



Awel y Môr Offshore Wind Farm

Outline Code of Construction Practice

Appendix 11, Outline Invasive Non-Native Species Management Plan

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Abbreviations and acronyms

TERM	DEFINITION
ALO	Agricultural Liaison Officer
AyM	Awel y Môr Offshore Wind Farm
BioRA	Biosecurity Risk Assessment
CMS	Construction Method Statement
CoCP	Code of Construction Practice
DCO	Development Consent Order
OL	Order Limits
ECoW	Ecological Clerk of Works
ES	Environmental Statement
INNS	Invasive Non-Native Species
NRW	Natural Resources Wales
OWF	Offshore Wind Farm
SMP	Soil Management Plan
WTGs	Wind turbine generators

1 Introduction

1.1 Purpose of this Outline INNSMP

- 1 This Outline Invasive Non-Native Species Management Plan (Outline INNSMP) is provided as Appendix 11 to the Outline Code of Construction Practice (CoCP) (application ref: 8.13) as part of the Environmental Statement (ES).
- 2 This is an outline document that, by reference to the assessments reported in the ES, sets out the key elements that will be secured in the detailed INNSMP which Awel y Môr Offshore Wind Farm Limited (The Applicant) will be required to submit to Denbighshire County Council (DCC) for approval under a requirement of the DCO. Consideration of invasive non-native species (INNS) was requested by Natural Resources Wales (NRW), during consultation in February 2021.
- 3 This Outline INNSMP provides details of mitigation measures and best practice handling techniques to minimise the potential for INNS to be spread by construction activities. The outline INNSMP should be read in conjunction with the Outline CoCP (application ref 8.13) and all of its supporting appendices.

1.2 Scope of this Outline INNSMP

- 4 This document relates only to plant INNS; faunal INNS have been scoped out on the basis that none have been recorded within desk study information or during site visits to date.
- 5 For the avoidance of doubt, this Outline INNSMP relates to the onshore elements of the Awel y Môr offshore wind farm (AyM) only (i.e. landward of Mean High Water Springs). Offshore INNS are considered within Sections 5.11 and 5.12 of Volume 2, Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5). With regard to offshore INNSs, relevant best practice guidelines will be followed and implemented through the implementation of a biosecurity plan to minimise INNS introduction / spread. Any vessels used for the delivery of materials to site will adhere to industry legislation, codes of conduct and/or best practice to reduce the risk of introduction or spread of INNS.

2 Background

- 6 INNS, including species listed on Schedule 9 of the Wildlife and Countryside Act 1981, are present in desk study records provided by Cofnod (the biological records centre for North Wales) for the area within 100 m of the Draft Order Limits (DOL) (Table 1). Of these, Japanese rose *Rosa rugosa* was recorded during the field surveys of coastal habitats. The other species listed were not encountered, though it is not possible to conclude absence from the survey as exhaustive searching for particular species has not been undertaken.
- 7 In addition to the species listed in Table 1, Himalayan balsam *Impatiens glandulifera*, was recorded during field surveys on the banks of Glanffyddion Cut and at water courses adjacent to Princes Gorse woodland. *Rhododendron ponticum* was also noted to occur in Princes Gorse woodland. Figures 30 to Figure 34 of the Onshore Biodiversity and Nature Conservation ES chapter (Volume 3, Chapter 5, application ref: 6.3.5), show the location of INNS identified
- 8 Himalayan balsam and *Rhododendron ponticum* are both included on Schedule 9 of the Wildlife and Countryside Act 1981.

Table 1 Invasive non-native species recorded within the AyM ES Ecology Assessment survey area (Cofnod data set)

SCIENTIFIC NAME	ENGLISH NAME	LISTED ON SCHEDULE 9 ⁱ	APPROXIMATE LOCATION
<i>Azolla filiculoides</i>	Water Fern	Y	Pont Robin, north of Pengwern Two ponds within Glascoed Nature Reserve
<i>Carpobrotus edulis</i>	Hottentot-fig	Y	Extreme northwest edge of the survey

ⁱ Schedule 9 of the Wildlife & Countryside Act 1981 (as amended).

SCIENTIFIC NAME	ENGLISH NAME	LISTED ON SCHEDULE 9? ¹	APPROXIMATE LOCATION
			area (spurious record, location within sea)
<i>Fallopia japonica</i>	Japanese Knotweed	Y	Pengwern
<i>Heracleum mantegazzianum</i>	Giant Hogweed	Y	Within drainage basin at Princes Gorse
<i>Hydrocotyle ranunculoides</i>	Floating Pennywort	Y	Within roadside ditch south of Rhyd Wen Farm Mews
<i>Rosa rugosa</i>	Japanese Rose	Y	Eastern extreme of survey area, at Y Ffrith
<i>Hippophae rhamnoides</i>	Sea-buckthorn	N	Eastern extreme of survey area, at Y Ffrith
<i>Hyacinthoides hispanica</i>	Spanish Bluebell	N	Eastern extreme of survey area, at Y Ffrith
<i>Cortaderia selloana</i>	Pampas grass	N	Eastern extreme of survey area, at Y Ffrith
<i>Sedum album</i>	White stonecrop	N	South of substation

9 There is, therefore, potential for the presence of INNS which could be spread by construction activities. This outline INNSMP provide details of mitigation measures and best practice handling techniques to reduce the likelihood of any potential spread.

3 Pre-Construction

3.1 Pre-Construction Survey

- 10 A pre-construction survey will be undertaken, potentially as part of any pre-construction ecology surveys, to establish the location and level of infestation of any INNS that could be disturbed or mobilised by construction work for AyM. The survey will target all plant species included on Schedule 9 of the Wildlife and Countryside Act 1981 and/ or Part 2 of Schedule 2 of The Invasive Alien Species (Enforcement and Permitting) Order 2019. The survey will take place during the summer prior to construction commencing for a particular phase, when invasive non-native plant species are most likely to be evident.
- 11 The following biosecurity measures will be followed during the pre-construction survey. Surveyors will:
- ▲ Plan field work so that the areas of highest risk of supporting INNS, or with confirmed presence of INNS are visited last;
 - ▲ Ensure that the vehicle, clothing, footwear and equipment start and remain clean and suitable for the task being carried out;
 - ▲ Seek to use equipment and footwear with the fewest places for debris to become attached, and which facilitate easy cleaning.
 - ▲ Vehicles will only be used on public roads/laybys or on unvegetated hardstanding;
 - ▲ Visible dirt and vegetation will be cleaned from footwear at regular intervals during the day/whenever it becomes evident;
 - ▲ When moving between farm premises boots will additionally be disinfected using a spray bottle with an appropriate multi-purpose disinfectant that is effective against viral, bacterial and fungal pathogens. Unused disinfectant would be disposed of in accordance with manufactures instructions/ Control of Substances Hazardous to Health (COSHH) data sheet; and
 - ▲ Avoid entering areas known to contain INNS and instead observe and record details from the margins/adjacent areas.

3.2 Biosecurity Risk Assessment

- 12 Following the pre-construction INNS survey, and prior to construction, a Biosecurity Risk Assessment (BioRA) will be undertaken. The purpose of the risk assessment will be to inform the selection of control measures contained within the INNSMP to prevent or reduce the risks of spreading INNS during construction.
- 13 The Ecological Clerk of Works (ECoW) (See the Construction Method Statement in Appendix 1 (application ref: 8.13.1) of the outline CoCP for description of role) will take primary responsibility for reviewing and updating the BioRA at the start of construction. Updates will be required if, for example, previously unrecorded individuals or populations of INNS are discovered or working methods change such that new pathways for potential contamination are formed.
- 14 An initial outline of indicative control measures that may be applied where necessary, is provided in Section 4. The final suite of measures will be confirmed following the site specific pre-construction survey, the BioRA and consultation on the INNSMP.

4 General Control Measures

- 15 The following section provides an outline of the general control measures that may be employed during construction to manage any INNS identified during pre-construction survey. The final selection of control measures will be informed by the BioRA and will include species specific measures, as appropriate. The following measures are considered adequate to mitigate the effects associated with the species with the greatest potential, on the basis of the baseline characterisation surveys, to be encountered.
- 16 Good site practice and hygiene should ensure the following:
- All staff should be aware of what INNS look like and what their responsibilities are. Awareness training should be undertaken in the form of Tool Box Talks covering INNS.
 - Where possible to do so, construction works areas will be micro-sited to avoid areas of identified INNS.
 - The ECoW, will oversee the implementation of the INNSMP on site. Everyone working on site should clearly understand the role and authority of the ECoW, which will be included within the site induction.
 - All areas containing INNS not within the physical working areas to be demarcated to ensure no accidental spread.
 - Where cross-contamination is possible (i.e. from one part of the site to another or between sites), consider designating vehicles or machinery to specific sites where possible to prevent spread.
 - All vehicles and footwear entering working area to be clean on arrival.
 - If INNS have been identified during pre-construction survey, and if required by the BioRA, vehicles used to transport infested soils must be thoroughly inspected and appropriately cleaned in a designated area before being used for other work.
 - The most appropriate methods of cleaning should be determined by a suitably qualified contractor following a visual inspection. The suitably qualified contractor should supervise the cleaning, which should pay particular attention to tyre treads, wheel arches and any other areas that might retain rhizomes or seeds.

- ▶ The designated cleaning area must be within an area of hard standing or covered by a root barrier membrane that can contain and collect the material washed off. The cleaning area must be located so as not to allow material to contaminate drains, ditches or watercourses.
- ▶ The material left within the designated area after vehicles have been cleaned must be contained, collected and disposed of along with other contaminated material.
- ▶ If soil is imported to the site for landscaping, infilling or embankments, the contractor shall gain documentation from suppliers confirming that it is free from invasive species.

5 Biosecurity

17 In addition to the good site practice and hygiene control measures outlined in Section 4, the following biosecurity measures will also be considered to prevent the potential spread of animal disease between agricultural holdings within and around the construction works. The following biosecurity measures below predominantly relate to staff visiting different land holdings prior to and during construction:

- ▶ Where appropriate and practicable, farm visits should be made following prior contact with the owner/farm manager. The opportunity should be taken to check what biosecurity arrangements (if any) are in place, whether they may be adopted, and if so what the arrangements are for parking;
- ▶ Wherever possible, vehicles should be parked off the farm premises. If there is no alternative, vehicles taken on to a farm premises should be parked, where possible, on hard standing away from livestock. Vehicles should not normally be taken into areas to which livestock have access. Vehicles taken onto farm should be visibly free of animal excreta, slurry etc;
- ▶ Before leaving the farm all visible contamination e.g. manure, slurry or similar material should be cleaned from the outside of the vehicle which should be disinfected using on-farm facilities. If this is not possible, vehicles should be cleaned before being taken onto another farm with livestock, either before the next visit or, if appropriate, at the end of the working day;
- ▶ Appropriate footwear (e.g. wellington boots) and any waterproof clothing must be cleaned and disinfected before entering the farm and again, where possible, at the end of the visit;
- ▶ All other equipment taken on the farm should be cleaned before arrival and on departure. Where possible equipment should be protected from contamination e.g. using plastic bags. Where equipment can be cleansed and disinfected this must be done before entry to the premises and again on departure.

6 Monitoring

- 18 The INNSMP will be regularly monitored by construction contractors and the ECoW throughout construction.
- 19 Site workers and the ECoW will remain vigilant for the new growth of INNS within and in close proximity to the works, and the INNSMP will be updated accordingly if new areas of growth are identified.



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