

## 17. SCHEDULE OF MITIGATION & MONITORING MEASURES

### 17.1 Introduction

All control measures that have been implemented at the Application Site from 1935 at the onset of site preparation for industrial peat extraction, up to July 1988, control and monitoring measures implemented from July 1988 to the cessation of peat extraction in June of 2020, control and monitoring measures implemented during the management of the Application Site since June 2020 and the mitigation measures proposed for the activities intended to be carried out at the Application Site into the future are set out in the relevant chapters of this rEiAR.

All control and mitigation measures for the Project are presented in Table 17-1 below. The measures have been grouped together according to the relevant Phase of the Project. The Project formed part of an overall development at the Application Site which commenced many years prior to July 1988. For completeness, measures undertaken from 1935 at the onset of preparation works up to July 1988 are also presented below in Table 17-1.

As such the measures are grouped under the following headings:

- **Pre-July 1988:** activities employed at the Application Site from 1935 at the onset of preparation works up to July 1988, as described in Section 4.3 in Chapter 4: Project Description.
- **Peat Extraction Phase:** peat extraction and ancillary activities at the Application Site from July 1988 to the cessation of peat extraction in June of 2020 (July 1988 – June 2020, as described in Sections 4.4 to Section 4.7 in Chapter 4: Project Description
- **Current Phase:** the management of the Application Site since June 2020 (June 2020 to present) as described in Section 4.8 in Chapter 4: Project Description
- **Remedial Phase:** the activities intended to be carried out at the Application Site into the future, as described in Section 4.9 in Chapter 4: Project Description.

Table 17-1 Historical and Current Control Measures, and Proposed Mitigation Measures at the Application Site

| Pre July-1988                                                                                                                                                                                   |                         |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                     |
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| Control Measures Pre-July 1988 as per Section 4.3.6 in Chapter 4: Project Description of the rEIAR                                                                                              |                         |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                     |
| Measure                                                                                                                                                                                         | Location in rEIAR       | Receptor                                                                                  | Control Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Impact                                                                                                                                              |
| <b>Emissions Control (dust, noise, water, silt run off)</b>                                                                                                                                     | Section 4.3.6 Chapter 4 | Surface and ground water, Residential receptors, Habitats, aquatic species, Traffic users | <b>Peat Extraction Machinery – maintenance programmes and storage</b> <ol style="list-style-type: none"> <li>1. All peat extraction machinery listed were stored at the nearest Works or in a local holding area at the end of the workday;</li> <li>2. All machinery was regularly inspected, serviced and maintained;</li> <li>3. All machinery was regularly cleaned via power steam wash system at a wash bay which drained into a fuel/oil interceptor unit and associated gravel soak pit. The interceptor unit facilitated the removal of any oil/grease components. This was done to minimise dust and particle release; and,</li> <li>4. A self-contained machine parts washer was located in the workshop at the Ballydermot Works.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Containment of dust, surface and groundwater emissions, traffic disruption/soiled roads, Minimisation of fuel leak/groundwater contamination        |
| <b>Emissions Control (dust, noise, water, silt run off)</b><br><b>Fire Prevention</b><br><b>Health and Safety</b><br><b>Terrestrial Habitat protection</b><br><b>Aquatic habitat protection</b> | Section 4.3.6 Chapter 4 | Surface and ground water, Residential receptors, Habitats, aquatic species                | <b>Refuelling Facilities</b><br>As discussed above, refuelling and maintenance of all vehicles were undertaken at the Ballydermot Works. When machinery required refuelling on the Application Site, it was carried out by a mobile (rail or tractor-transported) fuelling unit which travelled out from Ballydermot Works to the bogs where the machinery was located. The following emergency action procedure was implemented at the Application Site prior to IPC licencing (pre-2000) and was recorded as part of the IPC Licence application process: <ol style="list-style-type: none"> <li>1. When a spill occurred, the General Manager was immediately informed of the incident;</li> <li>2. The spill was required to be assessed by the General Manager for potential risk to the health and safety of employees and the potential environmental consequences;</li> <li>3. If there was a risk of explosion, all personnel were required to be evacuated from the area;</li> <li>4. The spill was sourced, isolated and contained with polystyrene booms or dry peat (moisture content of 10%);</li> <li>5. All efforts were made to prevent the spill from entering a storm drain or nearest outfall;</li> </ol> | Containment of dust, surface and groundwater emissions, traffic disruption/soiled roads,<br><br>Minimisation of fuel leak/groundwater contamination |

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|                                                                                                                                                                                                           |                            |                                                                                                                  | <ol style="list-style-type: none"> <li>Once the spill had been contained, a suitable absorbent (e.g., dry peat) was to be used to soak the spillage;</li> <li>All possible ignition sources such as electrical equipment, naked lights, machinery were removed from the area. Any combustibles in the spill area were removed;</li> <li>Follow up action measures taken includes the implementation of appropriate remedial work to prevent such a spillage recurring in the future; and,</li> <li>In the event of a significant spillage, the General Manager was required to notify the local authority.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                             |
| <b>Emissions Control</b><br><b>(dust, noise, water, silt run off)</b><br><b>Fire Prevention</b><br><b>Health and Safety</b><br><b>Terrestrial Habitat protection</b><br><b>Aquatic habitat protection</b> | Section 4.3.6<br>Chapter 4 | Surface and ground water,<br>Residential receptors,<br>Habitats,<br>aquatic species<br>Bord na Móna<br>Employees | <b>Fire Safety</b><br>With respect to Fire Safety, the following emergency action procedure was implemented at the Application Site prior to IPC Licencing (i.e., pre-2000): <ol style="list-style-type: none"> <li>Annual training provided for bog fires crew and factory personnel and all general staff was provided with a minimum of two hours training in fire prevention;</li> <li>All fire exits were designated. These doors were required to be fitted with push-bar mechanisms only and lighted from independent sources. They were required to be unobstructed inside and outside at all times, and open outwards;</li> <li>Each canteen/office were required to be equipped with a fire blanket and fire extinguisher;</li> <li>There were required to be at least one fire point at all office premises;</li> <li>Petrol and other oils were required to be stored in designated oil stores;</li> <li>Batteries were not charged in working areas unless suitable protection was provided;</li> <li>Training was provided for oxygen cylinder storage and use;</li> <li>Fire Wagons: Designated rail wagons were provided for fire prevention which contained: hoses, shovels, fire beaters, baskets, buckets, breathing apparatus, first aid kit, drums of foam and foam making machine, extinguishers etc.</li> <li>Stockpiles were covered with polythene film gauge sheets and secured in position by spreading an even layer of high moisture content milled peat. This prevented spontaneous combustion of certain peat types by excluding air as much as possible; and,</li> <li>Fire Safety Audits were undertaken at six monthly intervals along with random audits. Yearly assessments were undertaken of all audits completed.</li> </ol> | Prevention/minimisation of environmental impacts by dust and pollutant release to air<br>Prevention/minimisation of environmental impacts dust and pollutant release to surface waters<br>Prevention/minimisation of impacts to human health by personal injury<br>Prevention/minimisation of impacts to human health from dust and air pollutant emissions |

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| <b>Emissions Control (dust, noise, water, silt run off)</b><br><b>Health and Safety</b><br><b>Terrestrial Habitat protection</b><br><b>Aquatic habitat protection</b>                           | Section 4.3.6<br>Chapter 4 | Surface and ground water,<br>Residential receptors,<br>Habitats,<br>aquatic species             | <b>Dust management at Bog Boundaries and Headlands</b><br>Dust emissions were higher from the milled peat extraction process than the sod peat extraction process. Tree cover along the fringes of bogs minimised the amount of dust that would travel off-site. In 1976 BnM established a policy to preserve the vegetation and tree cover on all bog fringes and on any mineral islands (Brown Gold 'A History of Bord na Móna and the Irish Peat Industry', 2010 Clarke, Donal, Chapter 10 Pg 206). In addition, the following measures were undertaken at a minimum to minimise dust emissions and later expanded under IPC Licence:<br><ol style="list-style-type: none"> <li>1. Stockpiles were compacted on either side by large rollers drawn by 65H.P tractors;</li> <li>2. Stockpiles were covered with polythene film gauge sheets and secured in position by spreading an even layer of high moisture content milled peat;</li> <li>3. Avoid extraction during windy weather;</li> <li>4. Keep headlands clean and remove loose peat;</li> <li>5. Drive slow along dusty headlands; and,</li> <li>6. Clean all road crossings.</li> </ol> | Prevention/minimisation of environmental impacts by dust and pollutant release to air<br>Prevention/minimisation of environmental impacts dust and pollutant release to surface waters<br>Prevention/minimisation of impacts to human health from dust and air pollutant emissions |
| <b>Emissions Control (dust, noise, water, silt run off)</b><br><b>Fire Prevention</b><br><b>Health and Safety</b><br><b>Terrestrial Habitat protection</b><br><b>Aquatic habitat protection</b> | Section 4.3.6<br>Chapter 4 | Surface and ground water<br>Bord na Móna<br>Employees<br>Residential receptors<br>Traffic users | <b>Internal rail network maintenance</b><br>Railway tracks and railway locomotives underwent continuous inspection and maintenance to prevent derailments, fires, accidents and fuel leaks. The locomotives were fitted with beam lighting, electric windscreen wipers and driving mirrors for both directions of travel. Wagons were also designated as fire safety wagons and were stocked with various fire safety paraphernalia including hoses, buckets, breathing apparatus, first aid kit, drums of foam and foam making machine, extinguishers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Containment of dust, surface and groundwater emissions<br>Minimisation of fuel leak/groundwater contamination<br>Prevention/minimisation of environmental impacts and human health impacts by fire, dust and pollutant release to air                                              |
| <b>Emissions Control (dust, noise, water, silt run off)</b><br><b>Health and Safety</b><br><b>Terrestrial Habitat protection</b>                                                                | Section 4.3.6<br>Chapter 4 | Surface water<br>Habitats,<br>aquatic species<br>Residential receptors                          | <b>Surface Water Management</b><br><ol style="list-style-type: none"> <li>1. Onsite water emission from workshop and hard standing areas drained via onsite surface water drainage systems implemented as part of building and hardstand construction over the decades, into adjacent peatlands surface water drainage network; and,</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Containment of dust, surface and groundwater emissions<br>Minimisation of fuel leak/groundwater contamination                                                                                                                                                                      |

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| Aquatic habitat protection                                                                                                                |                                                                                   |                                                  | <ol style="list-style-type: none"> <li>All machinery were regularly inspected, serviced. All machinery was regularly cleaned via power steam wash system at a wash bay and drained into an interceptor tank and associated gravel soak pit. The interceptor unit facilitated the removal of any floatable oil/grease components. This was done to minimise dust and particle release.</li> </ol>                                                                                                                                                                                                                                                                                                                          |                                                                                                               |
| Emissions Control (dust, noise, water, silt run off)<br>Health and Safety<br>Terrestrial Habitat protection<br>Aquatic habitat protection | Section 4.3.6<br>Chapter 4<br>Appendix 4-7<br>Silt Committee Meeting records 1984 | Surface water Habitats, aquatic species/habitats | <p>Maintenance Programme for Internal Drains</p> <ol style="list-style-type: none"> <li>Internal drains cleaned on a regular basis in suitable weather, mainly prior to and post the peat extraction season (i.e. between October and March). This was necessary to remove sludge from the bottom of milled peat field ditches and dispose of it by spreading it on the adjacent field.</li> <li>Drain maintenance was carried out using ditchers.</li> <li>These works were programmed to ensure that the drainage servicing the peat extraction areas were fit for purpose.</li> <li>Drain maintenance was carried out mainly prior to and post the peat extraction season (i.e. between October and March).</li> </ol> | Containment/minimisation silt run off                                                                         |
| Emissions Control (dust, noise, water, silt run off)<br>Health and Safety<br>Terrestrial Habitat protection<br>Aquatic habitat protection | Section 4.3.6<br>Chapter 4                                                        | Surface water Habitats, aquatic species/habitats | <p><b>Maintenance Proof Onsite Surface Water Pumps</b></p> <p>The following procedure was followed with respect to ensuring that the onsite pumps were maintained in good working order:</p> <ol style="list-style-type: none"> <li>Visual inspection of pumps daily;</li> <li>Operational check of pumps biweekly; and,</li> <li>Service of pumps monthly.</li> </ol>                                                                                                                                                                                                                                                                                                                                                    | Containment of dust, surface and groundwater emissions<br>Minimisation of fuel leak/groundwater contamination |
| Emissions Control (dust, noise, water, silt run off)<br>Health and Safety<br>Terrestrial Habitat protection                               | Section 4.3.6<br>Chapter 4<br>Appendix 4-7<br>Silt Committee Meeting records 1984 | Surface water Habitats, aquatic species/habitats | <p><b>Silt Management</b></p> <ol style="list-style-type: none"> <li>Provision of silt ponds should be a basic feature of new bog development for milled peat and their construction should be planned for all outlet systems.</li> <li>Ideally, silt ponds should be located in cutaway bog.</li> <li>Sufficient area should be acquired at the initial stage to provide for silt ponds.</li> <li>In production bogs, existing large catchments should be broken up into manageable proportions and ponds constructed to accord with local topography.</li> </ol>                                                                                                                                                        | Containment/minimisation silt run off                                                                         |

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| Aquatic habitat protection                                                                                                                                                      |                                                                                       |                                                                                          | <ol style="list-style-type: none"> <li>5. Revision of drainage techniques should be considered such as arranging flatter gradients in external and internal outfalls and extending their width and length in the lower reaches to encourage settlement of silt.</li> <li>6. Initial drainage effluent should be allowed to spill over face banks (where practicable) until adequate silt ponds have been provided. This should be applied to all new bog development immediately. Similarly, growth and vegetation should not be removed from external outfalls until interference with drainage and/or complaints force us [Bord na Móna] to act.</li> <li>7. It is recommended that catchments to be protected by silt ponds should not be greater than 500 acres.</li> <li>8. Ponds should be designed for maximum run-off of 1 cubic foot per minute per acre and run-off controlled by provision of small diameter culverts, weirs or sluices.</li> <li>9. For milled peat, 50 square foot of pond per acre of catchment. For 500 acres, 45-foot wide x 555-foot long x 7-foot deep, i.e., 6-foot maximum of silt and 1 foot minimum of water.</li> <li>10. Ponds should be provided in pairs each sufficient for the catchment protected.</li> <li>11. Ponds should be cleaned out at regular intervals as required but at least four times a year using dragline or Hymac retained permanently for this purpose. Investigations to be made into the suitability of pumping units.</li> <li>12. Second parallel pond should be used during excessively large water flow (storm water).</li> <li>13. The problem of discharging into the Clodiagh River at Monettia [County Offaly] has become difficult in view of ESBs requirement that the entire river be kept free of silt. Silt ponds will be essential, and provision should be made in their layout to allow for further extension of the ponds if decantation needs to be improved further.</li> </ol> |                                                                                                                                                                            |
| <b>Emissions Control</b><br><b>(dust, noise, water, silt run off)</b><br><b>Health and Safety</b><br><b>Terrestrial Habitat protection</b><br><b>Aquatic habitat protection</b> | Section 4.3.6<br>Chapter 4<br><br>Appendix 4-7<br>Silt Committee Meeting records 1984 | Surface and ground water, Residential receptors, Employees, Bog Habitats Aquatic species | <b>Waste Management</b> <ol style="list-style-type: none"> <li>1. Waste oils and brake fluids drained from machinery during servicing were collected in drums and emptied to a designated waste oil storage tank;</li> <li>2. Waste oil storage tank contents were transported off-site by a licenced waste disposal contractor;</li> <li>3. Oil and fuel filters were changed at vehicle service intervals;</li> <li>4. Spent filters were collected and disposed of by a licensed waste disposal contractor;</li> <li>5. Used batteries were collected by licensed battery collection contractor;</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Containment of dust, surface and groundwater emissions,<br>Minimisation of fuel leak/groundwater contamination<br><br>Prevention/minimisation of environmental impacts and |

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|                                    |                            |                                   | <ol style="list-style-type: none"> <li>6. Off-washings from the self-contained machine parts washer were collected within a sludge tank at the workshops;</li> <li>7. Anti-freeze was either evaporated or drained into an appropriate container if a machine breaks down on the bog and the coolant system needs to be drained. An appropriate waste contractor removed the anti-freeze waste from site.</li> <li>8. Ash from the onsite boiler was stored in a skip onsite and collected by a licenced waste contractor and taken to a landfill for disposal;</li> <li>9. Waste polythene removed from stockpiles was collected at the roadside by a plastic recycling company; and,</li> <li>10. Workshop waste and general refuse from canteens/offices were historically burned on site or disposed of into waste disposal areas at the workshops. This practise changed to the use of skips which were then collected by licenced waste contractors.</li> </ol> | human health impacts by fire, dust and pollutant release to air                                                                                                             |
| <b>Archaeological Preservation</b> | Section 4.3.6<br>Chapter 4 | Unrecorded subsurface Archaeology | <b>Archaeological Disturbance</b> <ol style="list-style-type: none"> <li>1. As part of peat processing training, all bog employees must read and adhere to the recommendations 'Ancient Objects in Irish Bogs and Farmlands: A Guide for Finders' Department of Education 1942; and,</li> <li>2. All bog workers must stop all works and report to the Bog Manager if archaeological finds are encountered. If materials thought to be of archaeological interest are encountered, the Bog Manager must report the findings to the Garda Síochána within 7 days who will then contact the Commissioner of Public Works.</li> </ol>                                                                                                                                                                                                                                                                                                                                    | Minimisation/prevention of subsurface archaeological destruction, loss or interference through drainage and extraction operations and/or failure to recognise/report finds. |

| Peat Extraction Phase (July 1988 – June 2020)                                                                                                                                                   |                                                                                                                                         |                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Control Measures July 1988 to June 2000 as per Section 4.7 in Chapter 4: Project Description of the rEIAR                                                                                       |                                                                                                                                         |                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Discipline                                                                                                                                                                                      | Location in rEIAR                                                                                                                       | Receptor                                                                                                                                                        | Control Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Impact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Emissions Control (dust, noise, water, silt run off)</b><br><b>Fire Prevention</b><br><b>Health and Safety</b><br><b>Terrestrial Habitat protection</b><br><b>Aquatic habitat protection</b> | Section 4.6.5 in Chapter 4<br>Appendix 4-7<br>Silt Committee Meeting records 1984<br>Appendix 4-9<br>Harkins Report<br>Chapters 4 to 15 | Surface and ground water,<br>Residential receptors,<br>Habitats, aquatic species,<br>Traffic users<br>BnM<br>Employees<br>Residential receptors<br>Bog Habitats | Post- July 1988, but prior to the implementation of the IPC Licence at the Application Site in 2000, the environmental management measures remained in place across the Application Site.<br><br>In addition, as evidenced in the 1991 Harkins Report (see Appendix 4.9), silt control measures in the form of silt ponds were in place prior to 1988, with BnM carrying out further studies and surveys throughout the 1980s and 1990s to improve silt pond design and use such that suspended solids emissions in surface run-off were reduced. This included the construction of new ponds to maintain treatment of run-off while cleaning of existing ponds was in progress. | Containment of dust, surface and groundwater emissions, traffic disruption/soiled roads, silt run off<br>Minimisation of fuel leak/groundwater contamination<br>Prevention/minimisation of environmental impacts by dust and pollutant release to air<br>Prevention/minimisation of environmental impacts dust and pollutant release to surface waters<br>Prevention/minimisation of impacts to human health by personal injury<br>Prevention/minimisation of impacts to human health from dust and air pollutant emissions<br>Prevention/minimisation of environmental impacts and human health impacts by |

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| <b>Archaeological Preservation</b> | Section 4.6.5 in Chapter 4<br>Chapter 13<br>Appendix 13-4<br>Bord na Móna Code of Practice | Unrecorded subsurface Archaeology | <p><b>Archaeological Code of Practice</b></p> <p>BnM has a long history of co-operation with the National Museum of Ireland, the National Monuments Service and the relevant governmental departments overseeing heritage at the time, in relation to the cultural and archaeological importance of wetlands as well as the potential for, and handling of, archaeology discovered in bogs. After the discovery and subsequent preservation of trackways at Corlea Bog, Co. Longford by BnM employees in the 1980s, a new programme for peatland archaeology was established. Since 1991 an annual programme of archaeological survey, initially funded by the National Monuments Service, has been conducted in BnM Bogs, with the results being forwarded for inclusion in the Sites and Monuments Record.</p> <p>Since 1998, BnM has a statutory duty under the Turf Development Act 1998 (Section 56) to afford appropriate protection for the environment and the archaeological heritage.</p> <p><i>Section 56.- The Company and each subsidiary shall ensure that its activities are so conducted as to afford appropriate protection for the environment and the archaeological heritage.</i></p> <p>The 1998 Act was in accord with the development of an <i>Agreed Principles for the Protection of Wetlands Archaeology in Bord na Móna Bogs</i> (1998) between the Minister for Arts, Heritage and the Gaeltacht, the National Museum of Ireland and BnM. The Agreed Principles set out 10 standards within which archaeology in the BnM peatlands were managed. Five Archaeological Liaison Officers were spread across the BnM Bog Groups and received training on how to deal with and report finds. Since 1998, all archaeological surveys were funded by BnM. The surveys have been accompanied by an annual programme of selective archaeological excavation and paleo-environmental analysis. By 2013, 64,000 of the ca. 80,000-hectare land holdings of BnM had been subject to archaeological survey.<sup>1</sup></p> <p>A Code of Practice between the Department of Arts, Heritage and the Gaeltacht, the National Museum of Ireland and BnM was established in 2012.<sup>2</sup> This Code superseded the</p> | Minimisation/ prevention of subsurface archaeological destruction, loss or interference through peat extraction and ancillary activities and/ or failure to recognise/ report finds. |

<sup>1</sup> Department of the Arts, Heritage and the Gaeltacht 2013 Review of Archaeological Survey and Mitigation Policy relating to Bord na Móna Peatlands since 1990.  
<https://www.archaeology.ie/sites/default/files/media/pdf/bnm-peatland-review-final-report-20-06-2013.pdf>

<sup>2</sup> 2012 Code of Practice between the Department of Arts, Heritage and the Gaeltacht, the National Museum of Ireland

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|  |  |  | <p>Agreed Principles. The Code provided a framework within existing legislation, policy and practice to enable BnM to progress with peat extraction activities and all ancillary works and simultaneously ensure archaeological control measures is in place. The measures BnM are responsible for are listed below:</p> <p><i>BnM will;</i></p> <ol style="list-style-type: none"> <li><i>1. Engage a Project Archaeologist.</i></li> <li><i>2. Maintain the network of Archaeological Liaison Officers.</i></li> <li><i>3. Disseminate a set of Archaeological Protection Procedures</i></li> <li><i>4. Ensure that any monuments or archaeological objects discovered during peat extraction are protected in an appropriate manner by following the Archaeological Protection Procedures.</i></li> <li><i>5. Ensure that any newly discovered monuments on Bord na Móna lands are reported in a timely manner to the National Monuments Service of the Department of Arts, Heritage and the Gaeltacht.</i></li> <li><i>6. Ensure that any archaeological objects discovered on Bord na Móna lands are reported immediately to the Duty Officer of the National Museum of Ireland.</i></li> <li><i>7. Prioritise monuments for investigation taking account of monument vulnerability, contractual obligations and peat production targets.</i></li> <li><i>8. Prepare tenders for archaeological mitigation of impacts on monuments, to include excavation and recording, in consultation with the Project Archaeologist and the Minister.</i></li> <li><i>9. Engage professional Consultant Archaeologists to carry out mitigation of monuments, including the required palaeo-environmental assessment and post-excavation studies.</i></li> <li><i>10. Provide the necessary finance to fulfil the post-excavation requirements of the Minister and the Director including the conservation of archaeological objects and the provision of scientific analyses and dating, as well as the production of reports on all archaeological work, to a standard which will meet the approval of the Minister.</i></li> </ol> |  |
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| Peat Extraction Phase (July 1988 – June 2020)                                                                                                                                              |                                                                                 |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Control Measures 2000 to Present-Day (Post IPC Licence) as per Section 4.7 in Chapter 4: Project Description of the rEIAR                                                                  |                                                                                 |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Measure                                                                                                                                                                                    | Location in rEIAR                                                               | Receptor                 | Control Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Impact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Emissions to Atmosphere</b><br><b>Emissions to Water</b><br><b>Waste Management</b><br><b>Noise</b><br><b>Water Protection</b><br><b>Decommissioning and Cutaway Bog Rehabilitation</b> | Chapter 4, Section 4.7<br>Chapters 4–15<br>Appendix 4-1<br>IPC Licence P0503-01 | Environmental Monitoring | <p><b>Environmental Monitoring and Conditions under IPC Licence</b></p> <p>BnM was granted an IPC Licence (Reg. No. P0503-01) for the Allen Bog Group (within which the Application Site is located) in May 2000. Following the grant of the IPC Licence, the control measures have been updated and expanded. A copy of the IPC Licence is provided in Appendix 4-1. The IPC Licence application is publicly available and can be viewed on request at EPA Headquarters PO Box 3000 Johnstown Castle Estate County Wexford Y35 W821.</p> <p>Following the grant of the IPC Licence in 2000, BnM staff underwent an EPA IPC Licence Compliance training programme, which resulted in the development of an environmental management system. This system addresses emissions to water and air, noise, vibration and odour emissions, waste management, use of natural resources, visual effects and the natural environment and ecosystem. Please see Appendix 4-5 for the BnM IPC Licence Compliance training programme.</p> <p>The conditions of the IPC Licence are intended for the protection of the environment and apply from the time of grant of the IPC Licence. The EPA has undertaken Technical Amendments of the IPC Licence for the purpose of aligning the conditions of the IPC Licence to the objectives of national and European environmental protection legislation enacted over the lifetime of the IPC Licence. In September 2012, the IPC Licence was subject to a Technical Amendment for the purpose of aligning with the European Communities Environmental Objectives (Surface Water) Regulations, 2009 and it now contains an objective to ‘maintain’ or ‘restore’ the water surface water quality to the defined ‘Good Status’. With the implementation of conditions listed in the IPC Licence, the potential environmental effects of peat extraction activities and all ancillary works on water quality (such as the release of elevated concentrations of suspended sediments, and by association on aquatic ecosystems and protected species), have and continue to reduce through the implementation of IPC Licence conditions. Please see Chapter 8: Hydrology and Hydrogeology of this rEIAR and the Annual Environmental Reports (AER) included as Appendix 4-3 for details.</p> | Containment of dust, surface and groundwater emissions, traffic disruption/soiled roads, silt run off<br>Minimisation of fuel leak/groundwater contamination<br>Prevention/minimisation of environmental impacts by dust and pollutant release to air<br>Prevention/minimisation of environmental impacts dust and pollutant release to surface waters<br>Prevention/minimisation of impacts to human health from dust and air pollutant emissions<br>Prevention/minimisation of environmental impacts and human health impacts by fire, dust and pollutant release to air |

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|  |  | <p>The IPC Licence is subject to 14. no conditions pertaining to the ongoing monitoring and maintenance to ensure any emissions from site activities will comply with and not contravene, any of the requirements of Section 83(3) of the Environmental Protection Agency Act, 1992 outlined below:</p> <p><i>i. (3) The Agency shall not grant a licence or revised licence for an activity unless it is satisfied that –</i></p> <ul style="list-style-type: none"> <li><i>a. any emissions from the activity will not result in the contravention of any relevant air quality standard specified under section 50 of the Air Pollution Act, 1987, and will comply with any relevant emission limit value specified under section 51 of the Air Pollution Act, 1987,</i></li> <li><i>b. any emissions from the activity will comply with, or will not result in the contravention of, any relevant quality standard for waters, trade effluents and sewage effluents and standards in relation to treatment of such effluents prescribed under section 26 of the Local Government (Water Pollution) Act, 1977,</i></li> <li><i>c. any emissions from the activity or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of, any relevant standard including any standard for an environmental medium prescribed under regulations made under the European Communities Act, 1972, or under any other enactment,</i></li> <li><i>d. any noise from the activity will comply with, or will not result in the contravention of, any regulations under section 106,</i></li> <li><i>e. any emissions from the activity will not cause significant environmental pollution, and</i></li> <li><i>f. 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,</i></li> </ul> <p><i>and, where appropriate, the Agency shall attach conditions relating to the matters specified in the foregoing paragraphs to the licence or revised licence.</i></p> <p>Conditions 1 to 4 of the IPC Licence outlined the Scope, Management, Interpretation and Notification procedures required by Bord na Móna Biomass Ltd (the Applicant),</p> |  |
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|  |  | <p>respectively. Conditions 11 to 14 detail the Monitoring (equipment use), Recording and Reporting, Emergency Response and Financial Provisions duties of the Applicant.</p> <p>Conditions 5 to 10 pertain to environmental monitoring and management:</p> <ul style="list-style-type: none"> <li>➤ Condition 5 Emissions to Atmosphere</li> <li>➤ Condition 6 Emissions to Water</li> <li>➤ Condition 7 Waste Management</li> <li>➤ Condition 8 Noise</li> <li>➤ Condition 9 Water Protection</li> <li>➤ Condition 10 Cutaway Bog Rehabilitation</li> </ul> <p>In compliance with Condition 5, the Applicant must undertake annual tests on boiler combustion efficiency and dust monitoring. Please see Chapter 9: Air Quality for further details. Condition 6 ensures the Applicant establishes a surface water discharge monitoring programme which is reviewed annually, and a report submitted to the EPA quarterly. The Applicant is also required to submit water sample results annually, implement and maintain silt ponds. Condition 9 pertains to the 'Water Protection' and outlines the daily, weekly, monthly, quarterly, and annual inspections BnM must carry out to provide for the protection of surface and groundwater. There are currently silt pond inspections and maintenance including quarterly grab sampling ongoing at the Application Site. Please see Chapter 8: Hydrology and Hydrogeology for further details. Condition 7 compels the Applicant to correctly dispose of waste to licenced facilities. Please see Chapter 14 Material Assets for details. Condition 8 ensures that any on site activities do not give rise to noise exceedances at noise sensitive locations. Please see Chapter 11 Noise and Vibration for further details. Condition 10 pertains to site decommissioning followed by peatland rehabilitation which details the Remedial Phase, and Chapter 6: Biodiversity (including Ornithology). It is the intention of the of the Applicant to continue implementing and practising the monitoring measures as listed in the Licence after the site is decommissioned, where applicable.</p> <p><b>Standard Operation Procedures</b></p> <p>To facilitate the production of AERs, BnM produced an Environmental and Operational Procedures for Protection of Surface Water document which comprises a suite of Standard Operation Procedures (SOPs) which have the overall aim of promoting and maintaining environmental integrity throughout all BnM activities. The document includes SOPs for drainage planning and implementation, silt pond and outfall maintenance, waste</p> |  |
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|                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                        |                                                                                                          | management, peat extraction methods, and general bog housekeeping. The SOPs also set out emergency preparedness and response procedures, how to deal with complains, effective communication with BnM operatives, the local community and local authorities. Please see Appendix 4-11 Environmental and Operational Procedures for Protection of Surface Water for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                        |
| <b>Current Phase (June 2020 to Present Day)</b>                                                                                                                                                                                                                                                                          |                                                                                                                                                                                        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                        |
| Control Measures 2000 to Present-Day (Post IPC Licence) as above and as per Section 4.8 in Chapter 4: Project Description of the rEiAR have been and are currently implemented during the Current Phase. Please refer to the Section above and Appendix 4-1 for Control Measures 2000 to Present Day (Post IPC Licence). |                                                                                                                                                                                        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                        |
| <b>Decommissioning Process</b>                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                        |
| <b>Discipline</b>                                                                                                                                                                                                                                                                                                        | <b>Location in rEiAR</b>                                                                                                                                                               | <b>Receptor</b>                                                                                          | <b>Control Measure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Impact</b>                                                                                                                                                                                                                                                                                                          |
| <b>Emissions Control (dust, noise, water, silt run off)</b><br><b>Fire Prevention</b><br><b>Health and Safety</b><br><b>Terrestrial Habitat protection</b><br><b>Aquatic habitat protection</b>                                                                                                                          | Section 4.8.1 of Chapter 4<br><br>Chapters 4-15<br>Appendix 4-1<br>IPC Licence P0503-01<br>Appendix 4-2:<br>Draft Bord na Móna<br>Cutaway Bog Decommissioning and Rehabilitation Plans | Bog habitats, aquatic habitats, mammals, bird species, surface and groundwaters<br>Residential receptors | <p>In January 2021, BnM formally announced that peat extraction across all bogs within its landholding had ceased, although peat extraction at the Application Site had ceased prior to this in June 2020. The Application Site still operates under the requirements of IPC Licence P0503-01, and any decommissioning works undertaken with respect to peat extraction activities and all ancillary works are in accordance with Condition 10 of the IPC Licence, which states that:</p> <p><i>“10.1: Following termination of use or involvement of all or part of the site in the licensed activity, the licensee shall:</i></p> <p><i>10.1.1: Decommission, render safe or remove for disposal/recovery, any soil, subsoils, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution.”</i></p> <p>In compliance with Condition 10.1 of the IPC Licence, it is a requirement of the licensee to decommission the Application Site by removing/disposing/recovering buildings, equipment, waste etc. from the Application Site. The main criteria pertaining to successfully complying with this condition is ensuring that the Application Site is not causing or likely to cause environmental pollution and the site of the activity is in a satisfactory state such that licenced lands can be deemed suitable for surrender of the IPC License under Section 95 of the EPA Acts. This is achieved by BnM identifying and quantifying any mechanical and infrastructural resources that were installed in the bog to enable the development and extraction operation at the Application Site. This list is then refined to identify any items that</p> | Containment of dust, surface and groundwater emissions,<br>Minimisation of fuel leak/groundwater contamination<br>Prevention/minimisation of environmental impacts and human health impacts by fire, dust and pollutant release to air<br>Containment/minimisation of health impacts by noise and vibration emissions. |

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|  |  | <p>would be deemed as possibly resulting in environmental pollution, should they not be removed.</p> <p>Typically, these items/infrastructures would be any remaining, unconsolidated plant, equipment and attachments, waste materials, unused raw materials such as land drainage pipes, remaining peat stockpiles, stockpile covering, pumps, septic tanks and fuel tanks. Ongoing decommissioning at the Application Site included removal of peat stockpiles which was completed in October 2021, as well as decommissioning of other infrastructure ongoing and planned, outlined in Table 4-7. As outlined in Section 4.6.3, approximately 51km of permanent rail track was located within the Application Site boundary. To date all permanent rail has been decommissioned and removed from the Application Site.</p> <p><b>Future Ongoing and Completed Decommissioning Items for Application Site</b></p> <ol style="list-style-type: none"> <li>1. Clean-up of remaining or unconsolidated waste or materials located in Bogs, Yards, Buildings and Offices - Relevant to All Bogs</li> <li>2. Clean silt ponds - Relevant to Lodge, Barnaran, Blackriver, Ballydermot South, Codd 1, Codd 2, Glashabaun South, Glashabaun North, Ticknevin, Lullybeg and Lullymore Bogs</li> <li>3. Decommission peat stockpiles - Relevant to All Bogs - Completed October 2021</li> <li>4. Decommission or remove buildings and compounds - Relevant to Ballydermot North, Ballydermot South, Blackriver and Glashabaun North</li> <li>5. Decommission fuel tanks and associated facilities - Relevant to Ballydermot South and Killina Bogs.</li> <li>6. Decommission and removal of septic tanks - Relevant to Ballydermot South and Glashabaun North Bogs</li> <li>7. Decommissioning and removal of a number of existing bog pumps where suitable/necessary - Relevant to Ballydermot South, Codd 1, Glashabaun North, Ticknevin and Blackriver Bogs</li> </ol> <p><b>Waste Management</b></p> <p>In relation to waste management, Condition 7 of the IPC Licence requires these now defined waste items to be disposed of or recovered as follows:</p> |  |
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|  |  | <p><i>“Condition 7.1: Disposal or recovery of waste shall take place only as specified in Schedule 2(i) Hazardous Wastes for Disposal/Recovery and Schedule 2(ii) Other Wastes for Disposal/Recovery of this licence and in accordance with the appropriate National and European legislation and protocols. No other waste shall be disposed of/recovered either on-site or off-site without prior notice to, and prior written agreement of, the Agency.</i></p> <p><i>Condition 7.2: Waste sent off-site for recovery or disposal shall only be conveyed to a waste contractor, as agreed by the Agency, and only transported from the site of the activity to the site of recovery/disposal in a manner which will not adversely affect the environment.</i></p> <p><i>Condition 7.3: A full record, which shall be open to inspection by authorized persons of the Agency at all times, shall be kept by the licensee on matters relating to the waste management operations and practices at this site. This record shall as a minimum contain details of the following:</i></p> <ul style="list-style-type: none"> <li><i>➤ 7.3.1: The names of the agent and transporter of the waste.</i></li> <li><i>➤ 7.3.2: The name of the persons responsible for the ultimate disposal/recovery of the waste.</i></li> <li><i>➤ 7.3.3: The ultimate destination of the waste.</i></li> <li><i>➤ 7.3.4: Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.</i></li> <li><i>➤ 7.3.5: The tonnages and EWC Code for the waste materials listed in Schedule 2(i) Hazardous Wastes for Disposal/Recovery and Schedule 2(ii) Other Wastes for Disposal/Recovery sent off-site for disposal/recovery.</i></li> <li><i>➤ 7.3.6: Details of any rejected consignments.</i></li> </ul> <p><i>A copy of this Waste Management record shall be submitted to the Agency as part of the AER for the site.”</i></p> <p>As required by the IPC Licence, waste items are and will continue to be removed for recycling or disposal, using external contractors with the required waste collection permits, approved under Condition 7.2, and waste records are and will continue to be maintained as required under Condition 7.3.</p> <p>Where possible, BnM will target preferred waste treatment methods from the waste hierarchy to identify waste that can reused or recycled in lieu of recovery or disposal.</p> |  |
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|                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                   |                                                                                                          | The validation of the success of compliance with Condition 10.1 of the IPC Licence is carried out through an Independent Closure Audit (ICA) which is followed by an EPA Exit Audit (EA) and the eventual partial or full surrender of the IPC Licence.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                          |
| <b>Emissions Control (dust, noise, water, silt run off)</b><br><b>Fire Prevention</b><br><b>Health and Safety</b><br><b>Terrestrial Habitat protection</b><br><b>Aquatic habitat protection</b><br><b>Noise and Vibration emissions</b> | Section 4.8.2 of Chapter 4<br>Chapters 4-15<br>Appendix 4-1<br>IPC Licence P0503-01<br>Appendix 4-2: Draft Bord na Móna<br>Cutaway Bog Decommissioning and Rehabilitation Plans<br>Appendix 13-4<br>Bord na Móna Code of Practice | Bog habitats, aquatic habitats, mammals, bird species, surface and groundwaters<br>Residential receptors | <b>Peatland Rehabilitation Plans</b><br>Following the conclusion of the decommissioning activities, BnM are required under Condition 10.2 of the IPC Licence to prepare (to the satisfaction of the EPA) and implement, a Cutaway Bog Rehabilitation Plan. Condition 10.2 of the Licence states:<br><br><i>“Condition 10.2: Cutaway Bog Rehabilitation Plan:</i><br><br><i>10.2.1: The licensee shall prepare, to the satisfaction of the Agency, a fully detailed and costed plan for permanent rehabilitation of the cutaway boglands within the licensed area. This plan shall be submitted to the Agency for agreement within eighteen months of the date of grant of this licence.</i><br><br><i>10.2.2: The plan shall be reviewed every two years and proposed amendments thereto notified to the Agency for agreement as part of the AER. No amendments may be implemented without the written agreement of the Agency.</i><br><br><i>Condition 10.3: The Rehabilitation Plan shall include as a minimum, the following:</i><br><br><i>10.3.1: A scope statement for the plan, to include outcome of consultations with relevant Agencies, Authorities and affected parties (to be identified by the licensee).</i><br><br><i>10.3.2: The criteria which define the successful rehabilitation of the activity or part thereof, which ensures minimum impact to the environment.</i><br><br><i>10.3.3: A programme to achieve the stated criteria.</i><br><br><i>10.3.4: Where relevant, a test programme to demonstrate the successful implementation of the rehabilitation plan.</i> | Environmental stabilisation raised bog rehabilitation, and the development of active raised bog, where possible.<br><br>Enhance the ecosystem services of application in particular, optimising climate action benefits. |

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|  |  |  | <p><i>10.3.5: A programme for aftercare and maintenance.</i></p> <p><i>Condition 10.4: A final validation report to include a certificate of completion for the Rehabilitation Plan, for all or part of the site as necessary, shall be submitted to the Agency within six months of execution of the plan. The licensee shall carry out such tests, investigations or submit certification, as requested by the Agency, to confirm that there is no continuing risk to the environment.</i></p> <p><b><i>Reason: To make provision for the proper closure of the activity ensuring protection of the environment.”</i></b></p> <p>BnM have produced a Draft Cutaway Bog Decommissioning and Rehabilitation Plan for 10 of the bogs within the Application Site (i.e., Ballydermot, Blackriver, Barnaran, Killina, Lullymore, Lullybeg, Derrybrennan, Glashabaun, Codd and Ticknevin). The Draft Cutaway Bog Decommissioning and Rehabilitation Plans for Ballydermot North, Ballydermot South, Glashabaun North, Glashabaun South, Codd 1 and Codd 2 have been combined into the respective Ballydermot, Glashabaun and Codd Draft Cutaway Bog Decommissioning and Rehabilitation Plans. BnM have produced a Final Cutaway Bog Decommissioning and Rehabilitation Plan for Lodge Bog. Please see Appendix 4-2 for details. It is the intention of BnM to rehabilitate the bogs in a phased approach under the requirements of the IPC Licence.</p> <p>Decommissioning and rehabilitation plans have been developed from a combination of the following:</p> <ul style="list-style-type: none"> <li>➤ Experience of 40 years of research on the after-use development and rehabilitation of the Bord na Móna cutaway bogs (Clarke, 2010; Bord na Móna, 2016<sup>3</sup>);</li> <li>➤ Significant international engagement during this period with other countries in relation to best-practice regarding peatland rehabilitation and after-use through the</li> </ul> |  |
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<sup>3</sup> Bord na Móna. 2016. *Bord na Móna Biodiversity Action Plan 2016-2021*. Brosna Press, Ferbane. [BioDiversity Plan final artwork:Layout 1](#)

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|  |  |  | <p>International Peat Society and the Society for Ecological Restoration (Joosten &amp; Clarke, 2002; Clarke &amp; Rieley, 2010; Gann et al., 2019);</p> <ul style="list-style-type: none"> <li>➤ Ongoing consultation and engagement with internal and external stakeholders regarding rehabilitation, biodiversity and other general issues over the years about the Allen Bog Group;</li> <li>➤ Geographical Information System (GIS) Mapping;</li> <li>➤ BnM drainage surveys;</li> <li>➤ Bog topography and LIDAR data;</li> <li>➤ Previous research studies on the Application Site; and,</li> <li>➤ Hydrological modelling.</li> </ul> <p>The current plans also take cognisance of the EPA Guidance on the Process of Preparing and Implementing a Bog Rehabilitation Plan (2020). Each plan contains within a detailed ecological report and GIS mapping pack. The key objective of BnM peatland rehabilitation is environmental stabilisation. The rehabilitation of the bogs will support biodiversity e.g., plants, insects, bird and mammals, and the formation of wetland habitats. In addition, peatland rehabilitation will bring a range of benefits to the local community via improvements in the local landscape and it is also complying with national policies and strategies regarding the reduction of carbon emissions, supporting biodiversity and enhancing water quality. It is anticipated it will take up to 30 years for naturally functioning wetland and peatland ecosystems to fully re-establish.</p> <p>To inform the final rehabilitation plan for each bog, both national and local stakeholders, including neighbours whose land adjoins the relevant bog units and local representatives of national bodies (such as Regional National Parks and Wildlife Service staff) and relevant offices in County Councils (such as the Heritage or Environmental Offices) will be contacted. Any identified local interest groups will be sought and informed of the opportunity to engage with this rehabilitation plan, and when identified invited to submit their comments or observations in relation to the proposed rehabilitation. All correspondence received will be acknowledged and evaluated against the rehabilitation work proposed and the final draft of plans will contain a review of the consultation.</p> |  |
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|  |  |  | <p>Prior to the submission of the rehabilitation plans to the EPA for agreement, a baseline ecology survey will be carried out to determine the status of natural colonisation, the potential for targeted revegetation and/or rewetting and the future development at the Application Site to ensure stabilisation of the future cutaway.</p> <p>Rehabilitation measures at Lodge Bog within the Application Site commenced in 2022 and are now complete. From June 2022 to November 2022 there were 11 BnM employees working on the rehabilitation of Lodge Bog. This dropped to 4 people from mid-November 2022 to the end February 2023. There were 6 employees working on Lodge from March 2023 to mid-June 2023 with the majority of the rehabilitation completed at this stage. Occasional employees worked on Lodge Bog after this date however there was no significant employment after mid-June 2023. Table 4-8 outlines a high-level overview of the standard rehabilitation actions that were proposed to be completed at Lodge Bog in the Final Decommissioning and Rehabilitation Plan.</p> <p><b>Description of Works Required:</b></p> <ul style="list-style-type: none"> <li>➤ Lodge Bog - Additional Land - Minimal/targeted works required</li> <li>➤ Lodge Bog - Dry Cutaway - Blocking outfalls and managing water levels with overflow pipes</li> <li>➤ Lodge Bog – Deep Peat- Regular drain blocking (3/100 m) + blocking outfalls and managing water levels with overflow pipes</li> <li>➤ Lodge Bog - Wetlands - Turn off or reduce pumping to re-wet cutaway + blocking outfalls and managing water levels with overflow pipes</li> </ul> <p>Reporting to the EPA will continue until the IPC License is surrendered. The bog will be included in the full licence surrender process as per the Guidance to Licensees on Surrender, Cessation and Closure of Licensed Sites EPA, 2012, when:</p> <ul style="list-style-type: none"> <li>➤ The planned rehabilitation has been completed.</li> <li>➤ The water quality monitoring demonstrates that water quality of discharge is stabilising or improving.</li> </ul> |  |
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| Remedial Phase                                                                                                                                                                                                                                                          |                                                                                                                                                                                                        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Discipline                                                                                                                                                                                                                                                              | Location in rEIAR                                                                                                                                                                                      | Receptor                                                                                                 | Mitigation Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Impact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Emissions Control (dust, noise, water, silt run off)</b><br><b>Fire Prevention</b><br><b>Health and Safety</b><br><b>Terrestrial Habitat protection</b><br><b>Aquatic habitat protection</b><br><b>Noise and Vibration emissions</b><br><b>Traffic and Transport</b> | Chapters 4-15<br>Appendix 4-1<br>IPC Licence P0503-01<br>Appendix 4-2:<br>Draft Bord na Móna<br>Cutaway Bog Decommissioning and Rehabilitation Plans<br>Appendix 13-4<br>Bord na Móna Code of Practice | Bog habitats, aquatic habitats, mammals, bird species, surface and groundwaters<br>Residential receptors | <p>The Applicant has committed to continuing compliance with conditions outlined in the IPC Licence during the Remedial Phase, where applicable.</p> <p>Below is a summary of the specific control measures proposed for the Remedial Phase beyond that of compliance with the IPC Licence.</p> <p><b>Biodiversity</b></p> <ul style="list-style-type: none"> <li>➤ Bog rehabilitation measures will be restricted to within the footprint of the proposed rehabilitation area as outlined in the Draft Bord na Móna Cutaway Bog Decommissioning and Rehabilitation Plans.</li> <li>➤ Measures will be carried out using a suitably sized machine and, in all circumstances, excavation depths and volumes will be minimised where possible.</li> <li>➤ See control measures for Chapter 6: Biodiversity (including Ornithology) and Appendix 4-2 Draft Bord na Móna Cutaway Bog Decommissioning and Rehabilitation Plans.</li> </ul> <p><b>Land, Soils &amp; Geology</b></p> <p>The following environmental control measures will be implemented during the Remedial Phase in order to mitigate against leaks and spills:</p> <ul style="list-style-type: none"> <li>➤ All machinery will be regularly checked and maintained prior to arrival at the site;</li> <li>➤ Fuelling and lubrication of equipment will only be completed in designated areas and away from surface water features;</li> <li>➤ Vehicles will never be left unattended during refuelling;</li> <li>➤ All refuelling will occur in mobile fuel bowsers;</li> <li>➤ Only dedicated, trained and competent personnel will complete refuelling operations;</li> <li>➤ Fuel bowsers will be banded to 110% capacity to prevent any spills;</li> <li>➤ Storage tanks for bowsers and generators will be double-skinned;</li> </ul> | Environmental stabilisation raised bog rehabilitation, and the development of active raised bog, where possible.<br>Enhance the ecosystem services of application in particular, optimising climate action benefits.<br>Containment of dust, surface and groundwater emissions, traffic disruption/soiled roads, silt run off<br>Minimisation of fuel leak/groundwater contamination<br>Prevention/ minimisation of environmental impacts by dust and pollutant release to air and surface waters<br>Prevention/ minimisation of impacts to human health by personal injury<br>Prevention/ minimisation of impacts to human health |

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|  |  | <ul style="list-style-type: none"> <li>➤ Waste oil and fluids will be collected in leak proof containers and removed from the site for disposal;</li> <li>➤ Spill kits will be kept on site; and,</li> <li>➤ All activities will be completed in accordance with current 'best practice' procedures.</li> </ul> <p><b>Hydrology &amp; Hydrogeology</b></p> <p><i>Surface Water Quality</i></p> <p>The existing drainage systems and silt control measures, which have proven effective, will continue to operate during the early stages of the Draft Cutaway Bog Decommissioning and Rehabilitation Plans when there is the potential for the entrainment of suspended solids in surface waters during drain blocking. During this time no remedial works will be completed during periods of prolonged rainfall. Silt ponds will continue to be in use and will be regularly inspected and maintained as per IPC Licence requirements. All onsite activities will be completed in accordance with 'best practice' procedures.</p> <p>Following implementation of the rehabilitation measures a programme of aftercare and maintenance, designed to meet the Conditions of the IPC Licence, will be completed at the Application Site. This will comprise of initial quarterly monitoring, with the number of site visits reducing after 2 years to bi-annually and then after 5 years to annual visits. A water quality monitoring program will be established to monitor the impact of rehabilitation on water quality discharge from the bog. The monitoring results will be reported on each year to the EPA with the parameters to be included as follows: monthly monitoring for pH, Suspended Solids, Total Solids, Total Phosphorus, Total Ammonia, Colour, and COD and DOC.</p> <p><i>Groundwater Quality</i></p> <ul style="list-style-type: none"> <li>➤ The following environmental control measures will be implemented during the Remedial Phase in order to mitigate against leaks and spills:</li> <li>➤ All machinery will be regularly checked and maintained prior to arrival at the site;</li> <li>➤ Fuelling and lubrication of equipment will only be completed in designated areas and away from surface water features;</li> <li>➤ Vehicles will never be left unattended during refuelling;</li> <li>➤ All refuelling will occur in mobile fuel bowsers;</li> </ul> | <p>from dust and air pollutant emissions</p> <p>Prevention/minimisation of environmental impacts and human health impacts by fire, dust and pollutant release to air</p> |
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|  |  |  | <ul style="list-style-type: none"> <li>➤ Only dedicated, trained and competent personnel will complete refuelling operations;</li> <li>➤ Fuel bowzers will be banded to 110% capacity to prevent any spills;</li> <li>➤ Storage tanks for bowzers and generators will be double-skinned;</li> <li>➤ Waste oils and fluids will be collected in leak proof containers and removed from the site for disposal;</li> <li>➤ Spill kits will be kept on site; and,</li> <li>➤ All activities will be completed in accordance with current 'best practice' procedures.</li> </ul> <p><b>Noise &amp; Vibration</b></p> <ul style="list-style-type: none"> <li>➤ The proposed rehabilitation will have due regard to noise limits and hours of operation (i.e. dusk and dawn) to minimise any potential disturbance on resident and local fauna that utilise the Application Site and immediate environs.</li> <li>➤ All plant and equipment for use will comply with the Construction Plant and Equipment Permissible Noise Levels Regulations (SI 359/1996).</li> <li>➤ The Remedial Phase activities will be restricted to daylight hours and there will be no requirement for artificial lighting.</li> </ul> <p><b>Cultural Heritage</b></p> <p>Effect of Peat Extraction Phase on RMP/SMRs<br/>A total of ten (10) recorded monuments are located within the Application Site boundary.</p> <p><b>Pre-1997</b><br/><i>As part of peat processing training, all bog employees were required to read and adhere to the recommendations 'Ancient Objects in Irish Bogs and Farmlands: A Guide for Finders' Department of Education 1942. (Appendix 13-5) which included:</i></p> <ol style="list-style-type: none"> <li>1. <i>All bog workers must stop all works and report to the Bog Manager if archaeological finds are encountered.</i></li> </ol> |  |
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|  |  |  | <p><i>2. If materials thought to be of archaeological interest are encountered, the Bog Manager must report the findings to the Garda Síochána within 7 days who will then contact the Commissioner of Public Works.</i></p> <p><b>1997 onwards</b><br/>The Archaeological Survey of Ireland Peatland Survey undertaken by the Irish Archaeological Wetland Unit (IAWU) in 1997-8 and subsequently by ADS Ltd in 2004 led to the discovery of any potential features, structures or sites within the Application Site as evidenced by seven of the ten recorded monuments located within the Application Site boundary. This control measure allowed for the identification, recording and investigation of features within the Application Site and ultimately led to their inclusion in the SMR. Limited excavation of one site was also carried out as part of this work in 2007.</p> <p><b>2012 onwards</b><br/>The 2012 Code of Practice (Appendix 13-4) also saw the introduction of agreed principles between the National Monuments Service, the National Museum and BnM. The control measures from 2012 onwards were as follows:</p> <ol style="list-style-type: none"> <li><i>1. The Minister for Arts, Heritage and the Gaeltacht has a responsibility to protect the archaeological heritage and to exercise powers of preservation, under the National Monuments Acts 1930-2004, taking account of the European Convention on the Protection of the Archaeological Heritage (Valletta).</i></li> <li><i>2. The Minister's statutory responsibilities include the maintenance of the Record of Monuments and Places, with the aim of providing protection to all known archaeological monuments including those uncovered in Bord na Móna bogs.</i></li> <li><i>3. The Director of the National Museum of Ireland has a responsibility to enforce state ownership of all archaeological objects and to safeguard the treatment of all archaeological objects before their accession into the State's repository, under National Monuments Acts 1930-2004 and the National Cultural Institutions Act 1997, taking account of the European Convention on the Protection of the Archaeological Heritage (Valletta)</i></li> <li><i>4. Bord na Móna plc is a company with a statutory mandate, under the Turf Development Acts 1946-1998, to develop the national peat resource.</i></li> </ol> |  |
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|  |  |  | <ol style="list-style-type: none"> <li>5. The development of peatlands has considerable archaeological implications which must be addressed given that the archaeological heritage is a non-renewable resource.</li> <li>6. Bord na Móna has a statutory duty under the Turf Development Act 1998 (section 56) to afford appropriate protection for the environment and the archaeological heritage.</li> <li>7. Bord na Móna will finance a balanced and cost-effective approach to archaeological investigation, excavation, post excavation and mitigation on the basis of the developer pays principle and in keeping with the Minister's stated policy in this regard.</li> <li>8. Bord na Móna will engage a Project Archaeologist to develop archaeological strategy and to oversee the smooth running of the archaeological response to peat extraction in Bord na Móna bogs.</li> <li>9. The adoption of a partnership approach between the Minister, the Director and Bord na Móna in pursuit of the delivery of Government policy taking account of the implications for archaeology. To this end the Archaeology Management Liaison Committee has been set up consisting of representatives of the Department of Arts, Heritage and the Gaeltacht, the National Museum of Ireland and Bord na Móna, including the Project Archaeologist and Consultant Archaeologists working on Bord na Móna peatlands. The Committee will meet regularly to agree overall strategies in relation to the mitigation of peat extraction.</li> <li>10. Appropriate strategies will be developed by the Archaeology Management Liaison Committee to minimise direct impacts on archaeology taking account of Bord na Móna's contractual obligations, annual production plans, design and safety implications, environmental and other impacts and costs.</li> <li>11. All parties agree that mitigatory planning at the earliest opportunity minimises the impact on the archaeological heritage.</li> <li>12. Bord na Móna will strive, as far as is reasonably possible, within its statutory remit, to avoid negative impacts on archaeological monuments. In cases where it is not possible to avoid impacting on monuments Bord na Móna, the Minister and the Director will cooperate to ensure, as far as possible, that appropriate archaeological mitigation is carried out in advance of peat extraction.</li> <li>13. Prospecting for archaeological monuments, archaeological objects and other such remains, other than in circumstances approved by the Minister, in consultation with the Director, is limited to the confines of the area under peat extraction.</li> </ol> |  |
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|  |  |  | <p><i>14. All parties are committed to dealing with the archaeological implications of peat extraction in a balanced and cost-effective manner consistent with;</i></p> <ul style="list-style-type: none"> <li><i>a. Observing Bord na Móna's requirement to extract peat on an extensive scale</i></li> <li><i>b. Annual production targets in relevant bogs</i></li> <li><i>c. A level of excavation, post-excavation and recording of archaeological monuments and archaeological objects, impacted upon by peat extraction, that is acceptable to the Minister, having consulted with the Director, and preservation in-situ of monuments in those particular circumstances where required by the Minister and which would be reasonable in practice.</i></li> <li><i>d. Each party reserves the right to review decisions.</i></li> <li><i>e. All parties agree that the Archaeology Management Liaison Committee will monitor the operation of this Code of Practice and carry out a formal review within three years of its adoption and at agreed intervals thereafter.</i></li> </ul> <p>Effect of Peat Extraction Phase on Archaeological Objects<br/>The same control measures identified to mitigate impact on RMP/SMRs were applied to mitigate the effect on Archaeological Objects.</p> <p>Effect of Peat Extraction Phase on unrecorded potential sub-surface sites<br/>The same control measures identified to mitigate impact on RMP/SMRs were applied to mitigate the effect of on unrecorded potential sub-surface sites.</p> <p>Effect of Peat Extraction Phase on the Record of Protected Structures and NIAH<br/>No Protected Structures, NIAH structures or historic gardens are located within the Application Site boundary. Effects to such structures or items as a result of the Peat Extraction Phase are therefore not identified.</p> <p>Impact of Peat Extraction Phase on Local Cultural Heritage<br/>The same control measures identified to mitigate impact on RMP/SMRs were applied to mitigate the effect on Local Cultural Heritage.</p> <p><b>Material Assets</b><br/>Waste Management</p> |  |
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|  |  |  | <p>➤ The requirements of Condition 7 of the IPC Licence provide for the reduction, reuse and recycling of waste materials where possible. Non-reusable or recyclable materials are disposed of through licenced operators. The Applicant has committed to continuing the compliance with conditions outlined in the IPC Licence during the Remedial Phase, where applicable.</p> <p>Traffic and Transport</p> <ul style="list-style-type: none"> <li>➤ All HGVs used on site will undergo regular inspection and maintenance checks.</li> <li>➤ All HGVs used on site will undergo wheel washing prior to crossing the local road network to access other bogs or return to the Ballydermot Works for storage.</li> <li>➤ Only HGV licence holders operated the HGVs and will undergo regular re-training on HGV safety operations and vehicle maintenance.</li> <li>➤ Refuelling of all HGV vehicles was undertaken at the Ballydermot Works only.</li> <li>➤ Machinery crossing points on local roads between bogs were cleaned down at the end of each working day</li> <li>➤ Car sharing by personnel and bike to work schemes will be encouraged. As part of BnM's vision for a climate neutral Ireland by 2050, the Applicant encourages and promotes car sharing and cycle to work schemes where possible for its personnel.</li> </ul> |  |
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