Environmental Protection Agency
An Ghníomhaireacht um Chaomhnú Comhshaoil

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

Waste Licence

Waste Licence Register Number:	**W0301-01**
Company Register Number:	**626428**
Licensee:	**GLV Bay Lane Limited**
Location of facility	**Bay Lane Quarry** **Bay Lane** **St. Margaret's** **Dublin**

WASTE MANAGEMENT ACT 1996 AS AMENDED

WASTE LICENCE

Decision of the Agency, under Section 40(1) of the Waste Management Act 1996 as amended

Waste Licence Register No.: **W0301-01**

Further to notice dated the 13/06/22, 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, hereby grants this waste licence to GLV Bay Lane Limited, Block B, Maynooth Business Campus, Maynooth, County Kildare, CRO Number 626428 to carry on the waste activities set out below at GLV Bay Lane Limited, Bay Lane Quarry, Bay Lane, St. Margaret's, Dublin, 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:

R05 [Principal Activity]	Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials
R13	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).

Sealed by the seal of the Agency on this the date 30th day of November, 2022

PRESENT when the seal of the Agency was affixed hereto:

Ray Cullinane

Ray Cullinane, Authorised Person

INTRODUCTION

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

This licence relates to the operation of an inert waste recovery facility at Bay Lane Quarry, Bay Lane, St. Margaret's, Dublin 15, by GLV Bay Lane Limited. The principal activity is backfilling of a quarry void using imported soil and stone. The facility application boundary covers an area of 13.67 hectares, of this 8.59 hectares consit of the quarry void to be backfilled. The proposed maximum annual intake is 532,800 tonnes of waste inert soil and stone. The proposed total volume of material required to restore the quarry is 1,332,084 tonnes (including material required for final profiling).

The licence specifies a number of environmental controls in order to minimise the risk of environmental pollution and nuisance arising from the acitivities of the facility. The environmental monitoring requirements include monitoring of emissions to water, groundwater quality and ambient dust and noise.

This licence sets out in detail the conditions under which GLV Bay Lane 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 glossary.

Accident	For the purpose of this licence an accident means an unplanned event that may result in pollution.
Adequate lighting	20 lux measured at ground level.
AER	Annual Environmental Report.
Aerosol	A suspension of solid or liquid particles in a gaseous medium.
Approval	Approval in writing/electronically.
Annually	At approximately twelve-monthly intervals.
Application	The application by the licensee for this licence.
Appropriate Facility	A waste management facility or installation, duly authorised under relevant law and technically suitable.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of this licence application.
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 waste.
BAT	Best Available Techniques.
Backfilling	A recovery operation where suitable non-hazardous waste is used for 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.
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 Union (Waste Directive) Regulations 2011-2020 (S.I. No. 126 of 2011 and S.I. No. 323 of 2020) 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 test 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	0700hrs to 1900hrs.
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.
EMS	Environment Management System. The aspect of the organisation's overall management structure that addresses immediate and long-term impacts of its products, services and processes on the environment.
End-of-Waste status	As specified in Regulation 28 of the European Community (Waste Directive) Regulations 2011 (S.I. No. 126 of 2011), amended by European Community (Waste Directive) Regulations 2020 (S.I. No. 323 of 2020).
Environmental damage	As defined in Directive 2004/35/EC.
EPA	Environmental Protection Agency.
List of Waste (LoW)	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2014/955/EU, as amended by any subsequent amendment published in the Official Journal of the European Community.
Evening Time	1900hrs to 2300hrs.
Facility	Any site or premises used for the purpose of the recovery or disposal of waste.
Fortnightly	A minimum of 24 times per year, at approximately two-week intervals.
Gas Oil	Gas oil as defined in DIRECTIVE (EU) 2016/802 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 May 2016 relating to a reduction in the sulphur content of certain liquid fuels.
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.
Groundwater	Has the meaning assigned to it by Regulation 3 of the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010), as amended.

ha	Hectare.
Hazardous substances	Substances or mixtures as defined in Article 3 of Regulation (EC) No.1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.
Heavy metals	This term is to be interpreted as set out in "Parameters of Water Quality, Interpretation and Standards" published by the Agency in 2001. ISBN 1-84095-015-3.
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 an incident for the purposes of this licence: (i) an emergency; (ii) any emission which does not comply with the requirements of this licence; (iii) any malfunction or breakdown of key environmental abatement, control or monitoring equipment; (iv) any exceedance of the daily duty capacity of the waste handling equipment; (v) any trigger level specified in this licence which is attained or exceeded; (vi) any compliance value specified in this licence which is attained or exceeded; (vii) any indication that environmental pollution has, or may have, taken place.
Industrial waste	As defined in Section 5(1) of the Waste Management Act 1996 as amended.
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.
IPC	Integrated Pollution Control.

Irish Water	Irish Water, Colvill House, 24/26 Talbot Street, Dublin 1.
K	Kelvin.
kPa	Kilopascals.
$L_{Aeq,T}$	This is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period (T).
Landfill Directive	Council Directive 1999/31/EC.
$L_{Ar,T}$	The Rated Noise Level, equal to the L_{Aeq} during a specified time interval (T), plus specified adjustments for tonal character and/or impulsiveness of the sound.
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 soils 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	GLV Bay Lane Limited, Block B, Maynooth Business Campus, Maynooth, County Kildare, CRO Number 626428.
Liquid waste	Any waste in liquid form and containing less than 2% dry matter.
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.
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	Fingal 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	2300hrs to 0700hrs.
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.
Odour-sensitive location	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other premises or area of high amenity which for its proper enjoyment requires the absence of odour at nuisance levels.
Oil separator	Device installed according to the International Standard I.S. EN 858-2:2003 (Separator system for light liquids, (e.g. oil and petrol) – Part 2: Selection of normal size, installation, operation and maintenance).
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 after unloading at the waste facility.
Potential emissions	Emissions which take place only under abnormal operating conditions. Examples include emissions from overpressure valves, bursting discs, and emergency generators.
PRTR	Pollutant Release and Transfer Register.
Quarterly	At approximately three – monthly intervals.
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.
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	Fingal County Council.
Weekly	During all weeks of plant operation and, in the case of emissions, when emissions are taking place; with at least one measurement in any one week.
WWTP	Waste water treatment plant.

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

The Agency has accordingly decided to grant a licence to GLV Bay Lane 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 application, Register Number: W0301-01 and the supporting documentation received from the applicant; the submission received; the Inspector's Report dated 30 May 2022; the proposed decision dated 13 June 2022, the objection received from the Applicant, the Technical Committee Report dated 3 November 2022 on the objection to the proposed decision and has carried out an Environmental Impact Assessment (EIA) and an Appropriate Assessment of the likely significant effects of the activities on European Sites.

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

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

- emissions to air (dust);
- noise emissions;
- accidental leakages or spills;
- emissions to surface water; and
- risk of contaminated infill.

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

- emissions to air (dust) will be mitigated through; imposing dust deposition limit values at the facility boundary and implementing monitoring, maintenance and control measures;
- noise emissions will be mitigated through: imposing daytime, evening-time and night-time noise limits at noise sensitive locations and implementing monitoring, maintenenance and control measures;
- accidental leakages or spills will be mitigated through inspection and maintenance of bunds and tanks; and accident and emergency requirements specified in this licence;
- potentially contaminated infill will be mitigated by waste characterisation and waste acceptance procedures; and
- emissions to surface water will be mitigated through: operation of abatement equipment, implementing monitoring, maintenance and control measures, and imposing emission limit values to comply with Environmental Objectives (Surface Waters) Regulations 2009, as amended.

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

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

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the activities, individually or in combination with other plans or projects are likely to have a significant effect on any European Site. In this context, particular attention was paid to the European Sites at Baldoyle Bay SAC (Site code: 000199), Malahide Estuary SAC (Site code: 000205), Rogerstown Estuary SAC (Site code: 000208), North Dublin Bay SAC (Site code: 000206), South Dublin Bay SAC (Site code: 000210), Rye Water Valley/Carton SAC (Site code: 001398), North Bull Island SPA (Site code: 004006), Rogerstown Estuary SPA (Site code: 004015), Baldoyle Bay SPA (Site code: 004016), South Dublin Bay and River Tolka Estuary SPA (Site code: 004024) and Malahide Estuary SPA (Site code: 004025).

The activities are not directly connected with or necessary to the management of any European Site and the Agency considered, for the reasons set out below, that it cannot be excluded, on the basis of objective information, that the activities, individually or in combination with other plans or projects, will have a significant effect on any European Site and accordingly determined that an Appropriate Assessment of the activities was required. This determination was made based on the following:

- the hydrological connection to the Malahide Estuary SAC (Site code: 000205) and the Malahide Estuary SPA (Site code: 004025) and the potential effects the activities may have on European Sites and their qualifying interests.

The Agency has completed the Appropriate Assessment of potential impacts on these sites and has made certain, based on best scientific knowledge in the field and in accordance with the European Communities (Birds and Natural Habitats) Regulations 2011 as amended, pursuant to Article 6(3) of the Habitats Directive, that the activities, individually or in combination with other plans or projects, will not adversely affect the integrity of any European Site, in particular Baldoyle Bay SAC (Site code: 000199), Malahide Estuary SAC (Site code: 000205), Rogerstown Estuary SAC (Site code: 000208), North Dublin Bay SAC (Site code: 000206), South Dublin Bay SAC (Site code: 000210), Rye Water Valley/Carton SAC (Site code: 001398), North Bull Island SPA (Site code: 004006), Rogerstown Estuary SPA (Site code: 004015), Baldoyle Bay SPA (Site code: 004016), South Dublin Bay and River Tolka Estuary SPA (Site code: 004024) and Malahide Estuary SPA (Site code: 004025), having regard to their conservation objectives and will not affect the preservation of these sites at favourable conservation status if carried out in accordance with this licence and the conditions attached hereto for the following reasons:

- Condition 5 of the licence requires that no specific emissions from the facility shall exceed the emission limit values set out in *Schedule B: Emission Limits*, of this licence. *Schedule C: Control and Monitoring*, of this licence also sets out monitoring requirements for emissions to air and emissions to water.
- The licence as drafted requires the applicant to comply with conditions that protect habitat, groundwater and surface water under normal operating conditions and in the unlikely event of an accident/emergency.
- Conditions 8.12 of the licence as drafted requires the applicant to implement waste acceptance procedures to prevent the acceptance of unauthorised (including contaminated) waste at the facility.
- Condition 6.12 requires measures for dust control. Specifically, Condition 6.12.2 requires that in dry weather all stockpiles, site roads and any other areas used by vehicles shall be sprayed with water.
- No indirect impacts on water quality at the European Sites are expected from the activity due to the use of inert material for infill and the requirement to follow pollution prevent and control measures. Licence conditions to protect water quality include:

- Waste acceptance procedures to prevent importation of unauthorised (including contaminated) waste (Condition 8.12). Imported material will be subject to the waste acceptance criteria in *Schedule A.2 Waste Acceptance Criteria for Backfill Material*, of this licence.
- Runoff from a hardstanding area used for parking and refuelling must pass through a silt trap and oil interceptor prior to discharge.
- A visual examination of storm water discharges to be carried out daily (Condition 6.11.1). Monitoring of the storm water discharge and suitable trigger levels for monitored parameters (Condition 6.11.2).
- An emergency spill kit with oil boom, absorbers etc. is to be kept on site for use in the event of an accidental spill (Condition 3.10).

- The potential for impact arising from accidental emissions is low due to the inert nature of the material being imported, the infrastructure and management of water emissions, and conditions on fuel handling and storage outlined in the licence. Condition 9.1 requires an Accident Prevention Procedure be put in place that addresses all hazards on site, particularly in relation to the prevention of accidents with possible impacts on the environment. Condition 9.2 requires an Emergency Response Procedure to address any emergency which may originate on site.
- Condition 10 requires the proper closure of the activity with the aim of protecting the environment on cessation of the activity.

The Agency is satisfied that no reasonable scientific doubt remains as to the absence of adverse effects on the integrity of those European Sites at Baldoyle Bay SAC (Site code: 000199), Malahide Estuary SAC (Site code: 000205), Rogerstown Estuary SAC (Site code: 000208), North Dublin Bay SAC (Site code: 000206), South Dublin Bay SAC (Site code: 000210), Rye Water Valley/Carton SAC (Site code: 001398), North Bull Island SPA (Site code: 004006), Rogerstown Estuary SPA (Site code: 004015), Baldoyle Bay SPA (Site code: 004016), South Dublin Bay and River Tolka Estuary SPA (Site code: 004024) and Malahide Estuary SPA (Site code: 004025).

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 grants this Waste Licence to GLV Bay Lane Limited, Block B, Maynooth Business Campus, Maynooth, County Kildare, CRO Number 626428 to carry on the waste activities listed below at GLV Bay Lane Limited, Bay Lane Quarry, Bay Lane, St. Margaret's, Dublin subject to conditions, with the reasons therefor and the associated schedules attached thereto set out in this licence.

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

Class R 5 [Principal Activity].	Recycling/reclamation of other inorganic materials, which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials.
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

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 The licensee shall carry on the licensed activities in accordance with the limitations set out in *Schedule A: Limitations,* of this licence.

1.3 For the purposes of this licence, the facility authorised by this licence is the area of land outlined in red) on Drawing No. DG0003 titled 'Drawing 3 site outline' of the application (Attachment: Site Plan- MDR1499DG0003F01 site outline). 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 this 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 Waste Acceptance Hours and Hours of Operation

1.7.1 The facility may operate and accept waste between 07:00 to 18:00 Monday to Friday and between 07.00 and 14.00 on Saturday (excluding Public Holidays).

1.7.2 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) in advance of the commencement of the activity. 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 An environmental policy, defined by Management, that includes a commitment to continuous improvement of the environmental performance of the facility.

2.2.2.3 Schedule of Environmental Objectives and Targets

The licensee shall prepare, maintain and implement a Schedule of Environmental Objectives and Targets. The schedule shall, as a minimum, provide for a review of all operations and processes, as referred to in the conditions of this licence, including an evaluation of practicable options for:

(i) energy and resource efficiency;

(ii) the reduction in water consumption;

(iii) the use of cleaner technology; cleaner production;

(iv) dust and noise management;

(v) the prevention, reduction and minimisation of waste including 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.

2.2.2.4 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 2.2.2.3 above. The EMP shall include:

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

2.2.2.5 Documentation

(i) The licensee shall establish, maintain and implement an environmental management documentation system which shall be to the satisfaction of the Agency.

(ii) The licensee shall issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

2.2.2.6 Corrective 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.

2.2.2.7 Awareness and Training

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. Appropriate records of training shall be maintained.

2.2.2.8 Public Awareness and Communications Programme

The licensee shall establish, maintain and implement 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.

2.2.2.9 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).

2.2.2.10 Efficient Process Control

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

2.2.2.11 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, action 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 at the restored facility;
(v) staff training on plant identification and eradication; and
(vi) validation to confirm the absence of invasive species at the restored facility.

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.

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

Condition 3. Infrastructure and Operation

3.1 The licensee shall ensure, at all times after the grant of this licence, that all infrastructure and all equipment required under this licence has been and is:

(i) installed;
(ii) commissioned;
(iii) present on site; and
(iv) maintained in full working order.

3.2 The licensee shall have regard to the following when choosing and/or designing any new plant/infrastructure:

(i) energy efficiency, and
(ii) the environmental impact of eventual decommissioning.

3.3 Where any condition / schedule of this licence specifies any later deadline for installation of any piece of infrastructure or equipment, Condition 3.1 shall apply as and from the deadline specified.

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

3.5 Facility Notice Board

3.5.1 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.

3.5.2 The board shall clearly show:

(i) the name and telephone number of the facility;

(ii) the normal hours of operation;

(iii) the name of the licence holder;

(iv) an emergency out of hours contact telephone number;

(v) this licence reference number; and

(vi) where environmental information relating to the facility can be obtained.

3.5.3 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.

3.6 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 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.

3.8 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' (2013), as amended. 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.

3.8.2 All drainage from bunded areas shall be treated as contaminated unless it can be demonstrated to be otherwise. All drainage from bunded areas shall be diverted for collection and safe disposal, unless it can be deemed uncontaminated and does not exceed the trigger levels set for storm water emissions under Condition 6.11 of this licence.

3.8.3 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.

3.8.4 All tanks, containers and drums shall be labelled to clearly indicate their contents.

3.8.5 All bunds shall be uniquely identified and labelled at the bund.

3.9 The licensee shall ensure all vehicle and machinery refuelling and maintenance is carried out in designated areas protected against spillage and run-off. All fuels and liquid chemicals must be stored in appropriately bunded areas.

3.10 The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility. Once used, the absorbent material shall be disposed of at an appropriate facility.

3.11 Silt Traps and Oil Separators

The licensee shall, prior to the commencement of the activity, install and maintain silt traps and oil separators at the facility:

(i) Silt traps to ensure that all storm water discharges, other than from roofs, from the facility pass through a silt trap in advance of discharge;

(ii) An oil separator on emission point reference No. W2. The separator shall be a Class I full retention.

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

3.12 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) prior to the commencement of this activity.

3.13 The provision of a catchment system to collect any leaks from flanges and valves of all over-ground pipes used to transport material other than water shall be examined. This shall be incorporated into a Schedule of Environmental Objectives and Targets set out in Condition 2 of this licence for the reduction in fugitive emissions.

3.14 Specified Engineering Works (SEW)

3.14.1 The licensee shall submit proposals for any specified engineering work, as defined in *Schedule D: Specified Engineering Works,* of this licence, to the Agency for its approval, 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 approval of the Agency.

3.14.2 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.

3.14.3 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) record and results of all the tests carried out (including failures);
(iv) drawings and section showing the location of all samples and tests carried out;
(v) name(s) of contractor(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.

3.15 Facility Security

3.15.1 Security and stock-proof fencing and gates shall be maintained at the facility. Subject to the implementation of the Closure, Restoration and Aftercare Management Plan (as required by Condition 10.2 of this licence) the requirement for such facility security may be removed.

3.15.2 The licensee shall maintain a CCTV monitoring system which records all waste vehicle movements into and out of the facility. The CCTV system shall be operated at all times with digital date stamping. Copies of recordings shall be kept on site and made available to the Agency on request.

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

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

3.15.5 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.

3.16 Facility Roads and Hardstanding

3.16.1 Effective site roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.

3.16.2 The facility entrance and hardstanding areas shall be appropriately paved and maintained in a fit and clean condition.

3.17 Facility Office

3.17.1 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.

3.17.2 The licensee shall provide and maintain a working telephone and a method of electronic transfer of information at the facility.

3.18 Weighbridge and Wheel Cleaning

3.18.1 The licensee shall maintain a weighbridge and wheel cleaner at the facility.

3.18.2 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 cleaner shall be recycled through a system of settlement chambers.

3.18.3 The wheel cleaner shall be inspected on a weekly 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.

3.19 Waste Inspection and Quarantine Areas

3.19.1 A Waste Inspection and Waste Quarantine Area shall be provided and maintained at the facility.

3.19.2 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.

3.19.3 All waste deposited at the waste quarantine area shall be stored in a skip or other appropriate vessel as may be approved by the Agency.

3.20 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 drains and courses; and
- The collection/diversion of storm water run-off from paved areas.

3.21 Groundwater Wells

3.21.1 All groundwater monitoring boreholes, at the facility shall be adequately protected to prevent contamination or physical damage.

3.21.2 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.

3.22 The licensee shall, prior to commencement of waste acceptance install 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.

3.23 The licensee shall provide and maintain a holding tank at the facility for the storage of sanitary effluent arising on-site. All sanitary effluent shall be removed from the facility in accordance with Condition 8.3.

3.24 Within six months of date of grant of the licence, the licensee shall install a storm water retention pond, fitted with a flow restrictor at the outlet. The flow of storm water from the storm water retention pond to the River Ward shall be restricted during periods of low river flow.

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

Condition 4. Interpretation

4.1 Emission limit values for emissions to waters in this licence shall be achieved without the introduction of dilution, and shall be interpreted in the following way:

4.1.1 Continuous Monitoring

(i) No flow value shall exceed the specific limit.

(ii) No pH value shall deviate from the specified range.

(iii) No temperature value shall exceed the limit value.

4.1.2 Composite Sampling

(i) No pH value shall deviate from the specified range.

(ii) For parameters other than pH and flow, eight out of ten consecutive composite results, based on flow proportional composite sampling, shall not exceed the emission limit value. No individual results similarly calculated shall exceed 1.2 times the emission limit value.

4.1.3 Discrete Sampling

For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.

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

4.3 Noise

Noise from the facility shall not give rise to sound pressure levels measured at noise-sensitive locations (NSLs) which exceed the limit value(s).

4.4 Dust and Particulate Matter

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

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

Condition 5. Emissions

5.1 Emissions may be made from the specified emission points set out in *Schedule B: Emission Limits,* of this licence subject to compliance with the Emission Limit Values specified in that Schedule.

5.1.1 Uncontaminated storm water may be discharged to surface water.

5.1.2 Uncontaminated storm water may be emitted to groundwater or to soil.

5.1.3 Minor, diffuse and potential emissions may be emitted to air as specified in the application, or as approved by the Agency under Condition 1 of this licence.

5.2 Notwithstanding the requirements of Condition 5.1, there shall be no other emissions from the facility.

5.3 No emissions, including odours and dust, 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.

5.4 No substance shall be discharged in a manner, or at a concentration, that, following initial dilution, causes tainting of fish or shellfish.

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

- Vermin
- Birds
- Flies
- Mud
- 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.

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

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 and Monitoring,* of this licence.

6.1.1 Sampling and analysis shall be undertaken by competent staff in accordance with documented operating procedures. Unless otherwise approved by the Agency, sampling and analysis of emissions to atmosphere shall be carried out by ISO 17025 accredited persons/organisations, with accreditation for the relevant scope of sampling and analysis, and in accordance with the Agency's air monitoring policy.

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, which will ensure the provision of data of an equivalent scientific quality, shall apply.

6.3 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring has been approved in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring facilities shall be put in place. The use of alternative equipment, other than in emergency situations, shall be as approved by the Agency.

6.4 Monitoring and analysis equipment shall be installed, operated and maintained as necessary so that all monitoring results accurately reflect any emission, discharge or parameter specified in this licence.

6.5 All treatment/abatement and emission control equipment shall be calibrated and maintained in accordance with the instructions issued by the manufacturer/supplier or installer.

6.6 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.

6.7 The licensee shall prepare and implement 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.

6.8 The integrity and water tightness of all tanks, bunding structures, containers and underground pipes and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee within six months of the date of grant of this licence.

6.8.1 In the case of new bunding structures, tanks, underground pipelines and containers installed on site, the testing for integrity and water tightness shall be undertaken in advance of utilisation;

6.8.2 Testing shall be carried out by a suitably qualified and experienced person;

6.8.3 Testing shall be carried out in accordance with any guidance published by the Agency;

6.8.4 Testing shall be carried out at least once every three years thereafter and reported to the Agency on each occasion;

6.8.5 Any repairs required to ensure the integrity and water tightness of tanks, building structures, containers and underground pipes shall be carried out as soon as practicable; and

6.8.6 A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.

6.9 The storm water drainage system (i.e., gullies, manholes, any visible drainage conduits and such other aspects as may be required by the Agency), bunds, silt traps and oil separators shall be inspected weekly, desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal. The licensee shall maintain a drainage map on site. The drainage map shall be reviewed annually and updated as necessary.

6.10 An inspection system for the detection of leaks on all flanges and valves on over-ground pipes used to transport materials other than water shall be developed prior to the commencement of the activity and maintained thereafter.

6.11 Storm Water

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

6.11.2 The licensee shall, within six months of commencement of the activity, establish suitable trigger levels for conductivity, total dissolved solids, Total Petroleum Hydrocarbons and any other parameters as required by the Agency in storm water discharges. The licensee shall have a response programme to address any exceedance of the trigger values. The licensee shall have regard to the Environmental Protection Agency "Guidance on the setting of trigger values for storm water discharges to off-site surface waters at EPA IPPC and Waste licensed facilities" when establishing the suitable trigger levels.

6.11.3 Run-off from areas of the facility used for the holding and storage of contaminated waste shall be diverted for collection and safe disposal.

6.12 Dust and Noise Control

6.12.1 The licensee shall implement adequate measures for the control of noise, vibration and dust, including fugitive dust emissions, from the facility.

6.12.2 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.

6.12.3 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.

6.13 Noise

6.13.1 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.

6.14 Litter Control

6.14.1 All loose litter or other waste present on or in the vicinity of the facility, other that in accordance with the requirements of this licence, shall be removed, subject to the agreements of the landowners, immediately and in any event by 10.00am of the next working day after such waste is discovered.

6.14.2 The licensee shall ensure that all vehicles delivering waste to, and removing waste and materials from, the facility are appropriately covered.

6.15 Pollutant Release and Transfer Register (PRTR)

The licensee shall submit a PRTR data report for the site. The pollutants and/or wastes to be included in the PRTR shall be determined by reference to EC Regulations No. 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register. The PRTR shall be prepared in accordance with any relevant Agency guidance and shall be submitted electronically in the format specified by the Agency.

6.16 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.

6.17 Topographical Monitoring

6.17.1 A topographical survey shall be carried out on an annual basis. The survey shall include measurements of the total void space that has been filled and the remaining available void space.

6.17.2 The survey shall be in accordance with any written instruction issued by the Agency. The results of this survey shall be reported as part of the Annual Environmental Report (AER).

6.18 Stability Assessment

6.18.1 A stability assessment of the temporary side slopes at the facility shall be carried out on an annual basis. The results of this assessment shall be reported as part of the Annual Environmental Report (AER).

6.19 Groundwater

6.19.1 The licensee shall, prior to commencement of waste acceptance, have installed additional groundwater monitoring wells at the facility at three locations satisfactory to the Agency and screened at a depth satisfactory to the Agency. The locations of the wells shall be based on groundwater flow gradients as follows:

- One well that will provide a representative sample of groundwater upgradient of the activity, and
- Two wells that will provide a representative sample of groundwater downgradient of the activity.

6.19.2 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.

6.19.3 A report on this assessment shall be included in the AER.

6.19.4 The licensee shall in the event of 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 the 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.

6.19.5 Any hydrogeological risk assessment prepared under Condition 6.19.4 of this licence shall be submitted to the Agency.

6.19.6 The licensee shall implement the following:

(i) 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.

6.19.7 The licensee shall ensure that groundwater monitoring well sampling equipment is available or installed 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 the Schedule of Environmental Objectives and Targets under Condition 2 above.

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 under Condition 2 above.

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

Condition 8. Materials Handling

8.1 The licensee shall ensure that waste generated in the carrying on of the activity shall be prepared for re-use, recycling or recovery or, where that is not technically or economically possible, disposed of in a manner which will prevent or minimise any impact on the environment.

8.2 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.

8.3 Waste sent off-site for recovery or disposal

8.3.1 Waste sent off-site for recovery or disposal shall be transported only by an authorised waste contractor. The waste shall be transported from the site of the activity to the site of recovery/disposal only in a manner that will not adversely affect the environment and in accordance with the appropriate National and European legislation and protocols.

8.3.2 Waste sent off-site for recovery or disposal shall be transferred only to an appropriate facility.

8.4 The licensee shall ensure that, in advance of transfer to another person, waste shall be classified, packaged and labelled in accordance with National, European and any other standards which are in force in relation to such labelling.

8.5 Greenfield soil and stone

8.5.1 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 material obtained from that source.

8.5.2 The licensee shall obtain a further letter of suitability for each subsequent 5,000 tonnes of material obtained from that source.

8.5.3 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 agreeable to the Agency.

8.6 Non-greenfield soil and stone

8.6.1 The licensee shall in a manner and format agreeable 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. The licensee shall have regard to the Environmental Protection Agency "Guidance on waste acceptance criteria at authorised soil recovery facilities" (2020) when establishing the suitable trigger

levels. Non-compliant materials shall be dealt with in accordance with Condition 8.12.8 of this licence.

8.6.2 Non-greenfield soil and stone shall be tested according to protocols agreed by the Agency. Sampling and testing shall be carried out by independent institutions with proven experience in waste testing and analysis.

8.7 Backfill

8.7.1 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 this facility.

8.7.2 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 waste that the Agency deems to be unsuitable.

8.8 The loading and unloading of materials shall be carried out in designated areas protected against spillage and leachate run-off.

8.9 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 run-off. The waste and materials shall be clearly labelled and appropriately segregated.

8.10 All vehicle and machinery refuelling and maintenance operations shall be carried out in designated areas protected against spillage and run-off.

8.11 Unless otherwise agreed only secondary or recovered aggregate that has achieved end-of-waste status shall be used for engineering purposes at the facility.

8.12 Waste Acceptance and Characterisation Procedures

Prior to 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 procedure shall, as a minimum, address the following conditions:

8.12.1 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.

8.12.2 Waste shall only be accepted at the facility from known pre-cleared customers.

8.12.3 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.

8.12.4 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 described in the accompanying documents.

8.12.5 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.

8.12.6 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.

8.12.7 In the case of suspicion of contamination (either from visual inspection or from knowledge of the origin of the waste) the waste shall be refused/rejected.

8.12.8 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 a 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.

8.13 The licensee shall neither import waste into the State nor export waste out of the State except in accordance with the relevant provisions of Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14th June 2006 on shipments of waste and associated national regulations.

8.14 No hazardous waste, liquid or vector material shall be accepted at the facility.

8.15 Scavenging shall not be permitted at the facility.

8.16 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.

8.17 By-products such as soil and stone, may be accepted at the facility in place of waste types specified in Table A.1.1 of Schedule A and in combination, subject to the tonnage set out in Table A.1.2 of Schedule A.

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, in advance of the commencement of the activity on-site, 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, in advance of the date of commencement of the activity 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; and

(vi) notify the Agency as required by Condition 11.4 of this licence.

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

(i) identify and put in place measures to avoid recurrence of the incident; and

(ii) identify and put in place any other appropriate remedial actions.

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. A final validation report to include a certificate of completion to demonstrate there is no continuing risk to the environment shall be submitted to the Agency within three months of termination or planned cessation of the activity.

10.2 Closure, Restoration and Aftercare Management Plan (CRAMP)

10.2.1 The licensee shall prepare, to the satisfaction of the Agency, a fully detailed plan for the decommissioning or closure of the site or part thereof. This plan shall be submitted for agreement by the Agency within six months of the date of grant of this licence.

10.2.2 The plan shall be reviewed annually and proposed amendments thereto notified to the Agency for agreement. No amendments may be implemented without the agreement of the Agency.

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.

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

Condition 11. Notification, Records and Reports

11.1 The licensee shall submit the reports, proposals and submissions required by this licence by the deadlines specified. The licensee shall not be in compliance with the requirements of this condition unless and until it has submitted every report, proposal and submission, the deadline for which has passed.

11.2 The licensee shall carry out every action required by the Agency, and arising out of such reports, proposals or submission, by such deadline as the Agency may specify. The licensee shall not be in compliance with the requirements of this condition unless and until it has carried out every such action.

11.3 The licensee shall notify the Agency of the intended date of commencement of the Scheduled Activity, one month in advance of commencement, in a format as may be specified by the Agency.

11.4 The licensee shall notify the Agency, in a format 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 including bypasses; or

(iv) any emission that does not comply with the requirements of this licence.

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.

11.5 The following shall be notified, as soon as practicable after the occurrence of any incident which relates to a discharge to water:

(i) Inland Fisheries Ireland in the case of discharges to receiving waters.

11.6 The licensee shall make a record of any notification made under Condition 11.4 above. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident or accident. The record shall include all corrective actions taken to manage the incident or accident, minimise wastes generated and the effect on the environment, and avoid recurrence. In the case of a breach of a condition, the record shall include measures to restore compliance.

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

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

11.9 The licensee shall as a minimum ensure that the following documents are accessible 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; and

(viii) any elements of the licence application or EIA documentation referenced in this licence.

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

11.10 The licensee shall submit to the Agency, by the 31st March of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in *Schedule E: Annual Environmental Report,* of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency.

11.11 A full record, which shall be open to inspection by authorised persons of the Agency at all times, shall be kept by the licensee on matters relating to the waste and material 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 and any material 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 any rejected consignments;
(vi) the results of any waste analyses required under *Schedule C: Control and Monitoring*, of this licence; and
(vii) the tonnage and LoW Code for the waste materials and any other material recovered/disposed on-site; and
(viii) original copies of letters of suitability for greenfield soil and stone.

11.12 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;
(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.

11.13 The licensee shall submit report(s) electronically as required by the conditions of this licence to the Agency.

11.14 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 €5,088, 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 31st day of December, and shall be paid to the Agency within one month from the date of grant of this 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 Agency may amend this licence in accordance with Section 42B of the Waste Management Act 1996 as amended to require, or not require as the case may be, the putting in place of a financial provision to address liabilities for CRAMP and/or Environmental Liabilities Risk Assessment.

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:

- Backfilling through the importation, stockpiling and recovery of inert soil and stone from greenfield and non-greenfield sites for the purposes of quarry restoration.

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

A.1 Waste Acceptance

Only the wastes as specified in Table A.1.1 are acceptable for recovery at the facility unless otherwise approved 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	532,800 [Note 2]
20 02 02	Soil and stones	

Note 1: Any proposals to accept other compatible inert waste types shall be agreed in advance by the Agency.

Note 2: Waste to be accepted for the backfill of the quarry. Unless otherwise approved by the Agency, this is the maximum quantity of all soil and stone materials to be accepted for the backfill of the quarry in a calendar year. This annual figure includes material for final profiling.

Table A.1.2 Total Quantity for Backfill

Total quantity of soil and stone permitted for backfill at the facility	1,332,084 tonnes [Note 1, Note 2]

Note 1: Including quantity accepted under Waste Facility Permit (WFP-FG-19-003-01) and material required for final profiling.

Note 2: The quantity of waste and the total quantity of soil and stone by-product used as backfill shall not exceed 1,332,084 tonnes in total.

A.2 Waste Acceptance Criteria for Backfill Material

Soil and Stone	Minimum Criteria
Greenfield soil and stone	Letter of suitability
Non-greenfield soil and stone	1. 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 8.6.1 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 8.6.2 of this licence.
Note 2: Maximum contaminant concentration levels and/or trigger levels to be developed in accordance with Condition 8.6.1 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

Emission Point Reference No: W2 (Discharge from settlement tank)
Location: (309832E, 242976N)

Volume to be emitted: Maximum in any one day: 2,419m^3

Maximum in any one hour: 165 m^3

Parameter	Emission Limit Value	
pH	6-9	
	mg/1	kg/d
BOD	2.6	
Total Suspended Solids	15	
Total Ammonia (as N)	0.140	
Orthophosphate (as P)	0.075	
Sulphates (SO_4)	550	600

B.3 Emissions to Sewer

There shall be no process effluent emissions to sewer.

B.4 Noise Emissions

Noise limit values

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

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

B.5 Dust Deposition Limits

Level (mg/m²/day) Note 1
350

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

SCHEDULE C: Control and Monitoring

C.1.1. Control of Emissions to Air

There shall be no emissions to air of environmental significance.

C.1.2. Monitoring of Emissions to Air

There shall be no emissions to air of environmental significance.

C.2.1. Control of Emissions to Water

Emission Point Reference No.: W2 (Discharge from settlement tank)
Description of Treatment: Silt trap, oil interceptor, settlement tank

Control Parameter	Monitoring	Key Equipment Note 1
Flow	Flow	Flow meter
Siltation	Silt levels in settlement tank	As agreed

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

C.2.2. Monitoring of Emissions to Water

Emission Point Reference No: W2 (Discharge from settlement tank) and upstream and downstream of the discharge from the facility [Note 1]

Emission Point Grid co-ordinates 309832E, 242976N

Parameter	Monitoring Frequency	Analysis Method/Technique
Flow	Continuous	On-line flow meter with recorder
pH	Weekly	Standard method
Conductivity	Weekly	Standard method
Total Suspended Solids	Weekly	Standard method
Total Dissolved Solids	Weekly	Standard method
BOD	Monthly	Standard method
Ammonia (as N)	Monthly	Standard method
Orthophosphate (as P)	Monthly	Standard method
Metals [Note 2]	Quarterly	Standard method
Total Petroleum Hydrocarbons	Biannually	Standard method
Mineral Oils	Monthly	Standard method
Diesel Range Organics	Biannually	Standard method
Petrol Range Organics	Biannually	Standard Method
Visual Inspection	Daily	Sample and examine for colour and odour.

Note 1: The upstream and downstream monitoring locations shall be agreed by the Agency.
Note 2: Cd, Cu, Fe, Pb, Mg, Mn, Ni, Cr (total) and Zn.

C.3.1. Control of Emissions to Sewer

There shall be no process effluent emissions to sewer.

C.4 Waste Monitoring

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

Note 1: A representative sample of the deposited waste shall be taken at least every 3,000m³ area of fill and depth of fill of 1.5 metres, or at an equivalent frequency as may be agreed 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 Noise Monitoring

Location: N1 (309583E, 243293N)
N2 (309436E, 243010N)
N3 (309856E, 242866N)
and at any additional location required or approved by the Agency.

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

Note 1: 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.

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

C.6 Ambient Monitoring

Air Monitoring Location D1, D2, as shown in drawing titled 'Drawing 16 All Sampling Locations' Drg. No: DG0016 dated March 2019 of the EIAR and at additional locations as may be agreed by the Agency.

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust deposition	Monthly	VDI 2119 (Bergerhoff Method)

C.7 Groundwater Monitoring

Location: Three groundwater monitoring wells at locations to be approved by the Agency as per Condition 6.19.

Parameter	Monitoring Frequency	Analysis Method/Techniques
Visual Inspection	Quarterly	Standard Method
Water Level	Quarterly	Standard Method
pH	Quarterly	pH electrode/meter
Conductivity	Quarterly	Standard Method
Chloride	Quarterly	Standard Method
Sulphate	Quarterly	Standard Method
Ammonia (as N)	Quarterly	Standard Method
Nitrate	Quarterly	Standard Method
Nitrite	Quarterly	Standard Method
Orthophosphate (as P)	Quarterly	Standard Method
Total Dissolved Solids	Quarterly	Standard Method
Dissolved Metals Note 1	Quarterly	Standard Method
Total Petroleum Hydrocarbons	Quarterly	Standard Method
Diesel Range Organics	Quarterly	Standard Method
Petrol Range Organics	Quarterly	Standard Method
Mineral Oil	Quarterly	Standard Method
Total Coliforms	Quarterly	Standard Method
Faecal Coliforms	Quarterly	Standard Method
Other parameters as may be required by the Agency	Quarterly	Standard Method

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

SCHEDULE D: Specified Engineering Works

Specified Engineering Works
Construction of site infrastructure including, weighbridge, wheel wash, office, carpark, refuelling areas and upgrade works.
Associated construction works for stormwater and surface water run-off management systems.
Installation of groundwater monitoring wells.
Any other works notified in writing to the Agency.

SCHEDULE E: Annual Environmental Report

Annual Environmental Report Content [Note 1 & 2]
Environment Management objectives and targets summary.
Energy and water use and generation summary.
Complaints summary.
Incidents Summary.
Emissions Summary.
Waste Management Summary.
Any other items specified by the Agency.

Note 1: Content may be revised subject to the agreement of the Agency.
Note 2: The AER shall be completed in accordance with current Agency guidance.

Sealed by the seal of the Agency on this the 30th day of November 2022.

PRESENT when the seal of the Agency
Was affixed hereto:

Ray Cullinane

Ray Cullinane, Authorised Person