



CSCC•CWIC

# Engineering Design Services



## ED3394 New Quay Harbour Dredging

### Biosecurity Plan

03/01/2023

*Report Prepared for:-*

Owen Morgan, Harbour Manager, Highways &  
Environmental Services,  
Ceredigion County Council

**Report No.** ED3394\_Biosecurity\_1

**Prepared By** George HT Ryley

# ED3394 New Quay Harbour Dredging Biosecurity Plan

	Name	Signature	Position	Date of Issue	Version
Prepared	George HT Ryley		CCC Highways Ecologist	03/01/2023	1
Approved					

## Record of Previous Issue and Amendments

Version	Revision date	Summary of Changes

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## **1. Introduction**

As part of the Marine Licence application to renew the licence for New Quay Harbour Maintenance Dredging, Natural Resources Wales (NRW) require a biosecurity plan. This document sets out the procedure that will be followed to prevent the introduction or spread of any invasive non-native species (INNS) when carrying out the dredging.

Movement of vessels, equipment and/or stock can cause both the introduction of new INNS and the spread of INNS already established at a site to new locations. All contractors working on site will be issued a copy of this document.

## **2. Legal & ecological position on biosecurity**

There are a number of pieces of legislation relevant to biosecurity and INNS in the UK, including:

### Environmental Protection Act 1990

Covers, amongst others, pollution control, waste and contaminated land. Soil and other material containing viable INNS material is classed as controlled waste under the Act.

### Wildlife and Countryside Act 1981 (as amended)

Section 14 of the Act regulates the release of non-native species into the wild and makes it illegal to plant or otherwise cause to grow in the wild any plant listed on Schedule 9 of the Act or, alternatively, release or allow to escape into the wild any animal listed on Schedule 9.

### EU Regulation (1143/2014) on invasive alien (non-native) species

This regulation imposes restrictions on a list of species of 'Union concern'.

## **3. Existing records of INNS**

A record search with Aderyn, LERC Wales' Biodiversity Information and Reporting Database, was carried out on 15/12/2022. There are no known records of any INNS associated with the harbour, the deposit areas, or within 100 metres of them. However, the invasive, non-native seaweed Japanese Wireweed is known to occur a few miles north-east of the harbour. The species requires rocky substrate to attach to, so is highly unlikely to occur in the sandy harbour basin and deposit areas. There are no stands of Himalayan Balsam or Japanese knotweed in the immediate vicinity of the harbour or disposal areas.

### 3. Biosecurity risk assessment & resulting method statement

L = Likelihood, S = Severity, R = Rating (= L x S)

<u>Likelihood</u>	<u>Severity</u>	<u>Risk Rating = Likelihood x Severity</u>
1. Very unlikely	1. Insignificant	1 to 4 (Low Risk – acceptable level, may need attention if not as low as reasonably practicable.)
2. Unlikely	2. Minor	
3. Likely	3. Moderate	6 to 9 (Medium Risk – requires attention as soon as possible.)
4. Highly Likely	4. Major	12 to 16 (High Risk – immediately implement controls).

<u>Hazard</u>	<u>'Raw' risk</u>			<u>Control measures</u>	<u>Residual risk</u>		
	L	S	R		L	S	R
1. Introducing species of INNS on dredging machinery or other equipment	2	3	6	<ul style="list-style-type: none"> <li>• NB: Likelihood is low since dredging will be carried out by land-based machinery, not by specialist dredging vessels and as such, no ballast waters are carried (ballast waters are often the cause of spread of INNS by vessels).</li> <li>• Footwear of all workers, visitors, contractors to be clean on entering site and to be cleaned prior to visiting other sites.</li> </ul>	1	3	3
2. Spreading INNS between locations while working on site	3	2	6	<ul style="list-style-type: none"> <li>• Care will be taken to only move sediment across the site during the dredging operation; any obvious plant / algal material will be left where found or removed to a suitably licensed site by a suitably licensed carrier if suspected to be a species of INNS.</li> <li>• Dredging to be carried out at low tide in suitably calm conditions; machinery will not enter the water.</li> </ul>	2	2	4
3. Exporting INNS to other sites	2	3	6	<ul style="list-style-type: none"> <li>• None of the dredged material is to be taken off site.</li> <li>• All footwear, machinery and equipment to be cleaned and/ or treated as appropriate prior to leaving site.</li> </ul>	1	3	3

## **5. References**

Cook, E.J., Macleod, A. Payne, R.D., and Brown, S. (2014) edited by Natural England and Natural Resources Wales (2015). Marine Biosecurity Planning – Guidance for producing site and operation-based plans for preventing the introduction and spread of non-native species in England and Wales.