























Land west of Chesterton

Great Crested Newt Mitigation Strategy

Prepared by
CSa Environmental Planning

On behalf of Taylor Wimpey UK Ltd

Report No: CSa/2325/05

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Appendix B: Great Crested Newt Habitat Impacts Plan (CSa/2325/109)

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1.0 INTRODUCTION

- 1.1 This document has been prepared by CSa Environmental Planning on behalf of Taylor Wimpey UK Ltd. It sets out the principles of great crested newt mitigation to be implemented as part of the proposed development of up to 45 dwellings at land to the west of Chesterton, Oxfordshire.
- 1.2 An Ecological Appraisal of the site (CSa/2325/02) and subsequent great crested newt surveys (Protected Species Survey Report CSa/2325/04) identified a large population of breeding great crested newt within ponds at the golf course to the west of the site The closest breeding pond is approximately 90m from the site and there are anecdotal reports of great crested newts being found within the allotments immediately to the north of the site. Given the proximity of the ponds to the site, it is reasonably likely that these animals use the terrestrial habitats within the development site.
- 1.3 Great crested newts and their habitats are strictly protected under the Wildlife and Countryside Act 1981 (as amended) and The Conservation of Habitats and Species Regulations 2010. This legislation makes it an offence to capture, injure, kill or disturb great crested newts and also to damage or destroy a breeding site or resting place used by great crested newts.
- 1.4 A European Protected Species Licence (EPS) will ultimately be required to permit development impacts to great crested newts that would otherwise be illegal. An EPS licence cannot be obtained until the site has been granted planning permission. In determining the planning permission, the Local Planning Authority must have confidence that suitable mitigation can be provided alongside development to maintain the favourable conservation status of great crested newts. This document has therefore been produced to demonstrate that the development design allows for sufficient appropriate mitigation measures.

2.0 IMPACT ASSESSMENT AND MITIGATION RATIONALE

- 2.1 The great crested newt surveys identified a large population of great crested newt breeding within two ponds on the golf course to the west, at distances of c.90m and c.425m from the site. The terrestrial habitat surrounding these ponds is moderate, with areas of dense scrub, wooded strips and rough grassland at the margins of the golf holes, and large areas of lower quality short grassland habitat that make up the majority of the golf course.
- 2.2 A minor road separates the closest pond from the proposed development site, which is flanked by hedgerows and a wide wooded strip on the golf course side, offering good quality habitat. The width and traffic levels on the road are not considered sufficient to make the road a significant barrier to great crested newt movement. This is supported by the anecdotal records of great crested newts being found within the allotments adjacent to the northern boundary of the site.
- 2.3 As shown on the Habitats Plan in Appendix A, the majority of the development site comprises arable land and grazed pasture that is considered to be of low quality for great crested newts, i.e. it provides dispersal and limited foraging opportunities. Denser ground cover is provided by on-site hedgerows and long grassland margins of the arable field and these habitats offer small areas of good quality habitat that could be used for foraging and shelter.
- 2.4 The Great Crested Newt Habitat Impacts Plan in Appendix B is based upon the development Masterplan produced by Life Space Design in September 2014. This proposal would result in the following areas of on-site terrestrial habitat being lost, following the categories with the Natural England licence documents¹ (in relation to the closest pond, c.90m from the site):
 - 0 ha of immediate terrestrial habitat (<50m from pond)
 - 0.93 ha of intermediate terrestrial habitat (50m 250m from pond)
 - 0.96 ha of distant terrestrial habitat (250m- 500m from pond)
- 2.5 Natural England guidelines²³ state that suitable terrestrial habitats within 250m of a breeding pond are most likely to be used by great crested newts. As such, the development Masterplan has been designed to maximise the amount of high quality terrestrial newt habitat available within 250m of the closest great crested newt breeding pond. The plan within Appendix B demonstrates that the development Masterplan would provide 0.58 ha of enhanced terrestrial habitat for great crested newts within 250m, and an additional 0.3 ha within 500m of the breeding pond.

¹ Natural England document reference: "wml-a14-2_tcm-4103"; Section D: Impact assessment (continued); D5.1 Quantitative Impact Assessment

² English Nature (2001) Great Crested Newt Mitigation Guidelines. English Nature, Peterborough

³ Natural England (2013) Template for Method Statement to support application for licence under Regulation 53(2)e in respect of great crested newts Triturus cristatus. Form WML-A14-2 (Version April 13).

- 2.6 Enhanced on-site habitats for great crested newts would comprise approximately 0.88 ha to be seeded with native wildflower meadow grassland and planted with new native trees and shrubs. The habitats would also include new hibernation features for great crested newt. Existing hedgerows along the northern, eastern and southern boundaries would be retained and enhanced, maintaining potential habitat linkages for great crested newt. The design principles for the mitigation habitats are provided within section 3.0.
- 2.7 It is considered that the loss of a larger area of terrestrial habitat that is predominantly of low quality for great crested newts, would be adequately mitigated by the provision of smaller areas of high quality habitats, with an emphasis on providing the majority of mitigation habitat within 250m of the nearest breeding pond.
- 2.8 In addition, upgrades to the adjacent highway are proposed as part of the development, to include widening of the carriageway and the provision of a new 2m wide footway linking the site access to the existing footway to the north. These works would result in the loss of grassland verge alongside the road which is likely to be used by great crested newt. Appropriate mitigation for the impacts of this small-scale habitat loss will also need to be covered within the EPS licence for the site to ensure that no illegal impacts to great crested newts or their habitats occur from the highways works.

3.0 PROPOSED MITIGATION HABITATS

3.1 The types of great crested newt mitigation habitat that would be provided as part of development are shown on the Landscape Strategy within Appendix C and described below.

Green Infrastructure

Location

- 3.2 The largest area of new terrestrial habitat for great crested newts is proposed in the north-west of the site. The Masterplan was designed to include such habitat within this part of the site because it is the closest point to the off-site breeding pond and it is adjacent to the off-site allotments which are also understood to be used by newts.
- 3.3 A second area of open space to comprise new terrestrial habitat would be provided along the western edge of the site, which is between c.110m – 150m from the pond.
- 3.4 A third open space area that would provide new terrestrial habitat for newts occurs in the south-east corner of the site.
- 3.5 Existing boundary hedgerows would be retained and enhanced to provide habitat linkages for great crested newts and other wildlife between the areas of green space.

Landscape treatments

- 3.6 The majority of new habitats for great crested newts would comprise wildflower meadow grassland. A native species-rich wildflower grassland mix would be used to establish meadow areas that will increase the botanical diversity at the site. This habitat should support a wide range of invertebrates that would provide foraging for newts. Once established, meadow grassland should not be cut (or grazed) during the spring or summer to allow plant species to flower and set seed. This should provide a long sward for much of the year that would offer cover for newts.
- 3.7 Two drainage attenuation basins are proposed on the Masterplan within the open space areas. These provide additional surface water drainage capacity for periods of peak rainfall, but they are likely to be dry for much of the year. A wet grassland seed mix would be sown into these areas once the basins have been created and management should focus on allowing a long wet grassland sward to establish that will provide further high quality habitat for great crested newts.
- 3.8 Existing hedgerows at the site boundaries are retained by the Masterplan, with the exception of the loss of a section to facilitate the new road access. The hedgerow along the northern boundary that would border the largest area of

green space is currently heavily flailed and has several gaps. This hedgerow should be enhanced through infill native planting and the relaxation of management tailored to creating a wide hedge with a dense base to enhance cover for great crested newts.

3.9 The open space areas would contain small copses of native thicket to comprise a range of shrub and tree species. These areas will provide further foraging and cover for great crested newts.

Hibernacula

3.10 Two hibernacula (see Figure 1 below) are proposed for the largest open space area, to be located in the north-east corner of the site, approximately 90m from the great crested newt breeding pond. These would comprise buried piles of rubble and logs beneath a soil mound, with gaps left to enable newts, reptiles and other small animals to access frost-free gaps for hibernation. They are located within and adjacent to native shrubs to provide further shelter from the elements.

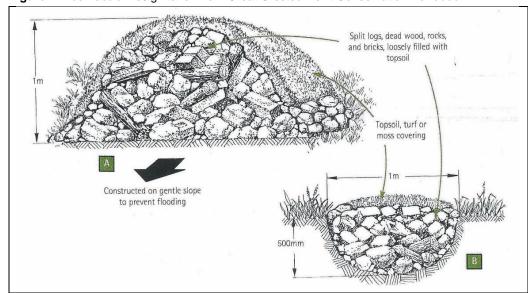


Figure 1 Hibernacula Design taken from Great Crested Newt Conservation Handbook⁴

⁴ Langton, T.E.S., Beckett, C.L., and Foster, J.P. (2001) Great Crested Newt Conservation Handbook, Froglife, Halesworth.

4.0 CAPTURE AND EXCLUSION MEASURES

- 4.1 To safeguard great crested newts from killing or injury during development works, all working areas will be subject to a capture and exclusion exercise under an EPS licence from Natural England. Exclusion fencing will be erected around all areas of terrestrial newt habitat to be impacted by development. Ideally this fence would be timed for erection in the early spring, once newts are active and are moving towards their breeding ponds.
- 4.2 The standard approach is for pitfall traps to be installed at 5m 10m intervals along the exclusion fencing, and along internal lines of drift fencing. Artificial refugia, such as carpet tiles would also be used in between pitfall traps to increase the chances of capture. Checks of the traps and refugia would then be undertaken by an ecologist on a daily basis.
- 4.3 Any amphibians captured during this process would be released into cover within a defined receptor area. This would be a location outside of the exclusion fencing that would not be impacted by development and that has habitat connectivity to the breeding pond.
- 4.4 Natural England guidelines suggest that a minimum trapping period of 90 nights with suitable weather conditions are likely to be required to trap out a population classed as 'large' population from terrestrial habitats. Trapping can occur during most of the frost-free months of the year (typically between March October).
- 4.5 Once the capture results demonstrate that great crested newts have been successfully caught and moved from the site, the internal drift fencing and all pitfall traps would be removed. Development related works within the construction area could then begin. The newt exclusion fencing at the boundary of the development area would remain in place and would be maintained until the end of construction to ensure that great crested newts do not cross into the working areas.

5.0 POST DEVELOPMENT MANAGEMENT AND MONITORING

Management

5.1 The timing, methods and responsibility for management of new landscaping and retained habitats should be clearly set out in a Landscape and Ecology Management Plan. This should aim to maintain the habitats in suitable condition for great crested newt and other wildlife for the long term.

Monitoring

- 5.2 It is likely that post-development monitoring of the great crested newt population will be a condition of any EPS licence granted by Natural England for the site. This would be undertaken to assess the success of the mitigation works in maintaining the favourable conservation status of the population.
- 5.3 With reference to the great crested newt mitigation guidelines⁵, the partial destruction of intermediate terrestrial habitat represents a low impact at the site level (Section 6.5), which for a high population of great crested newts would require post development monitoring for a minimum of 2 years. This monitoring should take the form of population size class assessment surveys of the local breeding ponds.

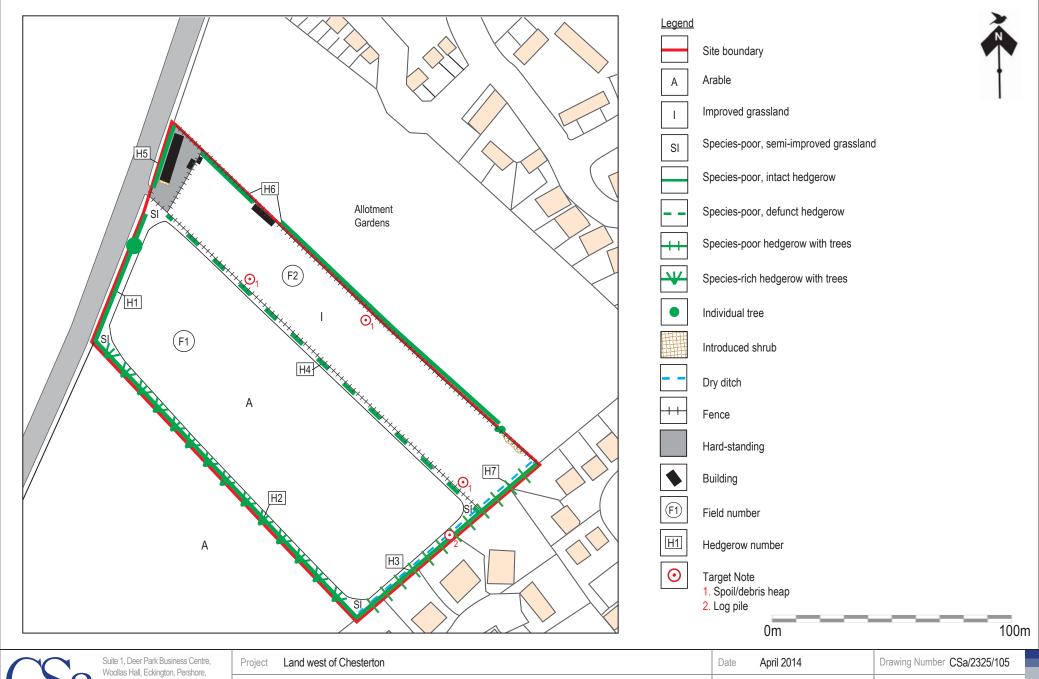
⁵ English Nature (2001) *Great Crested Newt Mitigation Guidelines*. English Nature, Peterborough

6.0 CONCLUSIONS

- 6.1 It is considered that this Great Crested Newt Mitigation Strategy and the Landscape Strategy (Appendix C) demonstrate that the development Masterplan has been designed to accommodate adequate enhanced terrestrial habitats to mitigate for the impacts of development on great crested newts.
- 6.2 The specific details of mitigation to be implemented, such as the layout of exclusion and drift fencing and timescales for implementation, should be based upon the detailed development design following the principles set out within this strategy. This information would be required to inform an application to Natural England for an EPS licence to permit the impacts to great crested newts and their habitats.

Appendix A

Habitats Plan (CSa/2325/105)





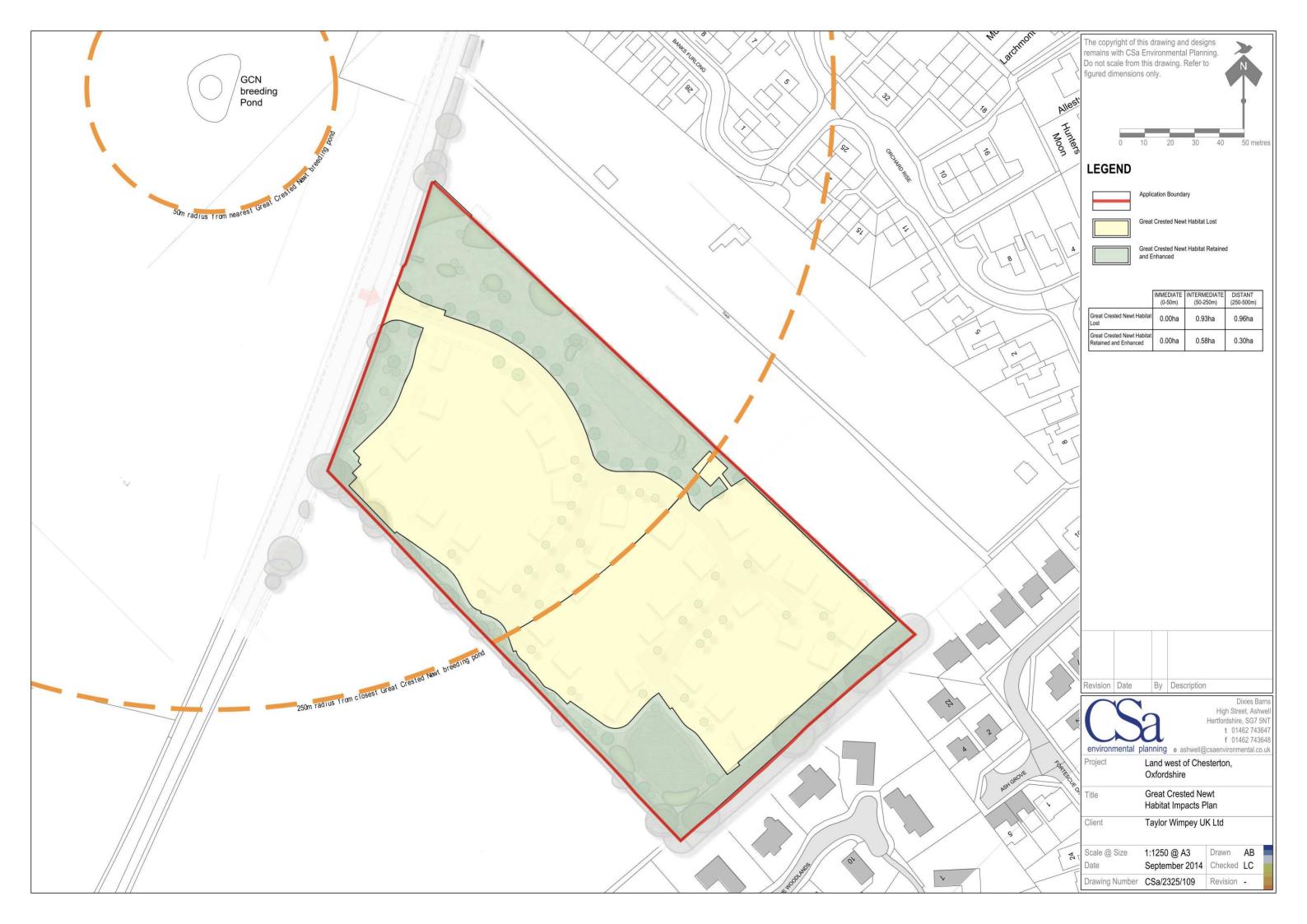
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Appendix B

Great Crested Newt Habitat Impacts Plan (CSa/2325/109)



Appendix C

Landscape Strategy (CSa/2325/108)

