

Marine Licence Application – Continuation Sheet

Pwllheli Harbour Crib Groyne Modifications

6(a)

The proposal would involve removal of the existing cribwork from 0.5m below ground, removing, grade and replacing the existing armour stone and overlaying with additional appropriately sized armour. Overlaying the structure would be carried out using armour stone of a larger size than used in the original construction – preliminary examination (to be confirmed) suggests this should be typically 2-5t in weight, rather than the 1-1.5t used in the original construction, available from local sources e.g. Minffordd.

In terms of dimensions, the proposed groyne would extend to approximately 125m, which would be between 15-20m longer than the existing groyne to accommodate the required slopes. The crest of the proposed groyne would have a nominal width of between 2-3m. With side slopes of 1:2 (southern side) and 1:2.5 (northern side), the footprint of the structure on the ground will vary along its length, with the footprint increasing as the groyne extends seaward due to the sloping nature of the ground. See Drawing No. 74/1807/1/01 and 74/1807/1/01, in the Appendix A, for details.

12(c)

- The contractors must be able to demonstrate that all plant machinery used on site is regularly maintained and in good condition.
- All refuelling of plant machinery shall be carried out at a designated site at least 10m away from the edge of water, or from the Mean High Water Spring Tide level.
- All fuel, oil and chemicals used on site should be stored away in a locked store which is bunded to 110% capacity of the total volume stored.
- Spill kits to be readily available on site.
- Work must be carried out in a manner that will minimise discolouration of the watercourse. Should discolouration become apparent, work must stop and working practises be reviewed.
- Machinery to be clean of foreign material on arrival to site.

Please Note - The footprint of the proposed groyne would be kept to a minimum to reduce the amount of land-take from the SAC.

From looking at Marine Article 17 Habitat Feature Map¹, the two features of the SAC potentially affected by the proposed work are:

- Large Shallow Inlets and Bays; and
- Reef

1

<http://lle.gov.wales/map#b=europa&l=1016;990h;994h;996h;998h;1000h;1002h;1004h;1006h;1008h;1010h;1012h;1014h;1018h;&m=-4.39621,52.88807,15>

Large Shallow Inlets and Bays:

The proposed groyne would encroach into the SAC, and into the habitat feature 'large shallow inlet and bays'. The groyne would require an area of approximately 320m² of this feature from the SAC, which equates to 0.000077% of the feature from the Tremadog Bay area only, or 0.000056% of the total area of the feature, if combining with the feature area on the northern side of the Llŷn Peninsula. Such a small loss of habitat from a large dynamic marine site isn't considered to significantly affect the overall range, structure and function or typical species within the Large Shallow Inlets and Bays feature.

Reef:

Reef feature have been identified to be present within 300m from the proposed groyne. The proposed groyne would not cause any direct loss of the feature, however, it is noted that reefs are sensitive to changes in hydrodynamics. Due to the small increase in groyne length, it is considered that if any changes in hydrodynamics occur, the changes would be minimal and very localised due to the marginal increase in structure length and since the proposed structure would essentially be constructed to replace the original structure and would serve the same function as that of the original structure.