



Hallside Wood Ecological Constraints and Opportunities Plan (ECOP)



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Author:	Jennifer Paterson
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Glasgow	Aberdeen	Inverness	Edinburgh
Craighall Business Park	Banchory Business	Alder House	Suite 114
8 Eagle Street	Centre	Cradlehall Business Park	Gyleview House
Glasgow	Burn O'Bennie Road	Inverness	3 Redheughs Rigg
G4 9XA	Banchory	IV2 5GH	Edinburgh
0141 341 5040	AB31 5ZU	01463 794 212	EH12 9DQ
info@envirocentre.co.uk	01330 826 596		0131 516 9530
www.envirocentre.co.uk			

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1 INTRODUCTION

1.1 Remit

EnviroCentre was commissioned by TGP Landscape Architects to undertake an Ecological Constraints and Opportunities Plan (ECOP) at a site near Hallside, Cambuslang, known as Hallside Wood. An ECOP is a useful tool/visual plan used to present ecological information to a design team to highlight ecological constraints early in the design process and can assist with gaining the best outcome for biodiversity¹.

1.2 Site Description and Proposed Development

The site is located north of Hallside at Ordnance Survey Grid Reference (OSGR) NS 66806 60188. Hallside Wood is a privately owned woodland which was planted in the 1990's as part of a housing scheme, originally planned to be harvested every 5 years for the residents². The site was abandoned in 2009 however, was taken over by the Drumsagard Village Resident's Association. The area predominantly comprises of wet plantation woodland dominated by willow (*Salix sp*), areas of scrub, patches of grassland and ponds. The site is utilised as an amenity for local dog walkers and families. The wider landscapes is dominated by residential dwellings and arable fields.

The proposed development aims to create additional paths within Hallside Wood to allow for further access around the wood for members of the public.

The 'site' covers the area of potential paths demarcated by the red line boundary in the ECOP as shown in Appendix A.

¹ Chartered Institute of Ecology and Environmental Management (CIEEM) *Guidelines for Preliminary Ecological Appraisal* Second Edition (*December 2017*)

² The Woodland Trust, information on Hallside Wood, Available at: <u>https://www.woodlandtrust.org.uk/visiting-</u>woods/wood/?woodld=23126&woodName=hallside (Accessed 16/01/18)

2 METHOD

2.1 Desk Study

In order to anticipate the potential ecological sensitivities at the site, a desk study was conducted in advance of the survey. The following sources of information were used:

- Existing data on designated sites available through Scottish Natural Heritage (SNH) Sitelink website³ (up to 5km from the site);
- South Lanarkshire Local Development Plan⁴ (SLLDP) (for non-statutory designated areas up to 5km from the site);
- Records of ancient woodlands (up to 2km from the site) available from Sketchmap⁵;
- South Lanarkshire Local Biodiversity Action Plan⁶ (SLLBAP) (for priority species and habitats);
- Scottish Biodiversity List ⁷(SBL) (for habitats and species of principal importance for biodiversity conservation in Scotland);
- UK Biodiversity Action Plan⁸ (BAP) (for species and habitats identified as being most threatened and requiring conservation action);
- Glasgow Museum Records Centre⁹ (GMRC) (for records of protected or notable species within 2km of the development site); and
- Saving Scotland's Red Squirrel¹⁰ (SSRS) (for records of squirrel sightings within 2km radius of the site).

2.2 ECOP Survey

The survey was undertaken by a suitably trained and competent ecologist, who is a member of the Chartered Institute of Ecology and Environmental Management (CIEEM). The survey was designed and undertaken in reference to guidelines endorsed by SNH and CIEEM¹¹.

An ECOP should identify the following (where relevant), in accordance with BS 42020:2013 Clause 5.4:

- areas and features that, by virtue of their importance, should be retained and avoided by both construction activities and the overall footprint of the project;
- areas and features where opportunities exist to undertake necessary mitigation and compensation;
- areas and features with potential for biodiversity enhancement; and
- areas needing protection on site and/or in adjacent areas (e.g. from physical damage on site or pollution downstream) during the construction process.

³ SNH (2009). SiteLink, available from http://gateway.snh.gov.uk (Accessed 10/01/2018).

⁴ South Lanarkshire Local Development Plan (2015), available from

https://www.southlanarkshire.gov.uk/downloads/file/7601/environmental_designations_plan_proposed_-map (Accessed 12/01/2018)

⁵ <u>http://sketchmap.co.uk/</u> (Accessed 10/01/2018)

⁶ <u>http://www.southlanarkshirebiodiversity.co.uk/</u> (Accessed 10/01/2018)

⁷ <u>http://www.biodiversityscotland.gov.uk/advice-and-resources/scottish-biodiversity-list/</u> (Accessed 10/01/2018)

⁸ <u>http://jncc.defra.gov.uk/page-5705</u> (Accessed 10/01/18)

⁹ Records obtained from Glasgow Museum Records Centre on 11/01/2018

¹⁰ Saving Scotland's Red Squirrels: <u>https://scottishsquirrels.org.uk/</u> (Accessed 19/10/2017)

¹¹ British Standard document 42020:2013 *Biodiversity - Code of practice for planning and development* (2013)

3 RESULTS

Desk Study 3.1

Source	Information Provided						
SiteLink	Site name		Designation ¹²	tion ¹² Distance and orientation		Biological Features	
	Bothwell Castle Grounds SSSI Approx. 1.45km eas		ast	Upland mixed ash woodland			
						Invertebrate assemblage	
South Lanarkshire	There are no de	esignations	within the site bo	oundaries.			
Local Development							
Plan (2015)							
Sketchmap to	Woodland nam	e	Distance and or	rientation		Category	
identify the						(Antiquity Woodland Categories ¹³)	
locations of any	Calder Glen		Approx. 235m e	ast		Ancient (of Semi-natural origin) (ASNO)	
ancient woodlands	None		Approx. 465m n	orth-west		ASNO	
(within a 2km	Honeyhill planta	ation	Approx. 1km no	orth		ASNO	
radius of the site)	Kenmuir wood		Approx, 1.6km	north		ASNO	
	Borgie glen		Approx. 1.8km	west		ASNO	
Glasgow Museums	Group	Snecies r	ame		Date and		
Biological Records	Amphihian	Common	toad (Bufo bufo)		2 sighted	by GCC Countryside Bangers 2000 –	
Centre	Amphiotan	common			2009: 5 s	ighted by Clyde Amphibian and Reptile	
					Group (C	ARG); 1 sighted by Richard Weddle	
	Amphibian	Palmate	newt (<i>Lissotriton l</i>	helveticus)	64 sighte	d by Clyde Amphibian and Reptile Group	
					(CARG)		
	Amphibian	Smooth r	newt (lissotriton v	ulgaris)	5 sighted by Clyde Amphibian and Reptile Group		
					(CARG)		
	Amphibian	Common frog (Rana temporaria)		(CARG)			
	Bird	Kingfisher (Alcedo atthis)		4 sighted	by SOC Birdtrack		
	Bird	Mallard (Anas platyrhynchos)		1 sighted	by GCC Countryside Rangers 2010		
	Bird	Grey Heron (Ardea cinerea)		4 sighted	by GCC Countryside Rangers 2010		
	Bird	Short-eared Owl (Asio flammeus)		1 sighted	by GCC Countryside Rangers 2010		
	Bird	Goldeneye (Bucephala clangula)		2 sighted	by GCC Countryside Rangers 2010		
	Bird	Buzzard (Buteo buteo)		12 sighte	d by GCC Countryside Rangers 2010		
	Bird	Goldfinch (Carauelis carauelis)		1 sighted by GCC Countryside Rangers 2010			
	BILO	Black-headed Gull (Chroicocephalus ridibundus)		1 signted	by GCC Countryside Rangers 2010		
	Bird	Woodpig	igeon (Columba palumbus) 4 sighte		4 sighted	hted by GCC Countryside Rangers 2010	
	Bird	Carrion C	rion Crow (Corvus corone) 10 s		10 sighte	10 sighted by GCC Countryside Rangers 2010	
	Bird	Blue Tit (: Tit (Cyanistes caeruleus) 8		8 sighted by GCC Countryside Rangers 2010		
	Bird	Whooper	per Swan (<i>Cygnus cygnus</i>) 1 s		1 sighted by GCC Countryside Rangers 2010		
	Bird	Great Spo	otted Woodpecke	ted Woodpecker (<i>Dendrocopos</i> 14 sighted		d by GCC Countryside Rangers 2010	
	D'ad	major)	·		0		
	Bird	RODIN (Er	ithacus rubecula)		8 signted	by GCC Countryside Rangers 2010	
	Bird	Jay (Guri	(Hirundo rustica)		2 signted	by SOC BITUTIACK	
	Bird	Goosand	(Hirundo rustica) 4		4 signited by GCC Countryside Rangers 2010		
	Bird	Great Tit	(Parus maior)		9 sighted	by GCC Countryside Rangers 2010	
	-	Coal Tit (Periparus ater)		5 sighted	sighted by GCC Countryside Rangers 2010	
	Bird	Pheasant	(Phasianus colchi	Phasianus colchicus) 1 sight		sighted by GCC Countryside Rangers 2010	
	Bird	Willow W	/arbler (Phyllosco	pus trochilus)	18 sighte	d by GCC Countryside Rangers 2010	
	Bird	Magpie (Pica pica)		8 sighted by GCC Countryside Rangers 2010		
	Bird	Slavoniar	n Grebe (<i>Podiceps</i>	auritus)	1 sighted by SOC Birdtrack		

¹² Site of Special Scientific Interest (SSSI). ¹³ Definition of antiquity categories, available from: <u>http://www.snh.org.uk/publications/on-line/advisorynotes/95/95.html (</u>Accessed 12/01/2018)

Source	Information Provided					
	Bird	Dunnock (Prunella modularis)	1 sighted by (GCC Countryside Rangers 2010		
	Bird	Bullfinch (Pyrrhula pyrrhula)	3 sighted by 0	GCC Countryside Rangers 2010		
	Bird	Woodcock (Scolopax rusticola)	1 sighted by (GCC Countryside Rai	ngers 2010	
	Bird	Starling (Sturnus vulgaris)	25 sighted by	GCC Countryside Ra	angers 2010	
	Bird	Little Grebe (Tachybaptus ruficollis)	3 sighted by 0	GCC Countryside Rai	ngers 2010	
	Bird	Wren (Troglodytes troglodytes)	4 sighted by 0	SCC Countryside Rangers 2010		
	Bird	Blackbird (Turdus merula)	16 sighted by	GCC Countryside Rangers 2010		
	Bird	Song Thrush (Turdus philomelos)	3 sighted by 0	GCC Countryside Rai	ngers 2010	
	Bird	Nuttall's Waterweed (Elodea nuttallii)	3 locations sig	ghted by Stirling Uni	versity	
	Plant	Japanese Knotweed (Fallopia japonica)	Multiple loca records	ions sighted by Molluscs and other		
	Plant	Bluebell (Hyacinthoides non-scripta)	3 locations sig 2010	ghted by GCC Count	ryside Rangers	
	Plant	Indian (Himalyan [edited from records]) Balsam (Impatiens alandulifera)	Multiple locative records	tions sighted by Mo	lluscs and other	
	Invertebrate	Small Heath (<i>Coenonympha pamphilus</i>)	4 sighted by 0	GCC Countryside Rai	ngers 2010	
	Invertebrate	Common Blue Damselfly (Enallagma	Multiple sight	ted by Richard Wed	dle - other	
		cyathigerum)				
	Invertebrate	Blue-tailed Damselfly (Ischnura elegans)	Multiple sigh	ted by Richard Wed	dle - other	
	Invertebrate	Brown-spot Pinion (<i>Agrochola litura</i>)	1 sighted by	VC77 moth records		
	Invertebrate	Green-brindled Crescent (Allophyes oxyacanthae)	1 sighted by V	/C77 moth records		
	Invertebrate	Garden Tiger (Arctia caja)	1 sighted by \	/C77 moth records		
	Invertebrate	Mottled Rustic (Caradrina morpheus)	1 sighted by \	/C77 moth records		
	Invertebrate	Latticed Heath (Chiasmia clathrata)	2 sighted by \	VC77 moth records		
	Invertebrate	Sallow (Cirrhia icteritia)	3 sighted by \	/C77 moth records		
	Invertebrate	Small Square-spot (Diarsia rubi)	5 sighted by \	/C77 moth records		
	Invertebrate	Small Phoenix (Ecliptopera silaceata)	Small Phoenix (<i>Ecliptopera silaceata</i>) 2 sighted by V		/C77 moth records	
	Invertebrate	Autumnal Rustic (Eugnorisma glareosa)	Autumnal Rustic (Eugnorisma glareosa)3 sighted by V		/C77 moth records	
	Invertebrate	Double Dart (Graphiphora augur) 2 sighted by V		/C77 moth records		
	Invertebrate	tityus)		C77 moth records		
	Invertebrate	Ghost Moth (<i>Hepialus humuli</i>) 2 sighted by V		/C77 moth records		
	Invertebrate	Rustic (Hoplodrina blanda)9 sighted by V		/C77 moth records		
	Invertebrate	Rosy Rustic (Hydraecia micacea)	4 sighted by \	/C77 moth records		
	Invertebrate	White Ermine (Spilosoma lubricipeda)	3 sighted by \	/C77 moth records		
	Invertebrate	Cinnabar (<i>Tyria jacobaeae</i>)	1 sighted by \	/C77 moth records		
	Invertebrate	Yellow-legged Black Legionnaire (Beris morrisii)	1 sighted by F	Richard Weddle - otl	her	
	Mammal	Roe Deer (Capreolus capreolus)	Multiple sight	hted by GCC Countryside Rangers 2010		
	Mammal	Badger (Meles meles)	Multiple sight	ighted by Scottish Badgers		
	Mammal	Water Shrew (Neomys fodiens)	2 sighted by (GCC Countryside Rai	ngers 2010	
Saving Scotland's	No recorded sightings within the site and 2km radius of the site					
red Squirrels (SSRS)						
South Lanarkshire	South Lanarkshire Biodiversity Strategy does not contain lists of local priority species but instead views all national					
Biodiversity Action Plan	priority species as local priorities.					
Scottish	The below feature on the SBL and are potentially relevant to the site: SBL LIKRAP					
Biodiversity List	Mammals	European hedgehog (Erinaceus europaeu	ıs)	✓	✓	
(SBL)		Brown Hare (Lepus europaeus)		✓	✓	
(352)		European mole (Talna europaea)		✓ ✓		
		Brown long-eared bat (Plecotus auritus)		· · ·	✓ <i>✓</i>	
		Common pipistrelle (Pipistrellus pipistrel)	lus)	✓		
		Daubenton's bat (Myotis daubentonii)	· /	✓		
		Natter's bat (Myotis nattereri)		✓		
		Soprano pipistrelle (Pipistrellus pygmaeu	is)	✓	✓	
		Noctule (<i>Nyctalus noctula</i>)		✓	~	
		Whiskered bat (Myotis mystocinus)		~		
		winskered bat (wyous mystacinas)		•	1	

Source	Information Provided				
		•	Brandt's bat (<i>Myotis brandtii</i>)	✓	
		•	Water vole (Arvicola amphibious)	✓	✓
		•	Otter (Lutra lutra)	\checkmark	~
		•	Red Squirrel (Sciurus vulgaris)	\checkmark	✓
	<u>Birds</u>	•	Blackbird (Turdus merula)	✓	
		•	House sparrow (Passer domesticus)	✓	✓
		•	Bullfinch (Pyrrhula pyrrhula)	√	
		•	Tree pipit (Anthus trivialis)	√	✓
		•	Kestrel (Falco tinnunculus)	√	
		•	Song thrush (Turdus philomelos)	√	✓
		•	Brambling (Fringilla montifringilla)	√	
	Amphibians	٠	Common toad (Bufo bufo)	√	✓
		•	Great crested newt (Triturus cristatus)	√	✓
	Habitats	٠	Hedgerows	√	✓
		•	Wet Woodland	\checkmark	✓

3.2 ECOP

Habitat Description

The site predominantly comprises of broad-leaved wet plantation woodland, dominated by willow (*Salix sp*) with other species including alder (*Alnus glutinosa*), downy and silver birch (*Betula pubescens* and *Betula pendula*) and marshy grassland. Wet Woodlands are classified as UK BAP priority habitats and SBL habitat and marshy grassland is classified as a Ground Water Dependent Terrestrial Ecosystem (GWDTE). Individual Scot's pine (*Pinus sylvestris*) trees and stands are distributed throughout the site in small sections.

Continuous scrub is present along the northern boundary and throughout the site, consisting of species, such as broom (*Cytisus scoparius*), hawthorn (*Crataegus monogyna*) and bramble (*Rubus fruticosus*). Stands of tall ruderal vegetation are distributed throughout the site, including species such as common hogweed (*Heracleum sphondylium*) and broad-leaved doc (*Rumex obtusifolius*).

Areas of standing water and ponds are present within the north west of the site.

The Newton Railway line is present along the northern boundary of the site and Manse Brae road is adjacent to the eastern boundary of the site. Residential developments border the west and south boundary of the site. The Rotten Calder River flows south to north approximately 300m east of the site.

Site Constraints

No evidence of protected or notable species was observed during the ECOP. The habitats within and adjacent to the site offer typical resources for a range of protected species including, but not limited to:

- Woodland habitat and ponds on site which connect to woodland and the Rotten Calder River to the east of the site could offer foraging, commuting and resting habitat for a range of species, including bat, otter, badger, amphibians (including Great Crested Newt (GCN)), bird and invertebrate species.
- The established scrub and grassland on site offer secondary foraging and commuting habitat for badger, and Newton Railway line along the northern boundary provides opportunities for sett creation due to the sloping embankments with free draining soil on either side.
- Woodland within and adjacent to the site provides nesting and foraging habitat for birds. Grassland and scrub habitats provide opportunities to feed on insects, seeds and small mammals within the site.

Following an appraisal of the site's habitats and the surrounding landscape, it is suggested that further survey will be likely be required to inform the planning process. Recommendations are detailed in Table 1 below.

Table 1: Summary of Recommendations

Item	Timescale	
Phase 1 Habitat Survey of the site ¹⁴ including a search	Optimal survey period extends from April to	
for invasive plants.	August	
National Vegetation Classification (NVC) to investigate	Optimal survey period extends from May to July	
botanical indicators, search for bluebells to ascertain if		
native and identify areas of Ground Water Dependant		
Terrestrial Ecosystems (GWDTE)*		
Undertake nesting bird checks prior to vegetation	Bird breeding season extends from March to	
clearance should this take place within the breeding	August	
season		
Protected species survey, with specific focus on:		
 Badger survey of the site plus 50m buffer¹⁵ 	Badger surveys can be undertaken year-round.	
	Optimal survey period extends from February to	
	April. And November/December	
 Otter^{16,17} survey of woodland and ponds 	Otter surveys are limited by vegetation cover	
within the site boundary as no watercourses	rather than seasonality	
are present within the site		
 Undertaking Habitat Suitability Index (HSI) of 	Optimal survey period for HSI extends from late	
ponds for GCN	March to August	
Tree survey of trees and tree groups within and	Tree survey can be undertaken year-round	
adjacent to the site boundary within influence of the		
development		

* GWDTE assessment may be combined with Phase 1 Habitat survey, however, also occasionally require input from a hydrologist.

Opportunities for Ecological Enhancement

The site has opportunities to create, enhance and maintain habitats.

Opportunities exist to maintain areas of wet woodland through coppicing, scrub-cutting and raising awareness about their value for both wildlife and people. Developing a woodland management plan would aid in the maintenance and management of the woodland. Managing these areas of wet woodland and the inclusion of nest and roost boxes would benefit biodiversity through the maintenance and provision of suitable breeding, foraging and nesting habitat for species including otter, bats and birds. Any areas where deadwood is present should be retained to provide habitat for invertebrates and foraging and nesting opportunities for birds and mammals.

The enhancement of the woodland within the east of the site could play an important role in increasing biodiversity within the site. The inclusion of a range of water tolerant native tree species such as woolly willow (*Salix lanata*) and black poplar (*Populus nigra*) could increase connectivity between the east of site and adjacent habitat in the surrounding area. This could also enhance and diversify the woodland habitat by creating further areas of shelter, foraging and nesting opportunities for species including badger, birds, bats and invertebrates.

¹⁴JNCC (2010). *Handbook for Phase 1 habitat survey; a technique for environmental audit*. Peterborough: Joint Nature Conservation Committee

¹⁵ Scottish Badgers (2005). Level 1 Badger Awareness Training Manual. Scottish Badgers.

¹⁶ Chanin, P. (2003). *Ecology of the European Otter. Conserving Natura 2000 Rivers Ecology* (No. 10). Peterborough: EN, CCW, EA, SEPA, SNH & SNIFFER.

¹⁷ Bassett, S., & Wynn, J. (2010). Otters in Scotland: How Vulnerable Are They to Disturbance? *CIEEM In Practice*, (70), 19–22. Retrieved from file:///M:/Library/_By%20author/CIEEM/In-Practice-IP70_Dec_2010.pdf

Wetland creation and enhancement is recognised as a Rural Priority by the Scottish Government such is its significance as a habitat. There are opportunities to enhance wetland habitat within the site, for example through reduction of dominating vegetation or vegetation removal within the ponds, which would support and increase associated invertebrates, amphibians, mammals and plants.

New paths within the woodland may be created using Geoweb¹⁸, porous gravel, vegetated surfacing or well demarcated raised boardwalks, all of which are suitable for low impact development and green infrastructure design and to protect tree rooting systems, avoid soil compaction and allow exchange of water and gas to root systems. Information signs to allow residents to appreciate the wildlife, such as dragonflies, damselflies and butterflies may also be incorporated, as such proximity to nature enriches lives and strengthens the appreciation of nature.

Opportunities exist to enhance grassland habitats within the site. Including mowing regimes to encourage structural diversity, increase biodiversity and provide habitats for birds, invertebrates and mammals. Including species-rich grassland and habitat mosaic management would encourage invertebrate species, specifically butterflies and moths. Introducing areas of wildflowers would provide habitat for pollinators and other beneficial insects.

Retaining and managing scrub habitat throughout the site and along the boundaries would ensure habitat provision for species, such as mammals, birds and invertebrates, whilst reducing its spread into wet woodland habitat.

¹⁸ Information on Geoweb. Available at: <u>https://www.prestogeo.com/wp-content/uploads/2016/10/GWLS-Geoweb-Tree-Root-Protection.pdf</u>. Accessed on 16/01/18

A ECOP

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267000





Maintanance of wet woodland through coppicing, scrub-cutting and raising awareness of their value for both wildlife and people. Management would benefit biodiversity through the maintenance of suitable breeding, foraging and nesting habitat for species including otter, bats and birds.

Retaining and managing scrub habitat would ensure habitat provision for species, such as mammals, birds and invertebrates, whilst reducing its spread into wet woodland habitat.

Opportunities to enhance wetland habitat, for example through reduction of dominating vegetation or vegetation removal, which would support and increase associated invertebrates, amphibians, mammals and plants.

266000



Opportunities to enhance grassland habitats through mowing regimes, species-rich grassland and habitat mosaic management and widlflower or green roof planting to encourage structural diversity, increase biodiversity and provide habitats for birds, invertebrates (specifically moths and butterflies) and mammals.

267000

Source: Esrl, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Alrbus DS, USDA, US BIS User Community



Enhancement of the woodland within the east of the site by including a range of native tree species such as woolly willow (Salix Ianata) and black poplar (Populus nigra) could enhance and diversify the woodland by creating shelter, foraging and nesting opportunities for species including birds, bats and invertebrates.

268000



0006

	Legend						
		Site Boun	dary				
		Recomme	ended Phase	1 Habita	at Survey		
	C0	Recomme (NVC) Sur	ended Natio	nal Vege	tation Clas	ssification	
		Recomme	ended Badge	r Survey	1		
		Recomme	ended Otter	Survey			
		Recomme	ended Habita	, at Suitab	oility Index	(HSI)	
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