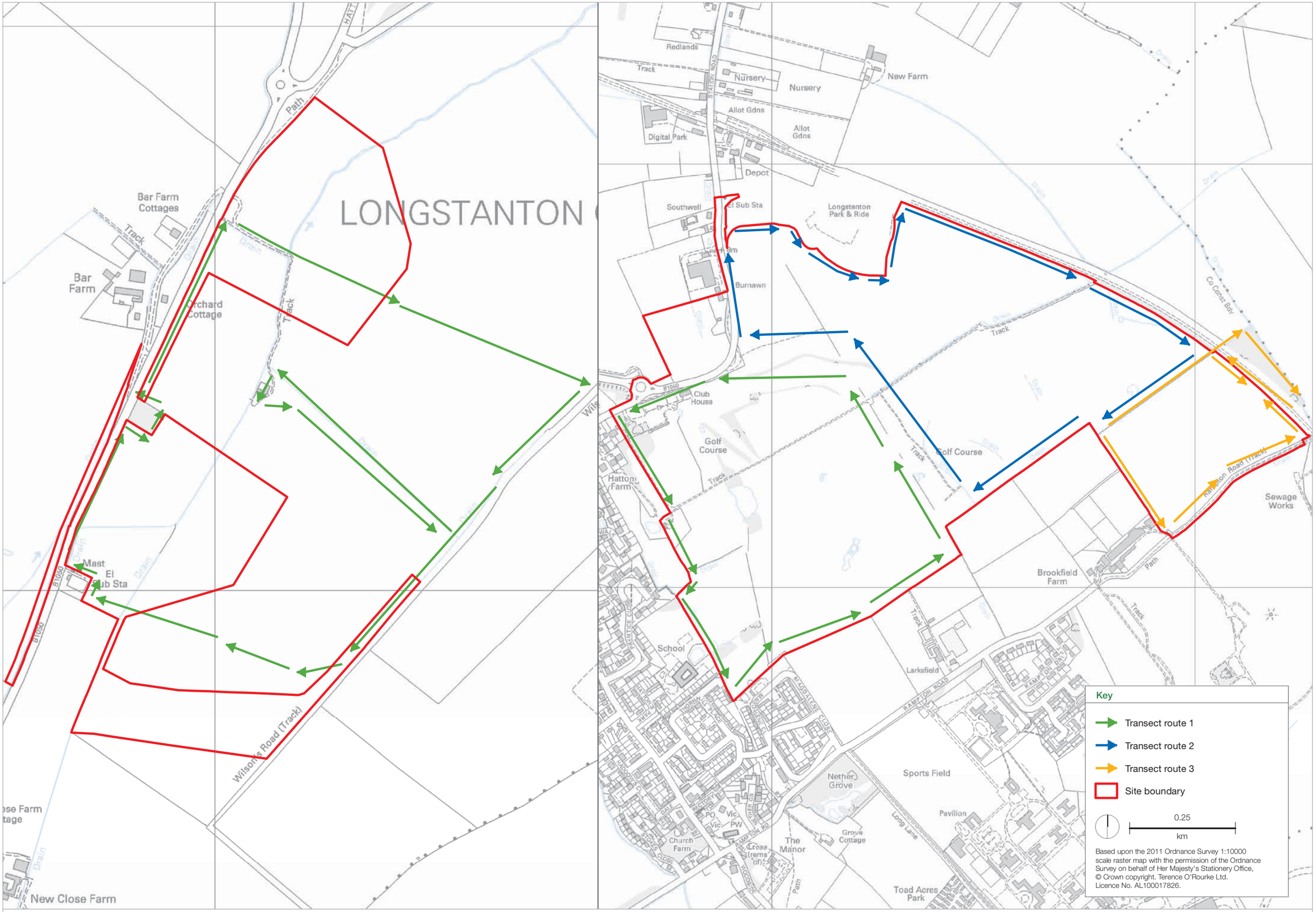


Figure 6.1 **Bat transect routes**

Importance of receptor – Natural heritage

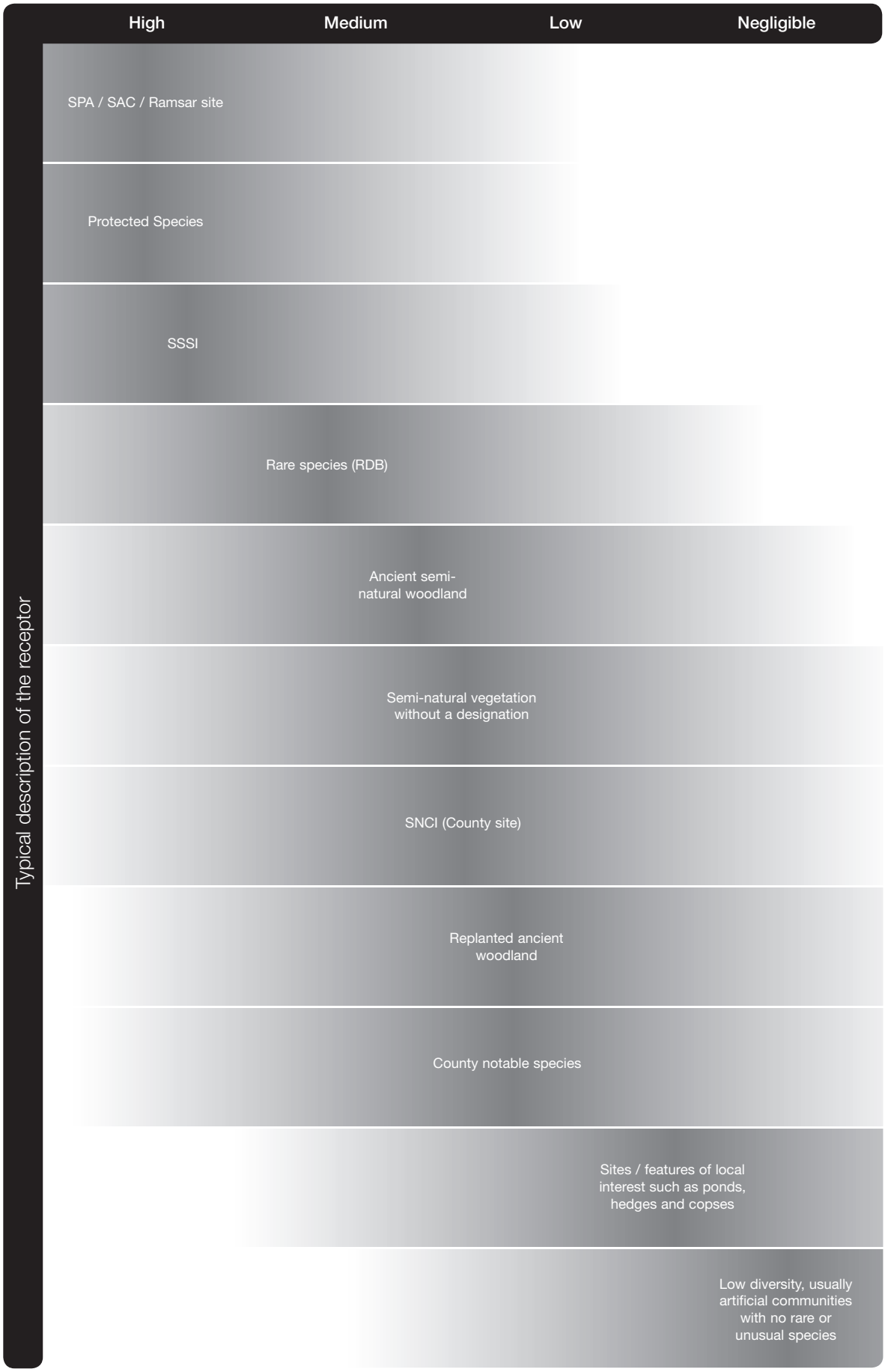
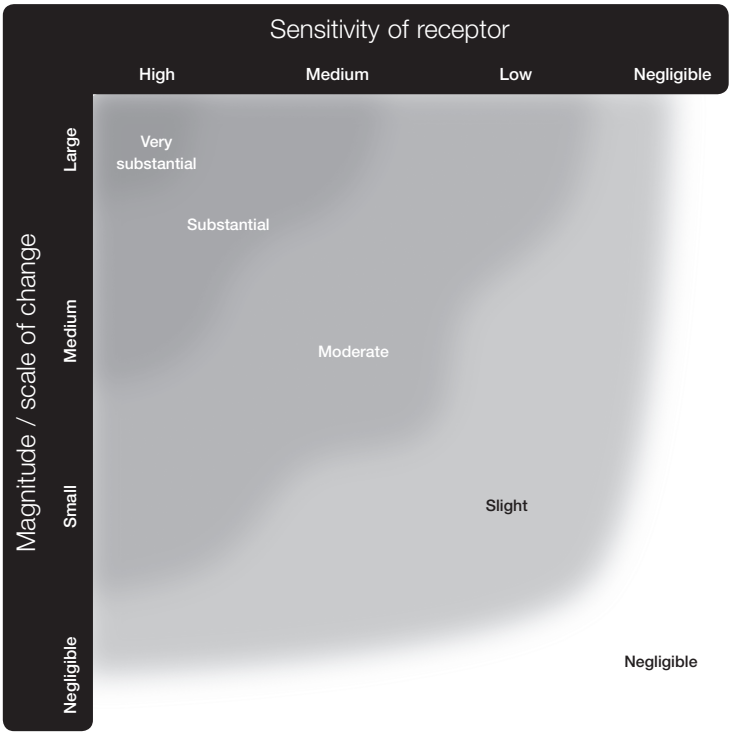


Figure 6.2 **Receptor importance**

Magnitude of change – Natural heritage

Figure 6.3 **Impact magnitude**

Determination of significance matrix – Natural heritage



Professional judgement can be used to vary the category where specific circumstances dictate, for example due to the vulnerability or condition of the receptor.

For example, woodlands that are important for their breeding bird interest may be vulnerable to noise and visual disturbance, while woodlands that are important for their botanical interest will not. The reason for and nature of any variation will be made clear in the assessment.

Degrees of effect

Very substantial:
A major change in the numbers of one or more very important species or the composition or extent of very important communities, or those which support beneficial or very important species. This might be a reduction or complete eradication of a species, which for some organisms could lead to a negative effect on the functioning of the particular ecosystem and/or other connected ecosystems.

Substantial:
A marked change in the numbers of one or more important or very important species or the composition or extent of important or very important communities, or those which support beneficial or important species.

Moderate:
A marked change in population densities or community composition or extent, but not a change which results in total eradication of a species or community or which has any marked effect on important or beneficial species, or important communities.

Slight:
Some change in the population densities or community composition or extent, but without total eradication of any species or community, and with no effects on important species or communities, or ecosystem function.

Negligible:
No marked changes in any of the populations in the environment or in any ecosystem functions.

Significance

If the degree of effect is moderate or above, then the effect is considered to be significant.

Figure 6.4 **Degree of effect**

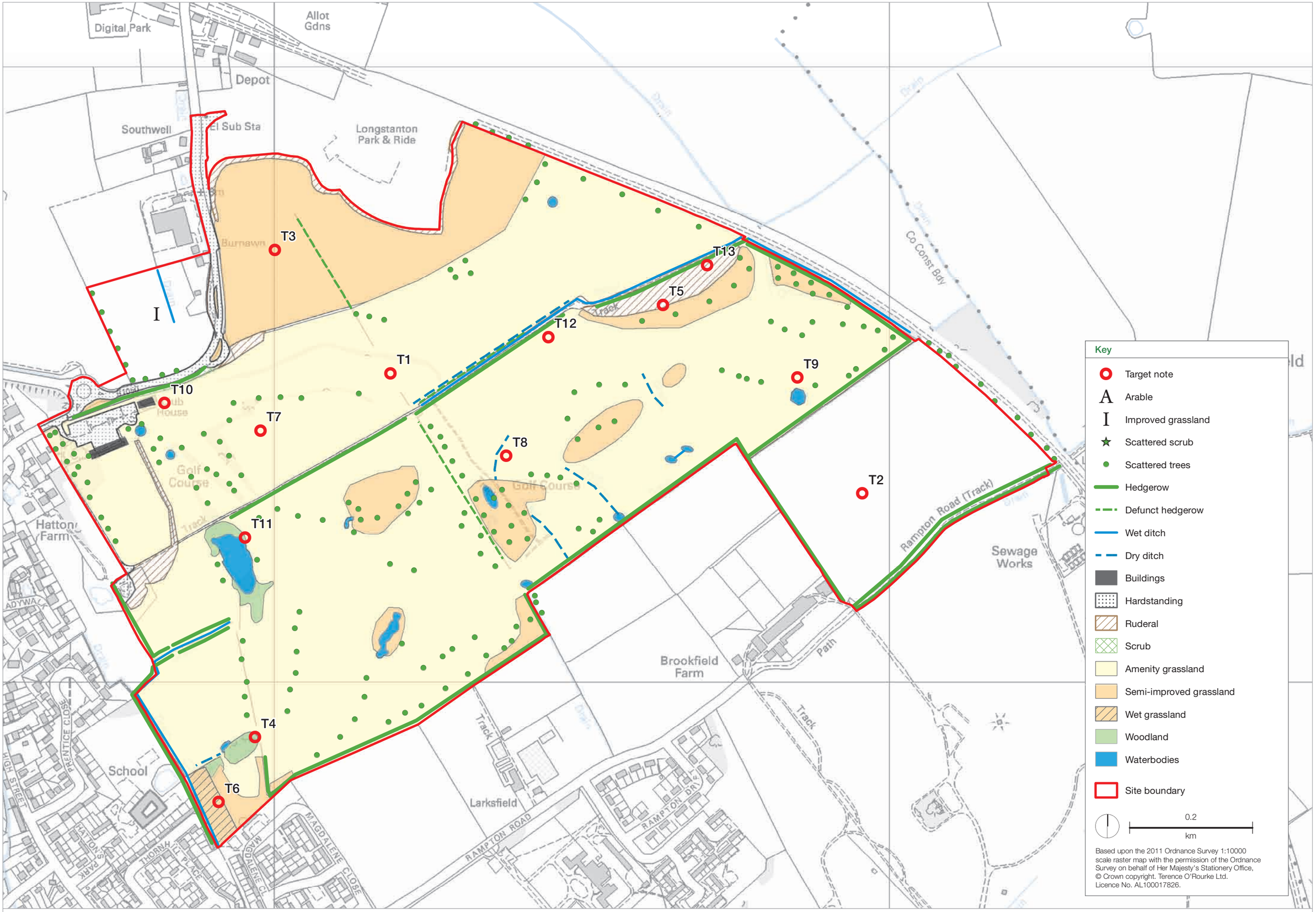


Figure 6.5A **Phase 1 habitat survey (Primary development site)**

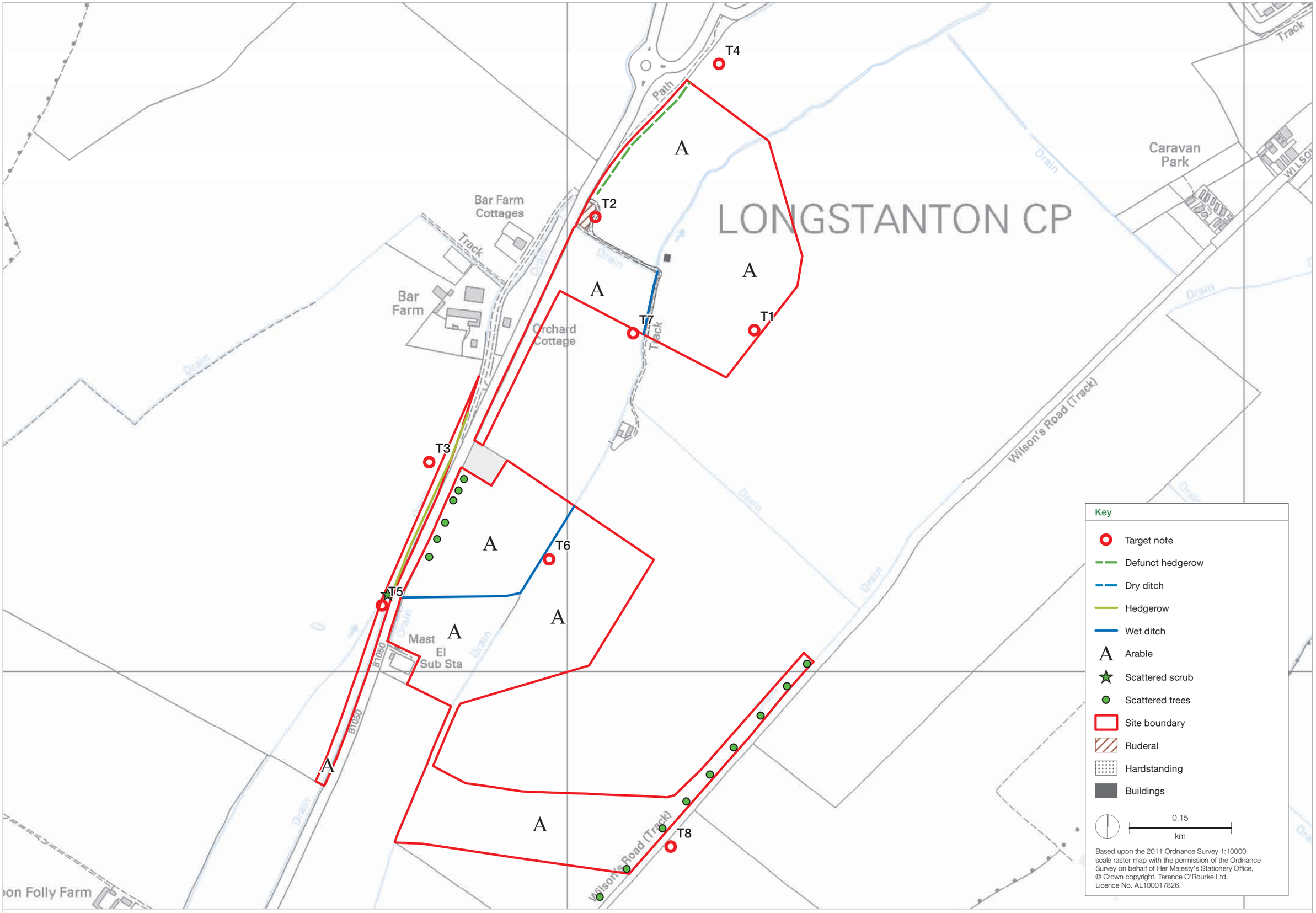


Figure 6.5B **Phase 1 habitat survey (Hatton's Road attenuation ponds area)**

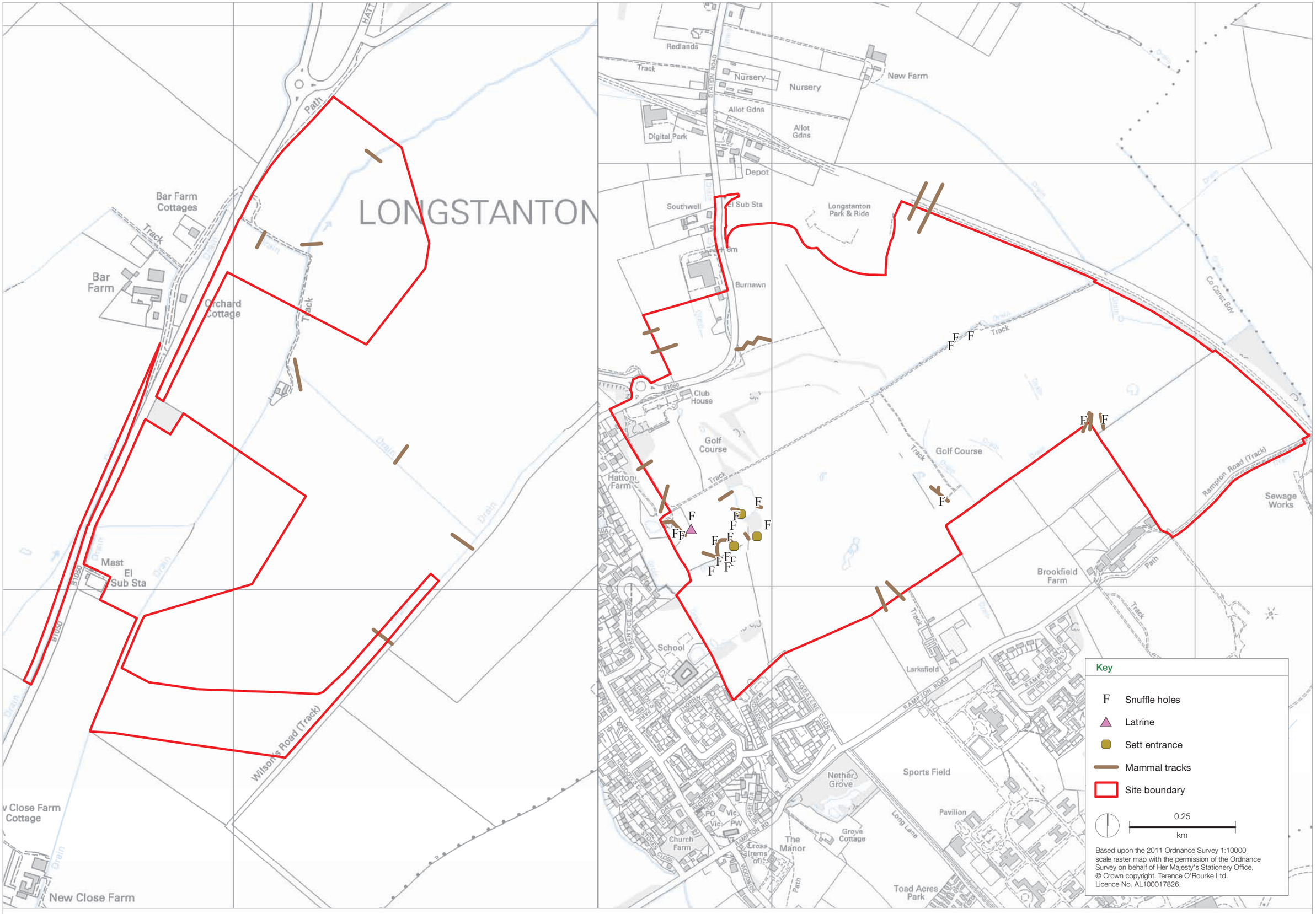


Figure 6.6 **Location of recorded badger evidence**

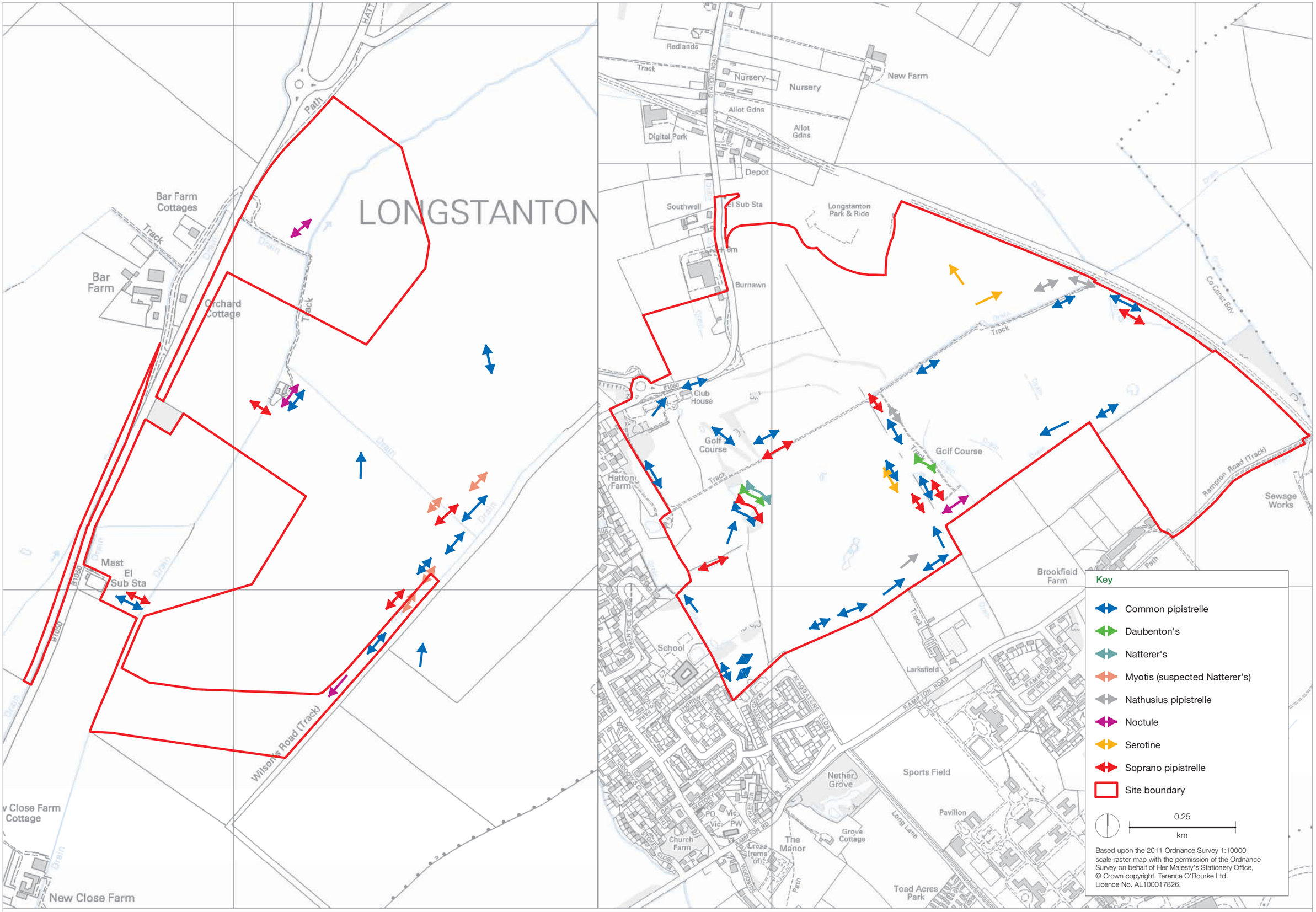


Figure 6.7 **Results of bat transect surveys**

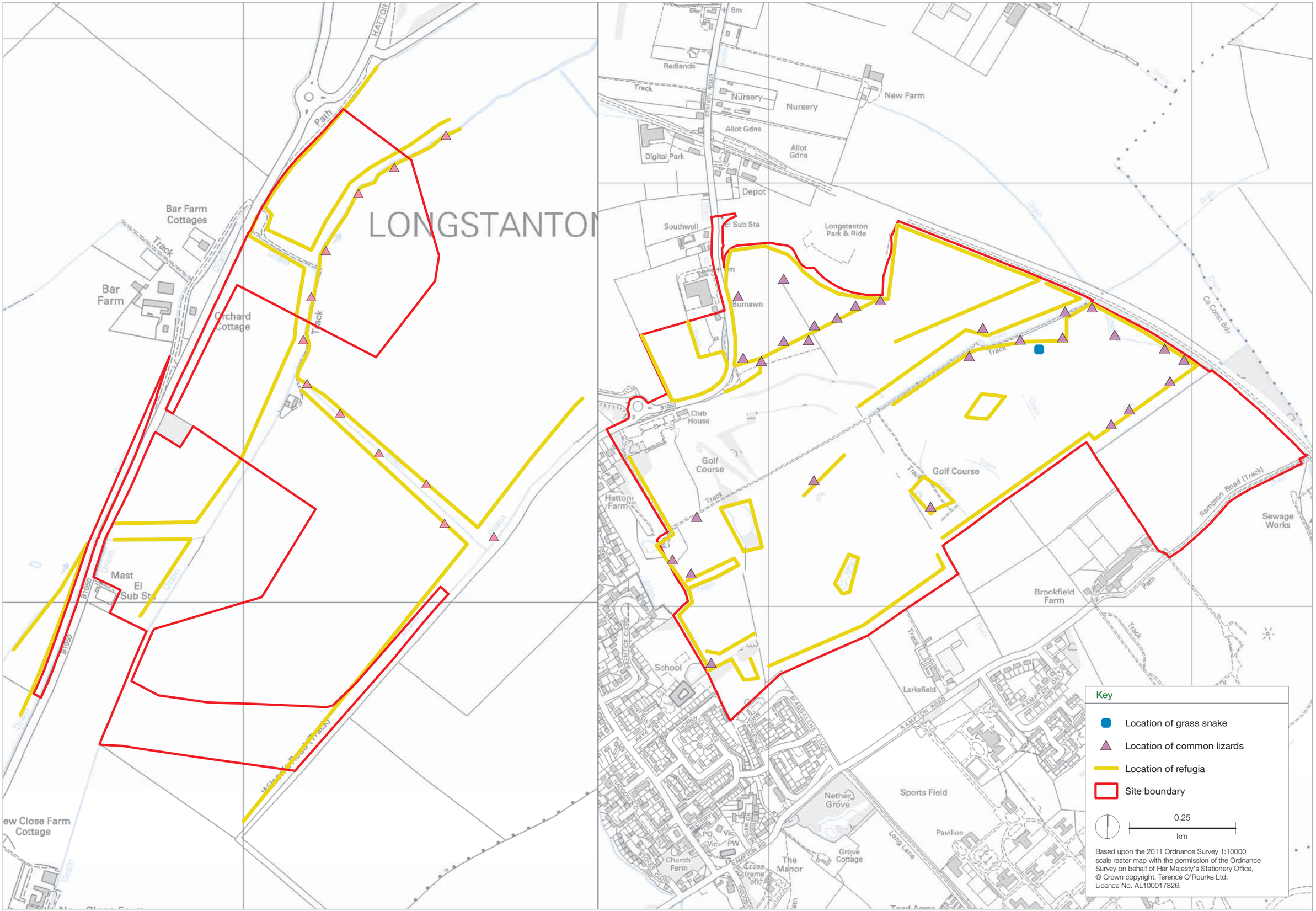


Figure 6.8 **Results of reptile surveys**

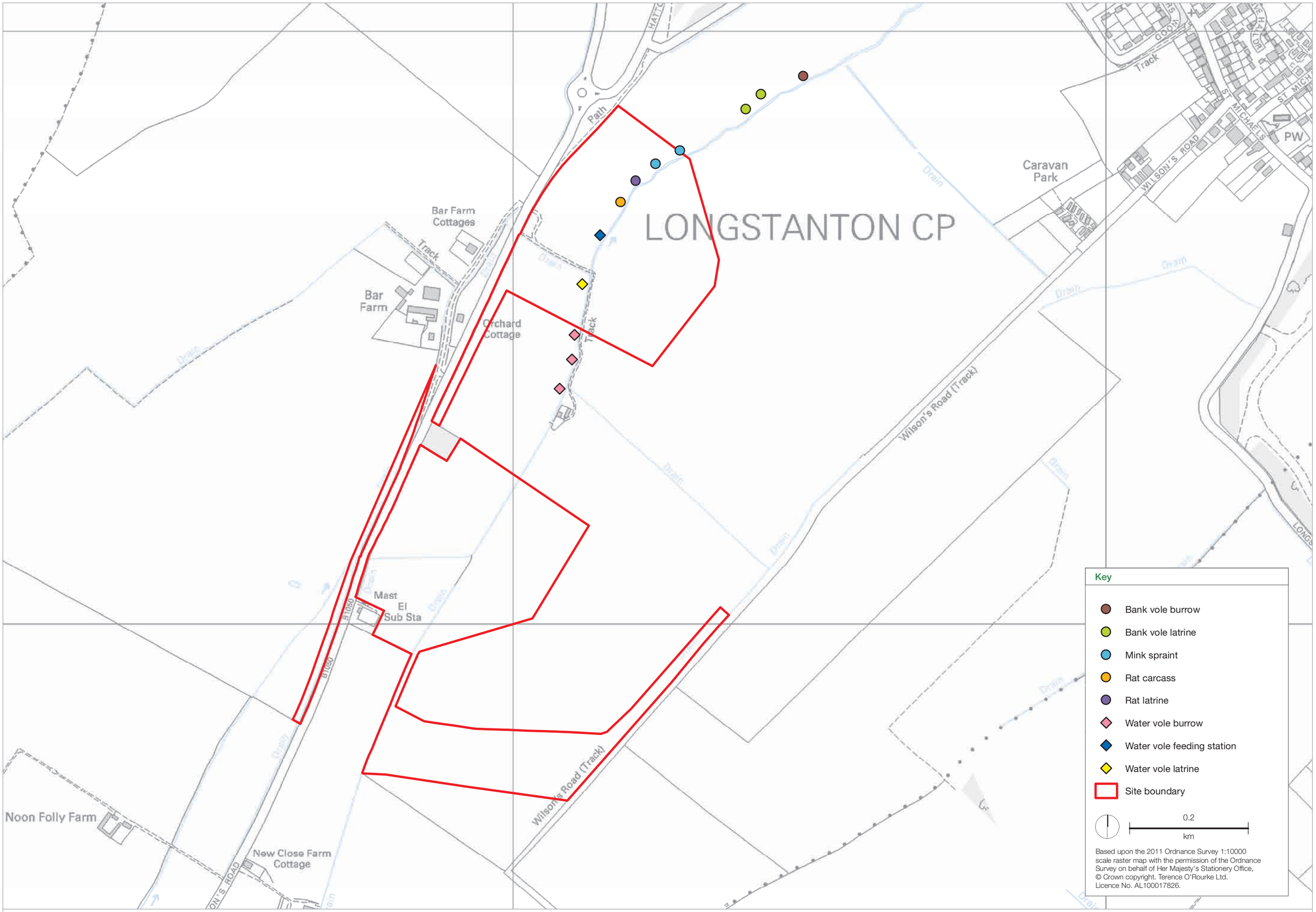


Figure 6.9 **Results of water vole survey**

Figure 6.10a **Ecological mitigation strategy: primary development site**

Figure 6.10b **Ecological mitigation strategy: Hatton's Road attenuation ponds area**