

1.1 ATACHMENT G.1 RAW MATERIALS AND PRODUCT

The proposed waste licence entails the placement of inert soil and stones and the recycling of inert C&D material. No chemicals (e.g. Insecticides, Herbicides, Rat Poisons, Cleaning Agents, Water Treatment Chemicals, Cooling Water/Boiling Water Additives, Laboratory Chemicals, etc.) will be required or accepted at the facility.

The only fuels required at the proposed Waste Licence Site will be Diesel (ca. 500 Litres/week) to run the onsite plant (excavators, bulldozers).

The energy requirements for the site office, weighbridge, lighting, heating etc. will be provided by the existing connection to the electricity supply network.

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H – MATERIALS HANDLING

ATTACHMENT H.1 WASTE TYPES AND QUANTITIES – EXISTING & PROPOSED

The site is located in the east of County Meath. The property is in the ownership of Roadstone Wood. The area of the overall Roadstone Wood property extends to 93.8ha and is bound by a local road (L1601) to the north; Platin Quarry to the south, agricultural land to the west and by a local county road (L5612) to the east.

The EIS is prepared for waste licence development comprising soil and stones and C&D material. The waste licence will involve the future infilling of 1,200,000 m³ or 1,800,000 tonnes. By maintaining an infilling rate of 100,000 tonnes per annum, with C&D comprising 50,000 tonnes per annum, this proposed waste licence will be in use for approximately 20 years.

Clean, inert soil and stone will be sourced from development sites. The 100,000tpa of soil and stones will be used for restoration purposes at the site. It is envisaged that Roadstone will fill the clay disposal area between to 75 mOD to 83m.O.D. with soil and stone, in order to restore this area of the site and to blend in the restoration area with the surrounding landscape.

Table 1 Materials for Recovery

	European Waste Catalogue Classification
17 01 01	Concrete
17 01 07	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 01 03	tiles and ceramics
17 01 02	bricks
17 03 02	bituminous mixtures containing other than those mentioned in 17 03 01
17 04 05	Iron and steel

Note: As per the European Waste Catalogue, January 2002

Table 2 Materials for Restoration

	European Waste Catalogue Classification
17 05 04	Soil and stones other than those mentioned in 17 05 03

Note: As per the European Waste Catalogue, January 2002

The restoration activities at the proposed land restoration facility will be in accordance with the Fourth Schedule of the Waste Management Act 1996. The activity to be carried out at the facility will be:

Class 10: Spreading of any waste on land with a consequential benefit for an agricultural activity or ecological system, including composting and other biological transformation processes.

The recycling activities at the proposed **Construction and Demolition** will be in accordance with the Fourth Schedule of the Waste Management Act 1996.

The **activity** to be carried out at the facility will be:

Class 4: Recycling or reclamation of other inorganic materials

Class 3: Recycling or reclamation of metals and metal compounds.

Class 13: Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

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H.2 WASTE ACCEPTANCE PROCEDURES

The proposed waste acceptance procedures are outlined in Section 2 of the Environmental Impact Statement. Prior to any material being accepted at the site, a contract will be entered into by the developer/builder and Roadstone Wood Ltd. to ensure that the following is agreed between the parties:

1. Only segregated waste is delivered to the site;
2. Only wastes of the classes specified are to be delivered to site;
3. Penalties and actions should the above conditions not be met;

The material delivered to the site for recycling will be examined on entry into the site. This will ensure that only segregated waste as per the waste permit is brought to the site. If this is not the case, it will be returned to its source for segregation or sent to a licensed landfill. The cost of this will be charged to the customer at a premium price to ensure that this does not occur again.

Following inspection, the material will be stockpiled according to type. Once sufficient volume of material is on-site a mobile crusher, already operating on-site, will be used to process the material.

All customer records are kept on file for 5 years as per Roadstone Wood ISO 9001:2000 certification.

A record of all material arriving at the facility, including the following information, will be recorded:

- Date;
- Time;
- Owner Truck;
- Truck Licence Plate No.;
- Type of Material;
- Origin of Material;
- Quantity of Material

All imported materials will be inspected as it enters the site. It will also be inspected when tipped in the C&D Processing Area and Soil and stones area.

On arrival, the haulage trucks will be inspected at the weighbridge. As discussed in Section H.2 above, The Deputy Facility Manager/Machine Operative will inspect each load, as it is being deposited, to ensure the material is fully compliant with the Waste Licence. If the material is non-compliant, the Deputy Facility Manager/Machine Operative will insist that the material is reloaded onto the haulage truck and removed from the site, for authorised disposal elsewhere.

Once the haulage trucks deposit their load, the excavator will shift the inert material, from where it is deposited by the haulage trucks, and spread it over the area of the deposition site, in compliance with the Waste Licence Application Drawings. If waste objects are identified within the inert material, whilst moving/reclaiming the material, which are not compliant with the Waste Licence, they will be removed and transported to the Waste Quarantine area.

H.3 WASTE HANDLING

As discussed in Section D.2 above: The Waste Facility proposed under this Licence Application, is a 'Material Recovery Facility'. The proposed works involve the acceptance of inert Construction & Demolition material and the importation of soil and stones for restoration/reclamation.

Waste Quarantine Areas

If inappropriate material is identified during inspection, it will be removed to a waste quarantine area before removal from site. It is proposed to use skips on an existing hardstand area for storage of quarantine rejected waste.

Laboratory Testing

Laboratory testing of soil, surface water and groundwater will be undertaken off-site at an ILAB/UKAS accredited laboratory. Any validation testing and laboratory testing required to confirm classification of waste as inert will also be undertaken by the same laboratory. All samples taken on-site will be forwarded to the laboratory and test results will typically be forwarded to site within ten working days.

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H.4 WASTE ARISING

Safeguards to ensure that only suitable material is received on site include but are not limited to:

- Materials to be recovered and recycled will only be accepted from approved Contractors who are aware of the need for and who undertake strict segregation and sorting of waste prior to transporting it to the application site.
- An internal licensing operation will be put in place to ensure that only approved Contractors may use the proposed facility.
- All material arriving on site will be subject to a visual inspection on site prior to and during unloading.
- Any Contractor who persistently carries unacceptable waste to the application site will be refused further use of the facility.

In the event of waste arising at the facility subject to this Waste Licence Application, these materials will be removed or stored in the Waste Quarantine Area.

If inappropriate material is deposited at the site, this material will be removed to an appropriate licensed facility. Depending on the waste, material will be removed to one of the following sites:

- Padraig Thornton Waste Disposal Limited W0206-01
- Oxigen Environmental Ltd. W0144-01
- Murphy Environmental Ltd. W0129-02

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ATTACHMENT I1 . ASSESSMENT OF IMPACT ON RECEIVING SURFACE WATER

No emissions to watercourses or ponds beyond the boundary of the application site will take place over the operational life of the proposed waste recovery facility.

The nearest watercourse to the application site is the River Nanny, and located within the Eastern River Basin District. All rainwater falling within the site recharges to groundwater. Groundwater flow is towards the ICL Platin quarry and is subsequently discharged under EPA IPPC licence P0030-04 from the adjoining ICL site.

Details of the existing surface water environment and the impact of the proposed waste recovery facility and associated emissions thereon are provided in Section 7 of the Environmental Impact Statement.

ATTACHMENT I.2. ASSESSMENT OF IMPACT OF WASTE WATER DISCHARGE (NOT FOR SANITARY EFFLUENT).

No waste water will be discharged as a result of this application. See Section 7 of the EIS.

I.3 ASSESSMENT OF GROUND AND/OR GROUNDWATER CONDITION

All surface water percolates to groundwater within the site and in the surrounding area. All available data for hydrometric stations in the environs of the proposed waste licence site was obtained to determine flows and water levels on the River Nanny.

An off site dewatering programme within Platin Quarry, is located immediately to the southeast of Mullaghcrone Quarry. The Mullaghcrone Quarry site is considered to be within the zone of contribution for the dewatering undertaken within Platin Quarry. This means that all water percolating to ground is transmitted towards Platin Quarry and pumped out to discharge.

The Platin Quarry groundwater abstraction is carried out in accordance with its planning permissions and its IPPC Licence Reg. No. P0030-03. Groundwater quality at the adjoining Platin Quarry is monitored bi-annually in accordance with IPPC Licence. However the groundwater abstracted from Platin Quarry is good indicating no impact from the existing IPPC facilities, quarry or waste permit areas.

Further details are included in Section 7 and section 8 of the EIS.

I.4 NOISE IMPACT.

The Mullaghcrone site has been operated for rock extraction since the original planning permission was granted by Meath County Council in 1978. The effects of noise and vibration as pertain to the proposed activities, are examined in this assessment. Noise monitoring conducted as part of the existing waste permit, granted by Meath County Council at Mullaghcrone Quarry, demonstrates that all noise levels measured are below the relevant guidance.

Noise levels are predicted to be comfortable within the applicable target criterion. As such the predicted residual impact is expected to be a slight, long term noise impact. Site activities will be effectively managed to ensure that all potential noise impacts are minimised to acceptable levels. There are no significant adverse or unacceptable noise impacts predicted at local sensitive receptors or on local livestock in the vicinity of the site as a result of the proposed waste license.

Further details are included in Section 10 of the EIS.

I.5 ASSESSMENT OF ECOLOGICAL IMPACTS & MITIGATION MEASURES

The site consists of a previously quarried area which has been partly in filled with subsoil and rock material. Habitats on the site consist pre-dominantly of disturbed ground. Partly surrounding the site are semi natural habitats including scrub and hedgerows. These described surrounding habitats which are considered the only key ecological receptors to be avoided by the development.

The proposed site does not lie within or adjacent to any area that has been designated for nature conservation under Irish or European legislation. The nearest designated site is the River Boyne and Blackwater cSAC which lies some 1.1km to the north. No impacts will arise to Natura 2000 sites in the vicinity of the development as potential surface waters from the site do not flow towards Natura 2000 sites - refer to mitigation in Chapter 8 Water.

No sensitive ecological receptors exist within the site, which are likely to be impacted. Hedgerows described will be retained.

The key bird and potential mammal habitat (including bat forage habitat) is hedgerows on the site boundary, which will be retained as part of any proposed development.

Following full implementation of existing mitigation and management practises on the site no residual impacts are expected to key ecological receptors surrounding the site.

SECTION J – ACCIDENT PREVENTION & EMERGENCY RESPONSE

J.1 Accident Prevention and Emergency Response

ATTACHMENT J1 . ACCIDENT PREVENTION AND EMERGENCY RESPONSE

An assessment of the principal environmental hazards and risks associated with the proposed waste recovery facility and the contingency measures to be implemented in the event of an incident are provided in the Outline Contingency Plan reproduced in Appendix 2.2 of the Environmental Impact Statement.

4.4.7 Emergency preparedness and response

Possible emergencies have been identified for Mullaghcrone Quarry and an Emergency Response Plan including maps, drawings and graphics are in place.

Responsibility:

- It is the responsibility of the Location Manager to develop an emergency plan for the location. This includes the management and filing of MSDS sheets.
- It is the responsibility of each Location Manager to practice this emergency plan at least once per year and ensure the plan is complied with in the event of a real emergency.

Resources required include the following:

- Adequate bunding for all above ground storage tanks.
- Training for all staff on how to respond to fire, handle spills etc in an emergency
- Documented procedures to be located at all high risk locations i.e., where handling oils, drums etc.
- Emergency spill kits to be located at high-risk locations.

Accident Prevention and Emergency Response

STAFF MEMBER WHO DISCOVERS THE FIRE OR EMERGENCY

1. On discovering a fire or some such emergency, go to the nearest telephone and dial "0" for reception or "999" for emergency services. Identify yourself to the person on duty and inform them of:
 - The fire or emergency (Fire, Accident or major Spillage)
 - The location of it.
 - Assistance required (e.g. fire brigade, Gardai or ambulance)
2. In the event of a fire, raise the alarm with all staff in the immediate area. Assist in containing the fire using the appropriate extinguisher - only if it safe and you are confident to do so.

1 NOTE

Always remember to stay on the exit side of the fire and never take risks.

3. If you can no longer contain the fire, then vacate the building/work area immediately by the nearest clear exit, closing all doors behind you.
4. Now proceed to your assembly point.
5. Report to your assembly point controller and identify yourself to your assembly point controller as the person who discovered the fire or emergency.
6. Inform him of the situation at the scene of the emergency, outlining how far advanced the fire or emergency was as you left it.

1.1 FIRST AIDERS

1. In the event of a fire/emergency vacate the building/work area immediately by the nearest clear exit, closing all doors behind you.
2. Now proceed to your assembly point.
3. After roll call report to the assembly point controller.
4. Deal with any casualties as necessary if requested by the assembly point controller.
5. Assist in the search for any missing persons under direction of the assembly point controller if required.

1.2 ASSEMBLY POINT CONTROLLER (Plant/Location Manager/Shift Supervisor)

1. In the event of a fire/emergency vacate the building/work area immediately by the nearest clear exit, closing all doors behind you.
2. Confirm that all staff and visitors/contractors are accounted for.
3. In the event of someone missing from the staff assembly group other than those accounted for, establish if that person or persons could be in the building/ area of emergency.
4. If it likely that there are persons still in the building/emergency area then inform the fire brigade personnel as soon as they arrive on site.
5. After roll call, ask the trained first aiders to come forward and make themselves available if instructed to do so by the fire brigade personnel.
6. If required you may move the location of the assembly point to a safer location.
7. When the Fire Brigade indicates, you may then allow the assembly group to disperse in an orderly fashion and return to work or finish work for the day in the event of a major emergency.
8. Give a full report to the management team.

1.3 CONTRACTORS/VISITORS

Please Note the following:

1. Evacuation Procedures
 - If, while on the premises, a fire or emergency is discovered, please vacate the building by the nearest exit.
 - Go directly to the designated assembly area.
 - Inform the assembly point controller of your presence.
2. **SHOULD YOU DISCOVER A FIRE OR SOME SUCH EMERGENCY**
 - On discovering a fire or some such emergency, go to the nearest telephone and dial "0" for reception or "999" for emergency services. Identify yourself to the person on duty and inform them of:
 - The fire or emergency (Fire, Accident or Major Spillage)
 - The location of it.
 - Assistance required (e.g. fire brigade, Gardai or ambulance)
3. **IN THE CASE OF A FIRE**
 - Should you be willing to assist in the containing it:
 - Use the appropriate extinguisher.

2 NOTE

Always remember to stay on the exit side of the fire and never take risks.

- If you can no longer contain the fire, then vacate the building/work area immediately by the nearest clear exit, closing all doors behind you.
- Now proceed to your assembly point
- Report to your assembly point controller and identify yourself to your assembly point controller as the person who discovered the fire or emergency.

Emergency Spill Response Procedure

In the event of a major Spill the Quarry Manager shall :

Step	Action
1	Ensure all sources of ignition are extinguished.
2	Keep the area well ventilated if the spill is in a confined space
3	Ensure that all unnecessary untrained personnel are kept well away from the scene.
4	Identify the material spilled and obtain the MSDS to ensure that handling and PPE requirements are clearly understood and that those containing the spill are wearing the appropriate PPE.
5	Stop the spill and contain it as much as possible, use the materials provided in the Environmental Spill Kits and ensure that the drains in the surrounding areas are sealed.

Note: The main risk associated with oil or chemical spills is the potential for the spill to enter drains, watercourses, soils and the ground water system, causing contamination and/or fire or explosion risk.

Remediation

Depends on the impact the contaminant has on the receptor and may involve the following:

- Aeration
- Addition of biological surfactants
- Restocking of fish reserves

Note: Contact the appropriate Government or concerned body to discuss as and when required.

Waste Disposal

Any waste or contaminated materials generated during the clean up of the spill, shall be disposed of as per the Waste Disposal Procedure [EMS 10](#)

Site Maps

Site and/or Plant maps shall clearly indicate the following.

1. Fire Extinguishers
2. Assembly points
3. Spill kits
4. Fuel Tanks
5. First Aid

Reporting

The Non Conformance form shall be completed by the Quarry Manager immediately after each accident. The Environmental Officer shall review this report along with the Manager concerned. If any corrective action is required the problem reporting procedure shall be followed.

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2.1.1.1 EMERGENCY TELEPHONE NUMBERS

EMERGENCY SERVICES	-	999/112
LOCAL GARDA STATION	-	041 982 3222
LOCAL FIRE STATION	-	041 983 2222
LOCAL GENERAL HOSPITAL	-	(041) 9837601

LOCAL DOCTOR

-

SITE FIRST AIDER	-	
SITE MANAGER	-	
SAFETY OFFICER	-	
ENVIRONMENTAL OFFICER -		

Attachment K – REMEDIATION, DECOMMISSIONING, RESTORATION & AFTERCARE

The application site presents as small portion of a larger tract of land containing deep excavations and disturbed ground due to the ongoing quarrying activities in the area. The proposed restoration will form part of an ongoing restoration plan over the lifespan of the quarry when all the disturbed land will eventually be restored to agriculture or similar usage. The restoration to agricultural land will have a moderate and positive landscape and visual impact on the receiving environment.

Details of the closure, final restoration and aftercare management plan of the waste license area are included in EIS section 14 and EIS Appendix 14.1.

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ATTACHMENT L.1 STATUTORY REQUIREMENTS

The requirements of Section 40(4)[(a) to (i)] of the Waste Management Acts 1996 to 2008, have been met in this Waste Licence Application, and will continue to be met should the facility subject to this Waste Licence Application continue to operate under an EPA Waste Licence.

Each of the requirements of Section 40(4)[(a) to (i)] of the Waste Management Acts 1996 to 2008. will be dealt with below.

Section 40 - Grant of Waste Licence

(4) The Agency shall not grant a waste licence unless it is satisfied that:

(a) Any emission from the recovery or disposal activity in question ("the activity concerned") will not result in the contravention of any relevant standard, including any standard for an environmental medium, or any relevant emission limit value, prescribed under any other enactment.

Section E, Section F.I and Section I ('Mitigation Measures') discuss the 'Treatment, Abatement and Control Systems' to be put in place to ensure the above listed emissions from the facility will not result in the contravention of any environmental standard.

It is proposed to restore the current quarry void using inert soil and stones material which will not generate landfill leachate or landfill gas. Inert C&D material will be processed and recycled at the site and as such does not pose a significant risk. Additionally as the proposed facility will comprise inert material, the risks of bird, litter, odour or vermin nuisance does not occur.

Section E of this application form investigates all emissions (existing and proposed) from the facility subject to this Waste Licence Application. It confirms that there will be no emissions to sewer or surface water. All water falling on the site percolates back to groundwater.

When the waste recovery facility is operational and site restoration works proceeding, there is a small risk of groundwater pollution from the following potential sources:

- accidental spillage of fuels by machinery used to place the soil and stones or plant used to crush and screen the C&D waste; and
- inadvertent importation or placement of non inert/contaminated material at the site.

An existing EMS will be followed to minimize potential impacts at the site. As the site is located within an active quarry, staff are versed and trained to deal with any eventuality.

(b) The activity concerned, carried on in accordance with such conditions as may be attached to the licence, will not cause environmental pollution.

Roadstone Wood Ltd. (Applicant) is/has operated a number of waste permit facilities at the site, including an existing C&D waste permit. They have received no complaints of noncompliance from Meath County Council during that time. They are determined to operate the facility in full compliance with the EPA Waste Licence, should it be granted.

(bb) If the activity concerned involves the landfill of waste, the activity, carried on in accordance with such conditions as may be attached to the licence will comply with Council Directive 1999/31/EC on the Landfill of Waste.

This sub-section is Not Applicable, as this Waste Licence Application does not involve the landfill of waste. It applies for 'Recovery' activities only. *(c) The best available technology not entailing excessive costs will be used to prevent or eliminate or, where that is not practicable, to limit, abate or reduce an emission from the activity concerned.*

The activities proposed in this Waste Licence Application follow a simple process (i.e.: the acceptance of inert material (construction & demolition waste and soil and stones). It does not involve the use of complicated technology. The best available technology, not entailing excessive costs will be used in the development of the 'Treatment, Abatement and Control Systems' discussed above, to limit, abate or reduce emissions from the facility.

(cc) The activity concerned is consistent with the objectives of the relevant waste management plan or the hazardous waste management plan, as the case may be, and will not prejudice measures taken or to be taken by the relevant local authority or authorities for the purpose of the implementation of any such plan.

No hazardous material is proposed to be accepted at the facility, therefore, the Hazardous Waste Management Plan is not relevant to this application. The activity concerned is consistent with the objectives of 'Meath County Development Plan 2007-2013, in providing a much needed Material Recovery Facility to County Meath, that will not have a negative effect on the environment or the landscape of the area.

(d) If the applicant is not a local authority, the corporation of a borough that is not a county borough, or the council of an urban district, subject to subsection (8), he or she is a fit and proper person to hold a waste licence.

This sub-section will be dealt with in Section L.2, Attachment L.2 of the Waste Licence Application below.

(e) The applicant has complied with any requirements under Section 53,

Roadstone Wood Ltd. will make such financial provisions as are deemed necessary by the Agency in respect of the implementation and/or completion of the proposed waste licence facility.

This sub-section (relating to 'Financial Provisions') is also dealt with in Section L.2I Attachment L.2 of the Waste Licence Application below.

(f) Energy will be used efficiently in the carrying on of the activity concerned.

Energy Efficiency at the facility subject to this Waste Licence Application, is dealt with in Section G.2 Attachment G.2 of this Waste Licence Application. It concludes that the only 'Energy' proposed to be used at the facility will be that to run the onsite plant (diesel powered machinery) with the existing facilities used to minimize the energy use at the site.

To ensure energy efficiency, the facility machinery will be switched off when not in use and the generator will only be used when absolutely necessary. Based on the above, it is anticipated that the proposed facility will be energy efficient.

(g) Any noise from the activity concerned will comply with, or will not result in the contravention of, any regulations under Section 106 of the Act of 1992.

A full 'Noise Assessment' was carried out as part of this Waste Licence Application and the Noise Assessment Report in Section 10 of the EIS. Site activities will be effectively managed to ensure that all potential noise and vibration impacts are minimised to acceptable levels. There are no significant adverse or unacceptable noise or vibration impacts predicted at local sensitive receptors in the vicinity of the site as a result of the waste recovery facility operating.

(h) Necessary measures will be taken to prevent accidents in the carrying on of the activity concerned and, where an accident occurs, to limit its consequences for the environment

'Accident Prevention & Emergency Response' is dealt with in Section J Attachment J of this Waste Licence Application.

The main accidents of concern for the facility subject to this Waste Licence Application are an accidental fuel spillage, or a fire at the facility. Necessary measures to be taken to prevent these accidents occurring, and actions to be taken should an accident occur are all presented in Section JI Attachment J.

(i) Necessary measures will be taken upon the permanent cessation of the activity concerned (including such a cessation resulting from the abandonment of the activity to avoid any risk of environmental pollution and return the site of the activity to a satisfactory state.

'Remediation, Decommissioning, Restoration and Aftercare' measures for the facility subject to this Waste Licence application are presented in Section KI Attachment K of this Waste Licence Application. Due to the simple processes of proposed for the facility, very little remediation or decommissioning will be required.