

CLIENT:	AESCUK
PROJECT:	AESC Plant 3
SUBJECT:	Aerial tree inspection survey
JOB NO.:	NT15821
DATE OF SITE VISITS:	25 th – 26 th October 2023
PREPARED BY:	Lucia Ruiz Mut - Ecologist
REVIEWED BY	Tim Palmer – Technical Director (ecology)

1 BACKGROUND

- 1.1.1 Wardell Armstrong (WA) was commissioned by AESCUK to undertake a series of aerial tree inspection surveys in support of the AESC Plant 3 development proposal. The surveys aimed to inspect all trees which are suitable for roosting bats for the presence or recent evidence of roosting bats. A number of potential roosting features (PRF's) within the trees were examined.
- 1.1.2 A ground level Preliminary Bat Roost Assessment (PBRA) was undertaken in 2023 by WA, from which trees that would require an aerial inspection to closer inspect PRF's at height were identified. As a result, T7, TG8, T9 and T10 were selected for further aerial inspections. The tree locations are shown on Figure 12.5 'Bat Roost Suitability'.
- 1.1.3 The trees surveyed are scheduled to be removed to facilitate the proposed works, which has the potential to negatively impact bats and their roosts, should they be present.

2 SURVEY METHODS

2.1 Identification of Trees with Roost Features

2.1.1 During the Site visit on the 25th and 26th of October 2023, seven trees were inspected of which six trees were subjected to an aerial inspection. These included T7, TG8 East TG9 West, T9 and T10 plus an additional tree that were considered as offering potential roosting features at the time of the survey. That is, an additional ash tree labelled T9+ due to its proximity to T9. In addition, a large over-mature willow tree was inspected from the ground but is considered unsafe to climb.

2.2 Tree Climbing Approach/Method



- 2.2.1 The trees were first inspected from the ground to identify PRF's such as cracks, splits, holes and loose bark, cavities, etc. To investigate PRFs further, the trees were climbed by two certified tree climber ecologists using rope and harness access methods.
- 2.2.2 The PRFs were closely inspected and, where possible, a digital endoscope was used to assess in greater detail their suitability for roosting bats and to look for evidence of bats, such as live or dead bats, staining or odour.



3 RESULTS

3.1.1 Table 1 below summarises the results of the climb and inspect surveys:



Table 1: Climb and Inspect Survey Results

Label	Note	Photo	BRP
T7			
	Cavity in trunk, N aspect c. 1.5m high, extending 20cm but exposed through a secondary hole above leading to element ingress. Potentially suitable for a limited number of individuals in summer.		PRF-I



Cavity in trunk on SE aspect approx. size 50cm length and 5 cm wide. Exposed to the elements. There is a superficial cavity within.	Negligible
Branch cavity on E aspect of the N facing main branch, approx. size 10x10cm, extending c. 20cm offering room for a small number of bats.	PRF- I



TG8		
Western tree	Loose bark on western tree around trunk base, primarily on the NE aspect but present in all directions, heavily open to the elements, i.e., rain, but well protected from wind dur to dense hawthorn surrounding the tree. Has the potential to be used opportunistically by a small number of bats.	PRF - I



Eastern tree	Some loose bark on eastern tree but no significant void	Negligible
	created, may increase suitable over time.	
Additional	Large branch tear out exposing heartwood of the tree	PRF - M
willow	on the S aspect 1.5-2m high, creating a large cavity	
	within. It slightly exposed but cavity extends c. 40-	
	50cm within	



Additional willow	Another cavity in branch, didn't appear to connect with the above-mentioned tear out but could not be further inspected for safety reasons.	PRF-M/H
Т9		
	Trunk showing cavity/callus roll which does not extend or provide cavity and upward facing branch that has snapped off offering no entrance hole/cavity	Negligible

NT15821/12

OCTOBER 2023



T9+		
	Trunk cavity on the NE aspect at the base, extending c. 15-20cm into the heart of the tree	PRF-I
T10		
	Knot hole on the NE aspect c. 4m high, approx. size 5x5cm, superficial, does not extend further, plus 2 more, one on each main branch of the first fork.	Negligible











4 CONCLUSION

4.1 Results Summary

- 4.1.1 The climb and inspect surveys successfully managed to exhaustively search T7, TG8 (apart from the new identified willow due to safety reasons), T9, T9+ and T10 for signs of use by bats. No bat roosts were identified within any of the trees surveyed at the time of the survey.
- 4.1.2 T7, TG8 and T9+ show bat roosting features with potential to be used by a small number of individuals (PRF-I) during the active season between March to October inclusive.
- 4.1.3 The willow tree included within TG8, and T10, show bat roosting features with potential to be use by a larger number of bats (PRF-M) and, in particular, T10 is considered to offer maternity roost potential in the form of the cavity at the base of the trunk.

4.2 Mitigation

- 4.2.1 It is considered that all of the inspected trees can be felled without the loss of roosts, based on the likely absence of roosting bats and the lack of observed evidence.
- 4.2.2 The willow tree to the west of TG8 has one feature of at least moderate suitability, which could not be safely accessed and therefore remains unchecked. It is therefore recommended that this feature is subject to emergence/dawn survey in advance of felling.
- 4.2.3 It is recommended that as a precaution, all trees are inspected again (where possible), immediately in advance of felling. In the event that there is any doubt regarding the potential presence of bats, the trees should be felled according to a 'soft felling' protocol, whereby all of the limbs containing features are lowered to the ground using rope access techniques. Soft felling would not be required where a further full inspection within 24hrs confirmed the absence of bat roosts.



© Copyright Reserved

	 <u>■</u> Site Boun Hedgerov Trees with 	idary v with Bat Roost Su n Bat Roost Suitabi	itablilty ity	
<u>Nc</u> Bo	<u>ites:</u> undaries are ind	icative	oc only	
Ae	nai imagery sho	wn for context purpos	es only.	
	Г	DETAILS	DATE DRAWN	CHKD APPD
		AESC UK	R	
AESC PLANT 3				
FIGURE 12.5 BAT ROOST SUITABILITY				
DRG N	NT15821/FIGURE 12.5 P01			
DRG S	A3	SCALE 1:5,000	09/10/202	23
UKAW	SRW			
(V a	vardel mstrong		