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**PROPOSED DEVELOPMENT
LAND TO REAR OF WILLOW COTTAGES
GLAN-LLYN ROAD
BRADLEY
WREXHAM
LL11 4AY**

Reptile Survey Results

- The Cofnod (Local Ecological Records Centre) website was accessed (www.cofnod.org.uk) and a Cofnod Data Request [E08020] was made for a data search for Priority Species and designated wildlife sites within a 1km radius of the site. There are records of reptiles [adder, common lizard, grass snake] within 1km radius of the site according to the data search.
- No reptiles were observed on the site. The hedgerows in provide low potential for use by reptiles for foraging and emigration corridors. The amenity grass [A3] provides low potential for foraging reptiles, due to the grass swathe being kept short via regular mowing, so does not provide sufficient cover and would leave these species prone to predators. The piles of rubble provide some potential for hibernating reptiles.
- Some low quality trees require felling to facilitate the proposed development, which will result in some limited habitat loss on site. New tree and hedge planting will mitigate for any loss of habitat. The predicted impact of the proposed development on reptiles is low, provided that appropriate Reasonable Avoidance Measures are followed, in order to minimise the impact on locally recorded reptiles.



PRO3755



UK/I 0343A

Reasonable Avoidance Methods

- As part of the site induction process, all staff working on site will be made aware of the potential presence of reptiles within the immediate landscape, and their status as a UK and European Protected Species.
- The toolbox talk will set out what measures are being implemented to avoid affecting reptiles and will also give details of how to recognise reptiles and a photographic reference summary of how to recognise reptiles will be displayed in the site compound cabin at all times.
- Contractors will be instructed to cease work in the unlikely event that they discover a reptile within the site, and to contact a licenced ecologist and NRW (Buckley Office). Contact details will be displayed alongside the photographic identification sheets.
- A site log should be kept to ensure that all these precautionary measures are implemented, with dates and names of who implemented them.

Vegetation clearance

- The objective is to deter reptiles from the grasslands and hedge habitats within the site by making habitats unsuitable for use.
- For the initial stages of the development, vegetation clearance should be undertaken in a phased manner under the supervision of an ecologist. The optimum time for vegetation clearance is October-February, when reptiles are hibernating and not dispersing across the site.
- All potential natural refugia such as piles of rubble, piles of logs and metal debris will be dismantled by hand by an ecologist **prior to or following** the winter hibernation period (November – March) in a careful and controlled manner, with constant vigilance for any sheltering reptiles and/or any other potential species. Where possible and practical, the piles of rubble/logs etc. should be transferred to a suitable location adjacent the area to be developed, to provide alternative natural refugia for reptiles and other species.
- Any vegetation that needs to be removed should be cut to a height of 150mm under supervision of the ecologist and checked for reptiles. All arisings should be immediately removed or stacked in a habitat pile outside the area to be developed, (to prevent risk of reptiles using these as hibernacula or refugia). These cut areas must then be left undisturbed for at least 48 hours. Thereafter, areas which have been strimmed must be hand searched by the ecologist.
- Following any required tree felling/hedge removal, all rootballs should be removed by machine under the supervision of an ecologist, who will check the stump for crevices beforehand and inspect the rootball once removed. Large bucket machinery will reduce potential for injury of any reptiles present.
- In order to ensure the development area remains unfavourable to reptiles it is essential that the grassland is maintained as a short sward during the growing season.



Soil stripping

- Light machinery with a gross weight of less than 1.5 tonnes will be used to clear the topsoil, under ecological supervision. First the top few centimetres of ground will be removed. Following this, larger and deeper excavations can be made.
- Appropriate method of working – all other vehicles to remain on existing surfaced tracks/hardstanding.
- Should any reptiles be encountered on site during construction, all works must stop and Natural Resources Wales consulted. It is likely that a derogation licence would need to be obtained before work could resume on site.

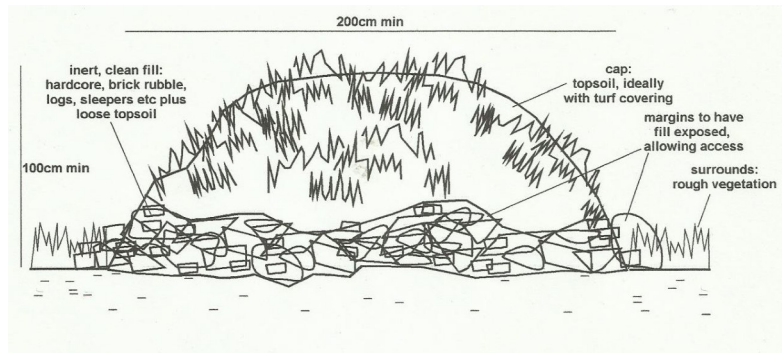
Construction work

- Any loose aggregates and materials delivered to site in relation to the development are to be stored in bags on the site and not loose, to prevent reptiles from seeking shelter within the materials.
- Any building materials should be raised above ground by storing on pallets, to prevent reptiles from seeking shelter underneath. All waste materials should be removed from site immediately or placed in skips.
- If any trenches are to be excavated in grassed areas, a strip either side of the proposed site should be cut first, to create a short swathe, so there is no cover for foraging or resting reptiles. The short swathe should be checked each morning for reptiles, before commencing any works.
- Trenches should have a leading slope, so that any animal that enters the trench may escape.
- Where possible, any trenches that need to be excavated should be backfilled on the same day. The trench should be checked for reptiles before backfilling.
- If a trench is to remain open overnight, ensure that it is covered with sheet material and the edges sealed. The edges can be sealed with soil, which must be compressed down to prevent reptiles and other species from entering the trench.
- If any pipework (drainage etc.) are to be installed in the trench, the ends of the pipes must have baffles fitted, to prevent reptiles and other species from entering the pipe.
- No piles of rubble, soil or other debris should be left on site after the completion of works, unless they are left deliberate for mitigation (e.g. creation of artificial shelter/hibernacula).



Biodiversity improvements

- New shelter/hibernacula sites should be created on site (e.g. near the North boundary), by forming uncompacted mounds/banks of topsoil, mixed with clean rubble, logs etc. The mound/bank should have minimum dimensions 2m length x 1m width x 1m height and be covered with turf.



- New hedgerows could be planted on the East and West boundaries, to provide connectivity and to provide wildlife corridors for use by reptiles for foraging and emigration.
- Provision of basking areas (e.g. piles of natural rock or small sections of dry stone wall in South or West-facing grassy areas) would benefit reptiles.

