

# Mammal Survey

Survey of Non-Volant Mammalian Prey and Predator Species at Mount Jessop
Bog

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including mammals.

#### Compliance

The survey was carried out in compliance with:

- All relevant EU requirements and national legislation for the time
- European Communities (Birds and Natural Habitats) Regulations 2011, as amended Wildlife Act 1976, as amended.
- Good Practice Guidance for Habitats and Species (CIEEM, 2021)
- All records of species identified will be reported to the National Biodiversity Data Centre.



#### Section 1: Background

Veon Ltd. (Veon Ecology) has been appointed by Adam Mulvihill, Biodiversity Officer at Longford County Council to conduct a survey of mammalian species present in Mount Jessop SAC and NHA. This project was supported by the National Parks and Wildlife Service and Longford County Council and is part of the Local Biodiversity Action Fund initiative. Two of the objectives of the Local Biodiversity Action Fund (LBAF) are particularly relevant to this project, namely:

#### **Objective 3: Secure Nature's Contribution to People**

1. Actions highlight the relationship between nature and people in Ireland. These include recognising the tangible and intangible values of biodiversity, promoting nature's importance to our culture and heritage and recognising how biodiversity supports our society and our economy. Mount Jessop Bog has signage at the entrance and efforts are underway to make this area accessible to the public. Therefore, developing a greater understanding of the mammal fauna in this area will greatly assist in promoting public awareness/engagement and the importance of conserving wildlife in their area.

#### 2. Objective 4: Enhance the Evidence Base for Action on Biodiversity

This objective focuses on biodiversity research needs, as well as the development and strengthening of long-term monitoring programmes that will underpin and strengthen future decision-making. Action will also focus on collaboration to advance ecosystem accounting that will contribute towards natural capital accounts. Mount Jessop is a special area of conservation and therefore this baseline information on the mammalian fauna present will help inform conservation objectives for this area.



Figure 1.1: Public signage at the entrance to Mount Jessop Bog.







## Section 2: Site Location and Description (abridged from NPWS site synopsis)

Mount Jessop Bog is located at the centre of the county, approximately 6km south of Longford town. It is a Special Area of Conservation (SAC) (Site code: 002202) and Natural Heritage Area (NHA) (001450) and is a site of considerable conservation significance comprising good examples of the Habitats Directive Annex I habitat Degraded Raised Bog (capable of regeneration) which is reverting to the priority Annex 1 habitat Active Raised Bog (7110) and a small area of the Annex 1 priority habitat Bog Woodland which is developing on the cutover. The site already supports a good diversity of raised bog microhabitats, including some hummock/hollow complexes, and rewetted cutover bog.

Mount Jessop Bog consists of 71.91 ha of raised bog (25.7 ha of high bog and 46.21 ha cutover) (**Figure 2.1**). Approximately 31 ha (44%), both high bog and cutover, was afforested with conifer plantations between 1973 and 1975. Only 11% (8.0 ha) remained open high bog. The remainder of the cutover developed either into birch (Betula spp.) and willow (Salix spp.) scrub (19.5 ha) (**Figure 2.2 and 2.3**) or remained open (12.5 ha) and dominated by heath and bog species (**Figure 2.4**). The conifer plantations were all felled by 2012.

All of the intensive drainage systems associated with the plantations were blocked by 2013 as part of an EU-funded LIFE project so as to raise the water table and restore Active Raised Bog (ARB) on the site.

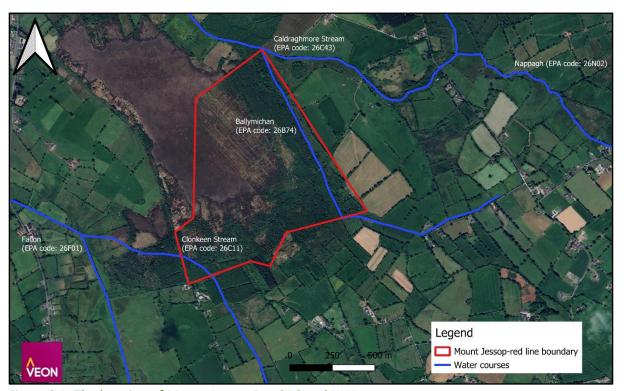


Figure 2.1: The location of Mount Jessop Bog SAC and NHA.





Figure 2.2: Birch (Betula spp.) and Willow (Salix spp.) scrub along the southern border of Mount Jessop Bog.





Figure 2.3: Willow (Salix spp.) at the north of the Mount Jessop Bog site.

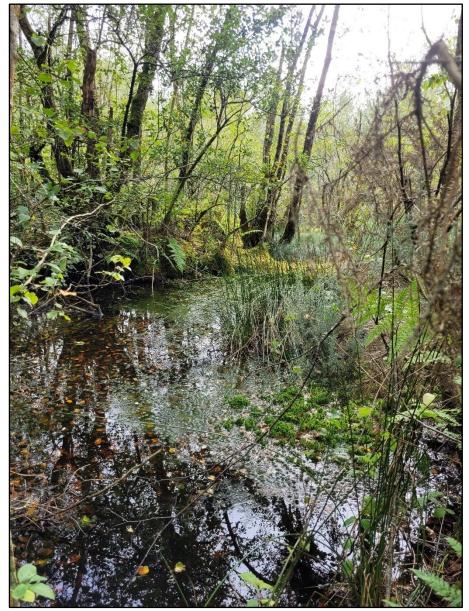


Figure 2.4: Bog pool in the northern section of Mount Jessop Bog.

#### Section 3: Methodology

#### 3.1 Small Mammal Trapping

Longworth traps with shrew exclusion holes were deployed by Amy Haigh, mammal lead and Pascal Mc Kenna, head of division of Veon Ecology in July 2024. Sites were selected with good ground cover and in habitat that was deemed suitable for small mammals. An emphasis was placed on having one grid close to the edge and another towards the centre of the site.

Traps were placed at 10 metres from one another, in a 4 x 4 grid. This resulted in a total of 16 traps per grid. Two grids were deployed at each site leading to a total of 32 traps per site.

Before deployment, the main chamber of each trap was filled with hay and the traps were baited with peanuts and dried mealworms. After placing the trap in position, it was camouflaged by covering it with nearby vegetation. The GPS location of each trap was recorded manually (See Appendices, Table 7.1) and also on the app Fieldmaps. A red or blue flag was also placed at each trap to aid detection (See Figure 3.1).

Baited traps were deployed in the afternoon and checked every subsequent morning thereafter. When traps were closed the entrance tunnel of the trap was enclosed in a polythene bag, the corners of which were snipped to provide breathing holes. The trap was then opened out into the bag and the rodent flushed out. The animal was channelled into the corner and secured before removing the trap. The animal was held securely with its nose out of the breathing hole. It was than identified to species, sexed and classified into an age class. The animal was then released at the site of capture and the trap redeployed. The traps were deployed for a period of three nights, resulting in 96 trap nights.



Figure 3.1: Red flag at trap to aid detection at central trapping grid.



#### 3.1.1 Habitat at each trapping grid

#### Location 1-Edge

This area was located at the southernmost corner of the site. Tree species were composed predominantly of Silver Birch (*Betula pendula*), with scattered Sitka Spruce (*Picea sitchensis*). Understory vegetation consisted of Fern, Bramble (*Rubus fruticosus*), and Gorse (*Ulex europaeus*) (**Figure 3.2**).



Figure 3.2: Silver Birch (*Betula pendula*) and Willow (Salix spp.) Scrub at the south of Mount Jessop Bog where the first trapping grid was located.



#### Location 2-Bog (Centre)

This area was located at the northeast corner of the site. The tree species here were dominated by Birch (*Betula pubescens*) and Willow (Salix spp.) (**Figure 3.3**). The understorey vegetation was composed of Great Hairy Willowherb (*Epilobium hirsutum*), Watercress (*Nasturtium officinale*), Club rush (*Schoenoplectus tabernaemontani*), Spear Thistle (*Cirsium vulgare*), Gorse (*Ulex europaeus*), Meadowsweet (*Filipendula ulmaria*), Marsh Bedstraw (*Galium palustre*), Angelica (*Angelica archangelica*) and Fern.



Figure 3.3: An example of the habitat where the second trapping grid was located at Mount Jessop Bog.



#### 3.2Tracks and Signs Surveys

Prior to trapping commencing the site was walked over by Amy Haigh of Veon Ecology on the 26<sup>th</sup> July 2024. This was to pinpoint suitable trapping sites, camera trap locations and look for signs of tracks, dwellings, scats (**Figure 3.4**), or feeding activity to determine the presence of other mammal species. Unusual sightings of other fauna were also recorded opportunistically. On the week of the 29<sup>th</sup> July after traps were checked, the site was walked for signs, targeting a different section of the site each time. Each record was photographed, identified and the location recorded (**See Appendices, Table 7.2**).



Figure 3.4: Pine Marten (Martes martes) scat close to the edge trapping grid.



#### 3.3 Camera Trapping

Three camera traps were deployed for a period of 10 days. Sites were chosen based on features such as a high concentration of scats, prints, dwellings (Figure 3.5), intersection of well-trodden paths or due to the proximity of topographical features such as water sources. When a camera was deployed care was also taken to ensure that views were not obstructed or that the cameras would not be set off by vegetation blowing in the wind. Each camera was secured where possible on a suitable tree (Figure 3.6). The location was recorded manually (See Appendices, Table 7.3) and on Field Maps and the time of deployment noted. The cameras were set to record images and video.



Figure 3.5: Camera trap deployed close to the badger sett.





Figure 3.6: Camera trap deployed close to the second trapping grid.

#### Section 4: Results

#### 4.1 Small Mammal Trapping

Over a total of 96 traps nights, 9 Bank Voles (*Clethrionomys glareolus*) (**Figure 4.1**) and 10 Wood Mice (*Apodemus sylvaticus*) (**Figure 4.2**) were captured. There was little difference in the prevalence between each species at each trapping grid. The most productive trapping grid was the central trapping grid with a total of 13 captures (**Table 4.2**).

Some of the traps were closed at each site but had been occupied, indicating that shrew was present at all three sites. However, it was unclear whether they were Pygmy Shrew (*Sorex minutus*) or Greater White Toothed Shrew (*Crocidura russula*).



Figure 4.1: Bank Vole (Clethrionomys glareolus)



Figure 4.2: Wood Mouse (Apodemus sylvaticus)



Table 4.1: Number of small mammals caught at each of the three sites.

Species	Total captures
Bank Vole (Clethrionomys glareolus)	9
Wood Mouse (Apodemus sylvaticus)	10
Total	19

Table 4.2: The number of each species caught at each trapping grid.

Site	Location	Trap nights	Species Caught	Number	Total individuals
Mount Jessop Bog	Edge	48	Bank Vole ( <i>Clethrionomys</i> glareolus)	4	6
			Wood Mouse (Apodemus sylvaticus)	2	
	Bog (Centre)	48	Bank Vole ( <i>Clethrionomys</i> glareolus)	5	13
			Wood Mouse (Apodemus sylvaticus)	8	
Total		96		19	19

#### 4.2 Tracks and Signs Survey

Signs of mammal activity were found in the form of dwellings and scats (**Table 4.3, Figure 4.3-4.6**). Badger (*Meles meles*) and Pine Marten (*Martes martes*) were both positively identified.

A Badger (*Meles meles*) sett was found with multiple entrances at the north of the site (**Figure 4.3**, **4.4**). No bedding material and latrines were observed in proximity to the sett so it was unclear whether it was active.

Nine Pine Marten (Martes martes) scats were found throughout the site (Figure 4.5, 4.6).

Table 4.3: Mammal signs recorded during the duration of the project.

	Badger	Deer	Fox	Mink	Otter	Pine Marten	Squirrel	Stoat
			Tracks	and Sigr	ns			
Dwelling	Х					Х		
Feeding								
activity								
Print								
Scat						Х		
Sighting								



Figure 4.3: Badger sett entrance at the north of the site.



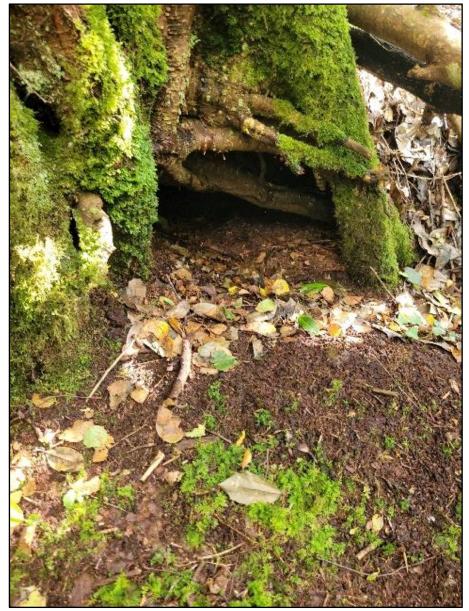


Figure 4.4: Another of the badger sett entrances.



Figure 4.5: Pine Marten (*Martes martes*) scat at the north of the site.



Figure 4.6: Pine Marten (*Martes martes*) scat at the south of the site.



#### 4.3 Camera Trapping

Fox (*Vulpes vulpes*) were recorded on two of the camera traps (**Table 4.4, Appendices, Table 7.4, Figures 4.7, 4.8**). On one of the traps, the edge of an animal was visible that looked like a badger, but it was too unclear to positively verify (**Figure 4.9**).

Table 4.4: Species recorded on the camera traps.

Species	Mount Jessop Bog
Badger (Meles meles)	
Brown Rat (Rattus norvegicus)	
Fox (Vulpes vulpes)	Х
Irish hare ( <i>Lepus timidus hibernicus</i> )	
Pine Marten (Martes martes)	
Fallow Deer ( <i>Dama dama</i> )	
Wood Mouse (Apodemus sylvaticus)	



Figure 4.7: Fox (Vulpes vulpes) at Mount Jessop Bog.







Figure 4.8: Fox (*Vulpes vulpes*) at the north of the site.



Figure 4.9: Image that could not be positively identified as fox (*Vulpes vulpes*) or badger (*Meles meles*).



#### Section 5: Conclusion

In total, six terrestrial mammal species were identified at Mount Jessop Bog (**Table 5.1**). Nine non-volant mammal species were previously recorded within 10km of Mount Jessop Bog, including the Irish Hare (*Lepus timidus hibernicus*). Irish Hare are common in bog habitats, particularly when interspersed with pastoral farmland (Reid *et al.* 2007), as is the case at Mount Jessop. Despite not being recorded in the current study, it cannot be ruled out that this, and other species, were present but not recorded, as the nature of the terrain meant that signs may have been less visible. The site was also in accessible in places which could have further hindered detection.

As shrews were not visually seen, it is unclear whether the Greater White Toothed Shrew (*Crocidura russula*), Pygmy Shrew (*Sorex minutus*), or both, were present. The Greater White Toothed Shrew (*Crocidura russula*) was first discovered in 2007 (Tosh *et al.* 2008) and is present in County Longford (McDevitt *et al.* 2014). Likewise, the Pygmy Shrew (*Sorex minutus*) is widespread and has been previously recorded at Mount Jessop (**Further Appendices, Table 7.5**). Therefore, it cannot be ruled out that both species are present at the three sites. However, this could only be determined through targeted trapping.

Signs of Badger (*Meles meles*), Fox (*Vulpes vulpes*) and Pine Marten (*Martes martes*) were identified at the site (**Table 5.1**), with dens/setts, scats being recorded during the tracks and signs survey, and fox appearing on the camera traps. However, one method alone would not have positively identified any of the species at all three sites, demonstrating the importance of a multiple methodology approach.

Table 5.1: The number of terrestrial mammal species recorded at each site and the method by which they were detected.

	Camera trap	Droppings	Dwelling	Feeding Sign	Print	Roadkill	Sighting	Trapping
			Mou	nt Jessop Bog				
Badger			X					
Bank Vole								х
Brown Rat								
Fallow Deer								
Fox	Х	Х						
Irish Hare								
Mink								
Otter								
Pine Marten		Х						
Shrew species								Х
Squirrel species								
Stoat								
Wood Mouse			Х					Х



#### Section 6: References

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## Section 7: Appendices

Table 7.1: Results of the small mammal trapping at the three sites.

31/07/2024   Sunny	Date	Weather	Temp.	Area	Morthing	Easting	Night	Trap	Open/closed	Species	Age	Sex
31/07/2024   Sunny	31/07/2024	Sunny	21	Edge	53 672912	7 808987	1	1	Closed	Bankvole	Male	Adult
31/07/2024   Sunny   21   Edge   53.672912   7.808987   1   3   Open										Bankvoto	Tidto	ridutt
31/07/2024   Sunny   21   Edge   53.672912   7.808987   1									,			
31/07/2024   Sunny   21   Edge   53.672912   7.808987   1   5   Open												
31/07/2024   Sunny   21   Edge   53.672912   7.808987   1   6   Open			21					5				
31/07/2024   Sunny   21   Edge   53.672912   7.808987   1   7   Closed   Woodmouse   Male   Ju   Ju   Ju   Ju   Ju   Ju   Ju   J	31/07/2024	Sunny	21		53.672912	7.808987	1	6	Open			
31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         9         closed/empty         1           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         10         Open           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         11         Open           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         13         closed/empty           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         14         Open           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         15         Open           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         16         Open           31/07/2024         Sunny         21         Bog         53.6724912         7.808987         1         16         Open           31/07/2024         Sunny         21         Bog         53.677487748         7.797438         1         1	31/07/2024	Sunny	21			7.808987	1	7	Closed	Woodmouse	Male	Juvenile
31/07/2024   Sunny   21   Edge   53.672912   7.808987   1   10   Open	31/07/2024	Sunny	21	Edge	53.672912	7.808987	1	8	closed/empty			
31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         11         Open           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         12         Open           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         13         closed/empty           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         14         Open           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         15         Open           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         16         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         1         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         3         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         4         Open	31/07/2024	Sunny	21	Edge	53.672912	7.808987	1	9	closed/empty			
31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         12         Open         1           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         13         closed/empty         1           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         14         Open         1           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         16         Open         1           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         16         Open         1           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         1         Open         1           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         4         Open         1           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         4         Open         1           31/07/2024         Sunny         21	31/07/2024	Sunny	21	Edge	53.672912	7.808987	1	10	Open			
31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         13         closed/empty         9           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         14         Open         9           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         15         Open         9           31/07/2024         Sunny         21         Edge         53.672912         7.808987         1         16         Open         9           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         1         Open         9           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         2         closed/empty         9           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         4         Open         9           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         5         Open         9           31/07/2024         Sunny         21	31/07/2024	Sunny	21	Edge	53.672912	7.808987	1	11	Open			
31/07/2024   Sunny   21   Edge   53.672912   7.808987   1   14   Open	31/07/2024	Sunny	21	Edge	53.672912	7.808987	1	12	Open			
31/07/2024   Sunny   21   Edge   53.672912   7.808987   1   15   Open	31/07/2024	Sunny	21	Edge	53.672912	7.808987	1	13	closed/empty			
31/07/2024   Sunny   21   Edge   53.672912   7.808987   1   16   Open	31/07/2024	Sunny	21	Edge	53.672912	7.808987	1	14	Open			
31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 2 closed/empty  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 2 closed/empty  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 3 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 4 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 5 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 5 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 6 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 7 closed/empty/shrew  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 8 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 9 closed Bankvole Female A 31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 10 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 11 closed Bankvole Female A 31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 11 closed Bankvole Female A 31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 11 closed Bankvole Female A 31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 12 Closed Woodmouse Female A 31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 12 Closed Woodmouse Female A 31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 12 Closed Woodmouse Unknown A 31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 15 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 15 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 16 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 16 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 16 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 16 Open	31/07/2024	Sunny	21	Edge	53.672912	7.808987	1	15	Open			
31/07/2024   Sunny   21   Bog   53.67748   7.797438   1   2   closed/empty	31/07/2024	Sunny	21	Edge	53.672912	7.808987	1	16	Open			
31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         3         Open         31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         4         Open         31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         5         Open         31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         6         Open         9	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	1	Open			
31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 5 Open	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	2	closed/empty			
31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         5         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         6         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         7         closed/empty/shrew           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         9         closed         Bankvole         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         10         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         11         closed         Bankvole         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         11         closed         Bankvole         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         12         Closed         Woodmouse <t< td=""><td>31/07/2024</td><td>Sunny</td><td>21</td><td>Bog</td><td>53.67748</td><td>7.797438</td><td>1</td><td>3</td><td>Open</td><td></td><td></td><td></td></t<>	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	3	Open			
31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         6         Open         31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         7         closed/empty/shrew         31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         8         Open         9         closed         Bankvole         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         10         Open         9         Open         9         Closed         Bankvole         Female         A         A         31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         11         closed         Bankvole         Female         A         A         31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         11         closed         Woodmouse         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         13         closed         Woodmouse         Unknown         A         31/07/2024	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	4	Open			
31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         7         closed/empty/shrew           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         8         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         9         closed         Bankvole         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         10         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         11         closed         Bankvole         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         12         Closed         Woodmouse         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         13         closed         Woodmouse         Unknown         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	5	Open			
31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         8         Open         31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         9         closed         Bankvole         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         10         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         11         closed         Bankvole         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         12         Closed         Woodmouse         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         13         closed         Woodmouse         Unknown         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         14         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         15         Open </td <td>31/07/2024</td> <td>Sunny</td> <td>21</td> <td>Bog</td> <td>53.67748</td> <td>7.797438</td> <td>1</td> <td>6</td> <td>Open</td> <td></td> <td></td> <td></td>	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	6	Open			
31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         9         closed         Bankvole         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         10         Open            31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         11         closed         Bankvole         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         12         Closed         Woodmouse         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         13         closed         Woodmouse         Unknown         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         14         Open            31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         15         Open            01/08/2024         Sunny         21         Bog         53.672912	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	7	closed/empty/shrew			
31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         10         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         11         closed         Bankvole         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         12         Closed         Woodmouse         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         13         closed         Woodmouse         Unknown         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         14         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         15         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         16         Open           01/08/2024         Sunny         21         Edge         53.672912         7.808987         2         1         Open	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	8	Open			
31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         11         closed         Bankvole         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         12         Closed         Woodmouse         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         13         closed         Woodmouse         Unknown         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         14         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         15         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         16         Open           01/08/2024         Sunny         21         Edge         53.672912         7.808987         2         1         Open	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	9	closed	Bankvole	Female	Adult
31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         12         Closed         Woodmouse         Female         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         13         closed         Woodmouse         Unknown         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         14         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         15         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         16         Open           01/08/2024         Sunny         21         Edge         53.672912         7.808987         2         1         Open	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	10	Open			
31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         13         closed         Woodmouse         Unknown         A           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         14         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         15         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         16         Open           01/08/2024         sunny         21         Edge         53.672912         7.808987         2         1         Open	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	11	closed	Bankvole	Female	Adult
31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         14         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         15         Open           31/07/2024         Sunny         21         Bog         53.67748         7.797438         1         16         Open           01/08/2024         sunny         21         Edge         53.672912         7.808987         2         1         Open           Overcast,	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	12	Closed	Woodmouse	Female	Adult
31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 15 Open  31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 16 Open  Overcast, 01/08/2024 sunny 21 Edge 53.672912 7.808987 2 1 Open  Overcast, 01/08/2024 Sunny 21 Edge 53.672912 7.808987 2 1 Open	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	13	closed	Woodmouse	Unknown	Adult
31/07/2024 Sunny 21 Bog 53.67748 7.797438 1 16 Open  Overcast, sunny 21 Edge 53.672912 7.808987 2 1 Open  Overcast, Overcast, Sunny Overcast,	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	14	Open			
O1/08/2024         Overcast, sunny         21         Edge         53.672912         7.808987         2         1         Open           Overcast,         Overca	31/07/2024	Sunny	21	Bog	53.67748	7.797438	1	15	Open			
01/08/2024         sunny         21         Edge         53.672912         7.808987         2         1         Open           Overcast,         0 <td>31/07/2024</td> <td></td> <td>21</td> <td>Bog</td> <td>53.67748</td> <td>7.797438</td> <td>1</td> <td>16</td> <td>Open</td> <td></td> <td></td> <td></td>	31/07/2024		21	Bog	53.67748	7.797438	1	16	Open			
	01/08/2024	,	21	Edge	53.672912	7.808987	2	1	Open			
	01/08/2024	Overcast, sunny	21	Edge	53.672912	7.808987	2	2	Open			
01/08/2024         sunny         21         Edge         53.672912         7.808987         2         2         Open           Overcast,         Vercast,         Ver	V1/ VU/ ZUZ4			Luge	55.572312	7.000307			Орен			
01/08/2024         sunny         21         Edge         53.672912         7.808987         2         3         closed         Woodmouse         Female	01/08/2024		21	Edge	53.672912	7.808987	2	3	closed	Woodmouse	Female	
01/08/2024 sunny 21 Edge 53.672912 7.808987 2 4 Open	01/08/2024	-	21	Edge	53.672912	7.808987	2	4	Open			
Overcast, 01/08/2024 sunny 21 Edge 53.672912 7.808987 2 5 Open	01/08/2024	,	21	Fdøe	53,672912	7.808987	2	5	Open			
Overcast,				Lugo								
01/08/2024 sunny 21 Edge 53.672912 7.808987 2 6 Open Overcast,	01/08/2024		21	Edge	53.672912	7.808987	2	6	Open		-	
01/08/2024 sunny 21 Edge 53.672912 7.808987 2 7 Open	01/08/2024	sunny	21	Edge	53.672912	7.808987	2	7	Open			
Overcast, Overca	01/08/2024	Overcast, sunny	21	Edge	53.672912	7.808987	2	8	closed	Bankvole	Male	Adult



01/00/0004	Overcast,	01	Edga	F2 672042	7 000007			Onen			
01/08/2024	Overcast,	21	Edge	53.672912	7.808987	2	9	Open			
01/08/2024	overcast,	21	Edge	53.672912	7.808987	2	10	Open			
01/08/2024	Sunny	21	Edge	53.672912	7.808987	2	11	Open			
01/08/2024	Overcast, sunny	21	Edge	53.672912	7.808987	2	12	Open			
01/08/2024	Overcast, sunny	21	Edge	53.672912	7.808987	2	13	Open			
01/08/2024	Overcast, sunny	21	Edge	53.672912	7.808987	2	14	Open			
01/08/2024	Overcast, sunny	21	Edge	53.672912	7.808987	2	15	Open			
01/08/2024	Overcast, sunny	21	Edge	53.672912	7.808987	2	16	Open			
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	1	Open			
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	2	Open			
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	3	closed	Woodmouse	Male	
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	4	Open			
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	5	closed	Woodmouse		Juvenile
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	6	closed	Woodmouse	Male	
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	7	Open			
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	8	closed	Woodmouse	Female	
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	9	Open			
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	10	Open			
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	11	closed	Bankvole	Male	
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	12	Open			
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	13	closed	Woodmouse	Male	
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	14	closed	Bankvole	Male	
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	15	Open			
01/08/2024	Overcast, sunny	21	Bog	53.67748	7.797438	2	16	Open			
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	1	closed/empty			
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	2	closed/empty			
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	3	closed/empty			
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	4	closed/empty			
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	5	Disturbed			1
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	6	closed/empty			1
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	7	Open			1
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	8	closed	Bankvole	Female	Juvenile
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	9	closed/empty			
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	10	closed/empty			
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	11	Open			
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	12	Disturbed			<u> </u>
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	13	Open			ļ
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	14	Open			



02/08/2024	Rain	18	Edge	53.672912	7.808987	3	15	Open			
02/08/2024	Rain	18	Edge	53.672912	7.808987	3	16	closed	Bankvole	Female	Adult
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	1	closed/empty			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	2	closed/empty			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	3	closed	Woodmouse	Male	Juvenile
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	4	closed	Bankvole	Female	Adult
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	5	Open			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	6	Open			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	7	Open			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	8	Open			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	9	Open			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	10	Open			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	11	closed/empty			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	12	Open			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	13	closed/empty			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	14	Open			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	15	Open			
02/08/2024	Rain	18	Bog	53.67748	7.797438	3	16	closed/empty			



Table 7.2: The results of the tracks and signs surveys.

Table 7.2. III	C 1 C3 alt3 O	the tracks	aria signis s	arveys.	1
				Observation	
Date	Site	Northing	Westing	type	Species
	Mount				
01/08/2024	Jessop	53.672858	7.808934	Scat	Pinemarten
	Mount				
01/08/2024	Jessop	53.673058	7.809118	Scat	Pinemarten
	Mount				
01/08/2024	Jessop	53.672985	7.809242	Scat	Pinemarten
	Mount				
02/08/2024	Jessop	53.677622	7.797659	Scat	Pinemarten
	Mount				
02/08/2024	Jessop	53.678701	7.799129	Scat	Pinemarten
	Mount				
02/08/2024	Jessop	53.678887	7.79932	Scat	Pinemarten
	Mount				
02/08/2024	Jessop	53.679106	7.799996	Scat	Pinemarten
	Mount				
02/08/2024	Jessop	53.679436	7.80029	Scat	Pinemarten
	Mount				
02/08/2024	Jessop	53.679436	7.80029	Scat	Pinemarten
	Mount	53.67844	7.797761		
14/08/2024	Jessop	33.07011	7.7.57701	Sett	Badger



#### Table 7.3: Camera trap locations.

Deployed	Removed	Site	Northing	Westing	Reason
14/08/2024	23/08/2024	Mount Jessop	53.67747	7.797214	Trap site
14/08/2024	23/08/2024	Mount Jessop	53.677204	7.797218	Tracks
14/08/2024	23/08/2024	Mount Jessop	53.67844	7.797761	Badger sett



Table 7.4: Species captured on the camera traps.

Date of capture	Time of capture	Site	Location	Northing	Westing	Species
			Mount			
16/08/2024	21:16	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
16/08/2024	21:16	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
16/08/2024	21:16	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
16/08/2024	21:16	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
16/08/2024	21:16	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
16/08/2024	21:16	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
20/08/2024	18:16	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
20/08/2024	18:16	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
20/08/2024	18:16	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
20/08/2024	18:16	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
20/08/2024	18:16	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
20/08/2024	18:17	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
21/08/2024	01:38	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			
21/08/2024	01:38	End of trap line	Jessop	53.67747	7.797214	Fox
			Mount			_
21/08/2024	01:38	End of trap line	Jessop	53.67747	7.797214	Fox
24 /22 /222 4			Mount			_
21/08/2024	01:38	End of trap line	Jessop	53.67747	7.797214	Fox
24 /22 /222			Mount			_
21/08/2024	01:38	End of trap line	Jessop	53.67747	7.797214	Fox
24 /00 /222	04.00	- I (: "	Mount	F0 6	7 70-011	-
21/08/2024	01:38	End of trap line	Jessop	53.67747	7.797214	Fox
46/00/2001	04.07		Mount	F2 6-21.		<b>5</b> 3
16/08/2024	04:37	Badger sett	Jessop	53.67844	7.797761	Fox ?
24 /00 /2024	02.40	Conf	Mount	F2 67720:	7 707040	F
21/08/2024	02:19	Gas funnel	Jessop	53.677204	7.797218	Fox or Badger



### Further Appendices (Biodiversity Data)

Table 7.5: Terrestrial mammal species recorded in 10km<sup>2</sup> grid surrounding the Mount Jessop site recorded since 2000 (NBDC, 2024).

Terrestrial mammal species recorded within 10km <sup>2</sup> of Mount Jessop Woods					
Common Name/Scientific Name	Designations/Conservation Status				
Brown Long-eared Bat (Plecotus auritus)	Protected Species: EU Habitats Directive    Protected Species: EU Habitats Directive >> Annex IV    Protected Species: Wildlife Acts				
Common Pipistrelle (Pipistrellus pipistrellus sensu stricto)					
Daubenton's Bat (Myotis daubentonii)	Protected Species: EU Habitats Directive    Protected Species: EU Habitats Directive >> Annex IV    Protected Species: Wildlife Acts				
Eastern Grey Squirrel (Sciurus carolinensis)	Invasive Species: Invasive Species    Invasive Species: Invasive Species >> High Impact Invasive Species    Invasive Species: Invasive Species >> EU Regulation No. 1143/2014    Invasive Species: Invasive Species >> Regulation S.I. 477 (Ireland)				
Eurasian Badger (Meles meles)	Protected Species: Wildlife Acts				
Eurasian Pygmy Shrew (Sorex minutus)	Protected Species: Wildlife Acts				
Eurasian Red Squirrel (Sciurus vulgaris)	Protected Species: Wildlife Acts				
European Otter (Lutra lutra)	Protected Species: EU Habitats Directive    Protected Species: EU Habitats Directive >> Annex II    Protected Species: EU Habitats Directive >> Annex IV    Protected Species: Wildlife Acts				
Irish Hare (Lepus timidus subsp. hibernicus)					
Lesser Noctule (Nyctalus leisleri)	Protected Species: EU Habitats Directive    Protected Species: EU Habitats Directive >> Annex IV    Protected Species: Wildlife Acts				
Pine Marten (Martes martes)	Protected Species: EU Habitats Directive    Protected Species: EU Habitats Directive >> Annex V    Protected Species: Wildlife Acts				
Pipistrelle (Pipistrellus pipistrellus sensu lato)	Protected Species: EU Habitats Directive    Protected Species: EU Habitats Directive >> Annex IV    Protected Species: Wildlife Acts				
Red Fox (Vulpes vulpes)					
Soprano Pipistrelle (Pipistrellus pygmaeus)	Protected Species: EU Habitats Directive    Protected Species: EU Habitats Directive >> Annex IV    Protected Species: Wildlife Acts				
West European Hedgehog (Erinaceus europaeus)	Protected Species: Wildlife Acts				



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