



Ecological Surveys Ltd

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☎ (Head office) 01503 240769 📞 (MD) 07736 458609

Reference: New dwelling adjacent to the coastal designated sites – 16.0284
42 Sinah Lane, Hayling Island, PO11 0HH

Development Mitigation Statement

Due to the site's proximity to the adjacent Chichester & Langstone Harbours SPA/Ramsar, Solent Maritime SAC and Langstone Harbour SSSI, it is considered necessary to protect wildlife (principally wary birds such as brent geese (*Branta bernicla*) from disturbance during the construction period.

Construction workers must be made aware of the sensitive nature of this site, and that noise levels must be kept to the absolute minimum.

Notwithstanding the current screening of the water's edge by the existing and retained stunted oaks, which provide a degree of screening, albeit greater in summer than winter. It is proposed that prior to development commencing that developers will erect hoarding boards across the end of the site. These boards must be erected no later than the end of September, in order that they are in position prior to the return of winter migrants returning and must not be removed until completion of all works at this location.

The boards should be a minimum of 2m high and the side facing towards the Solent painted dark green. This should ensure that the boards blend into the general background and do not disturb birds or other residents who might object to the visual intrusion caused by unpainted hoarding boards.

Ideally, the hoarding boards should be mounted on to herring (or similar fencing) and can thus be re-used at further sites as required. It also lessens the environmental impact of concreting in posts. Fencing in this position would present a significant obstruction to the wind and may subsequently be blown over. Herring fencing, unlike concreted in posts, can be erected in such a manner as to strengthen the fence line and can easily and quickly be re-erected if blown over.

Screening such as suggested above provides two forms of mitigation: visual and sound. This will lessen any disturbance to wary birds.

Decibel level is determined by a combination of noise and distance, which in turn is reduced if the sound is baffled by an obstruction.

Decibels levels are subject to the 'inverse square law' in short – If you move by X the signal will decrease by 1/X ² This means the further you are away from the source, the lower the decibel–	
1m away	➡ X amount of power
2m away	➡ ¼ power at 1m
4m away	➡ 1/16 power at 1m
8m away	➡ 1/64 at 1m
16m away	➡ 1/128 power at 1m
32m away	➡ 1/256 power at 1m

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Incorporated in England and Wales- No: 08262426. VAT Registration Number: 224 3182 38
Registered address: 14 Lower Clicker Road, Menheniot, Liskeard Cornwall. PL14 3PJ



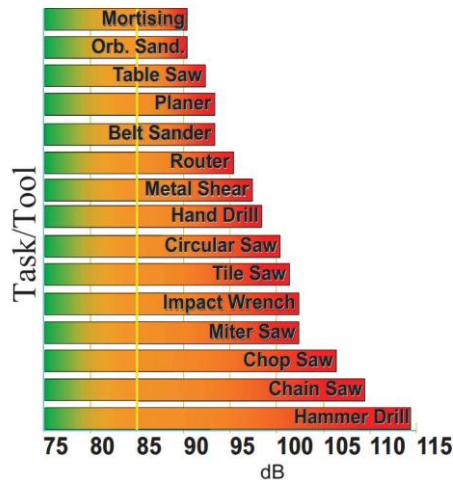
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The following noise levels are based on measurements 1m from source. Based on the above Inverse square law, even the loudest of these noises (hammer drill) is reduced from 114 decibels to only .9 decibels at 16m

Noise Levels for Common Tools



A 'decibel' is the unit to measure the loudness of sound. Decibel levels for each item shown in the graph may vary.

This would suggest that the impact to wildlife on this site, caused by normal construction noise, will be minimal at 20m. Even this level of decibel will be reduced still further by the effects of buffering provided by the recommend hoarding.

Nonetheless, construction workers should avoid using sudden noises, such as car horns and even radios, when in the open. Once the building has been constructed and sealed, noise levels from inside the structure will be negligible.

Exceptionally loud noise.

Ideally, any activities likely to create exceptionally loud noises, should be planned for the spring and summer months. If this is not possible –

- such activities, must be concentrated into as short a period of time as can reasonably be managed;
- Should tree surgery be required, this too should be concentrated into as short a period as possible. Ideally, larger boughs / branches should be moved as far as is possible from the shoreline, prior to be reduced in size. This will limit the decibel levels on this site.
- The Ecological Survey Report (Ecological Surveys Ltd – November 2015), should be consulted, prior to any tree removal and safe guards over breeding birds adhered too.

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