

A large, faint, light-gray silhouette of a tree with many bare branches is centered on the page, serving as a background for the main text.

# PRELIMINARY ECOLOGICAL APPRAISAL

HOOVER SITE,  
MERTHYR TYDFIL

**WALTERS**

CIVIL ENGINEERING · PLANT · DEVELOPMENT



Project: Hoover Site, Merthyr Tydfil		
Project Number	K001	
Title	Preliminary Ecological Appraisal	
Document Number	K001 - PEA Report-V1.2	
Client	Walters	
Issue Date	05/11/24	
Prepared by:	Alice Wheeler – Junior Ecologist	
This report has been prepared by Sylvan Ecology, with all reasonable skill, care, and diligence within the terms of the Contract with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client, and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.		
Executive summary		
Site	The site is considered to be of low-moderate ecological value. The habitat on site with the highest ecological value are the small areas of woodland on site.	
BATS	<b>Potential High Impact</b> – There are multiple buildings within the survey site that may potentially support bats. Further survey is required to determine whether bats are present on site before any work can commence. There are many trees within and surrounding the site. No trees were noted to have PRFs at time of survey.	
REPTILES	<b>Potential Low Impact</b> –Potential habitat to support reptile species was observed on site and along the site boundaries. Further survey may be required if works have the potential to impact these species. – Recommendation: impacts negated through mitigation.	
DORMOUSE	<b>Negligible Impact</b> – Dormouse are considered unlikely to be present within the site.	
BIRDS	<b>Moderate Impact</b> – There are known colonies of gull species which have been previously recorded nesting on the rooves of multiple factory buildings within the site. The surrounding area is used by a number of commoner birds and the trees and scrub on site provide suitable nesting habitat. Old nests were noted within trees around the site boundary. – Recommendations: impacts negated through mitigation.	
GCN	<b>No Impact</b> – No potential for GCN on site.	
INVERTEBRATES	<b>Negligible Impact</b> – Very limited potential for priority species on site – Recommendation: Potential enhancement opportunities.	
CONCLUSION		
Providing the recommended mitigation measures are adopted, relevant legislation will not be contravened, and ecological issues will not preclude the development.		





## **Contents**

<b>1</b>	<b>INTRODUCTION</b>	<b>4</b>
<b>2</b>	<b>METHODOLOGY</b>	<b>6</b>
<b>3</b>	<b>RESULTS</b>	<b>8</b>
<b>4</b>	<b>SITE EVALUATION</b>	<b>26</b>
<b>5</b>	<b>PROTECTED SPECIES CONSTRAINTS</b>	<b>28</b>
<b>6</b>	<b>RECOMMENDATIONS FOR FURTHER SURVEY</b>	<b>31</b>
<b>7</b>	<b>RECOMMENDATIONS FOR MITIGATION</b>	<b>32</b>
<b>8</b>	<b>ENHANCEMENT OPPORTUNITIES</b>	<b>34</b>
<b>9</b>	<b>CONCLUSION</b>	<b>35</b>





# 1 INTRODUCTION

## Background

1.1 Sylvan Ecology was commissioned to carry out a *Preliminary Ecological Appraisal* survey and desk study for a proposed development at the Hoover Site, Merthyr Tydfil.

1.2 This report serves as an addendum to the previous report issued by Redstart, doc ref: *GC4005-RED-74-XX-RP-L-0001*. The purpose of this addendum is to update the 2022 report and highlight any potential changes.

## Ecological Context

1.3 The site is comprised of one large site and two smaller secondary sites. The largest area is located to the west of Merthyr Road and is an industrial unit. The site is mainly comprised of several large buildings and areas of hard standing. Multiple small buildings are located throughout the site. Around the site boundaries are scattered broadleaved trees, scrub and semi-improved grassland. The south of the site is comprised of a cricket club which has a large area of amenity grassland, bare ground, two buildings and areas of scrub, woodland and introduced shrubs. A smaller site is located to the northeast of the largest site. The site is an old car park comprised mainly of hard standing with borders of scrub and woodland. The smallest site is located to the south of this site. It comprises two buildings, hard standing and boundaries of scrub and woodland.

1.4 The site lies approximately 2km to the southeast of Merthyr Tydfil. All associated land for the proposed development (herein referred to as the site) is located at:

- central OS grid reference: SO 05768 04156;
- nearest post code: CF48 4TU.

1.5 The immediate surrounding landscape is mainly industrial and commercial units. In the wider surrounding area there are residential areas, fields and wooded areas. The Cardiff to Merthyr railway line is adjacent to the west of the site. The River Taff is located on the far side of the railway line approximately 30m to the west of the site boundary. The town of Merthyr Tydfil is located to the northwest.





---

### **Aims of Study**

1.6

The aims of the study are to:

- determine the types of habitats that are present within the site;
- assess the likely presence of protected species and species of principal importance for nature conservation within the site;
- identify any potential ecological constraints to development within the site;
- identify requirements for any additional ecological surveys needed to determine potential ecological impacts; and
- describe measures to mitigate or compensate for any impacts on the ecological interest of the site.





## 2 METHODOLOGY

### **Desk Study**

- 2.1 Existing ecological and nature conservation data relevant to the site were collated from various sources:
- Information relating to protected and notable species within 2 km of the site was provided by Aderyn: LERC Wales' Biodiversity Information and Reporting Database who also provided information relating to statutory designated sites;
  - The Magic website (<http://www.magic.gov.uk/>) was reviewed to determine whether there are any internationally important statutory designated sites for nature conservation, and for other statutory designated sites for nature conservation, within 2 km from site; and
  - Google Earth was used to review aerial photographs of the site and surrounding area in order to better understand the setting and ecological context of the site.

### **Field Survey**

- 2.2 An ecology walkover was undertaken in accordance with the methodology set out in JNCC, 2010<sup>1</sup> by Scott Bailey and Alice Wheeler on 4<sup>th</sup> June 2024 and 14<sup>th</sup> October 2024. The survey was carried out under optimal weather conditions and the ground was soft enough to identify species specific prints.
- 2.3 The survey involved a site walkover of the area falling within site boundary shown on the map in Appendix A, in order to map the main habitat types present. Detailed target notes were made in relation to any notable features considered important to the ecology of the site: these are referred to by the prefix TN in order to assist cross-reference to the habitat map provided in Appendix A.
- 2.4 The survey was extended to include assessment of the potential of the site to support protected or notable species. Although this approach supports an initial analysis of the likely presence of protected or notable species, a comprehensive assessment may require specialist expertise and/or season-critical survey techniques, which fall beyond the scope of this survey. The presence of protected species was noted where possible,

---

1 JNCC (2010) *Handbook for Phase 1 habitat survey - a technique for environmental audit*, Revised reprint 2010, JNCC. Peterborough





but walkthrough surveys cannot usually confirm species presence or absence; only the likelihood of presence can be assessed.

2.5 This is a standard technique for obtaining baseline ecological information for areas of land, including proposed development sites.

2.6 The dominant and readily identifiable higher plant species identified in each of the various habitat parcels were recorded and their abundance was assessed on the DAFOR scale:

- D: Dominant
- A: Abundant
- F: Frequent
- O: Occasional
- R: Rare
- L: Locally, appended to any of the above five categories to reflect local distribution within the site.

2.7 The above scores represent the abundance within the defined area only and do not reflect national or regional abundances. The DAFOR scale information for identified broad-leaved plants is provided as a suffix in the corresponding habitat descriptions (i.e. creeping buttercup (*Ranunculus repens*)(O), with the (O) denoting that occurrence of the plant is occasional).

2.8 Additionally, incidental records of fauna were also made during the survey and the habitats identified were evaluated for their potential to support legally protected species and other species of conservation concern, including species of principal importance for the purpose of maintaining and enhancing biodiversity, listed in Section 7 of the Wales Environment (Wales) Act 2016.

### **Limitations**

2.9 The walkthrough of the cricket club was conducted at a sub-optimal time of year for species recording. Nonetheless, the purpose of this report is not to compile a comprehensive species list but to establish habitat type and potential ecological constraints. Due to the nature of the site, it is considered that sufficient information was gathered for the purposes of this assessment.





## 3 RESULTS

### Desk Study

- 3.1 Information relating to protected and notable species within 2km of the site was provided by Aderyn: LERC Wales' Biodiversity Information & Reporting Database, who also provided information relating to statutory designated sites.

### Desk Study - Habitats

- 3.2 Statutory & Non-Statutory Designated Sites for Nature Conservation. The site was subjected to a search for designated sites within a 2km radius of the site using data supplied by the Aderyn and online desk-based resource MAGIC. The data supplied identified one statutory SSSI and 13 non-statutory SINC's within a 2km radius of the site. The closest sites to the development can be seen in Table 1 below.

**Table 1.** Summary of closest Designated Sites

Site Name	Status	Reason for Designation	Approximate distance from the project site	Importance
Cwm Glo a Glyndyrys	SSSI and SINC	Extensive areas of marshy grassland, species-rich neutral grassland, acid grassland, woodland and heath. Great crested newts have been recorded in ponds on site.	0.5km	National (SSSI) and Local (SINC)
Afon Taf/River Taff	SINC	River corridor including areas of bankside habitats. Known to support otters.	Directly adjacent to western site boundary	Local
Maes Abercanaid/ Abercanaid Fields	SINC	Fields containing marshy grassland and small areas of semi-natural woodland, scattered scrub and trees.	0.2km	Local
Maes Pentrebach/ Pentrebach Fields	SINC	Species-rich semi-improved neutral grassland alongside disused railway embankment. Scattered dense scrub, bracken slopes, dry heathland and acid grassland are also present.	0.3km	Local
Rhydycar West	SINC	Extensive mosaic of 'ffridd' habitats and former mine spoil. Great crested newts occur in small ponds on site.	0.5km	Local
Pentrebach Tip	SINC	Large colliery spoil tip, dry heathland and 'ffridd'.	0.6km	Local





Glynmil	SINC	Mosaic of 'ffridd', old colliery spoil tips, purple moor-grass pastures, acid flush, unimproved acid grassland, woodland and several ponds and small streams.	0.6km	Local
Graig Gethin	SINC	Wooded 'ffridd', extensive ancient semi-natural oak woodland, bracken slopes and scree areas.	0.8km	Local

### Desk Study - Species

#### Bats

- 3.3 Aderyn provided 320 records for at least eight species of bat within 2km of the site. These are brown long-eared bat (*Plecotus auritus*), common pipistrelle (*Pipistrellus pipistrellus*), Daubenton's bat (*Myotis daubentonii*), soprano pipistrelle (*Pipistrellus pygmaeus*), lesser horseshoe (*Rhinolophus hipposideros*), natterer's bat (*Myotis nattereri*), serotine (*Eptesicus serotinus*) and noctule (*Nyctalus noctule*). In addition, Aderyn provided records of an unidentified *Myotis* bat species (*Myotis* sp.), unidentified pipistrelle bat species (*Pipistrellus* sp.), unidentified long-eared bat species (*Plecotus* sp.) and unidentified bat species (*Chiroptera*).

- 3.4 The closest bat record provided by Aderyn is located approximately 348m south of the site boundary and was for a common pipistrelle.

#### Great Crested Newt (GCN)

- 3.5 Aderyn provided one record for GCN (*Triturus cristatus*) within 2km of the application site, the closest record is 1.9km west of the site.

#### Reptiles

- 3.6 Aderyn provided six records of reptiles within 2km of the application site. These comprised of common lizard (*Zootoca vivipara*), grass snake (*Natrix helvetica*) and slow worm (*Anguis fragilis*). The closest of these records was for grass snake located on the railway embankment adjacent to the former Hoover site.

#### Badgers

- 3.7 Aderyn provided two badger (*Meles meles*) records within 2km of the site. The badger was roadkill found 629m southwest of the site.

#### Dormouse

- 3.8 Aderyn provided no records for dormice (*Muscardinus avellanarius*) within 2km of the application site.





---

### Invertebrates

- 3.9 Aderyn provided 38 records for priority species of invertebrates within 2km of the application site. The species are *Eugnorisma glareosa*, *Timandra comae*, *Ceramica pisi*, *Bombus humilis*, *Spilosoma lutea*, *Xanthorhoe ferrugata*, *Apamea remissa*, *Amphipoea oculatea*, *Agrochola helvola*, *Hipparchia semele*, *Allophyas oxyacanthae*, *Acronita rumicis*, *Euphydryas aurinia*, *Xestia castanea*, *Hydraecia micacea*, *Cirrhia icteritia*, *Scotopteryx chenopodiata*, *Leucania comma*, *Coenonympha pamphilus*, *Ecliptopera silaceata*, *Crambus patella*, *Bombus monticola*, *Bombus pascuorum*, *Craniophora ligustri*, *Bombus Diarsia rubi* and *Spilosoma lubricipeda*.

### Habitat assessment

- 3.10 A map showing the habitats present within the site is given in Appendix A. Photographs depicting the main ecological features may be found below. Eleven habitat types were identified within, or immediately adjacent to the boundary of the site, as follows:

- Bare ground;
- Hard standing;
- Scattered broadleaved trees;
- Semi-improved grassland;
- Amenity grassland;
- Broadleaved woodland;
- Introduced shrub;
- Dense scrub;
- Scattered scrub;
- Invasive species; and
- Buildings.

### Bare Ground

- 3.11 A small area of bare ground was present within the cricket club. This bare ground formed a dirt road from the entrance to the club to behind the bowling green. Very sparse vegetation was present within this area. Species present included willowherb species (*Epilobium* spp.), dandelion species (*Taraxacum* spp.) and bramble (*Rubus fruticosus*).

### Hard Standing

- 3.12 Areas of hard standing were present throughout the site. These areas were mainly roads, car parks or walkways. Sparse vegetation was present within these areas. Species present included herb Robert (*Geranium robertianum*), nettle, willowherb species, buddleia (*Buddleja davidii*), dandelion species, St John's wort (*Hypericum* spp.), creeping buttercup (*Ranunculus repens*), dog rose (*Rosa canina*), bramble, nettle (*Urtica dioica*), thistle species (*Cirsium* spp.), gorse (*Ulex europaeus*), ivy (*Hedera helix*), white clover (*Trifolium repens*) and ragwort (*Senecio jacobaea*).





---

### Scattered Broadleaved Trees

- 3.13 Scattered trees were present throughout the site. The majority of these trees were located along the eastern site boundary and were mainly sycamores (*Acer pseudoplatanus*) (G1). Horse chestnut (*Aesculus hippocastanum*) trees (G2) were present along the eastern boundary of the cricket club grounds to the south of the site. Multiple scattered trees (G3) were present behind the main cricket club building. The species present included hawthorn (*Crataegus monogyna*), sycamore, lime (*Tilia* spp.) and whitebeam (*Sorbus* spp.).
- 3.14 Two birds' nests were recorded in scattered trees at the time of survey. One nest was located in a sycamore tree on the eastern boundary of the main Hoover site (TN3). This nest is in the same area as one noted in doc: *GC4005-RED-74-XX-RP-L-0001* and was unactive at the time of survey. The second nest was located in a lime tree behind the main cricket club building (TN10).
- 3.15 No trees were noted to have potential roost features for bats at the time of survey.



*Photo 1: Row of sycamore trees (G1) along the eastern site boundary of the main Hoover site.*

### Semi-Improved Grassland

- 3.16 Semi-improved grassland was mainly present around the boundaries of the site. The species compositions varied between areas and are listed below.
- SI1- Grass species present included perennial ryegrass (*Lolium perenne*), Yorkshire fog (*Holcus lanatus*) and cock's-foot (*Dactylis glomerata*). The grassland was relatively species-poor. Species present included dandelion species, daisy (*Bellis perennis*), ribwort





plantain (*Plantago lanceolata*), white clover, broad-leaved dock (*Rumex obtusifolius*), nettle, ragwort, creeping buttercup, herb Robert, lesser celandine (*Ficaria verna*), thistle species, yarrow (*Achillea millefolium*), cuckooflower (*Cardamine pratensis*), red dead nettle (*Lamium purpureum*), bird's-foot-trefoil (*Lotus corniculatus*), common field speedwell (*Veronica persica*), vetch species (*Vicia* spp.), wild strawberry (*Fragaria vesca*), barren strawberry (*Potentilla sterilis*), germander speedwell (*Veronica chamaedrys*) and field madder (*Sherardia arvensis*).

- SI2- Grass species present included perennial ryegrass, Yorkshire fog and cock's-foot. The grassland was relatively species-poor. Species present included dandelion species, daisy, ribwort plantain, white clover, broad-leaved dock, cleavers (*Galium aparine*), nettle, ragwort, creeping buttercup, herb Robert, lesser celandine, thistle species, cuckooflower, red dead nettle, bramble, common field speedwell, square-stalked willowherb (*Epilobium tetragonum*), common chickweed (*Stellaria media*), field forget-me-not (*Myosotis arvensis*), groundsel (*Senecio vulgaris*), vetch species, dog rose, common dog violet (*Viola riviniana*), common storksbill (*Erodium cicutarium*), barren strawberry, wild strawberry, germander speedwell and field madder. Old rabbit droppings were noted in this area of grassland suggesting they utilise this habitat.
- SI3- Grass species present included perennial ryegrass, Yorkshire fog and cock's-foot. The grassland was relatively species-poor. Species present included dandelion species, daisy, ribwort plantain, white clover, broad-leaved dock, cleavers, nettle, ragwort, creeping buttercup, herb Robert, lesser celandine, thistle species, square-stalked willowherb, bramble, dog rose, wild strawberry, germander speedwell, field madder and common-field speedwell.



**Photo 2:** Area of semi-improved grassland present in the northern corner of the main Hoover site





(SI2).

3.17

### **Amenity Grassland**

Two areas of amenity grassland were present within the site located within the cricket club grounds. The majority of the cricket club was comprised of a large cricket field. Another smaller enclosed bowling green was present towards the south of the site. The species compositions varied between areas and are listed below.

- AG1- The grassland is regularly managed, and sward height was short which may have limited identification of species present. Grass species present included perennial ryegrass and Yorkshire fog. The grassland was relatively species-poor. Species present included creeping buttercup, dandelion species, daisy, ribwort plantain, broad-leaved dock, barren strawberry, cranesbill species (*Geranium* spp.), thistle species, white clover, field forget-me-not, herb Robert and rosebay willowherb (*Chamaenerion angustifolium*).
- AG2- The grassland is regularly managed, and sward height was short which may have limited identification of species present. Grass species present included perennial ryegrass and Yorkshire fog. The grassland was relatively species-poor. Species present included creeping buttercup, dandelion species, daisy, ribwort plantain, broad-leaved dock, barren strawberry, white clover, field forget-me-not, yarrow, heart-leaved bergenia (*Bergenia cordifolia*) and garden lady's-mantle (*Alchemilla mollis*).



*Photo 3: Amenity grassland (AG1) comprising the majority of the cricket club to the south.*

3.18

### **Broadleaved Woodland**

Broadleaved woodland was located around the site boundaries in several areas. The species compositions varied between areas and are listed below.

- BW1- Species present included ash (*Fraxinus excelsior*), silver birch (*Betula pendula*), willow species (*Salix* spp.), alder (*Alnus*





*glutinosa*), hazel (*Corylus avellana*), oak species (*Quercus* spp.), poplar species (*Poplar* spp.), sycamore and Norway maple (*Acer platanoides*). The understorey comprised of creeping cinquefoil (*Potentilla reptans*), bramble, nettle, cleavers, ivy, blackthorn (*Prunus spinosa*), dogwood (*Cornus sanguinea*), cherry laurel (*Prunus laurocerasus*), holly (*Ilex aquifolium*), wild privet (*Ligustrum vulgare*) and hawthorn.

- BW2- Species present included ash, silver birch, willow species, poplar species and sycamore. The understorey comprised of bramble, nettle, cleavers, ivy, hazel and hawthorn.
- BW3- Species present included ash, alder, silver birch, willow species, oak species and sycamore. The understorey comprised of bramble, nettle, cleavers, ivy, hazel, blackthorn and hawthorn.



**Photo 4:** Broadleaved woodland present within the water pumping site to the east (BW3).

### Introduced Shrub

3.19

There were two areas of introduced shrub within the site boundaries which were both located in the cricket club grounds. The first area was located in the southern corner of the site. The second was located in the form of a hedgerow around the bowling green. The species compositions varied between areas and are listed below.

- IS1- Species present included cherry laurel, snowberry (*Symphoricarpos albus*) and Wilson's honeysuckle (*Lonicera nitida*).
- IS2- Species present included cherry laurel, shasta daisy (*Leucanthemum* spp.), montbretia (*Crocsmia* spp.), pine species (*Pinus* spp.) and sycamore.





*Photo 5: Introduced shrub hedgerow surrounding the bowling green to the south of the site (IS2).*

### 3.20

#### **Dense Scrub**

Dense scrub was present throughout the site, mainly along the site boundaries. Species composition varied between locations and descriptions of the habitats present can be found below.

- DS1- Species present included rockspray cotoneaster (*Cotoneaster horizontalis*), oak species saplings, sycamore saplings, hawthorn, dog rose, bird's-foot-trefoil, field forget-me-not, ash saplings, silver birch saplings, red clover (*Trifolium pratense*), willow species saplings, buddleia, bramble, square-stalked willowherb, rosebay willowherb, ribwort plantain, elder (*Sambucus nigra*), holly, gorse, broad-leaved dock, cleavers, nettle, alder saplings, barren strawberry, bracken (*Pteridium aquilinum*), forsythia (*Forsythia* spp.), hogweed (*Heracleum sphondylium*), firethorn (*Pyracantha coccinea*), yarrow, cherry laurel, Franchet's cotoneaster (*Cotoneaster franchetii*), bearberry cotoneaster (*Cotoneaster dammeri*), coralberry (*Symphoricarpos orbiculatus*), dogwood species (*Cornus* spp.), dandelion species, Norway maple saplings, perennial ryegrass, common chickweed, creeping cinquefoil, ivy, wild parsnip (*Pastinaca sativa*), creeping buttercup, thistle species, horsetail species (*Equisetum* spp.), white clover, common field speedwell, germander speedwell and cock's-foot.
- DS2- Species present included buddleia, bramble, square-stalked willowherb, rosebay willowherb, ribwort plantain, broad-leaved dock, cleavers, nettle, creeping buttercup, coralberry, dandelion species., perennial ryegrass, hogweed, ivy, white clover, common field speedwell, germander speedwell, cock's-foot, ash saplings





and sycamore saplings.

- DS3- Species present included rockspray cotoneaster, bird's-foot-trefoil, hawthorn, creeping buttercup, rose species (*Rosa* spp.), white clover, buddleia, bramble, square-stalked willowherb, rosebay willowherb, ribwort plantain, broad-leaved dock, cleavers, coralberry, dandelion species and nettle.
- DS4- Species present included bird's-foot-trefoil, hawthorn, foxglove (*Digitalis purpurea*), thistle species, vetch species, dog rose, white clover, buddleia, bramble, square-stalked willowherb, rosebay willowherb, common field speedwell, germander speedwell, ribwort plantain, broad-leaved dock, cleavers, creeping buttercup, dandelion species, nettle and mullein (*Verbascum thapsus*).
- DS5- Species present included hawthorn, hazel, thistle species, vetch species, dog rose, white clover, buddleia, bramble, square-stalked willowherb, rosebay willowherb, bittersweet (*Solanum dulcamara*), divaricate cotoneaster (*Cotoneaster divaricatus*), rockspray cotoneaster, creeping buttercup, oak saplings, sycamore saplings, oxeye daisy (*Leucanthemum vulgare*), bird's-foot-trefoil, foxglove, mullein, common field speedwell, germander speedwell, ribwort plantain, grass vetchling (*Lathyrus nissolia*), herb Robert, field forget-me-not, broad-leaved dock, cleavers, dandelion species and nettle.
- DS6- Species present included bird's-foot-trefoil, hawthorn, thistle species, vetch species, dog rose, white clover, buddleia, bramble, square-stalked willowherb, rosebay willowherb, common field speedwell, germander speedwell, silver birch saplings, hazel, polar saplings, ribwort plantain, broad-leaved dock, cleavers, sycamore saplings, willow saplings, ash saplings, cherry laurel, Himalayan balsam (*Impatiens glandulifera*), creeping buttercup, dandelion species, nettle and hawthorn.



**Photo 6:** Dense scrub along the western boundary of the cricket club adjacent to the railway (DS6).





3.21

**Scattered Scrub**

Scattered scrub was present in areas throughout the site. The species compositions varied between areas and are listed below.

- SS1- Species present included rockspray cotoneaster, hawthorn, dog rose, bird's-foot-trefoil, buddleia, bramble, square-stalked willowherb, rosebay willowherb, ribwort plantain, gorse, broad-leaved dock, cleavers, nettle, barren strawberry, Franchet's cotoneaster, bearberry cotoneaster, coralberry, dogwood species, dandelion species, creeping cinquefoil, ivy, birch saplings, creeping buttercup, thistle species, horsetail species, white clover and germander speedwell.
- SS2- Species present included buddleia, bramble, square-stalked willowherb, rosebay willowherb, ribwort plantain, broad-leaved dock, cleavers, nettle, barren strawberry, dandelion species, ivy, thistle species and sycamore saplings.
- SS3- Species present included buddleia, bramble, square-stalked willowherb, rosebay willowherb, ribwort plantain, hazel, bittersweet, broad-leaved dock, cleavers, nettle, dandelion species and thistle species.
- SS4- Species present included perennial ryegrass, Yorkshire fog, creeping buttercup, dandelion species, daisy, ribwort plantain, broad-leaved dock, barren strawberry, thistle species, white clover, field forget-me-not, herb Robert, bramble, rosebay willowherb, bamboo shoots, nettle, smooth sowthistle (*Sonchus oleraceus*), yarrow and ivy.
- SS5- Species present included cherry laurel, bramble, buddleia, nettle, willowherb species, hawthorn, sycamore saplings, willow saplings and ash saplings.



**Photo 7:** Scattered scrub present within the old car park to the northeast (SS1).





---

**Buildings**

- 3.22 There were multiple buildings throughout the site. The majority of buildings on the site were in a state of disrepair and contained gaps, holes, cracks in brickwork and lifting materials that provided potential for roosting bats.
- 3.23 The first main building on the Hoover site (B1) was brick with a flat felt roof. There were multiple areas where the roofing material had lifted to create gaps. Some small gaps were present within the brick work but likely not large enough to provide potential for roosting bats. A bee's nest was located in a crack on the southern side of the building (TN8). This building was noted to have bat potential in doc: *GC4005-RED-74-XX-RP-L-0001*.



*Photo 8: Lifting in roof felt creating a gap (B1).*





*Photo 9: Bees nest in a crack to the south of the building (TN8).*

3.24

The second building (B2) was adjoined to the brick building and was mainly comprised of corrugated metal. Some gaps were present within the sheets of metal and around rotten wood doorways. Open vents created access into the building space. The western side of the building was comprised of brick and corrugated metal walls and was in a state of disrepair. Multiple gaps, cracks and areas of lifting were observed. This building was noted to have bat potential in doc: *GC4005-RED-74-XX-RP-L-0001*.



*Photo 10: Western side of one of the main Hoover buildings (B2) in a state of disrepair, providing bat potential.*





- 3.25 The third building (B3) had areas of brickwork and metal within its structure. There was lifting present in metal sheets and in the lead flashing between the roof and the walls. Peeling paint exposed cracks and holes that were present in the brickwork. This building was noted to have bat potential in doc: *GC4005-RED-74-XX-RP-L-0001*.



*Photo 11: Lifting in lead flashing creating gaps (B3).*

- 3.26 The fourth main building (B4) was similar to the second building and was comprised mainly of corrugated metal. There were areas of lifting and gaps between the metal sheets, providing bat potential.
- 3.27 A small, corrugated metal building adjacent to the western site boundary (B5) had been identified as having bat potential in doc: *GC4005-RED-74-XX-RP-L-0001*, due to lifting and gaps in the corrugated metal. The building had been reinforced and additional sheets of metal had been placed on it but there were still some small gaps present between the walls and the roof and lifting of the sheets.





**Photo 12:** Small, corrugated metal building (B5) previously noted to have bat potential.

3.28

A smaller separate brick building to the south of the main Hoover site (B6) was noted to have small cracks in the brickwork at the time of survey but was considered to have limited bat potential.



**Photo 13:** Crack in brickwork of smaller brick building (B6) to the south of the main Hoover site.





3.29

The old water pumping station building (B7) was a brick building with a felt roof. The building had cracks within the brickwork which may provide potential for roosting bats. It was noted to have bat potential in doc: *GC4005-RED-74-XX-RP-L-0001*.



*Photo 14: Crack in brickwork of the old water pumping station building (B7) to the east.*

3.30

The cricket club building to the south of the site (B8) was comprised of wooden boards and a felt roof. The wood was rotten in many areas creating gaps and lifted boards. There were multiple gaps between the roof and the wooden walls and areas where the felt had lifted. This building was noted to have bat potential in doc: *GC4005-RED-74-XX-RP-L-0001*.



*Photo 15: Example of bat potential present within the main cricket club building (B8) to the south*





of the site.

### **Invasive Species**

3.31 Several stands of invasive species were located throughout the site. All of these areas have been marked on the map using target notes.

3.32 Rockspray cotoneaster was located in multiple areas throughout the site. The greatest density of stands was located along the southern boundary of the old car park to the east (TN2). A smaller stand was located along the eastern boundary of this car park (TN1). Two small areas of rockspray cotoneaster were found along the site boundaries of the main Hoover site. One was located on the eastern site boundary (TN4) and the other was located on the western site boundary (TN5).



**Photo 16:** Large area of rockspray cotoneaster present in the old car park to the north of the site (TN1).

3.33 In an area of scattered scrub behind the cricket club main building there were several small areas of bamboo shoots (TN10). It was not possible to identify the species at the time of survey because there was very limited growth.



**Photo 17:** Bamboo shoots present in the scattered scrub behind the cricket club main building (TN10).





3.34 Montbretia was located within the introduced shrub hedgerow around the bowling green (TN11). It was interspersed within the understorey vegetation in this location.

3.35 Himalayan balsam was found within the dense scrub bordering the cricket field along the western site boundary (TN12). It was noted throughout the scrub in patches. Full mapping of its extent within the scrub was not possible due to the density of the vegetation present.



**Photo 18:** Himalayan balsam present within the dense scrub on the western boundary of the cricket field (TN12).

3.36 An area of Japanese knotweed (*Fallopia japonica*) had been noted in Doc: GC4005-RED-74-XX-RP-L-0001 outside of the site boundaries alongside the River Taff (TN13). When this survey was undertaken, the Japanese knotweed was recorded to still be present in this area.



**Photo 19:** Area of Japanese knotweed on the bank of the River Taff outside the site boundary





---

(TN13).

### Target Notes

3.37

Target notes for site are summarised below:

- TN1: Small area of rockspray cotoneaster located along the eastern boundary of the car park.
- TN2: Large area of rockspray cotoneaster located along the southern boundary of the car park.
- TN3: Old woodpigeon nests identified in the previous survey in a tree along the eastern site boundary of the main site.
- TN4: Area of rockspray cotoneaster located along the eastern boundary of the main site.
- TN5: Small area of rockspray cotoneaster located along the western boundary of the main site.
- TN6: Nesting gull species present on the roof of the main site buildings.
- TN7: Cardiff to Merthyr railway line running adjacent to the west of the site.
- TN8: Bees nest located in a crack in the brickwork of one of the buildings in the main site.
- TN9: Birds nest in a lime tree behind the cricket club building.
- TN10: Small shoots of bamboo growing within the scattered scrub beneath the trees behind the main cricket club building.
- TN11: Montbretia present within the cherry laurel hedgerow surrounding the bowling green to the south of the site.
- TN12: Himalayan balsam present in areas throughout the dense scrub along the western site boundary of the cricket field.
- TN13: Area of Japanese knotweed on the east back of the River Taff. This was identified in doc: *GC4005-RED-74-XX-RP-L-0001* and was found to still be present.

### Fauna

3.38

The following species' evidence of their presence were incidentally recorded during the course of the survey:

- Wood pigeon (*Columba palumbus*);
- Carrion crow (*Corvus corone*);
- Jackdaw (*Coloeus monedula*);
- Magpie (*Pica pica*);
- Herring gull (*Larus argentatus*);
- Lesser black-backed gull (*Larus fuscus*);
- Blackbird (*Turdus merula*);
- Starling (*Sturnus vulgaris*);
- Robin (*Erithacus rubecula*);
- Red kite (*Milvus milvus*) seen circling above the site and;
- Rabbit droppings located in some of the semi-improved grassland.





## 4 SITE EVALUATION

### Baseline Evaluation Criteria

- 4.1 Based on the site survey results, an ecological evaluation of the site was undertaken using a combination of evaluation criteria for habitats and species, although the general framework follows that provided by CIEEM<sup>2</sup> (see Table 1 below).
- 4.2 Where relevant the evaluation was made with reference to the statutory protection afforded to species and habitats.
- 4.3 Legal protection does not always correspond to conservation value. Some species (e.g. badgers) are protected for reasons of animal welfare rather than conservation. Others are of national conservation value but are not protected by law (e.g. Environment (Wales) Act 2016. Section 7 Priority species).

*Table 1: Determination of ecological value.*

Evaluation Value	Example of Habitat or species
International	An internationally designated site or candidate site, including habitat or species included within Special Protection Areas (SPA) / Special Areas of Conservation (SAC), Ramsar Sites, listed under Annex 1 of the Habitats Directive.
National	Sites designated at UK level, e.g. Sites of Special Scientific Interest (SSSI), supporting species considered nationally threatened or rare.  A regularly occurring regionally or county significant population/number of any nationally important species  A feature identified as of critical importance within Section 41 of the NERC Act (2006).
Regional	Key Habitat type included within BAP. A regularly occurring, locally significant number of a regionally important species.
County	A site designated as a Site of Importance for Nature Conservation (SINC); or A regularly occurring, substantial population of a species scarce in the County
Local	Habitats or species populations of value in a local (i.e. within 5 km of the site) context.  Habitats of poor to moderate biological diversity e.g. established conifer plantations, species poor hedgerows and un-intensively managed grassland which supports species which are common to the local area and whose loss can be easily mitigated.
Negligible	A habitat which offers little value for nature conservation, e.g. arable field

<sup>2</sup> CIEEM (2019) *Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine*. Chartered Institute of Ecology and Environmental Management, Winchester.





- 4.4 The ecological evaluation of the habitats on site is summarised in Table 2 below. The habitats recorded on the site are relatively common and considered to be of low/medium ecological value.

*Table 2. Summary of Ecological Evaluation of the Habitats on site.*

Habitat	Reason for Valuation
<b>Low Value</b>	
Bare ground	Provides limited potential for flora and fauna.
Hard standing	Provides limited potential for flora and fauna.
Introduced shrub	Provides limited potential for flora and fauna.
Dense scrub	Provides some potential for fauna. May support low numbers of reptile species. Common habitat type.
Scattered scrub	Provides limited potential for flora and fauna. Common habitat type.
Amenity grassland	Provides limited potential for flora and fauna. Common habitat type.
Semi-improved grassland	Provides limited potential for flora and fauna. Common habitat type.
<b>Moderate Value</b>	
Scattered broadleaved trees	Provides suitable habitat for nesting birds and may potentially support bats. No trees were recorded to have PRFs at time of survey.
Broadleaved woodland	Provides suitable habitat for nesting birds and may potentially support bats. No trees were recorded to have PRFs at time of survey.

### Designated sites

- 4.5 There is one statutory and 13 non-statutory designated sites within 2km of the application site. The River Taff SINC is located directly adjacent to the western site boundary. There is limited potential for works to affect this SINC. Any works undertaken on the site should be mindful of the risk of polluting the river through development. Due to the distance of the other designated sites from the development it is unlikely they will be impacted by the proposed works.

### Site evaluation

- 4.6 The key ecological features on site are the buildings, scattered broadleaved trees and the broadleaved woodland. This habitat is considered to be of moderate ecological value at Local level. The remaining habitats, including the semi-improved grassland, are considered to be of low ecological value at Site level.





## 5 PROTECTED SPECIES CONSTRAINTS

### Bats

#### Buildings

- 5.1 Multiple buildings within the site were noted to provide potential for roosting bats as they were in poor condition and contained many gaps and lifted boards. These buildings will require further survey to determine if they support roosting bats.

#### Trees

- 5.2 None of the trees within or around the site were noted to have PRFs at the time of survey.

#### Foraging and commuting habitats

- 5.3 The buildings, grassland and woodland which comprise the majority of the site are considered low-moderate quality foraging habitat for bats.

#### Legislation

- 5.4 All bat species are fully protected under The Conservation of Habitats, & Species Regulations. (amendment) (EU exit) 2019. Taken together, this makes it an offence to intentionally or deliberately capture, kill or injure or disturb bats (whether in a roost or not), and intentionally or recklessly damage, destroy or obstruct access to their roosts.

### Birds

#### Habitat

- 5.5 The scattered trees, broadleaved woodland and dense scrub present around the site boundaries and within the site are considered suitable for common species of nesting birds. Two inactive bird nests were recorded within scattered trees in the site. A gull colony is known to roost on the roof of the main Hoover factory buildings and high activity was observed at the time of survey. To reduce the potential impact on birds, mitigation measures will be introduced to ensure the conservation of nesting birds. Assuming that the recommended precautionary mitigation measures will be adopted (See section 6: Mitigation), it is not anticipated birds will preclude the sites development.

#### Legislation

- 5.6 Birds, their eggs and active nests are protected under the Wildlife and Countryside Act 1981, as amended, with the exception of a number of species considered as pests. This protection includes the birds





themselves. Their nests are also protected from damage or destruction, both whilst the birds are constructing and using them.

### **Reptiles**

- 5.7 The areas of scrub within the site may support low numbers of common reptile species. To reduce the potential impact on reptiles, mitigation measures will be introduced to ensure the conservation.

#### **Legislation**

- 5.8 All British reptiles are protected under the Wildlife & Countryside Act 1981, as amended, from killing and injury. Following the revision of the UKBAP priority species list in 2007, all native reptile species are now listed as UK priority species.

### **Dormice**

- 5.9 There is very limited suitable habitat for dormice present on the site. Very few of the trees present are coppiced, resulting in large canopy gaps. It is considered unlikely that dormice are present within the site.

#### **Legislation**

- 5.10 Dormice are fully protected under The Conservation of Habitats, & Species Regulations. (amendment) (EU exit) 2019. Taken together, this makes it an offence to intentionally or deliberately capture, kill or injure or disturb dormouse, and intentionally or recklessly damage, destroy or obstruct access to their habitat and resting places.

### **GCN**

- 5.11 There are no ponds within 500m of the site. The nearest waterbody is the River Taff which runs adjacent to the western site boundary, but this is considered unsuitable habitat for GCN.

- 5.12 GCN have previously been recorded in ponds within the Cwm Glo a Glyndyrys SSSI 530m west of the site and the Rhydycar West SINC 500m southwest of the site. Due to the distance of these ponds to site it is unlikely that GCN would travel to access the sub-optimal habitats present within the site even if present within these ponds.

- 5.13 Thus, based upon the desk study records and the habitats present on and off site, GCN are unlikely to be present within the application site.

#### **Legislation**

- 5.14 GCN are fully protected under The Conservation of Habitats, & Species Regulations. (amendment) (EU exit) 2019. Taken together, this makes it an offence to intentionally or deliberately capture, kill or injure or disturb GCN, and intentionally or recklessly damage, destroy or obstruct access





---

to their habitat and resting places.

### **Invertebrates**

- 5.15 The habitats within the site provide suitable habitat to support a range of common and widespread invertebrates.
- 5.16 Based upon the desk study records and the habitats present on site, the site is considered unlikely to support any large or important populations of notable invertebrate species. Invertebrates are not therefore anticipated to preclude development of the site.

### **Badgers**

- 5.17 Although the badger is not strictly protected under nature conservation legislation, badgers and their setts are nonetheless afforded protection in relation to ill-treatment under the Protection of Badgers Act 1992.
- 5.18 No evidence of badger setts or badger foraging were recorded within the site and the site is considered to have low suitability for badger sets due to its open nature. However, it is possible that badgers occasionally access the site at night to forage.

### **Wild mammals**

- 5.19 Hedgehogs were not noted during the survey, which, as of 2007, has been added to the priority species list, on account of its rapid decline. The desk study data contained ten recent hedgehog records from the surrounding areas. It is possible that hedgehog access habitats within the site to some extent.
- 5.20 Wild mammal species are currently given limited protection under the Wild Mammals (Protection) Act 1996. This makes it an offence to intentionally cause this species unnecessary suffering by certain methods, including crushing and asphyxiation.





## **6 RECOMMENDATIONS FOR FURTHER SURVEY**

### **Bats**

- 6.1 Bat surveys will be required to inform the sites development. The extent of the survey work will be established in consultation with the local council.





---

## 7

## RECOMMENDATIONS FOR MITIGATION

### River Taff SINC

- 7.1 The River Taff SINC is present adjacent to the western site boundary. Development undertaken within the site poses a low risk of polluting the river. As mentioned in doc: *GC4005-RED-74-XX-RP-L-0001* it is recommended that all materials should be stored securely at least 7m from the river, refuelling of heavy machinery should be undertaken away from the site, site compound locations should be carefully planned with an ecologist to reduce the risk of runoff and static machinery should be stored on drip-trays or oil absorbent nappies.

### Breeding bird habitat

- 7.2 Although it is recommended that every effort be made to design existing habitats into the new development, wherever practicable, the loss of some nesting bird habitat may occur to accommodate the development. It is recommended that clearance of nesting bird habitat should be undertaken in the period August to February inclusive. Should it prove necessary to remove any breeding bird habitat during the breeding season, the area should be checked in advance for the presence of birds' nests. Once checked, if there is no evidence of breeding birds, clearance work should be completed within 48 hours of inspection. If any active nests are found in this area, then works must cease, and an appropriate buffer zone should be established. This buffer must be left intact until it has been confirmed that the young have fledged, and the nest is no longer in use. This applies to vegetation clearance and to any works affecting the Hoover factory buildings which are utilised by gull colonies.

### Bat Lighting Mitigation

- 7.3 The proposed mitigation to prevent impacts to commuting and foraging bats is focused on avoidance of artificial lighting impacts on areas within the site and in the local vicinity that may contain high value bat habitats.
- 7.4 All lighting on site should be in accordance with the guidance set out in: Bat Conservation Trust and Institute of Lighting Professionals (2018) Guidance Note 08/18: Bats and artificial lighting in the UK. ILP, Rugby.

### Invertebrates

- 7.5 It is recommended invert coils be included into any landscape plan. These will eventually be colonised by mosses and invertebrates increasing the carrying capacity of the site for invertebrates.



**Wild Mammals**

- 7.6 It is recommended that good building practices are adopted during the construction phase to safeguard any individual animals which venture onto the proposed development area. Such practices would include covering of all deep holes and trenches overnight and/or the provision of planked escape routes for any trapped wildlife.

**Invasive Species**

- 7.7 Before starting work, measures must be taken to prevent the spread of invasive species like montbretia, Himalayan balsam, and cotoneaster within the site.

**Reptiles**

- 7.8 Reptile and amphibians typically hibernate at/or beneath ground level where temperatures are more constant. The majority of on-site reptile habitat will remain intact, that said, the new access route is scheduled to pass through areas of hedge with its adjacent grasslands.
- 7.9 It is not necessary to entirely and permanently remove reptiles from the site, only to ensure that injury is not caused to individuals by the works. It is likely that reptiles will forage around the Shrubs and scrub around the perimeter of the site.
- 7.10 A simple means of making the site unsuitable for reptiles is habitat manipulation. All grassy areas suitable for reptile basking and foraging affected by the proposed works (regardless of their location) should be strimmed to ground level (under supervision by a suitably qualified ecologist) to make them unsuitable for reptiles and all suitable refugia removed. A strimming regime over 2 weeks would discourage reptiles from work areas so that they avoid injury during works. Once the area has been strimmed to ground level and all potential refugia removed then reptiles are extremely unlikely to be present in the area and works can proceed.





---

## 8 ENHANCEMENT OPPORTUNITIES

### 8.1

A number of possible options are included below:

- Bat and bird boxes, and bee bricks, should be incorporated into the design of any new buildings wherever possible;
- Additional bat boxes could also be erected on boundary trees; and
- Any planting plan should be designed to include native species wherever possible or could be designed to benefit pollinators and provide a new hedgerow around the boundary of the application site.
- A wildflower area can be planted to benefit pollinators. Birds foot trefoil and white clover should be planted throughout any new grassy areas. Birds foot trefoil will continue to flower after being mown and offers nectar to honeybees, short tongued bumbles, long tongued bumbles and solitary bees. White clover will also continue to flower after mowing, it is a good source of pollen for honeybees and supplies nectar to honeybees, short tongued bumbles, long tongued bumbles and solitary bees.





## **9 CONCLUSION**

- 9.1 Providing the recommended mitigation measures are adopted, relevant nature conservation legislation will not be contravened, ecological impacts of the development will be reduced to a minimum and ecological issues are not, based upon the available information, anticipated to preclude the sites development.





### Key

- Target Note
- Scattered Broadleaved Trees
- Site Boundary
- Broadleaved Woodland
- Buildings
- Other Habitat
- Introduced Shrub
- Scattered Scrub
- Dense Scrub
- Semi-Improved Grassland
- Bare Ground
- Hard Standing
- Amenity Grassland





Ecology & Arboriculture

[www.SylvanEcology.com](http://www.SylvanEcology.com)