

**Attachment B7-Type of Waste Activity, Tonnages & Fees**

As defined by the Waste Management Act (1996), the principal activity undertaken at the site is Class 5 of the Third Schedule of the Waste Management Act (1996), namely:

**Principal Activity**

**Third Schedule, Class 1.** 'Deposit on, in or under land (including landfill).'

The application includes for the following:

- the deposition of surplus peat excavated which is to be sourced from the proposed route of the On-Shore Corrib Gas Pipeline onto bays in the peat deposition area at the Srahmore site; and,
- the final shaping of the deposited peat.

**Remaining classes covered by proposed activities at the facility**

**Third Schedule, Class 4.** 'Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons'

- the collection and discharge of surface water from the peat reception area via a settlement sump, grit trap and an oil interceptor to surface water settlement ponds.
- the collection and discharge of surface water from the peat deposition area via a surface water perimeter swale to surface water settlement ponds.

**Third Schedule, Class 13.** 'Storage prior to 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.'

The application provides for the temporary storage of the peat on the peat reception area pending its haulage to the peat deposition area.

## **ATTACHMENT C- MANAGEMENT OF THE FACILITY**

### **Attachment C1-Technical Competence and Site Management**

A chart of the on-site management structure and management structure is contained in Appendix 3.

### **Attachment C2- Environmental Management System**

An Environmental Management System (EMS) has been prepared for the Srahmore Peat Deposition site. The EMS for this development specifically addresses the following impacts:

- Discharges to water
- Emissions to atmosphere
- Waste disposal/minimisation
- Noise, vibration, odour, dust and visual effects
- Use of natural resources
- Natural environment and ecosystem effects
- Continuous environmental improvement programmes

Further details are provided in Section 18, Book 2 of the EIS and Appendix 18.1, Book 3 of the EIS.

### **Attachment C3-Hours of Operation**

During the proposed programme of peat import, the Srahmore Peat Deposition site may operate for twelve hours per day, as was the case under the existing planning permission.

Waste will be accepted at the facility peat reception area only between the hours of 0700hrs and 1900hrs Monday to Friday inclusive and 0700hrs to 1600hrs on Saturdays.

Waste handling operations at the facility will take place only during the hours of 0700hrs and 2100hrs Monday to Friday inclusive and 0700hrs to 1800hrs on Saturdays.

Waste will not be accepted at the facility on Bank Holidays.

### **Attachment C.4-Conditioning Plan**

The Waste Licence Review Application and accompanying Environmental Impact Statement are submitted as the Conditioning Plan for the Srahmore Peat Deposition site.

**ATTACHMENT D-INFRASTRUCTURE AND OPERATION****Attachment D1-Infrastructure****a) Security including perimeter fencing, entrance gates etc.**

Refer to Section 2.2, Book 2 of the EIS and Drawing 4903-2031, Book 3 of the EIS.

**b) Specifications for all access roads (main access road, haul roads and service roads).**

Refer to Section 16.3, Book 2 of the EIS and Drawings 4903-2031 and 4903-2032 Book 3 of the EIS.

**c) Specifications for all hardstanding areas, including details of drainage.**

Refer to Sections 2.6 and 9, Book 2 of the EIS and Drawing 4903-2033, Book 3 of the EIS.

**d) Weighbridge, including capacity, dimensions, record keeping system.**

Refer to Sections 2.2 and 2.8, Book 2 of the EIS and Drawing 4903-2042, Book 3 of the EIS.

**e) Wheel cleaner, including construction, water supply, arrangements for drainage of contaminated water, etc.**

Refer to Sections 2.2, 2.8, 3.1 and 16.3.9, Book 2 of the EIS and Drawing 4903-2042, Book 3 of the EIS.

**f) Laboratory facilities.**

Not Applicable

**g) Fuel storage, (including details of bunding etc.).**

Refer to Section 2.8 and 7.7.2, Book 2 of the EIS.

**h) Waste quarantine areas, including location, design details, etc.**

Only peat from the Corrib Onshore Pipeline development will be brought onto the site. An area for waste quarantine is available on site: Details are shown on Waste Licence Drawing 4903-2601.

**i) Waste inspection areas, including location, design details, etc.**

Details of the Peat Reception Area are outlined in Section 3.1, Book 2 of the EIS.

- j) Traffic control, including location and detail of signs, barriers, parking, number of vehicles catered for, etc.**

Refer to Section 16.3, Book 2 of the EIS.

- k) Sewerage and surface water drainage infrastructure, including location and sizes of pipes, outlets, invert details, treatment facilities, etc.**

Refer to Section 2.6 and 9, Book 2 of the EIS.

- l) All services, including power, water, telephone, etc., and any services specific to the site location.**

The following services are provided on site.

- Electricity
- Water from a group scheme
- Telephone

- m) Plant sheds and garages, including locations, design, etc.**

None are proposed for the site.

- n) Site accommodation and compounds, including administration area, site manager's office, staff facilities (e.g. canteen, toilets, showers etc.), equipment compound.**

Refer to Section 2.8, Book 2 of the EIS and Drawings 4903-2034, 4903-2035, 4903-2036 and 4903-2037, Book 3 of the EIS.

- o) Fire control system, including details and locations of water supply, etc.**

A number of fire control measures will be put in place at the site including the following:

- Training of all site operatives and employees in fire prevention and control and emergency response procedures.
- Prominent posting of emergency response contact numbers (fire service, gardaí, ambulance and other agencies).
- The provision of fire extinguishers and smoke detectors in all site buildings.
- Providing a water supply to the site from the group water scheme which may be supplemented from the water settlement ponds.

Fire response procedures are outlined in the Environmental Management System outlined in Appendix 18.1, Book 3 of the EIS.

- p) Civic amenity sites, including location, design, opening hours, location and number of collection receptacles, management methods for waste deposited, drainage, bunding, etc.**

Not Applicable

- q) Any other waste recovery infrastructure**

Not Applicable

- r) Details of composting infrastructure.**

Not Applicable

- s) Construction and Demolition waste infrastructure**

Not Applicable

- t) Description of Incineration infrastructure (if applicable). Provide information to fulfil Article 4 (2) & (3) of the Incineration of Waste Directive.**

Not Applicable

- u) Details of any other infrastructure proposed.**

Not Applicable

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**Attachment D 2-Facility Operation**

**Attachment D 2a-Unit Operations**

Refer to Sections 2 and 3, Book 2 of the EIS.

**Attachment D 2b-Flow Process Diagram**

A flow diagram for processes at the Srahmore Peat Deposition Site is given in Appendix 4.

**Attachment D 2c-Unit Operations Potential Emissions**

The potential emissions identified from the activity are detailed in Sections 5-17, Book 2 of the EIS. Details on these are given in Attachment E.

**Attachment D 2d-Unit Operations Laboratory Facilities**

This is not applicable to this application.

**Attachment D 2e-Unit Operations Incineration**

This is not applicable to this application.

**Attachment D 3-Liner System**

Not Applicable

**Attachment D 4-Leachate Management**

Not Applicable

**Attachment D 5-Landfill Gas Management**

Not Applicable

**Attachment D 6-Capping System**

Not Applicable

**ATTACHMENT E-EMISSIONS**

Existing Monitoring Points are located within the site in line with the current waste licence requirements.

**Attachment E.1-Emissions to Atmosphere**

Refer to Section 11, Book 2 of the EIS.

**Attachment E.2-Emissions to Surface Waters**

Refer to Section 9, Book 2 of the EIS.

**Attachment-E.3-Emissions to Sewer**

There are no discharges to the Sewer

**Attachment E.4-Emissions to Groundwater**

Refer to Section 8, Book 2 of the EIS.

**Attachment E.5-Noise Emissions**

Refer to Section 12, Book 2 of the EIS.

**Attachment E.6-Environmental Nuisances****Attachment E.6a-Bird Control**

Given the nature of the proposed development, in particular the fact that only peat will be deposited at the Srahmore site, there will be no potential nuisance associated with scavenging birds and therefore no need to provide specific bird control measures for the site.

**Attachment E.6b-Dust Control**

Refer to Section 11, Book 2 of the EIS and Appendix 18.1, Book 3 of the EIS.

**Attachment E.6c-Fire Control**

A number of fire control measures will be put in place at the site including the following:

- Training of all site operatives and employees in fire prevention and control and emergency response procedures.
- Prominent posting of emergency response contact numbers (fire service, gardaí, ambulance and other agencies).
- The provision of fire extinguishers and smoke detectors in all site buildings.
- Providing a water supply to the site from the group water scheme which may be supplemented from the water settlement ponds.

Details are also provided in the Environmental Management System for the site detailed in Appendix 18.1, Book 3 of the EIS.

**Attachment E.6d-Litter Control**

Given the nature of the proposed development, in particular the fact that only peat will be deposited at the Srahmore site, there will be no potential nuisance associated with litter and therefore no need to provide specific litter control measures for the site. Good housekeeping practices will however be implemented on the site including the requirement that all site personnel do not engage in littering activities on-site.

All residual waste and recycled materials from canteen will be exported from site by approved and permitted haulers.

**Attachment E.6e-Traffic Control**

Refer to Section 16.3, Book 2 of the EIS.

**Attachment E.6f-Vermin Control**

Given the nature of the proposed development, in particular the fact that only peat will be deposited at the Srahmore site, there will be no potential nuisance associated with vermin and therefore no need to provide specific vermin control measures for the site.

**Attachment E.6g-Road Cleansing**

Refer to Sections 11.9 and 16.3.12, Book 2 of the EIS and Appendix 18.1, Book 3 of the EIS.



## ATTACHMENT F-CONTROL & MONITORING

### Attachment F.1-Treatment, Abatement and Control Systems

Air emissions and abatement measures are detailed in Sections 11 and 14, Book 2 of the EIS.

Surface and ground water emissions and abatement measures are detailed in Section 9, Book 2 of the EIS.

Details of procedures for control and monitoring are set out in the Environmental Management System for the site as detailed in Appendix 18.1, Book 3 of the EIS.

### F.2- F. 9. Monitoring and Sampling Points

Details of all sampling and monitoring points are outlined on WLA Drawing 4903-2606 and are as specified by the current waste licence.

#### Attachment F.2-Air – Monitoring and Sampling Points

Refer to Section 11, Book 2 of the EIS.

Dust Monitoring is carried out at the following locations

Dust Monitoring Point	Easting	Northern
DM-01	082819	324659
DM-02	084992	324136
DM-03	085213	323243
DM-04	084478	323040
DM-05	084026	323286

#### Attachment F.3-Surface Water- Monitoring and Sampling Points

Refer to Sections 9.3 and 9.9, Book 2 of the EIS.

Surface Water Monitoring is carried out at the following locations

Surface Water Monitoring Point	Easting	Northern
SW4 M (Confirmed from Area 5/6)	083978	324026
SW100 E (S5-1)	084859	323115
SW101 E (S5-2)	084189	323106

**Attachment F.4-Sewer Discharge- Monitoring and Sampling Points**

Not Applicable

**Attachment F.5-Groundwater- Monitoring and Sampling Points**

Refer to Sections 9.3.4 and 9.9, Book 2 of the EIS.

Groundwater Monitoring is carried out at the following locations

Ground Water Monitoring Point	Easting	Northern
BH1 A&B	084426	323042
BH2 A&B	083908	323491
BH3 A&B	084905	323738
BH4 A&B	084592	323773

**Attachment F.6-Noise- Monitoring and Sampling Points**

Refer to Section 12, Book 2 of the EIS.

Noise Monitoring is carried out at the following locations

Noise Monitoring Point	Easting	Northern
NR A M	085075	324201
NR-B M	085266	323941
NR-C M	085703	323355

**Attachment F.7- Meteorological Data- Monitoring and Sampling Points**

Not Applicable

**Attachment F.8- Leachate- Monitoring and Sampling Points**

Not Applicable

**Attachment F.9- Landfill Gas- Monitoring and Sampling Points**

Not Applicable

**ATTACHMENT G- RESOURCE USE AND EFFICIENCY****Attachment G.1: Raw Materials, Substances, Preparations and Energy**

The envisaged usage of fuel, hydraulic oil, electricity and water is estimated to be as follows:

Material/Resource	Annual Usage per Annum	Amount Stored On-Site
Hydraulic Oil	5680 litres	510 litres
Electricity	88.779 MW/hours per annum	Not stored
Diesel	270,103 litres	1,000
Water	220 m <sup>3</sup> (Domestic Requirement)	Not Stored

Estimated amounts of materials required for construction activities are shown below.

Use	Amount imported rock for enabling works (m <sup>3</sup> )	Amount of imported rock for maintenance (m <sup>3</sup> )	Amount of imported terram (sq.m)
Internal Circulation Roads	10,000	2,000	20,000

Non-Hazardous Wastes generated during the operation of the peat deposition site will be limited to general domestic waste.

Hazardous wastes are likely to consist of used oil spill clean-up kits and oily sludge from the on-site interceptors.

**Attachment G.2: Energy Efficiency**

Bord na Móna will be tracking the energy use at the site as they are signed up to GEM (Group Energy Manager) with ESB Customer Supply, and will have on-line access to the sites account. All of the machines used previously onsite in 2005 & 2007 were purchased at that time and as such would be deemed to be efficient. There is a requirement for measurement of resource use as part of the current waste licence and Bord na Móna, currently report this in its Annual Environmental Report for the site.

**ATTACHMENT H: MATERIALS HANDLING****Attachment H.1- Waste Types and Quantities –Proposed****Annual Tonnes of Peat at Srahmore Peat Deposition Site**

Year	Proposed (Tonnes per annum)*	Total (Tonnes)
2010	75,000**	75,000

\*The exact timeframe envisaged for deposition of up to 75,000 tonnes of peat is unknown, as it will be dictated by the rate of extraction along the pipeline development. However, it is estimated that with optimal climatic conditions, the deposition could be completed within a 3 to 4 month operation programme in 2011. Dependent on climatic variables and other contributory factors the operation programme may extend. Some residual deposition may occur in 2011.

\*\*\*Freshly excavated peat has a density approximately equal to 1 (1m<sup>3</sup> peat ~ 1t).

**Attachment H.2- Waste Acceptance Procedures**

Refer to Section 2.4, Book 2 of the EIS

**Attachment H.3- Waste Handling**

Refer to Sections 2.4 and 2.5, Book 2 of the EIS

**Attachment H.3a Waste Handling at the Landfill Facility**

*State whether all waste will be subject to treatment prior to landfilling. Provide information as to the quantities of biodegradable municipal waste and how the targets of the Landfill Directive (1999/31/EC) relating to that waste type are to be achieved. In particular describe how the following will be achieved:*

- (a) *a reduction by 16/07/06 to 75% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;*
- (b) *a reduction by 16/07/09 to 50% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;*
- (c) *a reduction by 16/07/16 to 35% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;*
- (d) *Evidence should be provided to show that energy will be used efficiently.*

Not Applicable

**Attachment H.4 Waste Arisings**

Not Applicable

**ATTACHMENT I: EXISTING ENVIRONMENT & IMPACT OF THE FACILITY**

**Attachment I.1- Assessment of atmospheric emissions**

Refer to Sections 11 and 14, Book 2 of the EIS.

**Attachment I.2- Assessment of Impact on Receiving Surface Waters**

Refer to Section 9, Book 2 of the EIS.

**Attachment I.3- Assessment of Impact of Sewage Discharge**

Not Applicable

**Attachment I.4- Assessment of impact of ground/groundwater emissions**

Refer to Sections 8 and 9, Book 2 of the EIS.

**Attachment I.5- Ground and/or groundwater contamination**

Refer to Section 9, Book 2 of the EIS.

**Attachment I.6- Noise Impacts**

Refer to Section 12, Book 2 of the EIS.

**Attachment I.7- Assessment of Ecological Impacts & Mitigation Measures**

Refer to Sections 6 and 7, Book 2 of the EIS.

**ATTACHMENT J: ACCIDENT PREVENTION & EMERGENCY RESPONSE**

Accident prevention and emergency response procedures are outlined in Appendix 18.1, Book 3 of the EIS.

Any accidents and other emergencies will be handled by on-site personnel in accordance with Bord na Móna emergency response procedures. Emergency response contact numbers for the relevant authorities including the Fire Service, Gardai, or Ambulance Services are also prominently posted on-site. All site operatives and contractor employees will be regularly trained in emergency response procedures and in fire prevention and control. Supervisors will also be trained in First Aid.

Site safety procedures will be adopted to protect any persons from injury on-site. Should injury occur, the site operative will be the first to administer assistance. Emergency and first-aid materials will be available in the site buildings. Emergency and first-aid procedures will also be prominently displayed in the site buildings, adjacent to the peat reception area and adjacent to the surface water settlement ponds.

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**ATTACHMENT K: REMEDIATION, DECOMMISSIONING,  
RESTORATION & AFTERCARE**

Refer to Sections 2.10 and 2.11, Book 2 of the EIS for details of physical infrastructure. The rehabilitation plan for the Srahmore Peat Deposition site as part of the current waste licence is included in Appendix 1.2, Book 3 of the EIS.

In the impact and mitigation of each section of the EIS, remediation, decommissioning, restoration and aftercare for all environmental criteria are discussed.

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## ATTACHMENT L: STATUTORY REQUIREMENTS

### Attachment L. 1 and L2-Section 40(4) WMA

The activity will be carried out in such a manner so as to comply with environmental standards and legislation and will be carried out by a fit and proper operator; Bord na Móna, as per paragraphs (a) to (i) of Section 40 (4) of the Act;

All site activities will be carried out without the contravention of emission limits values, environmental standards and any enactments.

Activities at the Srahmore Peat Deposition site will be carried out in line with any permitted licence conditions and therefore will not cause environmental pollution.

Best available techniques will be used to prevent or eliminate or, where that is not practicable to limit, abate or reduce an emission from all site activities.

The activity concerned is consistent with the objectives of the Connaught Waste Management Plan 2006-2011 and will not prejudice measures taken or to be taken by the relevant local authority or authorities for the purpose of the implementation of this plan.

Neither the operator, Bord na Móna, nor any of its personnel has been convicted of an offence under the Act.

Any person employed to direct or control the carrying on of the activity to which this waste licence relates has and will have the requisite technical knowledge or qualifications to carry on that activity in accordance with the licence and the other requirements of the Act.

As demonstrated in the financial statements (Appendix 5 of these attachments), Bord na Móna is in a position to meet any financial commitments or liabilities that the agency reasonably considers will be entered into or incurred by it in carrying on the activity to which this waste licence will relate in accordance with the terms thereof or in consequence of ceasing to carry on that activity.

Condition 12.3.1 of the current licence requires Bord na Móna to arrange for the completion, by an independent and appropriately qualified consultant, of an Environmental Liabilities Risk Assessment (ELRA). This ELRA was submitted to the EPA in March 2005. In this ELRA Bord na Móna have made financial provision to cover arisings from the carrying out the activities to which the licence relates. The estimated environmental liability exposure was estimated at €5.5 million. This figure was reviewed annually in accordance with condition 12.3.3 of the current licence.



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Based on the experience of peat deposition during the period of operation between 2005 and 2007, the experience of the success of the rehabilitation to date post deposition and the results of the environmental monitoring, performance and compliance as reported in 2005, 2006, 2007 & 2008 AER's, the Environmental Liabilities Insurance cover is considered to be adequate.

Bord na Móna is committed to the operation of the facility such that energy will be used efficiently in the carrying on of the activities on site.

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 2002.

All necessary measures will be taken to prevent accidents in the carrying on of the activity and, where an accident occurs, its consequences for the environment will be limited.

Details of the technical knowledge and qualifications are provided in Section C.1 of this application.

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