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# WASTE LICENCE Recommended Decision

<b>Licence Register Number:</b>	W0295-01
Company Register Number:	303089
Licensee:	Kildare Sand & Gravel Limited
<b>Location of Facility:</b>	Boherkill,
	Rathangan,
	County Kildare

## **INTRODUCTION**

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

This waste licence relates to the operation of a soil and stone recovery facility at **Boherkill**, **Rathangan**, **County Kildare** by **Kildare Sand & Gravel Limited**. The activity relates to backfill of an exhausted quarry void using imported inert greenfield and non-greenfield soil and stone. The total amount of material to be used to backfill the quarry is 1,500,000 tonnes.

The licence requires the development and implementation of waste acceptance criteria and inspection procedures to ensure that only suitable soil and stone is used for backfill. 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 activities at the facility. The environmental monitoring requirements include monitoring of groundwater quality and ambient dust and noise.

The licence sets out in detail the conditions under which **Kildare Sand & Gravel Limited** will operate and manage this facility.

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# Glossary of Terms

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

Adequate 20 lux measured at ground level.

lighting

**AER** Annual Environmental Report.

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

Agreement Agreement in writing.

Annually At approximately twelve-monthly intervals.

Application The application by the licensee for this licence.

**Appropriate** A waste management facility or installation, duly authorised under relevant law

and technically suitable. facility

Any reference to Attachments in this licence refers to attachments submitted as Attachment

part of this licence application.

A recovery operation where suitable non-hazardous waste is used for **Backfilling** 

purposes of reclamation in excavated areas or for engineering purposes in landscaping. Waste used for backfilling must substitute non-waste materials, be suitable for the aforementioned purposes, and be limited to the amount

strictly necessary to achieve those purposes.

Basic

characterisation

of waste

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.

**BAT** Best Available Techniques.

**Biannually** At approximately six – monthly intervals.

**Biennially** Once every two years.

**BOD** 5 day Biochemical Oxygen Demand (without nitrification suppression).

**By-product** Material notified under Article 27 of the European Community (Waste

Directive) Regulations 2011 (SI No. 126 of 2011) which the Agency has not

determined (under article 27(3) of the Regulations) to be waste.

**CEN** Comité Européen De Normalisation - European Committee for

Standardisation.

COD Chemical Oxygen Demand. Compliance Point The point (location, depth) at which a compliance value should be met.

Generally it is represented by a borehole or monitoring well from which

representative groundwater samples can be obtained.

Compliance Value The concentration of a substance and associated compliance regime that, when

not exceeded at the compliance point will prevent pollution and/or achieve

water quality objectives at the receptor.

Compliance testing of waste

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

characterisation.

Contaminated soil and stone

Soil and stone that contains anthropogenic or man-made substances (such as rubble, concrete, bricks, metal and bitumen) that are not natural to the environment from which the material was extracted.

Construction and demolition (C&D) waste

Wastes that arise from construction, renovation and demolition activities:

Chapter 17 of the LoW or as otherwise may be agreed.

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).

**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

Schedule B: Emission Limits, of this licence.

**EMP** Environmental Management Programme.

**End-of-Waste** 

status

As specified in Article 28 of the European Community (Waste Directive)

Regulations 2011 (SI No. 126 of 2011).

Environmental damage

As defined in Directive 2004/35/EC.

**EPA** Environmental Protection Agency.

**Evening Time** 1900 hrs to 2300 hrs.

Extractive waste As defined in the Waste Management (Management of Waste from the

Extractive Industries) Regulations, 2009, S.I. No. 566 of 2009.

**Facility** Any site or premises used for the purpose of the recovery or disposal of waste.

**Fortnightly** A minimum of 24 times per year, at approximately two week intervals.

Gas Oil as defined in Council Directive 1999/32/EC and meeting the

requirements of S.I. No. 119 of 2008.

GC/MS Gas chromatography/mass spectroscopy.

Greenfield soil and stone

Soil and stone from land that has not been previously developed and is not

contaminated soil and stone.

**Green Waste** Waste wood (excluding timber), plant matter such as grass cuttings, and other

vegetation.

ha Hectare.

**Hazardous** Substances or mixtures as defined in Article 3 of Regulation (EC) No **Substances** 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.

**HFO** Heavy Fuel Oil as defined in Council Directive 1999/32/EC and meeting the

requirements of S.I. No. 119 of 2008.

Hours of operation

The hours during which the facility is authorised to be operational.

Hours of waste acceptance

The hours during which the facility is authorised to accept waste.

**ICP** Inductively coupled plasma spectroscopy.

#### Incident

The following shall constitute as incident for the purposes of this licence:

- (i) an emergency;
- (ii) any emission which does not comply with the requirements of this licence;
- (iii) any malfunction or breakdown of key environmental abatement, control or monitoring equipment;
- (iv) any exceedance of the daily duty capacity of the waste handling equipment;
- any trigger level specified in this licence which is attained or exceeded;
- (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.

#### **Inert** waste

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.

#### **Industrial** waste

As defined in Section 5(1) of the Waste Management Act 1996 as amended.

IPC Int

Integrated Pollution Control.

K

Kelvin.

kPa

Kilopascals.

L<sub>Aeq,T</sub>

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<sub>Ar,T</sub>

The Rated Noise Level, equal to the  $L_{\text{Aeq}}$  during a specified time interval (T), plus specified adjustments for tonal character and/or impulsiveness of the sound.

# List of Waste (LoW)

A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2000/532/EC, as amended by Commission Decision 2014/955/EU and any subsequent amendment published in the Official Journal of the European Community.

# Letter of suitability

A letter from a qualified person which states the following:

- (i) The waste is greenfield soil and stone.
- (ii) A description of the source and nature of the soil and stone.
- (iii) The location of the source of the soil and stone (including a map showing the source site boundary).
- (iv) The material is suitable for use as backfill at the facility.
- (v) The material will not cause environmental pollution at the facility.

Licensee Kildare Sand & Gravel Limited, Hazelwood House, Prosperous, County

Kildare, CRO Number 303089.

**Liquid waste** Any waste in liquid form and containing less than 2% dry matter.

**List I** As listed in the EC Directives 2006/11/EC and 80/68/EEC and amendments.

**List II** As listed in the EC Directives 2006/11/EC and 80/68/EEC and amendments.

**Local Authority** Kildare County Council.

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

repair as may be necessary to perform its function adequately.

Mass flow limit An emission limit value expressed as the maximum mass of a substance that

can be emitted per unit time.

Mass flow threshold A mass flow rate above which a concentration limit applies.

**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 facility or area of high amenity which for its proper enjoyment requires the absence of noise

at nuisance levels.

Non-greenfield soil and stone

Soil and stone that is not greenfield soil and stone.

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).

On-site verification of

waste

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 effort unleading at the waste facility.

load of waste before and after unloading at the waste facility.

**PRTR** Pollutant Release and Transfer Register.

Qualified person A suitably qualified, trained and experienced person who is a registered

professional with chartered status (or equivalent) awarded by a relevant professional body and who has the requisite knowledge and experience

required to issue a letter of suitability.

**Quarterly** At approximately three – monthly intervals.

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 facility toilet, washroom and canteen facilities.

Secondary aggregate

Recycled engineering material that has been recovered from inert construction

and demolition waste and has achieved end-of-waste status.

**SOP** Standard operating procedure.

Soil and stone Excavation or dredge spoil comprising natural materials of clay, silt, sand,

gravel or stone and which comes within the meaning of inert waste.

Soil and stone derived from construction and demolition (C&D) waste Soil and stone (and equivalent material) that is recovered from construction and

demolition waste.

Source segregated

waste

Waste which is separated at source; meaning that the waste is sorted at the point of generation into a recyclable fraction(s) for separate collection (e.g., paper, metal, glass, plastic, bulk dry recyclables, biodegradables, etc.,) and a residual

fraction. The expression 'separate at source' shall be construed accordingly.

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 Schedule B: Emission Limits, of this licence.

Standard method A National, European or internationally recognised procedure (e.g. I.S. EN,

ISO, CEN, BS or equivalent); or an in-house documented procedure based on the above references; a procedure as detailed in the current edition of "Standard Methods for the Examination of Water and Wastewater" (prepared and published jointly by A.P.H.A., A.W.W.A. & W.E.F.), American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA; or an

alternative method as may be agreed by the Agency.

**Storm water** Rain water run-off from roof and non-process areas.

**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.

Water Services Authority Kildare County Council.

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. Weekly

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 40(4) of the Waste Management Act 1996 as amended.

The Agency accordingly proposes to grant a licence to **Kildare Sand & Gravel Limited** 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 licence application (Register Number: W0295-01) and the Inspector's Report dated **29**<sup>th</sup> **November 2018**; and has carried out an Environmental Impact Assessment (EIA) and an Appropriate Assessment Screening of the likely significant effects of the activity 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 activity 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 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 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 Sites at Ballynafagh Bog SAC (Site Code: 000391), Pollardstown Fen SAC (Site Code: 000396), The Long Derries, Edenderry SAC (Site Code: 000925), Ballynafagh Lake SAC (Site Code: 001387), River Barrow and River Nore SAC (Site Code: 002162), Mouds Bog SAC (Site Code: 002331), and Mountmellick SAC (Site Code: 002141).

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 can 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 not required.

The reasons for which the Agency determined that an Appropriate Assessment is not required are as follows:

- The facility is not located within the above listed European Sites.
- There will be no emissions to surface water courses from the activities.
- The activities will not result in damage to, or loss of, species and habitats of these European Sites.

# 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 40(1) of the said Act hereby proposes to grant this Waste Licence to **Kildare Sand & Gravel Limited**, **Hazelwood House**, **Prosperous**, **County Kildare**, to carry on the waste activities listed below at **Kildare Sand & Gravel Limited**, **Boherkill**, **Rathangan**, **County Kildare**, 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

Class R 5 (P).	Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials.
Class R 10.	Land treatment resulting in benefit to agriculture or ecological improvement.
Class R 13.	Storage of waste pending any of the operations numbered R 1 to R 12 (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

Refused Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Act 1996 as amended

Class D 15 Storage pending any of the operations numbered D 1 to D 14 (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.

**Reason:** This facility is authorised as a soil recovery facility and not as a waste disposal facility.

Deposition of waste other than inert soil and stone in this unlined facility could cause groundwater contamination.

Refused waste recovery activities, in accordance with the Fourth Schedule of the Waste Management Act 1996 as amended:

Class R 3.	Recycling /reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes), which includes gasification and pyrolisis using the components as chemicals.	
Class R 4.	Recycling/reclamation of metals and metal compounds.	
Class R 12.	Exchange of waste for submission to any of the operations numbered R 1 to R 11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as, amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, separating, blending or mixing prior to submission to any of the operations numbered R1 to R11).	

**Reason:** Organic waste and metal waste are not suitable for deposition in unlined facilities due to the risk of groundwater contamination. The activities listed in R12 are not relevant for the operation of an unlined inert soil and stone recovery facility.

## 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 titled 'Site Plan' (Drawing No. 151324-WLA-03 dated October 2016)** of the application. 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 approval 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 Hours of Operation and Waste acceptance
  - The facility may **operate and** accept waste between 08:00 to 18:00 Monday to Friday inclusive (excluding Public Holidays) and between 08:00 and 13:00 on Saturdays.
- 1.8 The facility shall not operate on Sundays or on Public or Bank 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 establish, maintain and implement an Environmental Management System (EMS), which shall incorporate energy efficiency management, within six months of the date of grant of this licence. 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 Schedule of Environmental Objectives and Targets

The licensee shall prepare and maintain a Schedule of Environmental Objectives and Targets. The Schedule shall, as a minimum, provide for a review of all operations and processes, including an evaluation of practicable options, for energy and resource efficiency, the use of cleaner technology, cleaner production and the prevention, reduction and minimisation of waste. The Schedule shall include waste reduction targets. The Schedule shall include time frames for the achievement of set targets and shall address a five-year period as a minimum. The Schedule shall be reviewed annually.

#### 2.2.2.2 Environmental Management Programme (EMP)

The licensee shall prepare, maintain and implement an EMP, including a time schedule, for achieving the Environmental Objectives and Targets prepared under Condition 2.2.2.1. 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.

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.

#### 2.2.2.3 Documentation

- (i) The licensee shall establish and 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.

#### 2.2.2.4 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

#### 2.2.2.5 Awareness, Training and Competence

The licensee shall establish, 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.

#### 2.2.2.6 Communications Programme

**Prior to commencement of waste acceptance**, the licensee shall establish and 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.

#### 2.2.2.7 Maintenance Programme

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

#### 2.2.2.8 Efficient Process Control

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

#### 2.2.2.9 Invasive Species Prevention and Eradication Plan

The licensee shall, prior to commencement of waste acceptance, establish, maintain and implement an invasive species prevention and eradication plan, to cover at least, Japanese Knotweed, Giant Knotweed, Bohemian Knotweed and any other relevant invasive species. The plan shall as a minimum identify specific actions for:

- (i) the prevention, to the extent possible, of acceptance of invasive species in loads of soil and stone arriving at the facility, actions to include requesting of information on the presence of invasive species at source sites,
- (ii) quarterly surveys of filled areas for the detection of the growth of invasive species,
- (iii) the method for plant detection and identification
- (iv) the remedial actions for eradication of invasive species growing at the facility,
- (v) staff training on plant identification and eradication, and
- (vi) validation to confirm the absence of invasive species at the restored facility.

The Plan shall have regard to the Environment Agency's guidance: "The Knotweed Code of Practice, 2013" or other guidance issued by the Agency.

The licensee shall maintain evidence of having obtained the advice and implemented the recommendations of an independent and appropriately qualified consultant, in the establishment of the Plan and any amendments to it that concern the action items listed above.

#### 2.3 Extractive waste

- 2.3.1 Prior to commencing quarrying activities at the facility, the operator shall draw up a Waste Management Plan (to be known as an Extractive Waste Management Plan) for the minimisation, treatment, recovery and disposal of extractive waste. This Plan shall meet the requirements of Regulation 5 of the Waste Management (Management of Waste from the Extractive Industries) Regulations 2009. The Plan shall be to the satisfaction of the Agency and shall be prepared within 12 months of the date of grant of this licence. The Plan shall be reviewed at least once every 5 years thereafter in a manner satisfactory to the Agency and amended in the event of substantial changes to the operation of the waste facility or to the waste deposited. Any amendments shall be notified to the Agency.
- 2.3.2 The Plan shall include a proposed classification in accordance with Regulation 5(3)(a) of the Regulations referred to in Condition 2.3.1 of this licence. For a category A facility, Regulations 6, 11(3), 12 and 14 of the Regulations shall apply no later than 24 months from the date of grant of this licence and in a manner satisfactory to the Agency, unless addressed to the Agency's satisfaction under another condition of this licence.
- 2.3.3 A report on the implementation of the Extractive Waste Management Plan shall be provided in the AER.

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.
- 3.2 Specified Engineering Works (SEW)
  - 3.2.1 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.
  - 3.2.2 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.
  - 3.2.3 Following the 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) Records and results of all tests carried out (including failures);
    - (iv) Drawings and sections showing the location of all samples and tests carried out;
    - (v) Name(s) of contractor(s)/individual(s) responsible for undertaking the specified engineering works;

- (vi) Records of any problems and the remedial works carried out to resolve those problems; and
- (vii) Any other information requested in writing by the Agency.

#### 3.3 Facility Notice Board

- 3.3.1 The licensee shall, within one month of the date of grant of this licence, provide 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.
- 3.3.2 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.
- 3.3.3 A plan of the facility clearly identifying the location of each storage and treatment area shall be displayed as close as is possible to the entrance to the facility. The plan shall be displayed on a durable material such that is legible at all times. The plan shall be replaced as material changes to the facility are made.

#### 3.4 Facility Security

- 3.4.1 Security and stock-proof fencing and gates shall be maintained at appropriate locations to limit access to the facility.
- 3.4.2 **Prior to commencement of waste acceptance,** the licensee shall maintain a **high quality** CCTV monitoring system which records all waste vehicle movement into and out of the facility. The CCTV system shall be operated at all times with digital date stamping **and record a high-definition video image**. Copies of recordings shall be kept on site and made available to the Agency on request.
- 3.4.3 There shall be no unauthorised public access to the facility.
- 3.4.4 Gates shall be locked shut when the facility is unsupervised.
- 3.4.5 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.
- 3.5 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 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 Facility Office
  - 3.7.1 The licensee shall provide and maintain an office at the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
  - 3.7.2 The licensee shall provide and maintain a working telephone and a method for electronic transfer of information at the facility.
- 3.8 Weighbridge and Wheel Cleaning

- 3.8.1 The licensee shall provide and maintain a weighbridge and wheel cleaner at the facility.
- 3.8.2 The wheel cleaner shall be used by all vehicles leaving the facility as required to ensure that no wastewater, waste or storm water is carried off-site. All water from the wheel cleaning area shall be collected and disposed of appropriately.
- 3.8.3 The wheel cleaner shall be inspected on a daily basis and drained as required. Silt, stones and other accumulated material shall be removed as required and sent off-site for disposal or, subject to approval by the Agency, used as fill on-site.
- 3.9 Waste Inspection and Quarantine Areas
  - 3.9.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained at the facility.
  - 3.9.2 These areas shall be constructed and maintained in a manner suitable, and be of a size appropriate, for the inspection of waste and subsequent quarantine if required. The waste inspection area and the waste quarantine area shall be clearly identified and segregated from each other.
  - 3.9.3 All waste deposited at the waste quarantine area shall be stored in a skip or other appropriate vessel.
- 3.10 Storm Water Management

Storm water management infrastructure shall be provided and maintained at the facility during operation, closure and decommissioning of the facility. As a minimum, the infrastructure shall be capable of the following:

- the prevention of discharge of contaminated water into ground or surface water courses;
   and
- (ii) the collection/diversion of run-off arising from paved areas.
- 3.11 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.
- 3.12 Tank, Container and Drum Storage Areas
  - 3.12.1 There shall be no underground tanks at the facility.
  - 3.12.2 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).
  - 3.12.3 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.
  - 3.12.4 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.
  - 3.12.5 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
  - 3.12.6 All tanks, containers and drums shall be labelled to clearly indicate their contents.
  - 3.12.7 All bunds shall be uniquely identified and labelled at the bund.
- 3.13 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.
- 3.14 Silt Traps and Oil Separators

The licensee shall maintain silt traps and oil separators at the facility:

(i) Silt traps to ensure that all **collected** storm water discharges, other than from roofs, from the facility 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.

The silt traps and separator shall be in accordance with I.S. EN-858-2: 2003 (separator systems for light liquids.

- 3.15 All pump sumps, storage tanks, lagoons or other treatment plant chambers from which spillage of environmentally significant materials might occur in such quantities as are likely to breach local or remote containment or separators, shall be fitted with high liquid level alarms (or oil detectors as appropriate).
- 3.16 Groundwater Wells
  - 3.16.1 All groundwater monitoring boreholes shall be adequately protected to prevent contamination or physical damage.
  - 3.16.2 Any new groundwater monitoring wells shall be constructed having regard to the guidance given in the Guidance Note Landfill Manual Guidance Note on Landfill Monitoring, which was published by the Agency.
- 3.17 The licensee shall, **prior to commencement of waste acceptance**, install in a prominent location on the facility a wind sock, or other wind direction indicator, which shall be visible from the public roadway outside the site.
- 3.18 The licensee shall provide and maintain a wastewater treatment system at the facility for the treatment of sanitary effluent arising on-site. Any waste water treatment system and percolation area for the treatment of sanitary effluent arising on-site shall satisfy the criteria set out in:
  - Code of Practice Wastewater Treatment and Disposal Systems Serving Single Houses (p.e. < 10),

published by the Environmental Protection Agency.

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

# **Condition 4.** Interpretation

4.1 Noise

Noise from the facility shall not give rise to sound pressure levels which exceed the limit values measured at the noise sensitive locations.

4.2 Dust

Dust 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

- 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 No substance shall be discharged in a manner, or at a concentration, that, following initial dilution, causes tainting of fish or shellfish.
- 5.4 The licensee shall ensure that all or any of the following:
  - Vermin
  - 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.

5.5 There shall be no direct emissions to groundwater or surface water.

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 Sampling and analysis 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 appropriate control standards with evaluation of test responses.
  - 6.1.4 Where any analysis is sub-contracted it shall be outsourced 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 installed, operated and maintained as necessary so that all monitoring accurately reflects the emission/discharge.
- All treatment/abatement and emission control equipment shall be calibrated and maintained in accordance with the instructions issued by the manufacturer/supplier or installer.
- 6.5 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.
- 6.6 The licensee shall prepare a programme, to the satisfaction of the Agency, for the identification and reduction of fugitive emissions using an appropriate combination of best available techniques. This programme shall be included in the Environmental Management Programme.
- 6.7 The integrity and water tightness of all tanks, bunding structures, containers and undergound pipes and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee prior to use. This testing shall be carried out by the licensee at least once every three years thereafter 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.
- 6.8 The stormwater drainage system (i.e., gullies, manholes, any visible drainage conduits and such other aspects as may be agreed) and bunds, silt traps and oil separators shall be inspected weekly and desludged as necessary. All sludge and drainage from these operations shall be collected for safe disposal. The drainage system, bunds, silt traps and oil interceptors shall be properly maintained at all times.
- 6.9 An inspection for leaks on all flanges and valves on over-ground pipes used to transport materials other than water shall be carried out weekly. A log of such inspections shall be maintained.
- 6.10 Dust and Noise Control
  - 6.10.1 The licensee shall implement adequate measures for the control of noise and dust, including fugitive dust emissions, from the facility.
  - 6.10.2 In dry weather all stockpiles, site roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
  - 6.10.3 The road network in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay.

#### 6.11 Noise

The licensee shall carry out a noise survey of the site operations as required by the Agency. 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.

#### 6.12 Litter Control

- 6.12.1 All loose litter or other waste, present 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.
- 6.12.2 The licensee shall ensure that all vehicles delivering waste to, and removing waste and materials from, the facility are appropriately covered.
- 6.13 Pollutant Release and Transfer Register (PRTR)

The licensee shall prepare and report a PRTR for the site. The substance and/or wastes to be included in the PRTR shall be 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 guidelines issued by the Agency and shall be submitted electronically in specified format and as part of the AER.

- 6.14 The licensee shall, within six months of the date of grant of this licence, develop and establish a Data Management System for collation, archiving, assessing and graphically presenting the monitoring data generated as a result of this licence.
- 6.15 Topographical Monitoring

A topographical survey shall be carried out on an annual basis. The survey shall include measurement of the **total void space that has been filled and the** remaining available void space. The survey shall be in accordance with any written instructions issued by the Agency. The results of the survey shall be reported as part of the Annual Environmental Report.

6.16 Stability Assessment

The licensee shall, within three months of the date of grant of this licence and annually thereafter, carry out a stability assessment of the temporary side slopes at the facility. The results of this assessment shall be reported as part of the Annual Environmental Report (AER).

#### 6.17 Groundwater

- 6.17.1 The licensee shall, prior to commencement of waste acceptance, have installed groundwater monitoring wells at the facility at three locations satisfactory to the Agency and screened at a depth satisfactory to the Agency. The location of the wells shall be triangulated based on groundwater flow gradients as follows:
  - one well that will provide a representative sample of groundwater upgradient of groundwater flow, and
  - two wells that will provide a representative sample of groundwater downgradient of groundwater flow.
- 6.17.2 The licensee shall annually assess groundwater monitoring data and determine compliance under this licence with the European Communities Environmental Objectives (Groundwater) Regulations 2010, S.I. No 9 of 2010 as amended.
- 6.17.3 A report on this assessment shall be included in the AER.
- 6.17.4 The licensee shall, in the event of a failure to demonstrate compliance with the European Communities Environmental Objectives (Groundwater) Regulations 2010 as amended or if instructed by the Agency, arrange for the completion, by an appropriately qualified consultant/professional, of a hydrogeological risk assessment to:
  - (i) identify the risk of groundwater contamination arising from licensed and past activities;
  - (ii) assess the impact of extant groundwater contamination;
  - (iii) propose preventative and, as appropriate, remedial actions to be undertaken;

- (iv) propose groundwater compliance values to be maintained at compliance points; and,
- (v) address other matters that may be identified by the Agency.
- 6.17.5 A hydrogeological risk assessment prepared under Condition 6.17.4 shall be submitted to the Agency.
- 6.17.6 The licensee shall implement the following:
  - any proposals or recommendations arising from the hydrogeological risk assessment;
  - (ii) the installation of new groundwater monitoring boreholes where necessary to characterise groundwater quality; and
  - (iii) any other matters that may be directed by the Agency.
- 6.17.7 The licensee shall ensure that groundwater monitoring well sampling equipment is available or installed on-site at the facility and is fit for purpose at all times. The sampling equipment shall be to Agency specifications.

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 carry out an audit of the energy efficiency of the site within one year of the date of grant of this licence. The audit shall be carried out in accordance with the guidance published by the Agency, "Guidance Note on Energy Efficiency Auditing". The energy efficiency audit shall be repeated at intervals as required by the Agency.
- 7.2 The audit shall identify all practicable opportunities for energy use reduction and efficiency and the recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2 above.
- 7.3 The licensee shall identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible. Reductions in water usage shall be incorporated into Schedule of Environmental Objectives and Targets.
- 7.4 The licensee shall undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into the Schedule of Environmental Objectives and Targets.

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

# **Condition 8.** Materials Handling

- 8.1 Disposal or recovery of waste on-site shall only take place in accordance with the conditions of this licence and in accordance with the appropriate National and European legislation and protocols.
- 8.2 Waste sent off-site for recovery or disposal
  - 8.2.1 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.
  - 8.2.2 Waste sent off-site for recovery or disposal shall be transferred only to an appropriate facility.

#### 8.3 Greenfield soil and stone

- 8.3.1 Prior to the acceptance of greenfield soil and stone from any individual source site, the licensee shall obtain a letter of suitability for the first 5,000 tonnes of the material obtained from that source.
- 8.3.2 The licensee shall obtain a further letter of suitability for each subsequent 5,000 tonnes of material obtained from that source.
- 8.3.3 The licensee shall, if directed by the Agency, carry out basic characterisation of greenfield soil and stone from any individual source site. The basic characterisation shall be carried out in a manner satisfactory to the Agency.

#### 8.4 Non-greenfield soil and stone

- 8.4.1 The licensee shall, in a manner and format satisfactory to the Agency, propose maximum concentrations and/or trigger levels for relevant contaminants in non-greenfield soil and stone proposed for acceptance and backfill at the facility. Non-compliant materials shall be dealt with in accordance with Condition 8.13.8 of this licence.
- 8.4.2 Non-greenfield soil and stone shall be tested according to protocols approved by the Agency. Sampling and testing shall be carried out by independent institutions with proven experience in waste testing and analysis.

#### 8.5 Backfill

- 8.5.1 Only soil and stone that meet the appropriate waste acceptance criteria as stipulated in *Schedule A.2: Waste Acceptance Criteria for Backfill Material* of this licence shall be used for backfill at the facility.
- 8.5.2 The following materials shall not be used for backfill at the facility:
  - (i) Top soil;
  - (ii) Peat;
  - (iii) Soil and stone and fines derived from the treatment of construction and demolition waste; and,
  - (iv) Any other waste that the Agency deems to be unsuitable.
- 8.6 No hazardous waste or liquid waste **or vector material** shall be accepted at the facility.
- 8.7 Scavenging shall not be permitted at the facility.
- 8.8 The loading and unloading of materials, other than waste taken directly to the backfilling area and to be used for backfill, shall be carried out in designated areas protected against spillage and leachate run-off.
- 8.9 All vehicle and machinery refuelling and maintenance operations shall be carried out in designated areas protected against spillage and run-off.

- 8.10 Waste, other than waste taken directly to the backfilling area and to be used for backfill, shall be stored in designated areas, protected as may be appropriate against spillage and leachate runoff. The waste shall be clearly labelled and appropriately segregated.
- 8.11 Except as authorised in this licence, there shall be no acceptance, processing, treatment, recycling or recovery of construction and demolition waste at the facility.
- 8.12 Unless otherwise approved by the Agency, only secondary or recovered aggregate that has achieved end-of-waste status shall be used for engineering purposes at the facility.
- 8.13 Waste Acceptance and Characterisation Procedures

Prior to the acceptance of waste at the facility the licensee shall develop and maintain written procedures for the acceptance, characterisation, processing and backfill of waste arriving at the facility. The procedures shall, as a minimum, address the following conditions:

- 8.13.1 Waste shall only be accepted at the facility from holders of valid waste collection permits issued under the Waste Management (Collection Permit) Regulations 2007, as amended, unless exempted or excluded.
- 8.13.2 Waste shall only be accepted at the facility from known pre-cleared customers.
- 8.13.3 Waste shall be accepted from new customers only after initial waste profiling and waste characterisation off-site. The written records of this off-site waste profiling and characterisation shall be retained by the licensee for all active customers and for a two year period following termination of licensee/customer agreements.
- 8.13.4 Waste arriving at the facility shall be visually inspected (on-site verification) before and after unloading to confirm the nature of the waste and that it is as described in the accompanying documents.
- 8.13.5 The documentation of waste arriving at the facility shall be checked at the point of entry to the facility. Subject to its verification, the waste shall be weighed, recorded and directed to the waste acceptance/quarantine area as appropriate.
- 8.13.6 Waste accepted for backfill shall, prior to its use as backfill, be checked against the appropriate waste acceptance criteria as specified in *Schedule A.2: Waste Acceptance Criteria for Backfill Material* of this licence and, as appropriate, *Schedule A.3: Waste Characterisation for non-greenfield soil and stone* of this licence.
- 8.13.7 In the case of suspicion of contamination (either from visual inspection or from knowledge of the origin of the waste) the waste shall be tested in accordance with *Schedule A.3: Waste Characterisation for non-greenfield soil and stone* of this licence or the waste shall be refused/rejected.
- 8.13.8 Any waste deemed unsuitable for backfill at the facility and/or in contravention of this licence shall be immediately separated and removed from the facility at the earliest possible time to an off-site authorised facility. Temporary storage of such wastes shall be in the designated Waste Quarantine Area. Waste shall be stored under appropriate conditions in the quarantine area to avoid odour nuisance, the attraction of vermin and any other nuisance or objectionable condition.
- 8.14 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 14<sup>th</sup> June 2006 on shipments of waste and associated national regulations.
- 8.15 Unless approved by the Agency the licensee shall not dispose of any waste that has been accepted at the facility for the purpose of recovery.

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 as required by Condition 11.2 of this licence.
  - 9.3.2 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.

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 activity, the licensee shall, to the satisfaction of the Agency, decommission, render safe or remove for disposal/recovery any soil, subsoil, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution.
- 10.2 Closure, Restoration and Aftercare Management Plan (CRAMP)
  - 10.2.1 The licensee shall submit a revised CRAMP for agreement by the Agency prior to commencement of the activity. 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), when implementing Condition 10.2.1 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.

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 notify the Agency, in writing, one month in advance of the intended date of commencement of the scheduled activity.
- 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) Any waste imported to the facility for backfill that does not meet Waste Acceptance Criteria as specified in *Schedule A.2: Waste Acceptance Criteria for Backfill Material* of this licence;
  - (ii) an incident or accident as defined by the glossary;
  - (iii) any release of environmental significance to atmosphere from any potential emissions point;
  - (iv) any breach of one or more of the conditions attached to this licence;
  - (v) any malfunction or breakdown of key environmental abatement, control or monitoring equipment; and
  - (vi) 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.

- 11.3 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;
  - (ii) the local authority.
- 11.4 The licensee shall make a record of any notification made under Condition 11.2 or 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.
- 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.
- 11.6 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.
- 11.7 The licensee shall as a minimum ensure that the following documents are accessible at the site:

- (i) the licence 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; and,
- (viii) 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.

- 11.8 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 E: Annual Environmental Report*, of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 11.9 Waste Recovery Reports

The licensee shall as part of the AER submit a report on the contribution by this facility to the achievement of the recovery targets and strategy stated in national and European Union waste policies.

- 11.10 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) 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) the results of any waste analyses required under *Schedule C: Control & Monitoring*, of this licence;
  - (viii) the tonnage and LoW Code for the waste materials recovered/disposed on-site; and,
  - (ix) original copies of letters of suitability for greenfield soil and stone.
- 11.11 The licensee shall maintain a computer-based 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 job/order/invoice number for the load;
- (vi) the name of the producer(s)/collector(s) of the waste as appropriate;
- (vii) the name of the waste facility (if appropriate) from which the load originated including the waste licence or waste permit register number;
- (viii) the type, source and origin of the waste;
- (ix) the type of process producing the waste;
- (x) reference to the applicable letter of suitability (for greenfield soil and stone);
- (xi) a description of the waste including physical form, colour and odour;
- (xii) the quantity of the waste, recorded in tonnes;
- (xiii) data on the waste, where available;
- (xiv) details of the treatment(s) to which the waste has been subjected;
- (xv) the classification and LoW coding of the waste;
- (xvi) the name of the person checking the load;
- (xvii) 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; and
- (xviii) confirmation that the load, or any part of the load, is not vector material.
- 11.12 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.
- 11.13 All reports shall be certified accurate and representative by the facility manager or a nominated, suitably qualified and experienced deputy.

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 €6,244, 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, 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 activity.
- 12.2.2 The licensee shall arrange for the completion, 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 in advance of the commencement of the activity. 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.
- 12.2.3 The licensee shall, prior to commencement of the activity and to the satisfaction of the Agency, make financial provision to cover any liabilities associated with the operation (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 12.2.1.
- 12.2.4 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 12.2.3.
- 12.2.5 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) when implementing Conditions 12.2.2, 12.2.3 and 12.2.4 above.

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

### **SCHEDULE A: Limitations**

The following waste related processes are authorised:

- Importation, stockpiling and use of soil and stone for quarry backfill.

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

Waste activities and quarrying activities are limited to those areas of the facility where they are authorised by planning permission.



#### A.1 Waste Acceptance

Only the wastes as specified in Table A.1.1 are acceptable for recovery at the facility unless otherwise agreed by the Agency.

Table A.1.1 Waste Categories and Quantities

LoW CODE	WASTE TYPE Note 1	MAXIMUM (Tonnes per calendar year)
17 05 04	Soils and stones other than those mentioned in 17 05 03	225,000 Note 2

- **Note 1:** Any proposals to accept other compatible inert waste types shall be agreed in advance by the Agency and subject to that waste being suitable for an unlined backfill activity.
- Note 2: Unless otherwise agreed with the Agency, this is the maximum quantity of all soil and stone materials to be accepted for the backfill of the quarry. This annual figure does not include material required for final profiling as may be required by the Planning Authority and agreed by the Agency.



Table A.1.2 Total Waste Quantity for Backfill

Total quantity of soil and stone permitted for backfill at the facility	1,500,000 tonnes Note 1

**Note 1:** Not including material required for final profiling as may be required by the Planning Authority and approved by the Agency.



### A.2 Waste Acceptance Criteria for Backfill Material

Soil and Stone	Minimum Criteria	
Greenfield soil and stone	Letter of suitability from a qualified person.	
Non-greenfield soil and stone	Less than 2% contamination with non-natural solid materials in accordance with the definition of 'contaminated soil and stone' in this licence, and	
	2. Characterised in accordance with Schedule A.3: Waste Characterisation for non-greenfield soil and stone of this licence and compliant with concentration limits and/or trigger levels established under Condition 8.4.1 of this licence.	



### A.3 Waste Characterisation for non-greenfield soil and stone

Amount/Source	Test Method Note 1 & 2	Frequency
Where the material comprises greater than 2,000 tonnes from a single source	Basic characterisation	To be carried out off-site prior to agreeing acceptance of the waste at the facility.
	Compliance testing	Once every 2,000 tonnes. Note 3 & 4
	On-site verification	Every load.
Where the material comprises less than 2,000 tonnes from a single source	Basic characterisation	To be carried out on-site prior to use of the material for backfill at a frequency of at least one sample on every 2,000 tonnes of waste from the collective of single sources each of which is less than 2,000 tonnes. Note 3,4
	On-site verification	Every load.

- **Note 1:** Testing to be carried out in accordance with Condition 8.4.2 of this licence.
- **Note 2:** Maximum contaminant concentration levels and/or trigger levels to be developed in accordance with Condition 8.4.1 of this licence.
- **Note 3:** To be carried out on representative samples of waste upon delivery.
- **Note 4:** Part of each sample shall be retained at the facility for three years and be available for inspection/analysis by the Agency.

### **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** 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)
55	50	45Note 1

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



### **B.4** Dust Deposition Limits

Level (mg/m² /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

#### C.1.1 Control of Emissions to Water

There shall be no emissions to water of environmental significance.



### C.1.2 Monitoring of Emissions to Water

There shall be no emissions to water of environmental significance.



### C.2 Noise Monitoring

Location: NSR1, NSR2, NSR3 and NSR4 (shown on Figure No. 151324 WI A 10 detect October 2016)

151324-WLA-10, dated October 2016)

and at additional locations as may be approved by the Agency

Period	Minimum Survey Duration Note 1	
Daytime	A minimum of 3 sampling periods at each noise monitoring location	
(07:00 to 19:00 hrs)		
Evening-time	A minimum of 1 sampling period at each noise monitoring location.	
(07:00 to 23:00 hrs)		
Night-time Note 2	A minimum of 2 sampling periods at each noise monitoring location.	
(23:00 to 07:00 hrs)	- · - · - · - · · · · · · · · · · · · ·	

**Note 1:** Sampling period T will be in accordance *Schedule B.3* of this licence. This applies to day, evening and night time periods.

**Note 2:** Night-time measurements shall be made between 2300hrs and 0400hrs, Sunday to Thursday, with 2300hrs being the preferred start time.



#### C.3 Ambient Monitoring

**Location:** DM1, DM2, DM3 and DM4 (shown on Figure No. 151324-WLA-10, dated October 2016)

and at additional locations as may be approved by the Agency

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust deposition	Bi-annual	VDI 2119 (Bergerhoff method)



### C.4 Waste Monitoring

Waste	Frequency	Parameter	Method
Deposited waste Note 1	Dependent on rate of waste deposition. See Note 1. Maximum 5 samples per year	To be agreed	To be agreed
Other Note 2			

Note 1: A representative sample of the deposited waste shall be taken at least every 3,000m<sup>2</sup> area of fill and depth of fill of 1.5 metres, or at an equivalent frequency as may be approved by the Agency. 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.



# C.5 Groundwater Monitoring

**Reference No:** - GW1 (upgradient)

- GW2 and GW3 (downgradient)

All to be installed in accordance with Condition 6.17.1 of this licence

Parameter	Monitoring Frequency	Analysis Method/Techniques
Level	Quarterly	Standard Method
Visual Inspection	Quarterly	Standard Method
pH	Quarterly	pH electrode/meter
Conductivity	Quarterly	Standard Method
Ammonia (as N)	Biannually	Standard Method
Nitrate	Biannually	Standard Method
Nitrite	Biannually	Standard Method
Orthophosphate (as P)	Biannually	Standard Methods
<b>Total Dissolved Solids</b>	Biannually	Standard Method
Dissolved Metals Note 2	Annually	Standard Method
Total Petroleum Hydrocarbons	Annually	Standard Method
Diesel Range Organics	Annually	Standard Method
Petrol Range Organics	Annually	Standard Method
Total Coliforms	Annually	Standard Method
Faecal Coliforms	Annually	Standard Method

Note 1: Cd, Cu, Fe, Pb, Mg, Mn, Ni and Zn.

# **SCHEDULE D: Specified Engineering Works**

# **Specified Engineering Works**

Installation of groundwater monitoring boreholes.

Any other works notified in writing by the Agency.

# **SCHEDULE E: Annual Environmental Report**

#### **Annual Environmental Report Content Note 1**

Emissions from the facility.

Waste management record.

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.

Pollutant Release and Transfer Register - report for previous year.

Pollutant Release and transfer Register – proposal for current year.

Noise monitoring report summary.

Tank and pipeline testing and inspection report.

Reported incidents summary.

Energy efficiency audit report summary.

Report on the assessment of the efficiency of use of raw materials in processes and the reduction in waste generated.

Report on progress made and proposals being developed to minimise water demand.

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).

Any other items specified by the Agency.

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

