

# Environmental Standard Operating Procedure 2

## Biosecurity

The Broads contain many species of non-native invasive species of plants and invertebrates which can be easily spread by accident whilst staff, volunteers and contractors carry out Broads Authority duties. The impact of these species is varied, but always detrimental to the native broadland habitats and species.

### Aim

To prevent the transfer of non-native invasive species into, around or out of the Broads, as detailed in the table (below and right).

### Environmental Risk

Risk	Likelihood	Mitigation
Contaminating native habitats with non-native invasive species	High	Follow guidelines

### Non-native Invasive species in the Broads

Killer shrimp

*Dikerogammarus villosus*



Australian swamp stonecrop <i>Crassula helmsii</i>	Japanese knotweed <i>Fallopia japonica</i>
	
Giant hogweed <i>Heracleum mantegazzianum</i>	Himalayan balsam <i>Impatiens glandulifera</i>
	
Parrots feather <i>Myriophyllum aquaticum</i>	Floating pennywort <i>Hydrocotyle ranunculoides</i>
	

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### Standard Procedure

- All staff, volunteers and contractors receive guidance in identification of key non native invasive species and the risks associated, through provision of ID cards and training sessions.
- Check origin of equipment coming from outside the broads and likely presence of non-natives. Ensure that all equipment is clean and has been dry for a minimum of 48 hours.
- If working in rivers or in water in river connected wetland consult latest *Dikerogammarus villosus* (Dv) survey maps to identify the risk of the work area having Dv.
- Where possible, carry out task order at sites known to have no non-native invasive species first.
- Ensure that no equipment leaves site without following the Check, Clean, Dry procedure.
- Where the drying phase is impractical, all equipment must be cleaned in situ prior to leaving site. If steam cleaning is required, it must be carried out at a minimum nozzle temperature of 60°C.
- Ensure that no water is transferred from site to site.
- If you suspect presence of an invasive species whilst working on site, contact an Environment Officer, who will advise and instruct.

### Delivery Method

- Environment Officers to provide training and guidance to staff and contractors before they arrive on site and when necessary during operations. Training packs to be produced for distribution and downloadable from BA website.

### Further Information

#### Broads Authority website:

[www.broads-authority.gov.uk/looking-after/managing-land-and-water/non-native-species](http://www.broads-authority.gov.uk/looking-after/managing-land-and-water/non-native-species)

#### Norfolk Non-native Species Initiative website:

[www.norfolkbiodiversity.org/nonnativespecies/what\\_you\\_can\\_do\\_to\\_help.a\\_spx](http://www.norfolkbiodiversity.org/nonnativespecies/what_you_can_do_to_help.a_spx)