the public arising from the waste activity at the facility. The environmental monitoring requirements include surface water run-off, dust and noise.

The licence sets out in detail the conditions under which Lennon Quarries Limited, Glencastle, Bunnahowen, Ballina, County Mayo, will operate and manage this facility.

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## ***Glossary of Terms***

All terms in this licence should be interpreted in accordance with the definitions in the Environmental Protection Agency Act 1992 as amended / Waste Management Act 1996 as amended, unless otherwise defined in the section.

<b>Adequate lighting</b>	20 lux measured at ground level.
<b>AER</b>	Annual Environmental Report.
<b>Agreement</b>	Agreement in writing.
<b>Annually</b>	At approximately twelve-monthly intervals.
<b>Application</b>	The application by the licensee for this licence.
<b>Appropriate Facility</b>	A waste management facility, duly authorised under relevant law and technically suitable.
<b>Attachment</b>	Any reference to Attachments in this licence refers to attachments submitted as part of this licence application.
<b>BAT</b>	Best Available Techniques.
<b>Biannually</b>	All or part of a period of six consecutive months.
<b>Biennially</b>	Once every two years.
<b>BOD</b>	5 day Biochemical Oxygen Demand (without nitrification suppression).
<b>CEN</b>	Comité Européen De Normalisation – European Committee for Standardisation.
<b>COD</b>	Chemical Oxygen Demand.
<b>Construction and demolition (C&amp;D) waste</b>	Wastes that arise from construction, renovation and demolition activities: Chapter 17 of the EWC or as otherwise may be agreed.
<b>Containment boom</b>	A boom that can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses.
<b>Daily</b>	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.
<b>Day</b>	Any 24 hour period.
<b>Daytime</b>	0800 hrs to 2200 hrs.

<b>dB(A)</b>	Decibels (A weighted).
<b>DO</b>	Dissolved oxygen.
<b>Documentation</b>	Any report, record, results, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.
<b>Drawing</b>	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
<b>EMP</b>	Environmental Management Programme.
<b>Emission limits</b>	Those limits, including concentration limits and deposition rates, established in <i>Schedule B: Emission Limits</i> of this licence.
<b>Evening time</b>	1900hrs to 2300hrs.
<b>Environmental damage</b>	As defined in Directive 2004/35/EC.
<b>EPA</b>	Environmental Protection Agency.
<b>European Waste Catalogue (EWC)</b>	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2000/532/EC and any subsequent amendment published in the Official Journal of the European Community.
<b>Facility</b>	Any site or premises used for the purpose of the recovery or disposal of waste.
<b>Fortnightly</b>	A minimum of 24 times per year, at approximately two week intervals.
<b>GC/MS</b>	Gas chromatography/mass spectroscopy.
<b>Green waste</b>	Waste wood (excluding timber), plant matter such as grass cuttings, and other vegetation.
<b>Ha</b>	Hectare.
<b>Heavy metals</b>	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.
<b>Hours of operation</b>	The hours during which the facility is authorised to be operational.
<b>Hours of waste acceptance</b>	The hours during which the facility is authorised to accept waste.

<b>ICP</b>	Inductively coupled plasma spectroscopy.
<b>Inert waste</b>	Waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular must not endanger the quality of surface water and/or groundwater.
<b>Incident</b>	The following shall constitute as incident for the purposes of this licence: (i) an emergency; (ii) any emission which does not comply with the requirements of this licence; (iii) any exceedance of the daily duty capacity of the waste handling equipment; (iv) any trigger level specified in this licence which is attained or exceeded; and, (v) any indication that environmental pollution has, or may have, taken place.
<b>Industrial waste</b>	As defined in Section 5(1) of the Waste Management Act 1996 as amended.
<b>IPPC</b>	Integrated Pollution Prevention & Control.
<b>K</b>	Kelvin.
<b>kPa</b>	Kilopascals.
<b>Landfill Directive</b>	Council Directive 1999/31/EC.
<b>L<sub>eq</sub></b>	Equivalent continuous sound level.
<b>Licence</b>	A Waste Licence issued in accordance with the Waste Management Act 1996 as amended.
<b>Licensee</b>	Lennon Quarries Limited, Glencastle, Bunnahowen, Ballina, County Mayo.
<b>CRO Number</b>	Company Register Number.
<b>List I</b>	As listed in the EC Directives 2006/11/EC and 80/68/EEC and amendments.
<b>List II</b>	As listed in the EC Directives 2006/11/EC and 80/68/EEC and amendments.
<b>Local Authority</b>	Mayo County Council.

<b>Maintain</b>	Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to perform its function adequately.
<b>Mobile plant</b>	Self-propelled machinery used for the emplacement of wastes or for the construction of specified engineering works.
<b>Monthly</b>	A minimum of 12 times per year, at intervals of approximately one month.
<b>Night-time</b>	2200 hrs to 0800 hrs.
<b>Noise-sensitive location (NSL)</b>	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
<b>Quarterly</b>	At approximately three – monthly intervals.
<b>Sample(s)</b>	Unless the context of this licence indicates to the contrary, the term samples shall include measurements taken by electronic instruments.
<b>Sanitary effluent</b>	Wastewater from facility toilet, washroom and canteen facilities.
<b>Settlement Pond</b>	A reservoir of still water in which very fine material is allowed to settle, to permit discharge of clean water.
<b>SOP</b>	Standard operating procedure.
<b>Source segregated waste</b>	Waste which is separated at source; meaning that the waste is sorted at the point of generation into a recyclable fraction(s) for separate collection (e.g., paper, metal, glass, plastic, bulk dry recyclables, biodegradables, etc.,) and a residual fraction. The expression 'separate at source' shall be construed accordingly.
<b>Specified emissions</b>	Those emissions listed in <i>Schedule B: Emission Limits</i> of this licence.
<b>Specified Engineering Works</b>	Engineering works listed in <i>Schedule D: Specified Engineering Works</i> of this licence.
<b>Standard method</b>	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.
<b>Storm water</b>	Rain water run-off from roof and non-process areas.
<b>Temporary storage</b>	In relation to waste is a period of less than six months as defined in the Waste Management Act 1996 as amended.



<b>The Agency</b>	Environmental Protection Agency.
<b>TA Luft</b>	Technical Instructions on Air Quality Control – TA Luft in accordance with art. 48 of the Federal Immission Control Law (BImSchG) dated 15 March 1974 (BGBl. I p 721). Federal Ministry for Environment, Bonn 1986, including the amendment for Classification of Organic Substances according to section 3.1.7 TA. Luft, published in July 1997.
<b>TOC</b>	Total organic carbon.
<b>Trade effluent</b>	Trade effluent has the meaning given in the Water Services Act, 2007.
<b>Trigger level</b>	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
<b>Weekly</b>	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.
<b>WWTP</b>	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 reviewed licence, any emissions from the activity will comply with and will not contravene any of the requirements of Section 40(4) of the Waste Management Act 1996 as amended.

In reaching this decision the Environmental Protection Agency has considered the documentation relating to the current licence, Register Number: W0256-01, and the review application Register Number: W0256-02. This includes supporting documentation received from the applicant, all submissions received from other parties, the report of the Licensing Inspector and the Environmental Impact Assessment (EIA) report contained therein.

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

It is considered that the Environmental Impact Assessment Report (as included in the Inspectors Report dated 3 July 2014) contains a fair and reasonable assessment of the likely significant effects of the licensed activity on the environment. The assessment as reported is adopted as the assessment of the Agency. Having regard to this assessment, it is considered that the activity, 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.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the activity, individually or in combination with other plans or projects is likely to have a significant effect on a European Site(s). In this context, particular attention was paid to the European sites at Broadhaven Bay SAC, Mullet/Blacksod Bay complex SAC, Blacksod Bay/Broadhaven SPA, Erris Head SPA, Termoncarragh Lake and Annagh Machair SPA, Mullet Peninsula SPA, Inishglora & Inishkeeragh SPA and the Agency considered, for the reasons set out below, that the activity is not directly connected with or necessary to the management of those sites as European Sites and that it can be excluded on the basis of objective scientific information, that the activity, individually or in combination with other plans or projects, will have a significant effect on a European site, and accordingly the Agency determined that an Appropriate Assessment of the activity is not required.

It has been determined that this facility does not have the potential for significant effects on any European site due the nature and scale of operations at the facility.

## ***Part I Schedule of Activities Licensed***

In pursuance of the powers conferred on it by the Waste Management Act 1996 as amended, the Environmental Protection Agency (the Agency), under Section 46(8)(a) of the said Act hereby grants this Revised Waste Licence to Lennon Quarries Limited, Glencastle, Bunnahowen, Ballina, County Mayo, to carry on the waste activities listed below at Tallagh, Belmullet, County Mayo, subject to conditions, with the reasons therefor and the associated schedules attached thereto set out in the licence.

### **Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Act 1996 as amended**

<b>Class R5.</b>	Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials.
<b>Class R13.</b>	Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage (being preliminary storage according to the definition of 'collection' in section 5(1)), pending collection, on the site where the waste is produced).

## ***Part II Schedule of Activities Refused***

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

## ***Part III Conditions***

### **Condition 1. Scope**

- 1.1 Waste activities at this facility shall be restricted to those listed and described in *Part I Schedule of Activities Licensed*, and shall be as set out in the licence application or as modified under Condition 1.4 of this licence and subject to the conditions of this licence.
- 1.2 Activities at this facility shall be limited as set out in *Schedule A: Limitations* of this licence.
- 1.3 For the purposes of this licence, the facility authorised by this licence is the area of land outlined in red on Drawing No. 2084-2612/Revision E *Existing & Proposed Site Infrastructure (As Built)* of the application submitted on 22<sup>nd</sup> August 2012. Any reference in this licence to "facility" 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 agreement of, the Agency.
- 1.5 The facility shall be controlled, operated and maintained, and emissions shall take place as set out in the licence. All programmes required to be carried out under the terms of this licence become part of this licence.
- 1.6 This licence is for purposes of waste licensing under the Waste Management Act 1996 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 is being granted in substitution for the waste licence granted to the licensee on 20th of May 2011 (Register No: W0256-01). The previous waste licence (Register No: W0256-01) is superseded by this licence.
- 1.8 Waste Acceptance Hours and Hours of Operation
- 1.8.1 Waste may be accepted at the facility only between the hours of 08.30 and 17.30 Monday to Friday inclusive (excluding Public Holidays), and between 08.30 and 13.30 hours on Saturdays.
- 1.8.2 The facility may be operated only between the hours of 08.00 to 18.00 Monday to Friday inclusive (excluding Public Holidays), and 08.00 to 14.00 on Saturdays.
- 1.8.3 The facility shall not operate or accept waste on Sundays or on Public Holidays.

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

## Condition 2. Management of the Facility

### 2.1 Facility Management

- 2.1.1 The licensee shall employ a suitably qualified and experienced facility manager who shall be designated as the person in charge. The facility manager or a nominated, suitably qualified and experienced deputy shall be present on the facility at all times during its operation or as otherwise required by the Agency.
- 2.1.2 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience as required and shall be aware of the requirements of this licence.

### 2.2 Environmental Management System (EMS)

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

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

2.2.2.1 Management and Reporting Structure.

2.2.2.2 Schedule of Environmental Objectives and Targets.

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

2.2.2.3 Environmental Management Programme (EMP)

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

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

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

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

2.2.2.4 Documentation

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

2.2.2.5 Corrective Action

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

#### 2.2.2.6 Awareness and Training

The licensee shall maintain procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a significant effect upon the environment. Appropriate records of training shall be maintained.

#### 2.2.2.7 Communications Programme

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

#### 2.2.2.8 Maintenance Programme

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

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

### Condition 3. Infrastructure and Operation

- 3.1 The licensee shall establish and maintain, for each component of the facility, all infrastructure referred to in this licence in advance of the commencement of the licensed activities in that component, or as required by the conditions of this licence.
- 3.2 Facility Notice Board
- 3.2.1 The licensee shall maintain a Facility Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the board shall be 1200 mm by 750 mm. The notice board shall be maintained thereafter.
- 3.2.2 The board shall clearly show:
- (i) the name and telephone number of the facility;
  - (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 facility can be obtained.
- 3.3 Specified Engineering Works (SEW)
- 3.3.1 The licensee shall submit proposals for any 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.

- 3.3.2 All specified engineering works shall be supervised by an appropriately qualified person, and that person, or persons, shall be present at all times during which relevant works are being undertaken.
- 3.3.3 Following completion of any specified engineering works, the licensee shall complete a construction quality assurance validation. The validation report shall be made available to the Agency on request. The report shall, as appropriate, include the following information:
  - (i) A description of the works;
  - (ii) As-built drawings of the works;
  - (iii) Name(s) of contractor(s)/individual(s) responsible for undertaking the specified engineering works;
  - (iv) Records of any problems and the remedial works carried out to resolve those problems; and
  - (v) Any other information requested in writing by the Agency.
- 3.4 Facility Security
  - 3.4.1 Security and stockproof fencing and gates shall be installed and maintained. The base of the fencing shall be set in the ground. Subject to the implementation of the restoration and aftercare plan and to the agreement of the Agency, the requirement for such site security may be removed.
  - 3.4.2 Gates shall be locked shut when the facility is unsupervised.
  - 3.4.3 The licensee shall remedy any defect in the gates and/or fencing as follows:
    - (i) A temporary repair shall be made by the end of the working day; and
    - (ii) A repair to the standard of the original gates and/or fencing shall be undertaken within three working days.
- 3.5 Facility Roads and Hardstanding
  - 3.5.1 Effective site roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.
  - 3.5.2 The facility entrance and hardstanding areas shall be appropriately paved and maintained in a fit and clean condition.
- 3.6 Facility Office
  - 3.6.1 The licensee shall maintain a site office at the facility in a manner suitable for the processing and storing of documentation.
  - 3.6.2 The facility manager and deputy facility manager shall be contactable by mobile phone at all times during facility operation.
  - 3.6.3 The licensee shall ensure that a working telephone, and a method for electronic transfer of information are made available to the facility, at an alternative location agreed by the Agency.
- 3.7 Waste Inspection and Quarantine Areas
  - 3.7.1 A waste inspection area and a waste quarantine area shall be maintained at the facility.
  - 3.7.2 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.
  - 3.7.3 All waste deposited at the waste quarantine area shall be stored in a skip or other appropriate vessel as may be agreed by the Agency.

- 3.8 Tank, Container and Drum Storage Areas
- 3.8.1 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).
- 3.8.2 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.
- 3.8.3 All drainage from bunded areas shall be treated as hazardous waste unless it can be demonstrated to be otherwise. All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.8.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.8.5 All tanks, containers and drums shall be labelled to clearly indicate their contents.
- 3.9 The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 3.10 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.
- 3.11 The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility. Once used, the absorbent material shall be disposed of at an appropriate facility.
- 3.12 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.
- 3.13 Surface water
- 3.13.1 The licensee shall maintain all existing open surface water drains on site. No waste shall be deposited within 15 metres of any open surface water drain or stream.
- 3.13.2 The licensee shall maintain a 4.46 hectare buffer zone adjacent to the Clooneen River, in accordance with Drawing No. 2084-2603/Revision C *Site Layout Plan* of the application (or a replacement drawing as may be produced on foot of condition 10.2.1), and shall not, in any event, deposit waste within 25 metres of the Clooneen River.
- 3.13.3 The licensee shall maintain the settlement ponds at the facility to ensure that all storm water discharges from the facility pass through a settlement pond prior to discharge. The settlement ponds shall be as described in the application information submitted on 22<sup>nd</sup> August 2012, and as detailed on Drawing No. 2084-2614/Revision D *Surface Water Drainage System including Treatment / Abatement System (As Built)* of the application (or a replacement drawing as may be produced on foot of condition 10.2.1).
- 3.13.4 The depth of water at the inlet of the settlement ponds, as measured using staff gauges, shall be monitored on a weekly basis and appropriate records of same shall be maintained on site.
- 3.13.5 The licensee shall provide for the removal of the settlement ponds as part of the closure, restoration and aftercare management plan to be agreed under condition 10.8 of this licence. The settlement ponds shall be removed at an appropriate time with the agreement of the Agency and the Inland Fisheries Ireland. Without prejudice to the obligation to remove the settlement ponds, the settlement ponds may be retained if there are environmental, habitats or other relevant reasons for their retention and these reasons are agreeable to the Agency and the Inland Fisheries Ireland.



- 3.14 The licensee shall have regard to the guidance given in the Environmental Protection Agency Landfill Manuals (Site Design, Operational Practices, Monitoring, Site Investigation, and Restoration and Aftercare), as may be relevant, in the development, operation and closure of the facility.

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

## Condition 4. Interpretation

- 4.1 In the case of emissions to waters, 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 from the facility shall not give rise to sound pressure levels ( $L_{eq}$ , T) measured at noise sensitive locations, which exceed the limit values.
- 4.4 Dust from the activity shall not give rise to deposition levels at the facility boundary which exceed the limit value.

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

## Condition 5. Emissions

- 5.1 No specified emission from the facility shall exceed the emission limit values set out in *Schedule B: Emission Limits* of this licence. There shall be no other emissions of environmental significance.
- 5.2 No emissions, including odours, from the activities carried on at the site shall result in an impairment of, or an interference with amenities or the environment beyond the facility boundary or any other legitimate uses of the environment beyond the facility boundary.
- 5.3 The licensee shall ensure that all or any of the following:
- Mud
  - Dust
  - Litter

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

- 5.4 The road network in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay.
- 5.5 There shall be no direct emissions of polluting matter to groundwater or surface water.
- 5.6 Dust and particulate matters from the activity shall not give rise to deposition levels which exceed the limit values.

**Reason:** *To provide for the protection of the environment by way of control and limitation of emissions.*

## Condition 6. Control and Monitoring

- 6.1 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.
- 6.1.1 Analyses shall be undertaken by competent staff in accordance with documented operating procedures.
- 6.1.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics shall be determined.
- 6.1.3 Such procedures shall be subject to a programme of Analytical Quality Control using control standards with evaluation of test responses.
- 6.1.4 Where any analysis is sub-contracted it shall be to a competent laboratory.
- 6.2 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.
- 6.3 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the emission/discharge (or ambient conditions where that is the monitoring objective).
- 6.4 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the agreement of the Agency following evaluation of test results.
- 6.5 Noise
- The licensee shall carry out a noise survey of the site operations within 6 months of date of grant of this licence and at intervals agreed by the Agency thereafter. 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.
- 6.6 The licensee shall record the quantities of waste accepted at the facility on a daily basis, based on the capacity of each waste collection vehicle. The weight of one in every 25 waste loads shall be verified at an off-site weighbridge. The weighbridge records shall be maintained at the facility.
- 6.7 The licensee shall ensure that waste activities at the facility shall be carried out in such a manner as not to have an adverse effect on the drainage of adjacent lands, on watercourses, on field drains or any other drainage system including the public roadway.
- 6.8 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.
- 6.9 Operational Controls
- 6.9.1 There shall be no public access to the facility.
- 6.9.2 Vehicles delivering and dispatching waste shall enter onto the site only as far as the hardcore area, and the licensee shall ensure no mud or waste is carried off-site.

- 6.9.3 Wastes, once deposited and covered, shall not be excavated, disturbed or otherwise picked over unless with the prior agreement of the Agency.
- 6.9.4 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 6.9.5 All loose litter or other waste, placed on or in the vicinity of the facility, 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 10.00am of the next working day after such waste is discovered.
- 6.9.6 No smoking shall be allowed at the facility.
- 6.9.7 No fuels shall be stored at the facility.
- 6.10 Dust Control
  - 6.10.1 In dry weather, the site access road and hardcore area shall be sprayed with water as and when required, to minimise dust emissions.
  - 6.10.2 Temporary stockpiles of waste shall be stored in a manner which minimises dust emissions.
  - 6.10.3 Developed areas shall be seeded as soon as practicable after placement of cover soils, in a manner appropriate to the surrounding area and in any event in accordance with condition 10.2.2.
- 6.11 Surface Water Management
  - 6.11.1 The surface water drainage system shall be inspected weekly and desludged as necessary. All sludge and drainage from these operations shall be collected for safe disposal. The drainage system shall be properly maintained at all times.
  - 6.11.2 A visual examination of the settlement ponds for any evidence of contamination shall be carried out on a weekly basis. A log of such inspections shall be maintained.
  - 6.11.3 The licensee shall, within six months of the date of grant of this licence, establish suitable trigger levels, for the agreement of the Agency, for pH, conductivity, Mineral Oils and Total Heavy Metals in storm water discharges at SW1, SW2, SW3, SW4 and SW5. 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. Exceedance of trigger levels shall be regarded as an incident.
- 6.12 A topographical survey shall be carried out on an annual basis. The survey shall be in accordance with any written instructions issued by the Agency. The licensee shall submit a survey report to the Agency as part of the Annual Environmental Report, demonstrating that the deposition works are in accordance with condition 10.2.1 of this licence.
- 6.13 Bird Survey

The licensee shall carry out an annual breeding bird survey, unless otherwise required by the Agency. The survey shall record the number of birds of conservation concern utilising the site. The results of this assessment shall be reported as part of the Annual Environmental Report.

**Reason:** *To provide for the protection of the environment by way of treatment and monitoring of emissions.*

## Condition 7. Resource Use and Energy Efficiency

- 7.1 The licensee shall operate a programme to measure resources and energy use. This programme shall also identify actions or measures that will be implemented to maximise efficiency of use of resources and energy at this facility. A copy of this programme shall be available on-site for inspection by authorised persons of the Agency and a summary report of consumption figures as well as efficiency measures/actions/innovations shall be submitted as part of the Annual Environmental Report.

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

## Condition 8. Materials Handling

- 8.1 Recovery of waste on-site shall only take place in accordance with the conditions of this licence and in accordance with the appropriate National and European legislation and protocols.
- 8.2 Waste sent off-site for recovery or disposal shall be transported only by an authorised waste contractor. The waste shall be transported from the site of the activity to the site of recovery/disposal only in a manner that will not adversely affect the environment and in accordance with the appropriate National and European legislation and protocols.
- 8.3 The licensee shall ensure that, in advance of transfer to another person, waste shall be classified, packaged and labelled in accordance with National, European and any other standards which are in force in relation to such labelling.
- 8.4 The loading and unloading of materials (including re-fuelling of machinery) shall be carried out in designated areas protected against spillage and leachate run-off.
- 8.5 Waste shall be stored in designated areas, protected as may be appropriate against spillage and leachate run-off. The waste shall be clearly labelled and appropriately segregated.
- 8.6 No waste classified as green list waste in accordance with the EU Shipment of Waste Regulations (Council Regulation EEC No. 1013/2006, as may be amended) shall be consigned for recovery without the agreement of the Agency.
- 8.7 Waste for disposal/recovery off-site shall be analysed in accordance with *Schedule C: Control & Monitoring* of this licence.
- 8.8 Waste Acceptance and Characterisation Procedures
- 8.8.1 Waste shall only be accepted at the facility from Local Authority waste collection or transport vehicles, or holders of valid waste collection permits, unless exempted or excluded, issued under the Waste Management (Collection Permit) Regulations 2007, as amended.
- 8.8.2 The licensee shall maintain written procedures for the acceptance and handling of all wastes at the facility to the satisfaction of the Agency. These procedures shall be maintained in accordance with the requirements of *Schedule A: Limitations* of this licence.
- 8.8.3 No hazardous or liquid wastes, nor any waste not listed in *Schedule A: Limitations* of this licence, shall be accepted, recovered or disposed of at the facility.

**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 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 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 and other relevant authorities.
- 9.3.2 The licensee shall provide a proposal to the Agency for its agreement within one month of the incident occurring or as otherwise agreed by the Agency, to:
- (i) identify and put in place measures to avoid recurrence of the incident; and
  - (ii) identify and put in place any other appropriate remedial actions.

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

## Condition 10. Closure, Restoration and Aftercare Management

- 10.1 The facility shall be developed in accordance with Drawing No. 2084-2615/Revision C *Phasing Sequence for Deposition* of the application, submitted on 22<sup>nd</sup> August 2012 (or a replacement drawing as may be produced on foot of condition 10.2.1).
- 10.2 Finished Levels/Profile
- 10.2.1 The final ground levels at the facility shall not exceed an average of one metre above existing (pre-fill) ground level except as may be otherwise justified in order to comply with conditions 10.2.3 and 10.2.4. Up-to-date topographic drawings showing final profiles shall be retained for inspection. These drawings shall form the basis for filling and profiling of material deposited at the facility.
- 10.2.2 Within twelve months of completion of each of (a minimum of) three phases of waste deposition, that phase shall be professionally seeded and restored to agricultural use.
- 10.2.3 Developed areas shall be profiled so that no depression exists in which water may accumulate. Any depressions arising after profiling shall be rectified by the emplacement of suitable capping or restoration materials.
- 10.2.4 Final contours and landscaping should be such that the finished slopes of the facility are structurally stable, resistant to erosion, and protective of pollutant control and monitoring infrastructure.

10.3 Final Capping

Unless otherwise agreed by the Agency, the final capping shall consist of the following:

- (i) Top soil (150 – 300mm); and
- (ii) Subsoils, such that total thickness of top soil and subsoils is in accordance with the requirements of condition 10.2.1.

10.4 No material or object that is incompatible with the proposed restoration of the facility shall be present within 1m of the final soil surface levels.

10.5 All waste activities at the facility shall cease upon the installation of the final capping unless otherwise agreed by the Agency.

10.6 The licensee shall undertake measures as necessary to prevent the release of suspended solids to receiving waters during the site restoration activities, in particular during final capping, final contouring and landscaping works.

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

10.8 Closure, Restoration and Aftercare Management Plan (CRAMP)

10.8.1 The licensee shall maintain, to the satisfaction of the Agency, a fully detailed and costed plan for the decommissioning or closure of the site or part thereof.

10.8.2 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.

10.8.3 The licensee shall have regard to the Environmental Protection Agency Guidance on Environmental Liability Risk Assessment, Decommissioning Management Plans and Financial Provision when implementing Condition 10.8.1 above.

10.9 The CRAMP shall include, as a minimum, the following:

- (i) a scope statement for the plan;
- (ii) the criteria that define the successful decommissioning 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 decommissioning plan; and
- (v) details of the costings for the plan and the financial provisions to underwrite those costs.

10.10 A final validation report to include a certificate of completion for the CRAMP, for all or part of the site as necessary, shall be submitted to the Agency within three months of execution of the plan. The licensee shall carry out such tests, investigations or submit certification, as requested by the Agency, to confirm that there is no continuing risk to the environment.

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

## Condition 11. Notification, Records and Reports

11.1 The licence shall notify the Agency by either 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) any release of environmental significance to atmosphere from any potential emissions point including bypasses;
- (ii) any emission that does not comply with the requirements of this licence;
- (iii) any malfunction or breakdown of key control equipment or monitoring equipment set out in *Schedule C: Control and Monitoring* of this licence which is likely to lead to loss of control of the abatement system; and
- (iv) any incident with the potential for environmental contamination of surface water or groundwater, or posing an environment threat to air or land, or requiring an emergency response by the Local Authority.

The licensee shall include as part of the notification, date and time of the incident, summary details of the occurrence, and where available, the steps taken to minimise any emissions.

11.2 In the case of any incident relating to discharges to water, the licensee shall notify the Local and Irish Water and the Inland Fisheries Ireland as soon as practicable after such an incident.

11.3 The licensee shall make a record of any incident. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident. The record shall include all corrective actions taken to manage the incident, minimise wastes generated and the effect on the environment, and avoid recurrence. The licensee shall, as soon as practicable following incident notification, submit to the Agency the incident record.

11.4 The licensee shall record all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the date and time of the complaint, the name of the complainant (if provided), and give details of the nature of the complaint. A record shall also be kept of the response made in the case of each complaint.

11.5 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the facility.

11.6 The licensee shall as a minimum keep the following documents at the site:

- (i) the licences relating to the facility;
- (ii) the current EMS for the facility;
- (iii) the previous year's AER for the facility;
- (iv) records of all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the facility;
- (v) 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) the current Environmental Management Plan (EMP); and
- (ix) any elements of the licence application or EIS documentation referenced in this licence.

This documentation shall be available to the Agency for inspection at all reasonable times.

11.7 The licensee shall submit to the Agency, by the 31<sup>st</sup> 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.

- 11.8 The licensee shall maintain a written record for each load of waste arriving at the facility. The licensee shall record the following:
- (i) the date and time;
  - (ii) the name of the carrier (including if appropriate, the waste carrier registration details);
  - (iii) the vehicle registration number;
  - (iv) the trailer, skip or other container unique identification number (where relevant);
  - (v) the origin of the waste load;
  - (vi) the name of the producer(s)/collector(s) of the waste as appropriate;
  - (vii) a description of the waste including the associated EWC codes;
  - (viii) the quantity of the waste, recorded in tonnes;
  - (ix) the name of the person checking the load; and
  - (x) where loads or wastes are removed or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed.
- 11.9 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 EWC 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) written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site;
  - (v) 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;
  - (vi) details of any rejected consignments;
  - (vii) details of any approved waste mixing;
  - (viii) the results of any waste analyses required under *Schedule C: Control & Monitoring*, of this licence; and
  - (ix) the tonnage and EWC Code for the waste materials recovered/disposed on-site.
- 11.10 The licensee shall submit report(s) as required by the conditions of this licence to the Agency's Headquarters in Wexford, or to such other Agency office as may be specified by the Agency.
- 11.11 All reports shall be certified accurate and representative by the facility manager or a nominated, suitably qualified and experienced deputy.
- 11.12 Waste Recovery Reports
- The licensee shall as part of the Annual Environmental Report for the site submit a report on the contribution by this facility to the achievement of the waste recovery objectives stated in Condition 2.2.2.2 and as otherwise may be stated in National and European Union waste policies and shall, as a minimum, include the tonnage of C & D derived waste materials recovered.



**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 €5,421, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Waste Management Act 1996 as amended. The first payment shall be a pro-rata amount for the period from the date of grant of this licence to the 31<sup>st</sup> day of December, and shall be paid to the Agency within one month from the date of grant of the licence. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Waste Management Act 1996 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 Environmental Liabilities**

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

12.2.2 The licensee shall arrange for the completion, by an independent and appropriately qualified consultant, of a comprehensive and fully costed Environmental Liabilities Risk Assessment (ELRA) to address 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 as part of the AER. The ELRA shall be reviewed as necessary to reflect any significant change on site, and in any case every three years following initial agreement. The results of the review shall be notified as part of subsequent AERs.

12.2.3 As part of the measures identified in Condition 12.2.1, the licensee shall, to the satisfaction of the Agency, make financial provision to cover any liabilities identified in Condition 12.2.2. The amount of indemnity held shall be reviewed and revised as necessary, but at least annually. Proof of renewal or revision of such financial indemnity shall be included in the annual 'Statement of Measures' report identified in Condition 12.2.1.

12.2.4 The licensee shall have regard to the Environmental Protection Agency Guidance on Environmental Liability Risk Assessment, Decommissioning Management Plans and Financial Provision when implementing Conditions 12.2.2 and 12.2.3 above

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

## SCHEDULE A: Limitations

### A.1 Waste Acceptance

Only the inert wastes as specified in *Table A.1: Waste Categories and Quantities*, of this licence are acceptable for recovery at the facility unless otherwise agreed by the Agency. These wastes must satisfy the criteria in *Schedule A.2: Acceptance Criteria for materials to be used at the facility* of this licence.

**Table A.1 Waste Categories and Quantities**

EWC CODE	WASTE TYPE <sup>Notes 1 &amp; 2</sup>	MAXIMUM (TONNES PER ANNUM)
17 05 04	Soils and stones other than those mentioned in 17 05 03	90,000

**Note 1:** In the case of suspicion of contamination (either from visual inspection or from knowledge of the origin of the waste) testing in accordance with *Schedule A.2: Acceptance Criteria for materials to be used at the facility*, of this licence below shall be applied or the waste should be refused/rejected.

**Note 2:** Any proposals to accept other compatible waste streams must be agreed in advance by the Agency and the total amount of waste must be within the total amount specified.



### A.2 Acceptance Criteria for materials to be used at the facility

The general characterisation and testing must be based on the following three level hierarchy:

Level 1: Basic Characterisation

This constitutes a thorough determination, according to standardised analysis and behaviour testing methods, of the short and long-term leaching behaviour and/or characteristic properties of the waste.

Level 2: Compliance Testing

This constitutes periodical testing by simpler standard analysis and behaviour-testing methods to determine whether a waste complies with condition and /or specific reference criteria. The tests focus on key variables and behaviour identified by basic characterisation.

Level 3: On-site verification

This constitutes rapid check methods to confirm that a waste is the same as that which has been subjected to compliance testing and that which is described in any accompanying documents. It may merely consist of a visual inspection of a load of waste before and after unloading at the waste facility.

Each and every load of waste (and accompanying documents) accepted at the facility shall undergo Level 3 verification/inspection as a minimum. And, notwithstanding Condition 11.8, the following information shall be recorded in relation to each and every waste load following such inspection:

Waste producer	Type of process producing the waste
Source and origin of waste	Amount of waste
Licensee's job/order/invoice number	Existing data on the waste
Vehicle registration number	Physical form
Description of the waste	Colour
Waste Type and EWC code	Odour

Soil and stones (EWC code 17 05 04) from single sources where the total quantity of waste expected to be generated is greater than or equal to 2,000 tonnes shall be subject to Level 1 and Level 2 testing. Level 1 (characterisation) testing shall be carried out prior to agreeing acceptance of the waste. Level 2 (compliance) testing shall be carried out on representative samples of waste upon delivery. A representative sample shall be taken once from the first 2,000 tonnes of waste deposited and once for every 250 loads of waste thereafter. Part of each sample shall be retained at the facility for three months and be available for inspection/analysis by the Agency.

Where single sources generate less than 2,000 tonnes of soil and stones (EWC code 17 05 04), one sample for every 2,000 tonnes of waste accepted from the collective of small single sources shall be characterised according to criteria to be agreed in accordance with Condition 8.8.2 (and to incorporate appropriate elements of Level 1 and/or Level 2 testing).

In relation to all wastes proposed to be tested according to agreed protocols, the licensee shall, in accordance with Condition 8.8.2, propose maximum concentrations and/or trigger levels for contaminants in the materials proposed to be recovered. The exceedance of these maximum concentrations and/or trigger levels shall be considered an incident and non-compliant materials shall be dealt with in accordance with Condition 9.3. Arrangements shall be made for the removal of the material for disposal at an authorised facility.

Sampling and testing shall be carried out by independent and qualified persons and institutions. Laboratories shall have proven experience in waste testing and analysis and an efficient quality assurance system.



## SCHEDULE B: Emission Limits

### B.1 Emissions to Air

There shall be no emissions to air of environmental significance.



### B.2 Emissions to Water

Emission Point Reference No's: Discharge from settlement ponds SW1, SW2, SW3, SW4 and SW5.

Name of Receiving Waters: Clooneen River

Parameter	Emission Limit Value
Suspended Solids	25 mg/l



### B.3 Emissions to Sewer

There shall be no process effluent emissions to sewer.



### B.4 Noise Emissions

Daytime dB L <sub>Ar,T</sub> (30 minutes)	Evening time dB L <sub>Ar,T</sub> (30 minutes)	Night-time dB L <sub>Aeq,T</sub> (15-30 minutes)
45 <sup>Note 1</sup>	40 <sup>Note 1</sup>	35 <sup>Note 1</sup>

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



### B.5 Dust Deposition Limits

Measured at the monitoring points indicated in *Schedule C: Control and Monitoring, Table C: Environmental Monitoring Locations* of this licence, unless otherwise agreed by the Agency.

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

Note 1: 30 day composite sample with the results expressed as mg/m<sup>2</sup>/day.



## SCHEDULE C: Control & Monitoring

**Table C: Environmental Monitoring Locations**

<b>SURFACE WATER</b> <sup>Note 1</sup>	<b>DUST</b> <sup>Notes 2 &amp; 3</sup>	<b>NOISE</b> <sup>Notes 2 &amp; 3</sup>
SW1	D1a	N1a
SW2	D2	N2
SW3	D3	N3
SW4		
SW5		

**Note 1:** Monitoring of the discharges from settlement ponds 1 to 5, as shown on Drawing 2084-2606/Revision D *Environmental Monitoring Locations* submitted on 22<sup>nd</sup> August 2012.

**Note 2:** Monitoring locations as shown on Drawing 2084-2606/Revision D *Environmental Monitoring Locations* submitted on 22<sup>nd</sup> August 2012.

**Note 3:** These monitoring locations may be amended with the agreement of the Agency under Condition 6.4 of this licence.



### 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

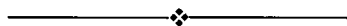
#### Dust Monitoring

**Table C.1.2 Dust Monitoring Frequency and Technique**

<b>Parameter</b>	<b>Monitoring Frequency</b>	<b>Analysis Method/Technique</b>
<b>Dust deposition (mg/m<sup>2</sup>/day)</b>	Bi-annually <sup>Note 1</sup>	Bergerhoff <sup>Note 2</sup>

**Note 1:** Once during the period May to September, or as otherwise specified in writing by the Agency.

**Note 2:** Standard Method VD12119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute).



### C.2.1 Control of Emissions to Water

**Emission Control Location:** SW1, SW2, SW3, SW4 & SW5

**Description of Treatment:** Settlement ponds

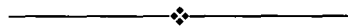
<b>Control Parameter</b>	<b>Monitoring</b>	<b>Key Equipment</b>
<b>Suspended Solids removal</b>	Suspended Solids content in water at discharge points	Settlement ponds Shut-off valves

### C.2.2 Monitoring of Emissions to Water



Emission Point Reference No: SW1, SW2, SW3, SW4 & SW5

Parameter	Monitoring Frequency	Analysis Method/Technique
Visual Inspection	Weekly	Sample and examine for colour and odour.
pH	Quarterly	pH meter
Conductivity	Quarterly	Conductivity meter
Suspended Solids	Quarterly	Standard method
Mineral Oils	Quarterly	Standard method
Total Heavy Metals	Quarterly	Standard method



**C.2.3 Control & Monitoring of Emissions to Groundwater**

There shall be no emissions to groundwater of environmental significance.



**C.2.4 Control & Monitoring of Emissions to Sewer**

There shall be no process effluent emissions to sewer.



**C.3 Noise Monitoring**

**Table C.3 Noise Monitoring Frequency & Technique**

Location	Measurement	Frequency
N1 - N5 (as per Drawing No: 2084-2606 of the EIS)	Daytime dB L <sub>Ar, T</sub> (30 minutes)	To be agreed by the Agency.
	Evening dB L <sub>Ar, T</sub> (30 minutes)	
	Night-time dB L <sub>Aeq, T</sub> (15 - 30 minutes)	
Period	Minimum Survey Duration	
Daytime	4 hour survey with a minimum of 3 sampling periods at each noise monitoring location. <sup>Note 2</sup>	
Evening-time	2 hours survey with a minimum of 1 sampling period at each noise monitoring location.	
Night-time <sup>Note 1</sup>	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.

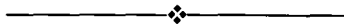
**C.4 Waste Monitoring**



Waste Class	Frequency	Parameter	Method
Non-compliant waste to be removed off-site for recovery/disposal	Per consignment	Basic Characterisation	Standard Method
Deposited waste <sup>Note 1</sup>	Dependent on rate of waste deposition.  Maximum 5 samples per year	To be agreed	To be agreed
Other <sup>Note 2</sup>			

**Note 1:** A representative sample of the deposited waste shall be taken at least every 3,000m<sup>2</sup> area of fill and to a depth of a minimum of 750mm, or at an equivalent frequency as may be agreed. Samples of the deposited waste shall be taken by trial pit or other appropriate method.

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



## SCHEDULE D: Specified Engineering Works

Specified Engineering Works
Installation and removal of surface water management infrastructure (including constructed settlement ponds). Installation of waste management infrastructure. Any other works notified in writing by the Agency.

## SCHEDULE E: Annual Environmental Report

Annual Environmental Report Content <sup>Note 1</sup>
Emissions from the facility.
Waste management record.
Waste recovery report.
Progress of waste deposition works, projected completion date.
Resource consumption summary.
Complaints summary.
Schedule of Environmental Objectives and Targets.
Environmental management programme – report for previous year.
Environmental management programme – proposal for current year.
Noise monitoring report summary.
Dust monitoring report summary.
Topographical survey report.
Stability assessment report.
Bird survey report.
Tank and pipeline testing and inspection report.
Reported incidents summary.
Resource use and energy efficiency summary report.
Development/Infrastructural works summary (completed in previous year or prepared for current year).
Reports on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information.
Review of Closure, Restoration & Aftercare Management Plan.
Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities).
Environmental Liabilities Risk Assessment Review (every three years or more frequently as dictated by relevant on-site change including financial provisions.
Any other items specified by the Agency.

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

Sealed by the seal of the Agency on this the 14<sup>th</sup> day of August 2014.

PRESENT when the seal of the Agency  
Was affixed hereto:

  
\_\_\_\_\_  
Mary Turner, Authorised Person

