Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: Blair Atholl H27

March 2011

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APPENDIX 1 – SURVEY PHOTOGRAPHS

APPENDIX 2 – PHASE 1 CODES



Summary

1. As part of the process of considering the suitability of Site Blair Atholl H27, for inclusion into the Local Development Plan, the Cairngorms National Park Authority (CNPA) has commissioned Landcare NorthEast to undertake a desktop study and initial ecological survey.

2. A desktop study and subsequent ecological survey was conducted at Site Blair Atholl H27 in March 2011.

3. The proposed development site is located at NN869653 in the small town of Blair Atholl and comprises approximately 0.19ha.

4. The site comprises a walled garden area (J1.3), as well as access track and existing residential housing (J4 & J3.6).

5. No notable plant species (those of UK conservation concern - see UK list of Vascular Plants of Conservation Concern <u>http://www.ukbap.org.uk</u> - or those listed on the Cairngorms LBAP list of priority species) were noted.

6. The site may provide limited bat foraging habitat.



1.0 Introduction

Background

1.1 In order to make an assessment on ecological impacts of developments of sites that have been presented for inclusion in the Cairngorms Local Development Plan, CNPA require desktop studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase 1 survey and habitat suitability assessment was conducted at Site Blair Atholl H27.

1.3 The site is located at NN869653 in the small town of Blair Atholl and comprises approximately 0.19ha.

1.4 The survey work was conducted by Steff Ferguson and Flora Grigor-Taylor, both experienced wildlife surveyors, chartered environmentalists and members of IEEM.

Existing Data

1.5 A review of the data held on the National Biodiversity Network (NBN) gateway was undertaken to identify species of conservation concern that have been recorded on the proposed development site.

1.6 NBN results

Occurring within the 10km square the site is located in:

Goldeneye Twite Hen harrier Black grouse Capercaillie Redshank Lapwing Freshwater pearl mussel Mason bee Scottish wildcat Kentish glory Otter Badger

At 2km square level:

Northern brown argus Pearl bordered fritillary

At 1km square level:

Atlantic salmon Red squirrel Pipistrelle bat spp. Brown/long-eared bat spp.



Designated Sites

1.7 There are no statutory designations on the land surveyed.

2.0 Survey

Method

2.1 An ecological survey was undertaken on the site in March 2011.

2.2 A Phase 1 Habitat Mapping & Protected Species Survey, also referred to as an Extended Phase 1 Ecological Survey, was undertaken for the site. Standard Phase 1 methodology was used, including detailed target notes of notable plant species (those of conservation concern; also those listed on the Cairngorms LBAP list of priority species).

2.3 An assessment of the habitat suitability within the proposed development site for mammal species was also undertaken.

2.4 The standard optimal time to undertake an Extended Phase 1 Survey is between April and the end of September. The survey time of early March was therefore outwith the optimal time, and where potential for botanical interest was noted, further survey may be necessary to provide adequate information on a site.

2.5 The habitats are described by the use of target notes, annotated to the survey map (see Fig.1). Common species names and scientific names (Stace C (1997) *New Flora of the British Isles. Second Ed.* Cambridge University Press.) are given in the text below.

Results

Vegetation

2.6 This site consists of a walled garden area, as well as access track and existing residential housing.

2.7 The walled area contains waste ground, a storage area for logs and C3, tall ruderal vegetation, including rosebay willowherb (*Epilobium angustifolium*), ragwort (*Senecio jacobaea*), cleavers (*Galium aparine*), broad-leaved dock (*Rumex obtusifolius*) and thistles (*Cirsium spp.*). The vegetation appeared to have been kept in check by strimming. Two coppiced wych elm (*Ulmus glabra*) stumps and some young oak (*Quercus spp.*) saplings are growing along the wall perimeter, adjacent to the main road.

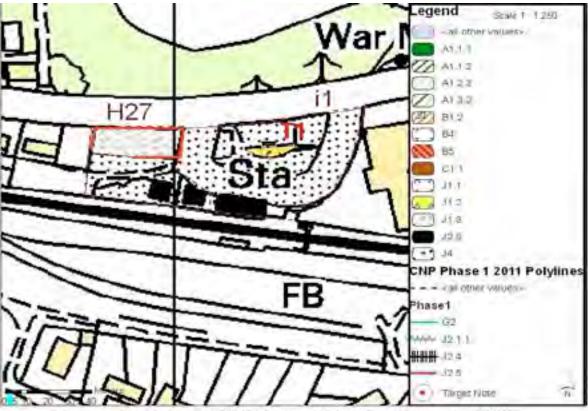
Fauna

2.8 No species of conservation concern and/or listed on the Cairngorms LBAP list of priority species were noted on site.





Fig 1 Survey Map



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3.0 Assessment of Habitat Suitability for Mammals

3.1 The site itself offers no suitable breeding habitat for otter, water vole, bat and red squirrel. No badger setts were observed. There may be limited foraging opportunity for bats.

References 4.0

JNCC. 1990. Handbook for Phase 1 habitat survey – a technique for environmental audit. 2007 edition. Nature Conservancy Council

Stace, C.A. 1997. New Flora of the British Isles. 2nd Edition. Cambridge University Press.





APPENDIX 1 – SURVEY PHOTOGRAPHS

Site H27 – Walled area



APPENDIX 3 – PHASE 1 CODES

PHASE 1 CODE	Description
A1.1.1	Broadleaved woodland - semi-natural
A1.1.2	Broadleaved woodland - plantation
A1.2.1	Coniferous woodland - semi-natural
A1.2.2	Coniferous woodland - plantation
A1.3.1	Mixed woodland - semi-natural
A1.3.2	Mixed woodland - plantation
A2.1	Scrub - dense/continuous
A2.2	Scrub - scattered
A3.1	Parkland/scattered trees – broad-leaved
A3.2	Parkland/scattered trees - coniferous
A3.3	Parkland/scattered trees – mixed
A4.1	Broadleaved woodland – recently felled
A4.2	Coniferous woodland – recently felled
A4.3	Mixed woodland – recently felled
B1.1	Acid grassland – unimproved
B1.2	Acid grassland – semi-improved
B2.1	Neutral grassland – unimproved
B2.2	Neutral grassland - semi-improved
B3.1	Calcareous grassland – unimproved
B3.2	Calcareous grassland – semi-improved
B4	Improved grassland
B5	Marsh/marshy grassland
C1.1	Tall herb & fen – bracken continuous
C1.2	Tall herb & fen – bracken scattered
C3.1 D1.1	Other tall herb and fern - ruderal
G2	Dry dwarf shrub heath - acid
G2 J1.1	Running water
J1.1 J1.2	Cultivated/disturbed land – arable Cultivated/disturbed land – amenity grassland
J1.2 J1.3	Cultivated/disturbed land – ephemeral/short perennial
J1.4	Cultivated/disturbed land – introduced shrub
J2.1.1	Intact hedge – native species rich
J2.1.2	Intact hedge – species poor
J2.3.2	Hedge with trees – species-poor
J2.4	Fence
J2.5	Wall
J2.6	Dry ditch
J3.6	Built-up areas - buildings
J4	Bare ground

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: Blair Atholl, H28

March 2011

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APPENDIX 1 – TARGET NOTES

APPENDIX 2 – SURVEY PHOTOGRAPHS

APPENDIX 3 – PHASE 1 CODES



Summary

1. As part of the process of considering the suitability of Site Blair Atholl H28, for inclusion into the Local Development Plan, the Cairngorms National Park Authority (CNPA) has commissioned Landcare NorthEast to undertake a desktop study and initial ecological survey.

2. A desktop study and subsequent ecological survey was conducted at Site Blair Atholl H28 in March 2011.

3. The proposed development site is located at NN870651 and comprises approximately 0.66ha.

4. The main habitat is B4, improved grassland, with a strip of riparian trees along the River Garry to the south.

5. No notable plant species (those of UK conservation concern - see UK list of Vascular Plants of Conservation Concern <u>http://www.ukbap.org.uk</u> - or those listed on the Cairngorms LBAP list of priority species) were noted.

6. The site may provide bat, otter and badger foraging habitat.



1.0 Introduction

Background

1.1 In order to make an assessment on ecological impacts of developments of sites that have been presented for inclusion in the Cairngorms Local Development Plan, CNPA require desktop studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase 1 survey and habitat suitability assessment was conducted at Site Blair Atholl H28.

1.3 The site is located at NN870651 within the small town of Blair Atholl and comprises approximately 0.66ha..

1.4 The survey work was conducted by Steff Ferguson and Flora Grigor-Taylor, both experienced wildlife surveyors, chartered environmentalists and members of IEEM.

Existing Data

1.5 A review of the data held on the National Biodiversity Network (NBN) gateway was undertaken to identify species of conservation concern that have been recorded on the proposed development site.

1.6 NBN results

Occurring within the 10km square in which the site is located:

Goldeneye Twite Hen harrier Black grouse Capercaillie Redshank Lapwing Freshwater pearl mussel Mason bee Scottish wildcat Kentish glory Otter Badger

At 2km square level: Northern brown argus Pearl bordered fritillary

At 1km square level: Atlantic salmon Red squirrel Pipistrelle bat spp. Brown/long-eared bat spp.

Designated Sites

1.7 The River Garry is located within the River Tay SAC



2.0 Survey

Method

2.1 An ecological survey was undertaken on the site in March 2011.

2.2 A Phase 1 Habitat Mapping & Protected Species Survey, also referred to as an Extended Phase 1 Ecological Survey, was undertaken for the site. Standard Phase 1 methodology was used, including detailed target notes of notable plant species (those of conservation concern; also those listed on the Cairngorms LBAP list of priority species).

2.3 An assessment of the habitat suitability within the proposed development site for mammal species was also undertaken.

2.4 The standard optimal time to undertake an Extended Phase 1 Survey is between April and the end of September. The survey time of early March was therefore outwith the optimal time, and where potential for botanical interest was noted, further survey may be necessary to provide comprehensive information on a site.

2.5 The habitats are described by the use of target notes, annotated to the survey map (see Fig.1). Common species names and scientific names (Stace C (1997) *New Flora of the British Isles. Second Ed.* Cambridge University Press.) are given in the text below.

Results

Vegetation

2.6 This site is a level grazed field of B4, improved grassland, currently grazed by sheep. A strip of mature riparian trees separates the grass field from the River Garry. The main tree species noted were common alder (*Alnus glutinosa*), ash (*Fraxinus excelsior*), oak (*Quercus* sp.) and willow (*Salix* spp.)

Fauna

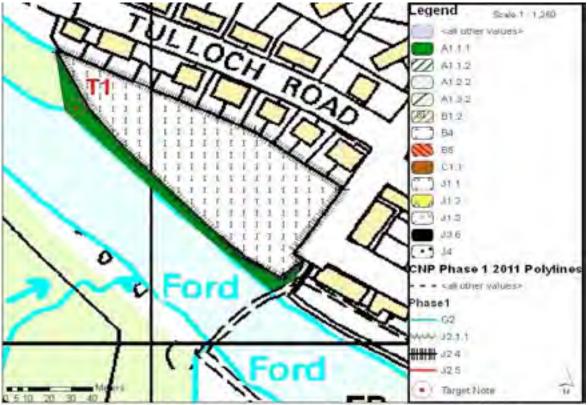
2.7 No species of conservation concern and/or listed on the Cairngorms LBAP list of priority species were noted on site.

Main Issues Report - Background Evidence 5. Site Analysis





Fig 1 Survey Map



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3.0 Assessment of Habitat Suitability for Mammals

3.1 The site itself offers no suitable breeding habitat for otter, water vole, bat or red squirrel. No badger setts were observed, although the grassland will offer foraging opportunities for this species.

3.2 The banks of the River Garry are highly likely to be utilised by otter, while the strip of mature trees will provide foraging opportunities for bats.

4.0 References

JNCC. 1990. Handbook for Phase 1 habitat survey – a technique for environmental audit. 2007 edition. Nature Conservancy Council

Stace, C.A. 1997. New Flora of the British Isles. 2nd Edition. Cambridge University Press.



APPENDIX 1 – TARGET NOTES

T1

Strip of mature trees along banks of River Garry, consisting of common alder (*Alnus glutinosa*), ash (*Fraxinus excelsior*), oak (*Quercus* sp.) and willow (*Salix* spp.).

This strip provides a valuable buffer to the river, part of River Tay SAC, as well as offering habitat for otter, bats, insects and a range of birds.







APPENDIX 2 – SURVEY PHOTOGRAPHS



Improved grassland at H28, Blair Atholl.



Riparian trees along River Garry, Blair Atholl H28



APPENDIX 3 – PHASE 1 CODES

PHASE 1 CODE

Description

A 1 1 1	Preadlogyed woodlond somi netural
A1.1.1 A1.1.2	Broadleaved woodland - semi-natural Broadleaved woodland - plantation
A1.1.2 A1.2.1	Coniferous woodland - semi-natural
A1.2.1 A1.2.2	Coniferous woodland - plantation
A1.2.2 A1.3.1	•
	Mixed woodland - semi-natural
A1.3.2	Mixed woodland - plantation
A2.1	Scrub - dense/continuous
A2.2	Scrub - scattered
A3.1	Parkland/scattered trees – broad-leaved
A3.2	Parkland/scattered trees - coniferous
A3.3	Parkland/scattered trees – mixed
A4.1	Broadleaved woodland – recently felled
A4.2	Coniferous woodland – recently felled
A4.3	Mixed woodland – recently felled
B1.1	Acid grassland – unimproved
B1.2	Acid grassland – semi-improved
B2.1	Neutral grassland – unimproved
B2.2	Neutral grassland - semi-improved
B3.1	Calcareous grassland – unimproved
B3.2	Calcareous grassland – semi-improved
B4	Improved grassland
B5	Marsh/marshy grassland
C1.1	Tall herb & fen – bracken continuous
C1.2	Tall herb & fen – bracken scattered
C3.1	Other tall herb and fern - ruderal
D1.1	Dry dwarf shrub heath - acid
G2	Running water
J1.1	Cultivated/disturbed land – arable
J1.2	Cultivated/disturbed land – amenity grassland
J1.3	Cultivated/disturbed land – ephemeral/short perennial
J1.4	Cultivated/disturbed land – introduced shrub
J2.1.1	Intact hedge – native species rich
J2.1.2	Intact hedge – species poor
J2.3.2	Hedge with trees – species-poor
J2.4	Fence
J2.5	Wall
J2.6	Dry ditch
J3.6	Built-up areas - buildings
J4	Bare ground
UT .	

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: Blair Atholl i1

March 2011

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APPENDIX 1 – TARGET NOTES

APPENDIX 2 – SURVEY PHOTOGRAPHS

APPENDIX 3 – PHASE 1 CODES



Summary

1. As part of the process of considering the suitability of Site Blair Atholl i1, for inclusion into the Local Development Plan, the Cairngorms National Park Authority (CNPA) has commissioned Landcare NorthEast to undertake a desktop study and initial ecological survey.

2. A desktop study and subsequent ecological survey was conducted at Site Blair Atholl i1 in March 2011.

3. The proposed development site is located at NN870653 in the small town of Blair Atholl and comprises approximately 0.36ha.

4. The site consists mainly of tarmac surfacing (J4) for access and car parking for the train station (J3.6) and parking for a small shop. There is a small area of amenity grassland (J1.2) with ornamental trees and shrubs in the centre of the site.

5. No notable plant species (those of UK conservation concern - see UK list of Vascular Plants of Conservation Concern <u>http://www.ukbap.org.uk</u> - or those listed on the Cairngorms LBAP list of priority species) were noted.

6. The site may provide limited bat foraging habitat.



1.0 Introduction

Background

1.1 In order to make an assessment on ecological impacts of developments of sites that have been presented for inclusion in the Cairngorms Local Development Plan, CNPA require desktop studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase 1 survey and habitat suitability assessment was conducted at Site Blair Atholl i1.

1.3 The site is located at NN870653 in the small town of Blair Atholl and comprises approximately 0.36ha.

1.4 The survey work was conducted by Steff Ferguson and Flora Grigor-Taylor, both experienced wildlife surveyors, chartered environmentalists and members of IEEM.

Existing Data

1.5 A review of the data held on the National Biodiversity Network (NBN) gateway was undertaken to identify species of conservation concern that have been recorded on the proposed development site.

1.6 NBN results

Occurring within the 10km square the site is located in:

Goldeneye Twite Hen harrier Black grouse Capercaillie Redshank Lapwing Freshwater pearl mussel Mason bee Scottish wildcat Kentish glory Otter Badger

At 2km square level:

Northern brown argus Pearl bordered fritillary



At 1km square level:

Atlantic salmon Red squirrel Pipistrelle bat spp. Brown/long-eared bat spp.

Designated Sites

1.7 There are no statutory designations on the land surveyed.

2.0 Survey

Method

2.1 An ecological survey was undertaken on the site in March 2011.

2.2 A Phase 1 Habitat Mapping & Protected Species Survey, also referred to as an Extended Phase 1 Ecological Survey, was undertaken for the site. Standard Phase 1 methodology was used, including detailed target notes of notable plant species (those of conservation concern; also those listed on the Cairngorms LBAP list of priority species).

2.3 An assessment of the habitat suitability within the proposed development site for mammal species was also undertaken.

2.4 The standard optimal time to undertake an Extended Phase 1 Survey is between April and the end of September. The survey time of early March was therefore outwith the optimal time, and where potential for botanical interest was noted, further survey may be necessary to provide adequate information on a site.

2.5 The habitats are described by the use of target notes, annotated to the survey map (see Fig.1). Common species names and scientific names (Stace C (1997) *New Flora of the British Isles. Second Ed.* Cambridge University Press.) are given in the text below.

Results

Vegetation

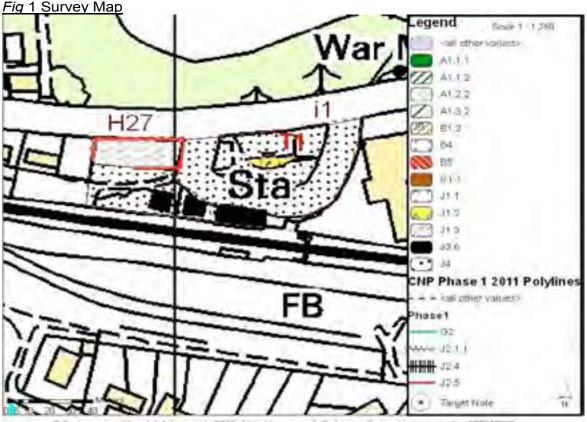
2.6 This site consists mainly of tarmac car parking for a small shop, housed in a wooden building near the main road, and the train station and associated access and parking to the north of the site.

2.7 There is a small area of improved grassland and ornamental trees and shrubs such as Leyland cypress (× *Cupressocyparis leylandii*), snowberry (*Symphoricarpos albus*), sycamore (*Acer pseudoplatanus*), yew (*Taxus baccata*) and willows (*Salix spp.*) in the centre of the site.



Fauna

2.8 No species of conservation concern and/or listed on the Cairngorms LBAP list of priority species were noted on site.



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3.0 Assessment of Habitat Suitability for Mammals

3.1 The site itself offers no suitable breeding habitat for otter, water vole, bat and red squirrel. No badger setts were observed.

3.2 The buildings on site may offer potential for bat roosts. There may be limited foraging opportunity for bats.

4.0 References

JNCC. 1990. *Handbook for Phase 1 habitat survey – a technique for environmental audit.* 2007 edition. Nature Conservancy Council

Stace, C.A. 1997. *New Flora of the British Isles*. 2nd Edition. Cambridge University Press.



APPENDIX 1 – TARGET NOTES

Τ1

Small area of amenity grassland (J1.2), ornamental trees and shrubs such as Leyland cypress (× *Cupressocyparis leylandii*), snowberry (*Symphoricarpos albus*), sycamore (*Acer pseudoplatanus*), yew (*Taxus baccata*) and willows (*Salix spp.*) in the centre of the site, the remainder of which consist of access road, car parking and buildings.



APPENDIX 2 – SURVEY PHOTOGRAPHS



Blair Atholl i1 – Car parking and small shop in foreground, amenity green & ornamental trees & shrubs behind, with station to the rear.





APPENDIX 3 – PHASE 1 CODES

PHASE	1	CODE

Description

A1.1.1	Broadleaved woodland - semi-natural
A1.1.2	Broadleaved woodland - plantation
A1.2.1	Coniferous woodland - semi-natural
A1.2.2	Coniferous woodland - plantation
A1.3.1	Mixed woodland - semi-natural
A1.3.2	Mixed woodland - plantation
A2.1	Scrub - dense/continuous
A2.2	Scrub - scattered
A3.1	Parkland/scattered trees – broad-leaved
A3.2	Parkland/scattered trees - coniferous
A3.3	Parkland/scattered trees – mixed
A4.1	Broadleaved woodland – recently felled
A4.2	Coniferous woodland – recently felled
A4.3	Mixed woodland – recently felled
B1.1	Acid grassland – unimproved
B1.2	Acid grassland – semi-improved
B2.1	Neutral grassland – unimproved
B2.2	Neutral grassland - semi-improved
B3.1	Calcareous grassland – unimproved
B3.2	Calcareous grassland – semi-improved
B4	Improved grassland
B5	Marsh/marshy grassland
C1.1	Tall herb & fen – bracken continuous
C1.2	Tall herb & fen – bracken scattered
C3.1	Other tall herb and fern - ruderal
D1.1	Dry dwarf shrub heath - acid
G2	Running water
J1.1	Cultivated/disturbed land – arable
J1.2	Cultivated/disturbed land – amenity grassland
J1.3	Cultivated/disturbed land – ephemeral/short perennial
J1.4	Cultivated/disturbed land – introduced shrub
J2.1.1	Intact hedge – native species rich
J2.1.2	Intact hedge – species poor
J2.3.2	Hedge with trees – species-poor
J2.4	Fence
J2.5	Wall
J2.6	Dry ditch
J3.6	Built-up areas - buildings
J4	Bare ground
	-

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: Cromdale Kirk Road

March 2011

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4.0	References	5

APPENDIX 1 – SURVEY PHOTOGRAPHS

APPENDIX 2 – PHASE 1 CODES



Summary

1. As part of the process of considering the suitability of Site Cromdale Kirk Road, for inclusion into the Local Development Plan, the Cairngorms National Park Authority (CNPA) has commissioned Landcare NorthEast to undertake a desktop study and initial ecological survey.

2. A desktop study and subsequent ecological survey was conducted at Site Cromdale Kirk Road in March 2011.

3. The proposed development site is located at NJ071286 and comprises approximately 4.36ha.

4. The main habitat is arable farmland.

5. No notable plant species (those of UK conservation concern - see UK list of Vascular Plants of Conservation Concern <u>http://www.ukbap.org.uk</u> - or those listed on the Cairngorms LBAP list of priority species) were noted.

6. The site may provide bat and badger foraging habitat.

1



1.0 Introduction

Background

1.1 In order to make an assessment on ecological impacts of developments of sites that have been presented for inclusion in the Cairngorms Local Development Plan, CNPA require desktop studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase 1 survey and habitat suitability assessment was conducted at Site Cromdale Kirk Road.

1.3 The site is located at NJ071286 and comprises approximately 4.36ha.

1.4 The survey work was conducted by Steff Ferguson and Flora Grigor-Taylor, both experienced wildlife surveyors, chartered environmentalists and members of IEEM.

Existing Data

1.5 A review of the data held on the National Biodiversity Network (NBN) gateway was undertaken to identify species of conservation concern that have been recorded on the proposed development site.

1.6 NBN results

Occurring within the 10km square in which the site is located:

Goldeneve Twite Hen harrier Scottish crossbill Black grouse Capercaillie Pearl bordered fritillary Twinflower Aspen bracket fungus Pine hoverfly Northern damselfly Aspen hoverfly Freshwater pearl mussel Blunt-leaved bristle moss Water vole Scottish wildcat Kentish glory Dark-bordered beauty Cousin German Netted mountain moth Badger Pipistrelle bat spp. Daubentons bat Natterers bat Brown/long-eared bat spp.



At 2km square level: Redshank Lapwing Northern brown argus Atlantic salmon Otter

At 1km square level: Red squirrel

Designated Sites

1.7 There are no statutory designations on the land surveyed.

1.8 The long distance Speyside Way route skirts the site to the north along the dismantled railway line.

2.0 Survey

Method

2.1 An ecological survey was undertaken on the site in March 2011.

2.2 A Phase 1 Habitat Mapping & Protected Species Survey, also referred to as an Extended Phase 1 Ecological Survey, was undertaken for the site. Standard Phase 1 methodology was used, including detailed target notes of notable plant species (those of conservation concern; also those listed on the Cairngorms LBAP list of priority species).

2.3 An assessment of the habitat suitability within the proposed development site for mammal species was also undertaken.

2.4 The standard optimal time to undertake an Extended Phase 1 Survey is between April and the end of September. The survey time of early March was therefore outwith the optimal time, and where potential for botanical interest was noted, further survey may be necessary to provide comprehensive information on a site.

2.5 The habitats are described by the use of target notes, annotated to the survey map (see Fig.1). Common species names and scientific names (Stace C (1997) *New Flora of the British Isles. Second Ed.* Cambridge University Press.) are given in the text below.

Results

Vegetation

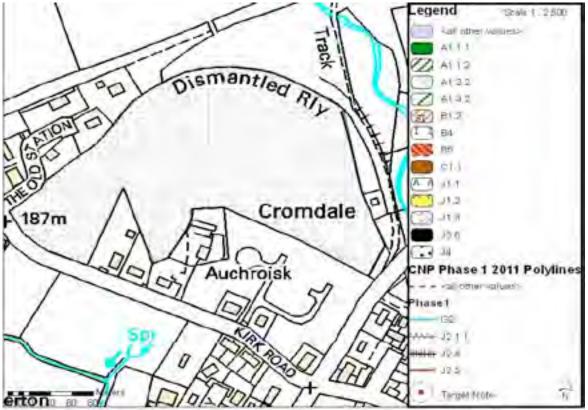
2.6 This site comprises a large field of arable farmland.



Fauna

2.7 No species of conservation concern and/or listed on the Cairngorms LBAP list of priority species were noted on site.

Fig 1 Survey Map



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3.0 Assessment of Habitat Suitability for Mammals

3.1 The site itself offers no suitable breeding habitat for otter, water vole, bat or red squirrel. No badger setts were observed. There may be foraging opportunity for badger and bats here.

4.0 References

JNCC. 1990. *Handbook for Phase 1 habitat survey – a technique for environmental audit.* 2007 edition. Nature Conservancy Council

Stace, C.A. 1997. *New Flora of the British Isles*. 2nd Edition. Cambridge University Press.



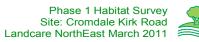


APPENDIX – SURVEY PHOTOGRAPHS



Arable field, Cromdale Kirk Road







APPENDIX 3 – PHASE 1 CODES

PHASE 1 CODE

Description

	-
A1.1.1	Broadleaved woodland - semi-natural
A1.1.2	Broadleaved woodland - plantation
A1.2.1	Coniferous woodland - semi-natural
A1.2.2	Coniferous woodland - plantation
A1.3.1	Mixed woodland - semi-natural
A1.3.2	Mixed woodland - plantation
A2.1	Scrub - dense/continuous
A2.2	Scrub - scattered
A3.1	Parkland/scattered trees – broad-leaved
A3.2	Parkland/scattered trees - coniferous
A3.3	Parkland/scattered trees – mixed
A4.1	Broadleaved woodland – recently felled
A4.2	Coniferous woodland – recently felled
A4.3	Mixed woodland – recently felled
B1.1	Acid grassland – unimproved
B1.2	Acid grassland – semi-improved
B2.1	Neutral grassland – unimproved
B2.2	Neutral grassland - semi-improved
B3.1	Calcareous grassland – unimproved
B3.2	Calcareous grassland – semi-improved
B4	Improved grassland
B5	Marsh/marshy grassland
C1.1	Tall herb & fen – bracken continuous
C1.2	Tall herb & fen – bracken scattered
C3.1	Other tall herb and fern - ruderal
D1.1	Dry dwarf shrub heath - acid
G2	Running water
J1.1	Cultivated/disturbed land – arable
J1.2	Cultivated/disturbed land – amenity grassland
J1.3	Cultivated/disturbed land – ephemeral/short perennial
J1.4	Cultivated/disturbed land – introduced shrub
J2.1.1	Intact hedge – native species rich
J2.1.2	Intact hedge – species poor
J2.3.2	Hedge with trees – species-poor
J2.4	Fence
J2.5	Wall
J2.6	Dry ditch
J3.6	Built-up areas - buildings
J4	Bare ground

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: 005a Land at Struan, near Calvine

September 2010

Steff Ferguson & Flora Grigor-Taylor CEnv MIEEM Lundcard NorthEast Pitientaggart Mipvie Tarland AB34 4XQ

1: 013398 81376 0: :telf@.ago-criveronment.coi).co Main Issues Report - Background Evidence 5. Site Analysis

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: 005a Land at Struan, near Calvine

September 2010

Steff Ferguson & Flora Grigor-Taylor CEnv MIEEM Lundcare NorthEast Pittentaggart Migvie Tarland AB34 4XQ t: 013398 81376 e: stelf@ngn-criveronment.cm.uo



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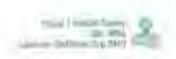
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1.0	Introduction	4
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	Existing data	4
	Designated sites	.4
2.0	Survey	5
	Method	5
	Results	5
	Vegetation	5
	Fauna	6
3.0	Habitat Suitability for Mammals	8

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4. References

APPENDIX 1 - TARGET NOTES APPENDIX 2 - PLANT SPECIES LIST APPENDIX 3 - SURVEY PHOTOGRAPHS APPENDIX 4 - PHASE 1 CODES



Summary

t. As part of the process of considering the suitability of Site 005a for inclusion into the Local Development Plan, the Calmgorns National Park Authority (CNPA) has commissioned Landcase NorthEast to undertake a devictor study and mitial acological survey.

 A desktop sludy and subsequent ecological survey was conducted al Sile 005a, and at Struan, hear Celvina on 18 August 2010.

3. The 4.3ha proposed development sets a located at NN 801885.

4. The make helpitate are Recently-fulled Continuous Woodland, Dry Dwirf Shrub Heath with zone Marshy and Acid Grassland patches.

5. No notable plant spaces (those of UK conservation concern – see UK list of Vascular Plants of Conservation Concern <u>http://www.ukbup.org.iuk</u> – ar toose listed on the Camponia LBAP list of priority species) write noted.

6 No spacies of conservation concern and/or listed on the Camportal LBAP init of priority spacies were recorded on site

7. Some of the older frees may have potential roost sites for bars, in cracks, indian or under loose bark. The site is within 100m of the River Garry, where offers are known to be present. As such, site 005a is within potential otter foraging and breeding tentiony distance from the watercourse. There may be limited foraging opportunity for badger and bats here.

The site offers no suitable breading habitat for water vole or red squarei

Part I Mar 144

1.0 Introduction

Background

1 In order to make an assessment on ecological impacts of developments of sites that have been presented for inclusion in the Camporne Local Development Ptan, CNPA require develop studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase 1 survey and habitat suitability assessment was conducted at Site 005a, land at Struan, near Calvine, Perthshire.

1.3 The 4.3hs site is located at NN 801855

1.4 The survey work was banducted by Stelf Ferguson and Flom Groot-Taylor, both experienced wildlife surveyors, chartered environmentalists and members of IEEM

Existing Data

1.5 A review of the data held on the National Electiversity Network (NEN) gateway was undertaken to identify species of conservation concern that have been recorded on the proposed development site.

1.6 Other, badger, common pipistrulle and brown long-band bat records exact at the 10km level for the vicinity of the site. Red squittel and Scottish wildcat have been recorded within 1km square of the site.

1.7 Also recorded within 10km square of the site – Atlantic salinon, goldeneye, twite, tren harner, black grouse, capercalitie, redstank, lapwing, northern brown argus, peer bordered filling, mason bee, Kentish glory and outled mountain moth.

Designated Sites

1.8 The site is classified as Long Established Woodland of Plantation Origin (2b) on the inventory of ancient and long-established woodland sites. However, the woodland was felled in 2007.

1.9 To the west of this site sits Struan Wood SSSI, tiesigented for beidles, is mathand upland birch woodlend.

Frank Lines Torrest

2.0 Survey

Method

2.1 An ecological mayey was undertaken on the site on 18 August 2010.

2.2 A Phase 1 Habitat Mapping & Protected Spectas Survey, also referred to as an extended Phase 1 Ecological Survey, was undertaken for the title. Standard Phase 1 methodology was used, including detailed larget notes of notable plant species (them of conservation concern; also those listed on the Calingoma LBAP list ef priority species).

2.3 An assessment of the hebitat subbility within the proposed development site for mammal species was also undertaken

2.4 The standard optimal time to undertake an extended Phase 1 servey is between April and the eod of September. The survey time of mid-Acgust is therefore optimal.

2.5 The habitate are described by the use of target notes, annotated to the survey map (see Fig.2). Common species manues and scientific names (State C (1997) New Flore of the British lates. Second Ed. Cambridge University Press.) are given in the text below.

Results

Vegetation

2.6 This site is on fairly flat ground, rising to the south of the side. Previously a long established plantation, the site was clean-felled in 2007. Layers of dead brash suppress vegetative growth across much of the site and create an uneven hummocky surface. Where areas are free of felled branches and windblow, a variety of walland and heath plant communities there interspersed with bryophyte-rich open pdets and drainage dischas.

2.7 The main habitets present are felled layers of dearl wood and dwarf simult heath with smaller areas of marshy and acid grassimid, wit trushes and bracken manda. Main species present are listed in Appendix 2.

2.8 Recently-felled Coniferous Woodland A4.2

The main species foliod are Sitta spluce (Picos sitchensis), larch (Law deciduas) and Scots pine (Pinus sylvestris). Some silver birch (Behdu pendula), willow (Salis sp) and Scots pine have been left standing and survivo either as isolated individuals or in groups. Evidence of wincblown willow and birch ware noted.

2.9 Marsh/marshy grasslands B5

Where there are openings in the field layer of dead timber, ground conditions are wet Involughout much of the site. Rushes are important constituents in the field layer (See Target Notes 1 & B) with Sphagnum spo, bulbous rush (Juncus hubbosis) and broadleaved pendweed (Potencepton naters) frequent along ditch sides. Regenerating seedlings of bitch, rowan (Sorbus aucupanis), older (Sambusus night) and

Linear Circuit Correct

occasionnily, oak (Quarcus sp) were found where the ground layer of vegetation caver is tess dense.

2.10 Gry dwarf shrub heatn - acid D1

Although this community is damp in places, overall species composition is more characteristic of a dry heath. Leg heather (Calluna vulgaris) dominates, with small patches of cross-leaved heath (Encs. fetralix) and blueberry (Vaccinium myritilus) present (see Terget note 5).

2.11 Acid grassland - primproved B1 1

As the ground rises to the west end of the site, dominant species are those of acid grassland conditions, grading into dwarf aturb heath. Plants such as heath bedstraw (Gelium saxatile), beath woodnam (Lozula multitione), Germander speedwell (Veronica chamaedrys), wavy hair grass (Deschampsia floruesa) and sweet vernal grass (Anthoxanthum odorshum) become more frequent in the field layer (see Target note 7).

 2.12 Although some of the perimiter is fenced, most of the boundary a either open or delineated by drystane dyking.

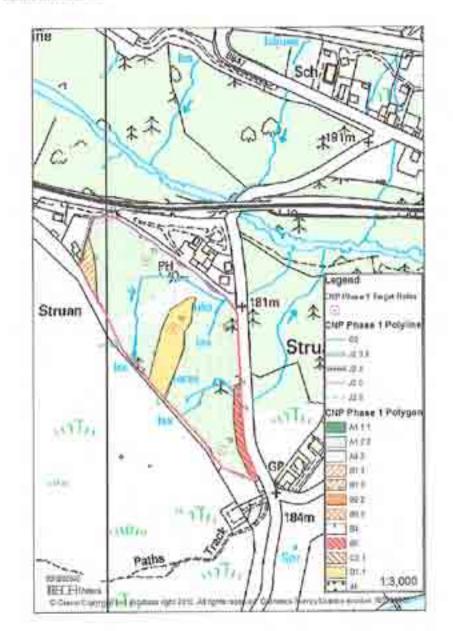
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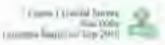
2.13 No species of conservation contern and/or sated on the Caimporns LBAP list of priority species were recorded on alta

However, a good range of invertabrates were noted, particularly butterfiles and dragonfiles. Other recorded fauna - common frog, wren utilising brash, blue tit, rabbit droppings, roa door prints.



Fig 1 Survey Map





3.0 Assessment of Habitat Suitability for Mammals

3.1 Prior to fealing, it is highly likely that this site would have been suitable for breading and foraging bridgers, red squimels and possibly bats.

However, at present, the site itself offers no suitable breeding hubital for water vole, or red aquirrel, although there may still be limited foraging opportunity for badger and bats here.

Some of the older trees may have potential roost altes for bats, in cracks, holes or under loose bark. The site is within 100m of the River Garry, where otters are known to be prezent. As such, site 005a is within potential otter fornging and breeding torritory distance from the watercourse.

No badger ealts or other holts were observed.

4.0 References

JNCC 1990 Handbook for Prese 1 habitat survey - a technique for environmental rudit 2007 adition Nature Conservancy Council

Stace, C.A. 1997. New Flora of the British lates. 2nd Edition. Cambridge University. Press.

UK list of Vascular plants of Conservation Concern http://www.ukbap.org.uk

Camponns LBAP Priority Speciae List www.countercom.com/

8

i hand a barchine

3

APPENDIX 1 - TARGET NOTES

T1 - NN 80059 85619

Wei flush at 190m altitude: nithes (Juncus offurus, J articulatus), lesser spearwort (Ranunculus Bainmula), cuckooflower (Cardemine pratensis) and foxglove (Digitalis purpurea), Sphagnum and, hard fem (Blacknum spicant), sedges (Cares echinata, C. diendra)

T2 - NN 70998-66677

Mature sycamore and birch on edge of site, with understorey of commun notitie (Unice divice) on disturbed ground, with gendern waste dumping evident unit small open pools of standing water

T3- NN 80184 65361

Stand of bracken (Pleadium aquillinim) with oak suplings

T4 - NN 80077 65567

Dragonflies - black darter and golden mood

T5 - NN 80098 65526

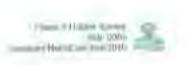
Ling heather (Caltura vulgens), tultad hairgmas (Deschampsia cospitesis), bleebarry (Vaccinium myrillus), purple moot grees (Molinia caerulos), cross-leaved heath (Erica fatraiix), tormoniil (Potentillo erecta), burch regeneration

T6 - NN 80188 65405

Marshy grassland Marish thistle (Circum pelushe), much willowhere (Epilobium palushe), cuckochower (Cardamine protensis), jointed mah (Juncus articulatus), sell rush (Jeffusus), eherp flowered rush (J. acutiliarus), wood torget-me-not (Myosotis sylvetica), common dog violet (Viole riviniana), common marsh bedatraw (Gallum paluntro), Garas spp. pitch & willow regeneration

T7 - NN 79972 65609

Species-rich acid heath/grassland: wavy hair grass (Deschampsia flaxuosa), heath bodstraw (Galum saxatilu), heath woodnish (Luzufa multifloro), ummander spectivel (Veronicu chamaddrys), Yorkshire fog (Hokra lanatus), common bent (Agrosit's capatitaris) with birch regeneration



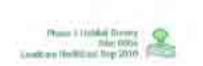
APPENDIX 2 - PLANT SPECIES LIST

English	Scientific
Illinck knapword	Contavena nigra
Bianbeny	Vaccinium myrbillus
oraickéin	Pladdium aquilitaim
Broad-Idayed Polydwood	Potiumogeton natami
Baltinus neth	autoritien (niithtineen
Caamoo beet.	Agrastis ceptitiria
Commen dog viden	Viewa civitatinate
Curaman foxglave	Digitalia purpentia
Common halesap mass	Polyfeichuns conaminant
Common marsh bedistraw	Gallum plikistro
Gross leaved beath	Elima felculia:
Cachparlowar	Cardarnine protozuli
Devil's presentious	Sipcon prafemens
Downy Birch	Batula pullescens
Eldo	Sambucits nigré
Europeen tarch	Larse crac/cfina
Newberge information	Vivence abimaturys
Hard Rean	Dischnum spicant
Harabell	Campanula rotundifoaiz
Health bootstraw	Gallam savathi
Hauth woodcubli	Lucula millillarni
Jainted rush	Ahisous aviountus
(www.sponwwi)t	Ramaseulus Mannadà
Losser troopek todge	Carax diambra
Ling heather	Colluna vuigarili
Manth Houte	Citalium palustre
Marsh willowherb	Epitoblum polusum
one seetling=	Quantum Mr
Panjala moor grass	MaSinia coanulya
Rapword	Senecio Jacobaes
Rowan	Sortus annuquela
Sentil pine	Paus sylvenities
Sharp flowered itish	Aurous acutillofue
Silver Birch	Bedula persitula
Silka njinice	Picea ultitionsie
Solf rish	Jumais efficiency
Star sedige	Carex ectimeta
Stinging notifie	United stinics
Sweet vernit grass	Anthoxanthum odovalian
Sycamora	Acer pseudoptatamis
Tomonili	Potontila erecta
Tottod Hiningcuss	Denstrompnia comptiona
Winy linit (Inits	Descharapsin Resuma
Wild rasphery	Rijbua ktianje

-10



Willows	Salix spp
Wood forget-me-not	Afyosotis sylvation
Yanow	Achillea millercitium
Yorkstime fog	Hallars kinatas
	Sphagnum spp



APPENDIX 3 - SURVEY PHOTOGRAPHS



Clear feiling has led to brash restricting ground lion growth; individual trees left standing



Site 005a is rich in invertebrates: such as black darter and golden ringed dragonflies

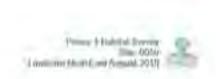
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APPENDIX 4 - PHASE 1 CODES

PHASE & CODE

Description

Broadinaved woodland - semi-cateral
Broatleaved woodlassi - plastation
Conference woodland - comercatival
Coniferana woodland - plantalien
Mixed woodland - semi-natural
Miked woodland - plantation
Sonib - denseiconfirmitus
Scrub - scattered
Broadleaved woodland - recently felled
Coollemin woodland - recently fulled
Mixed woodland - recently fulled
Acid grossland - unimproved
Acid grassland - senil-ingroved
Neutral grasshand - semi-improved
Catenreous grassland - semi-improved
Improved grossland
Marsh/marshy gressiand
Officer tail hairb and form - stateral
Dry dwarf shrub hmilh - aod.
Running Water
Hodge with home - special-poor
France
Wall
Dry dilate
Bare pround



Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: 005b Land to the north of Blair Castle Caravan Park Blair Atholl

August 2010

Steff Ferguson & Flora Grigon-Taylor CEnv MIEEM Landcare MonthEmil Phientaggart Migvie Tartiend AB34 4XQ E 013388 81376

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APPENDIX 1 - TARGET NOTES

APPENDIX 2 - SURVEY PHOTOGRAPHS

APPENDIX 3 - PHASE 1 CODES

Summary

 As part of the process of considering the suitability of Site 005b, Land to the north of Blair Castle Caravan Park, Blair Athod for inclusion into the Local Development Plan, the Caingorme National Park Authority (CNPA) has commissioned Landonre NorthEast to undertake a desktop study and initial ecological survey.

 A deaktop study and subsequent ecological survey was conducted at Site 005b, Land to the north of Bisir Castle Caravan Park, Blair Athnil on 19 August 2010.

3. The proposed development star is located at NN873651 and comprises approximately 4.9ha

4. The main habital is confernus plantation woodland.

 No notable plant species (those of UX conservation concern - see UK list of Vascular Plants of Conservation Concern <u>http://www.ukbap.org.uk</u> - or those listed on the Cairngonss LBAP (at of priority species) were noted

Signs of red southel foraging were noted. The wile has good habital potential for red sourrel, bats and badget.

Franci 2 Maldel Sorry Bala (1930) January Black and August (1944)



1.0 Introduction

Background

1.1 In order to make an assessment on ecological impacts of developments of sites that have been primented for inclinion in the Cetrogoms Local Development Plan, CNPA require dealthop studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase 1 survey and habitat suilability assessment was conducted at Site 005b, Land to the north of Blair Castle Caravan Park, Blair Athol.

1.3 The site is located at NN873681 and comprises approximately 4 9ha

1.4 The survey work was conducted by Stell Ferguson and Flora Grigor-Taylor, both experienced wildlife surveyors, chartered environmentalists and members of IEEM.

Existing Data

1.6 A review of the data held on the National Biodiversity Network (NBN) gateway was undertaken to identify species of conservation concern that have been recorded on the proposed development site.

1.6 Badger, otter, widdat and bat records exist at the 10km level for the vicinity of the site. Pearl bordered fittiliary have been recorded within the 2km level. Red source have been recorded within 1km aguare of the site.

1.7 Also recorded within 10km square of the site – goldeneye, twife, here hereim, black prouse, capercallie, northern brown argus, nigsherk and lapwing.

Designated Sites

1.6 The site is classified as Ancient woodland, Ancient wood replanted 20

1.9 The River Tilt which hows parallel with the eastern edge of the site. is part of the River Tay SAC

t 10 The land is located within Blair Castle Historic Gardens and Designed Landscape designeted as outlined in the Highland Ama Local Plan 2000, defined as 'Areas that have been set out and planted in the past (mostly within the last 200-300 years) and which are still recognizable as representative of a particular style of quality of period".

France V Constant General Solar Office Franchased Franchiston (Article 2010)

2.0 Survey

Method

2.1 An ecological survey was undertaken on the site on 19 August 2010

2.2 A Phase 1 Habitat Mapping & Protected Species Survey, niso referred to 25 an extended Phase 1 Ecological Survey, was undertaken for the sits. Standard Phase 1 methodology was used, including detailed target notes of notable plant species (those of conservation concern, also those listed on the Caimporns LBAP list of priority species).

2.3 An assessment of the habitat suitability within the proposed development site for ynammal species was also undertaken.

2.4 This standard optimal time to undertake an extended Phase 1 survey is between April and the end of September. The survey time of mid-August is therefore optimal

2.5 The hobitats are described by the use of target notes, anoptated to the survey map (see Fig.1). Common species names and scientific names (Stace C (1997) New Flora of the British tales. Second Ed. Cambridge University Press.) an given in the text ballow.

Results

Vegetation

2.6 The site consists of conifer woodland of plantation origin (A1.2.2) Stands of mature conifer form a closed canopy throughout most of the site and comprise mainly Scots pine (*Pinus sylvastrin*) with a spruce (*Picon sylcamos*) and tarch (*Lark spp.*). Occasional sycamore (*Acer pseudoplantanus*), birch (*Betula spp.*), rowan (*Sorthus eucopyrus*) and hawthom (*Crataegus monogyrus*) have self-needed into open areas.

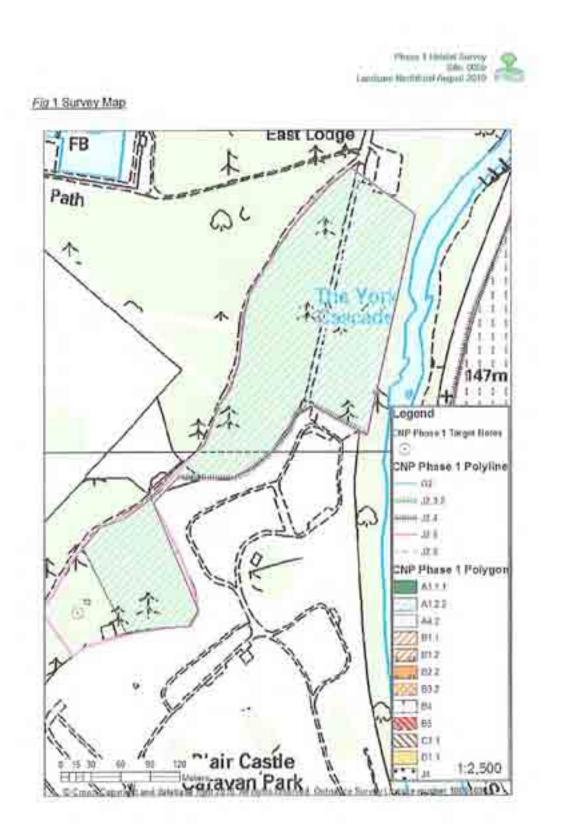
2.7 Ground flora is species rich (see Target Note 1 in Appendix 1), with statuts of male tern (Dryophuris INx-mus), rampberry (Ruhus Idaeos) and a rich bryophyte layer. Forbs include common dog violet (Viola riviniuna), germander speedwall (Veranism chamaedrys), wood extrel (Oxally acclosalia), wild strawberry (Fragana vesca), nedge writindwort (Stochyn sylvatica), chickweed winnorgreen (Triontalis curopaen) and dog's mercury (Marounalia perannis).

2.6 Phase 1 of neiday chalets in the southern most area of the site has been completed (Target Note 2).

Fauna

2.9 Fresh and abundant evidence of feeding remains of red squittel were noted throughout the site

2.10 Evidence in the form of droppings of rabbits, deer and hedgehog (five eighling) ware noted on site:





3.0 Assessment of Habitat Suitability for Mammals

3.1 Evidence of red squirrel feeding on sits was noted. The woodland type offers ideal habitot for this species, and dreys may be present on site.

5.2 Mature trees are likely to offer potential roost allos for bats within gracks, holes and loose bark. Bal foraging opportunities are ideal within woodland, woodland edge and surrounding parkland and farmland.

3.3 The site is acjacent to the River Till, where others are likely to forage and potentially may bread. The River at this location is unlikely to offer suitable water vole habitat

3.4 No badger setts were noted during the auryay, however the habitat is suitable for this species.

4.0 References

JNCC 1990 Handbook for Phase 1 habitat survey - a technique for environmental audit. 2007 edition. Netwo Conservancy Council

Stace, C.A. 1997, New Flora of the Botish bass. 2st Edition. Cambridge University Press

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APPENDIX 1 - TARGET NOTES

T1 - NN 87379 66130

Species list woodland ground flora

American elder Birch (seedling) Elaobarry Bugle Bush Vetah Chickweed wintergreen Cleavers Common bent Common dog a viciet Common figwort Dog rose Dog's metoury False arome Foxglove Germando/ speedwoll Great woodrush Hedge woundwart Male fem Oali (seedling) Pink purslane Hanpberry Rosebay willowherb Satfreel Snowberry Stinging Nettila Sycamore (seeding) Tufted hairgrass Wild elfewberry Wood avenue Wood forget-me-not Wood some!

Sambucus conodana Betilla sp Vaccinium myrtillus Ajuga restans Vicin sopilem Trientells europäea Galum aparine Aprinitie capillane Viola rivireana. Straphedaria nodose Rosa canina Morcaulaties parrentia Brechypodium aylvatioum Digitalis purpurea Veronica chamaediys Luzida syrvidica. Stachys sylvallas Dryoptaris tiloc-max Quercus top. Claytonia sitirica Ruhus Maous Enlobian angustifolian Promitio vulgaria: Symphoricarpos albus Unice ditino Acur oxeudoplatanus Descharipsia cemitoaa Frigana vesca Geom lutanam Myosalis sylvatics Oxalis acetosetta

T2 - NN 87137 65846

Phase 1A of holiday chalets has been completed.



APPENDIX 2 - SURVEY PHOTOGRAPHS



005b - Mature stands of planted curviters



005b - Evidence of recent squittel feeding



005b - Stands of male fern (Dryopteris flio-mas)

7

Them (110) (Thirry) (10), 20% (10), 20% (10), 20%



APPENDIX 3 - PHASE 1 CODES

PHASE 1 CODE

Description

A1.1.T	Broamsavod woodland - semi patalow
A1.5.2	Breadleaved woodland - plantation
A121	Confletous woodland - semi-national
A122	Conilarous woodland - plantation
A1.3.1	Mixed woodland - sensi-natural
A1.3.2	Moset woodland - plantation
A2.1	Scrup - demensionitimous
A2 2	Scrub - scattered
A4.1	Broadleaved woodland - recently hilled
A4.2	Coniterous woodland - recently felled
A4.5	Mixed woodland - recently telled.
B1 1	Acid gressland - unimproved
B12	Acid grassland - semi-improved
82.2	Neutral grassland - semi-improved
83.2	Calcareous grassland - semi-instoved
B4	Improved grassivers
85	Macabimanity grassland
CA.1	Other tall herb and fers - tudeus
D11	City dwarf stimm health - acid
62	Running water
12.3.2	Redge with trees - species poor
12.4	Fence
12.5	Wat
32.6	Dry ditory
24	Bare ground

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: 005c Land at the Old Nursery, Old Blair, Blair Atholl

September 2010

Stell Ferguson & Flora Bilgor-Taylor CEnv MIEEM Pituemaggart Migvie Tartant AB34 4XO T 013365 81376



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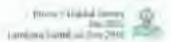
Summary

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APPENDIX 1 - TARGET NOTES APPENDIX 2 - PHASE 1 CODES



Summary

 As part of the process of considering the suitability of Site 005c for inclusion into the Local Development Plan, the Calingorms National Park Authority (CNPA) has commissioned Landcare NorthEast to undertake a decktop study and initial ecological survey.

 A desktop study and subsequent ecological survey was conducted at Site 005c. land at the Clid Namony, Old Blain, Blair Atholt on 18 August 2010.

3. The proposed development site is 1Ha, located at NN 867867

4. The main habitat is wat Semi-improved Neutral Grassland and beech hadge.

5. No notable plant species (those of LIX conservation concern – are UK list of Vascular Plants of Conservation Concern <u>http://www.ukcap.org.uk</u> - or those listed on the Cairngorms LBAP list of priority species) were noted.

6. The site others suitable foregoing habitat for badger and bats.



1.0 Introduction

Background

1.7 In order to make an assessment on ecological impacts of developments of maximat have been presented for inclusion in the Caingoriths Local Development Plan. CNPA impuire desktop studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase 1 survey and habitat sustability assessment was conducted at Saw 005c, land at the Old Nursery, Old Blair, Blak Atholi, Perthebire.

1.3 The THis will is located at NN 887667

1.4 The survey work was conducted by Steff Ferguson and Flota Grigor-Taylor, both experienced wildlife surveyors, chartered environmentalists and members of IEEM.

Existing Data

1.5 A raview of the data held on the National Biodiversity Network (NBN) gateway was undertaken to identify species of conservation concern that have been recorded on the proposed development site.

1.6 Common orpistralle, brown long-eared bat, wildcat, ofter and badger records exist at the 10km level for the vicinity of the site. Red squirrel and Soprano pipistralle presence have been recorded in 1km squares approx. 1km (or less) from the site.

 T Also recorded within 10km square of the site – goldensiye, twite, hen hemer, black grouse, capercallie, redéhank, lapwing, Northern brown argus, pearl bordened fritillary, mason bee and Kentish glory.

Designated Sites

* B There are no statutorily designated eiter within the survey area itself, although Ancient Woodkinds of Old Eller are close to the western boundary

1.9 The land is located within Blair Castle Historic Gardens and Designed Landscape designitied as outlined in the Highland Area Local Plan 2000. defined as "Areas that have been set out and planted in the past (mostly within the last 200-300 years) and which are still recognizable as representative of a particular sitle or quality of period."

tille and the set

2.0 Survey

Method

2.1 An acological survey was undertaken on the site on 18 August 2010.

2.2 A Phase 1 Habitat Mapping & Protected Spicies Survey, also referred to m an extended Phase 1 Ecological Survey, was undertaken for the sile. Standard Phase 1 methodology was used, including detailed target notes of notable plant species (those of conservation concern, also those listed on the Calingorms LBAP list of priority species).

2.3 An assessment of the habitat solubility within the proposed development site for mammal soccies was also undurtaken.

2.4 The standard optimal lime to undertake an extanded Phase 1 survey is between April and the end of September. The survey time of mid-August in therefore optimal

2.5 The habitats are described by the use of target notes, annotated to the survey map (see Fig.2). Common species names and scientific numus (State C (1997) New Flore of the British Isles' Second Ed. Cambridge University Press.) are given in the text below.

Results

Vegetalion

2.6 This site comprises an innoised field, proviously minimiged as a tree realiery for growing young trens for commercial sale. The site is now unmanaged, with no sign of being grazed or mowild in past year or more. In place of trees, the area is now dominated by rushes, grasses and other tail withind species and rudarals.

2.7 Senii-Improved Neutral grassland B2

Much of the site is permanently moist-widerlogged. The main species present are soft rush (Juncus effusus), common hogweed (Heraclouin sphondylium), creeping thistie (Cirshan arvense) and tuttus vetch (Vice cracce), see Target note 1 for species list. Patches of tail ruderats (see Target note 2) tuive colonised around the edge of an area of handstanding, now used as a farm storage site.

Plins of brash and occasional moribund lichen-covered reveal (Sorbus aucupatia) were noted on the site.

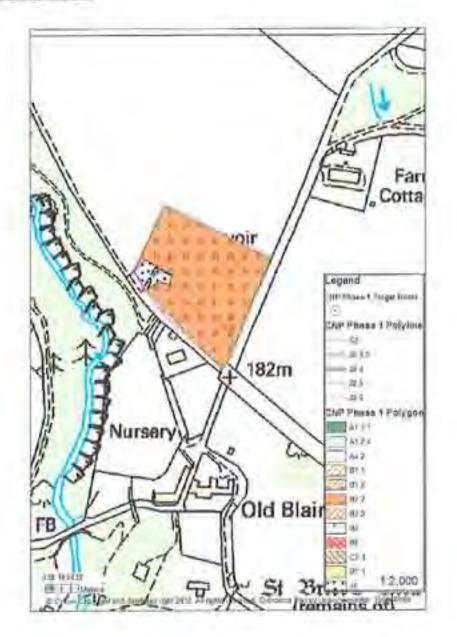
2.8 The boundary is delineated by a beech hidge on all four sides, with some mature perimeter tracs present – coppar beech (Fague sylvatica 'jurpurca') and sycamore (Aper Pseudoplalanus).

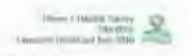
Fauna

2.9 No species of conservation concern and/or listed on the Camporn's LBAP list of priority species were noted on site.



Fig 1 Survey Man





3.0 Assessment of Habitat Sultability for Mammals

3.1 The site itself offers no suitable breeding habitat for otter, water vole, bet, budger or red squirrel. It does offer suitable foreging habitat for badger and bats

4.0 References

JNCC 1990 Handbook for Phase 1 habitat survey - a technique for environmental audit 2007 edition. Nature Conservancy Council

Stace, C.A. 1997 New Flora of the British Isles. 2¹⁴ Edition. Cambridge University Press.

UK list of Vascular plants of Conservation Concern http://www.ukbaip.org.uk Calingoma LBAP Priority Species List www.calingoms.co.uk Main Issues Report - Background Evidence 5. Site Analysis

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APPENDIX 1 - TARGET NOTES

T1 - NN 88776 85782

Main species in the sward; soft rush (Juncu's effusus), common hogweed (Heracleum sphondylium), creeping thistic (Clasium arvenae) tutted vetch (Vice cracca), rorisible fog (Nolcus lanatus), meedow foxtal (Alopecurus pratensis), broad-leaved tock (Rumer obtuatelius), deeveni/gootegrass (Galium aparine), yerraw (Achilee mille/alium), common regivert (Senecio Jacobesa), marsh witowheth (Epitobium salustre)

T2 - NN 86710 66787

Hard standing time used as farm storage sits - silage wraps, feed traiters and feed rings Tall colonised vegetation on disturbed ground at adgs, such as broad-leaved rlock (Rumex obtuellofkus), creeping thistle (Circlum arvente)

T3 - NN 86735 66743

Upin of trees, remnants of micsely - silver birds (Behula pendula), Norway spruce (Piora ables)

internet (instant fft Grap | internet (forontrant App)

APPENDIX 2 - PHASE 1 CODES

PHASE 1 CODE	Description
A1.1.1	Broadleaved woodland - semi-natural
A1.1.2	Broadleaved woodland - plantation.
A1.2.1	Conitivous woodland - somi-natura
A1.2.2	Coniferous woodland - plantation
A1.3.1	Mixed woodland - semi-natural
A1.3.2	Mixed woodland - plantation
A2.1	Scrub - dense/continuous
A2.2	Scrub - scattered
A4.1	Broadleaved woodland - recently feiled
A4.2	Coniferious woodland - recently felled
A4.3	Mixed woodland - recently felled
81.1	Acid grassfand - unimproved
81.2	Acid grassland - semi-improved
B2.2	Neutral grassland - semi-improved
B3.2	Galcareous grassland - semi-improved
B4	Improved grassland
B5.	Marsh/marshy grassland
C3.1	Other tall nerb and forn - ruderal
D1.1	Dry dwarf shrub heath - acid
G2	Running water
12.3.2	Hedge with frees - species-poor
J2.4	Fence
J2.5	Walt
.12.6	Dry ditch
34	Bare ground

Main Issues Report - Background Evidence 5. Site Analysis

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: 005d Land at Black Island, Blair Atholf

September 2010

Steff Farguson & Flora Grigor-Taylor MIEEM SocEnv Pittentaggart Migvie Tarland AB34 4XQ 1: 013398 81376 e: claff (farry immediated p.W.

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Existing data	4	
Designated sites	4	
2.0 Survey	5	
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3.0 Habitat Suitability for Mammals	9	
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APPENDIX 1 – TARGET NOTES APPENDIX 2 – PLANT SPECIES LIST APPENDIX 3 – SURVEY PHOTOGRAPHS APPENDIX 4 – PHASE 1 CODES

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Summary

 As part of the process of considering the suitability of Site 005d for inclusion into the Local Development Plan, the Gaimgorms National Park Authority (CNPA) has commissioned Landcare NorthEast to undertake a desktop study and initial accelogical survey.

 A desktop study and subsequent ecological survey was conducted at Site 005d, land at Black Island, Blair Atholi on 18 August 2010.

The 31.5ha proposed development site is located at NN 853654.

4. The main habitats are confer plantation, broad-leaved semi-matural woodland, stands of encient Scots pins, regenerated scrub, distuibed open ground supporting mab's weeds and other open areas of unimproved species-rich calcierous/mesot/ophic grasslands and shingle banks.

 No notable plant species (those of UK conservation concern – see UK list of Vascular Plants of Conservation Concern <u>http://www.ukpap.org.uk</u> - or those listed on the Caimporns LBAP list of priority species) were noted.

E. Evidence of otter, but and red squirrel presence were recorded on the site

 The site offers soliable become and foroging husant for offer, bats, red squirtels and badgers

1 to 0. and 100000 10 10 10 10 10 10 10

a summary barrows

1.0 Introduction

Background

1.1 In order to make an assossment on ecological impacts of developments of sites that have been presented for inclusion in the Caimporns Local Development Ptan GNPA require desktop studies and ecological surveys of each site to be undertaken.

1.2 Will regard to this, an extended Phase 1 survey and habital suitability assessment was conducted at Site 005d, land at Black Island, Blair Atholi, Perthaning

1.3 The 31.5ha site is located at NN 853654

1.4 The survey work was conducted by Steff Ferguson and Flora Gogor-Taylor, both experienced wildlife surveyors, chartered unvironmentalists and membors of IEEM.

Existing Data

1.5 A review of the date held on the National Biodiversity Network (NBN) galeway was undertaken to identify species of conscribition concern that have been recorded on the proposed development sits.

1.6 Common pipistrelle and brown long-nared bat, badger, otter and wildcat records, exist of the 10km level for the vicinity of the site. Soprand pipstrelle and red squared are recorded within 1km square of the site.

1.7 Also recorded within 10km square of the sile – Goldaneye, twile, their harrier black grouse, capercalitie, redshank, lapwing, mason bee and Kentish glory Northern brown arguit and pearl bordered finaliary have been recorded within 2km square and Atlantic salmon in the River Garry to a distance of 100m.

Designated Sites

1.6 This site is on the banks of the River Garry, a tributary of the River Tray SACdesignated for Atlantic salmon (Salmo salar), Brook tamprey (Lampetra planen), Clear-water takes or lochs with aquatic vegetation and poor to moderate nutrient tavals, Otter (Lutra lutra), River tamprey (Lampetra fluviatilis) See tamprey (Petromyzon manual).

The eastern section of the site is classified as Long Established woodland of plantation origin (2b) on the inventory of ancient and long-astabilished woodland sites. These are defined as "Sites shown as plantation woodland in c 1860 but not shown as woodland at all in 1750 or shown as plantation on these maps. These are woodls that were apparently planted before 1860."

A limit of

2.0 Survey

Method

2.1 An ecological survey was undertaken im the able on 18th August 2010.

2.2 A Phase 1 Habitet Mapping & Protected Spacies Survey, also referred to as an extended Phase 1 ecological survey, was undertaken for the site. Standard phase 1 methodology was used, including detailed target rotes of notable plant species (those of conservation concern; also those listed on the Caingporns LBAP list of priority species).

2.3 An assessment of the habitat suitability within the proposed development site for mammal species was also undertaken.

2.4 The standard optimal lime to underlake an extended Phase 1 survey is between April and the end of September. The survey time of mid-August is therefore optimal.

2,5 The hepitess are described by the use of target notes, annotated to the servey map (see Fig.2). Common species names and scientific names (State C (1997) New Flore of the British Isles. Second Ed. Combridge University Press.) are given in the text below.

Results

Vegetation

2.6 This site is on flat ground on the north bank of the River Garry. It comprises a strip of floodplain between the main Perdi to inverteas reliway line and the riverbank and incorporates a series of paths, open rides and a wayleave from overhead power lines. It is close to the main A9 road.

2.7 The main hubitats present are open conder plantation, brond-leaved semi-natural woodland, stands of ancient Scots pine, regonerated scrub, disturbed open ground supporting arable weeds, open areas of unimproved species-rich calcareous and meeotrophic grasslands and shingle banks. Main species present are listed in Appendix 2.

2.6 Conferous Plantation Woodland A1.2.2

A variaty of conitor plantation types are found, presenting a range of age, species and management methods. In general, the canopy is fairly open, particularly towards the western end of the site, where dominant species are Sitke spruce (Picea attributes) and Scots Pine (Pinus sylvestris) with occasional birch (Betula typ) and alder (Alnus glutinose) at the woodland edge. Evidence of thinning and grazing was includ there. Sections of disturbed ground with feed balles support a number of arabie woods – see Target Note 1.

Standa of Scots Pine are evident throughout the site, one stand in particular supports a number of notable encient trees – sas Target Note 2. In addition to spruce and pine, larch (*Larix deciduas*) becomes more frequent towards the eastern edge of the womtlianti

Instanting 2

2.9 Broad-leaved Semi-futural Woodland A1.1.1

A variety of woodland sub-categories feature here. Naturally regenerating birch and sider wet woodland; mature policy specimens elong an old embankment, overhanging riparian willow (Salix spp), birch and alder scrub.

Other than small open granitional policities, broadleaves typically form the main vegetation type along the overbank. Shingle material is being colonisat in many places by akter and willow scrub.

Otter prints were noted on sandy substitute below lipesian scrub - see Target Note 4

For much of the sile, well-establishail mature broadwaves dominate, with a scattering of contents in the canopy layer. Dominant species in the canopy are birch, alder, rowan (Sorbus aucupane), wilow and bird cherry (Prainus padus), with beech (Fegus symallos) and with (Frasinus exception) occurring occasionally along the embandment al eastern and of the site. The understorey and ground layer are typically well-developed and diverse with frequent evidence of natural regeneration - see Target Note 5. Notable species present in the ground flore include columbine. (Aquilagia volgarie), water mint (Mentha aquatica), dog's mercory (Mercurialis parennis), bladder campion (Silene volgaris), common figwort (Scrophalaria nodosa) and goldenred (Solidago virgaurea).

2.10 Unimproved Calcareous Grassland B3.1

The interior woodland habital incorporates small patches of open ground supporting toriatically diverse swards, with species characteristic of calcendous conditions. Notable species present include common reathinrow (*Ononis repens*), kidney vatch (*Anthyllis vulnerane*), wood sage (*Teachum scorodonia*), tuited vetch (*Vicie cracca*), ling heather (*Calluna vulgans*), bird's-foot trefoil (*Lotus comiculatus*) and yerrow (*Achiles millefolium*). Numerous common carder bees were recorded forsging here.

2.11 Unimproved Neutral Grassland B2.1

On open ground, this type of grasstand dominates and is targety unmonthed (by, for example, whitche fortilisers, sturry, intensive grazing, herbicide or drainaget Consequently this classified as unimproved, although has been maintained through human intervention as unplanted open ground due to pretainoo of overhieut powerlines.

The wayleave runs almost parallel to the railway line niong the north adge of the alm Regenerated south is evident on this strip of open ground - see Target note 3

2.12 The alls is fericed along the raiway line and open to River Garry. Posts and lengths of dofunct fericing (stockproof and electric) were noted in various states of disreptivi within the alls. Many disusted concrete structures remain on the sits, most likely left over from a wartime logging camp constructed for Carisdian forestry workers. There are also remains of an old stone embankment and other stone denict buildings possibly associated with a formar water supply system. The level of noise from passing mill and marroy car traffic is considerable.



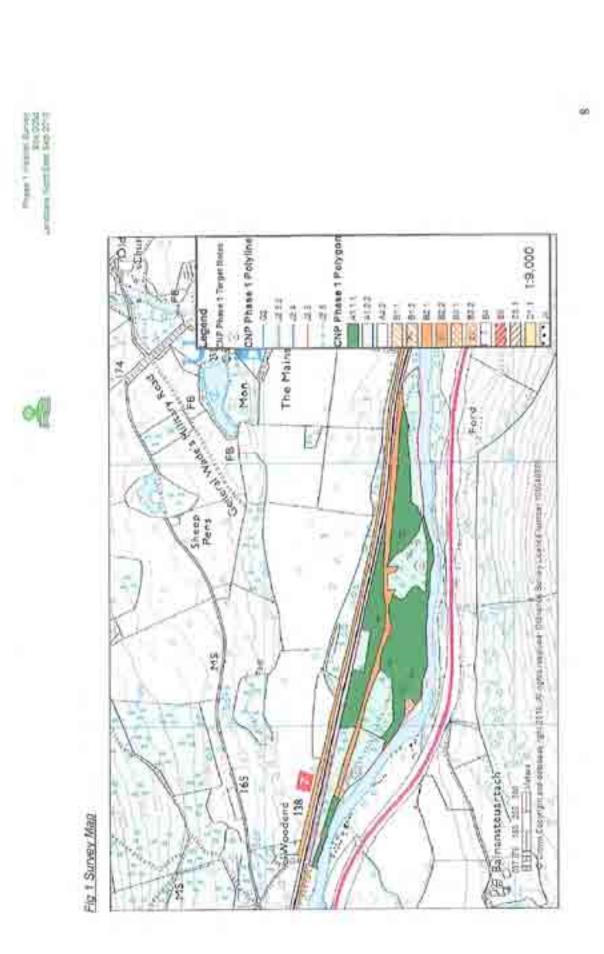
Fauna

2.13 Bet droppings, most likely Common or Soprano plpistrelie, were found studie to the interior wall of a derelict concrete structure in the centre of the site. Ottar prints were recorded along the river bank and evidence of squirrel presence was found throughout the site where suitable habital was present. Signs of squirrel foraging were observed in much of the confer plantation, particularly where the Sitka spruce campy was most dense. Signs consisted of chewed cones, some fresh, on the forest floor. See Target Notes for bother details.

2.14 Other recorded fauna - common carder ben, bull and white tailed cumblebees, small white, small toroiseshell and peacock butlerflies, grey and pied wagtals, nesting swallows.

Rabbill, fox, ros deer droppings and prints

A mink raft was present along the banks of the River Garry, suggesting suspected American mink presence



Cairngorms National Park Local Development Plan

3.0 Assessment of Habitat Suitability for Mammals

3.1 Otter: the site itself offers suitable foreging and breading habitat for otter and signs of otter presence were recorded during survey.

Manufactoria Control

3.2 Water Vole: Ihm watercourse and associated banks have imited potential for water vole colonisation. However through much of the site, bankside substrate comprises cobbles and therefore offers few burrowing opportunities. Shorter sections of non-sendy substrate do occur.

3.3 Bats there are plenty of old trees throughout the site some of which would provide suitable bat roosting sites. The sile also offers ample foraging potential. Bat droppings were noted in a develot concrete structure.

3.4 Red squirrel, signs were recorded throughout the site wherever suitable feeting opportunities were found i.e. below stands of dense Sitks spruce. There are also ample nesting opportunities for red squirrels and if is highly itself that dreys are on site.

3.5 Badger the site offers suitable breeding habitat and foraging opportunities for badgers. It is highly likely that this site is utilized by foraging and transitory badgers.

4.0 References

JNCC 1990 Handbook for Phase 1 habitat survey - a technique for environmental audit 2007 edition. Nature Conservancy Council

State, C.A. 1997. New Flore of the British Islas. 27 Edition. Cambridge University Press.

UK list of Vascular plants of Conservation Concern http://www.ukbap.org.uk

Ceimgoma LBAP Priority Species List www.caimpomis.co.uk

APPENDIX 1 - TARGET NOTES

T1 - NN 84824 65639

Open mean of disturbed ground which throwed curifers, colonised by arabia weedsredsharik, chickweed, perennial sow thiste, common notile, white clover red dead notile, with rappenry, spear thistle, regwort.

12 - NN 85696 65410 Stand of notably large ancient Scola pines

T3- NN 86016 65475

Open ground below wayssave for overhend power lines supporting grassland vegetation and recolonising scattered birth and wild rapperry scrub.

T4-NN 85157 65356

Otter toot prints along sand at river bank

T5 - NN 85205 65456

Grounil layer below semi-natural broad-leaved woodland, includes

Bladder campion (Silane vulgans), water mint (Mentha aquatica), dog's morcury (Mercunalis perennis), common fumitory (Fumeria officineiis), tuffed heirgrass (Devolumpsia cespitosa), false oal grass (Amheriatherum elatius), wood normi (Oxalis acetosella), greator woodrush (Luzula sylvatica), common dog vlotet (Viole nvinianit), wild strawberry (Fraganite vusca), common figwort (Scrophulana regisea), hedge woundwort (Stachys sylvatica), black knapweed (Centaurea regro), harabell (Campanuta refundifolia), germander speedwell (Veronica chamaedrys), devil's bit scablous (Succina inviterisis), lady's bedstraw (Galium verum), selfheat (Prunelle vulgatis) oak and beech saplings, birch polypore

TG - NN 85100 65400

Birch-alder wet woodland with rusted sumped vehicle carcasses.

17-NN 85375 65501

Deretict concrete hut with but droppings on wall and nesting swattows

T8 - NN 85610 65379 (and throughout sile)

Cheweil pine and spluce cones on woodland floor, suggesting red squarel foraging

TB -NN 84558 65778

Open ground below waytazve

Meadow vetching (Lathyrus printmis), common hogwood (Herwoeum sphondylum), block knapwrod (Centaurea nigra), creeping thistle (Cirsium arvense), rosebay willowhech (Epilobium angustifolium), coreye dway (Leucanthermina vulgere), lady's mantin (Alchernilla vulgaris), broom (Cytisus scopanus), bramble (Rubus fruitcasus), wild trapperty (Rubus idaeus), red clover (Trifolium praterise), harebelt (Campanula rotunditolia) germander specievel (Versinica chamaedrys), bird's foot trafoil (Lotus comiculatus), white clover (Trifolium repens), devil's bil scabious (Success prefensis), ribwert plantain (Plantago lanceclata), yarrow (Achilue milefolium), columbine (Aquilogia vulgaris), lady's beautifaw (Galium venum), seitheet (Pranella vulgans)

Caroline Human Sector



APPENDIX 2 - PLANT SPECIES LIST

English	Scientific
Beach	Fague sylvation
Bird meny	Prunus pinaus
Bird's fuel Instal	Lefus conscutatue
filines compared	Cuntauree nigra
Bladdor campion	Silicon vulgaris
Bransble	Rubus hulicospi
Broom	Cytisus ecopiilius
Cocksloo)	Dactylis glemerate
Columniusa	Aqualingia vulgarta
Common adder	Almus gilulimosia
Common usi	Frazioni ozraźsioc
Common chickwood	Stolfathin model
Common dog violet	Victa riventene
Common figwort	Scrophulana nodesa
Common fleritory	Furgena officinalis
Common hogword	Haracleum spbandyium
Common resitharrow	Ondois reports
Cresping thistle	Cirsium arvense
Devil's till scabibidi	Social proteins
Dog's memory	Mercurialis poranais
Downy birds	Betuta pubescana
European largin	Envice specificati
False satgrass	Arthreadheaum etabasi
Germandor speedwall	Veronica chemaethryle
(Schlenvall	Solidago virgaines
Grunter woodrash	Lucuta sylvintica
Harobell	Camproully retardiballa
Hedge woundwort	Stachys sylvatica
Kighey yetzh	Anthylia vuiseana
Lixdy's bodstow	Guillant votant
Luciy's manta	Alchemilta solgana
Ling howther	Californa vuiganis
Meadow vetobiling	Lathyous pratemets
Oxeye daily	Leucordhonum volgara
Pedunculate ost	Charles the rolling
Perintal sow thistle	Souchus arvensia
Ragwort	Senecio picabana
Red clover	Trifpium printense
Red good name	Lannöhm pumpustetem
Redettanie	Polygonum persimila
Repword plantan	Frantago tancealada
Rosebay willownerb	Ephobium dagustitaiium
Rowan	Sautuus wucuparie
Scols pinie	Pinus sylvestils
Settheal	Franklita vulgame



Silver Blitch	Betilia pendula
Silika apouce	Picaa senhansis
Spear thiste	Circitate subgare
Stinging hottle	Unitos dipica
Tuffed Hargrass	Deschampsia cespitoan
Tufted writch	Viccia cracca
Winter mildi	Mentita aquatista
White clover	Treloluce repons
Wild ruspberry	Rubus identa
Wild Buiweberry	Fingaria vessa
Willows	Salix spp
Wood sage	Texicrium scorodonia
Wapd some	Oxulh acetusella
Yantiwe	Achilica millefolium
Yarkshire tug	Heidatuse filemetikes



APPENDIX 3 - SURVEY PHOTOGRAPHS



Thinned conifer plantation - see T1



Mixed broadleaved woodland with clearings

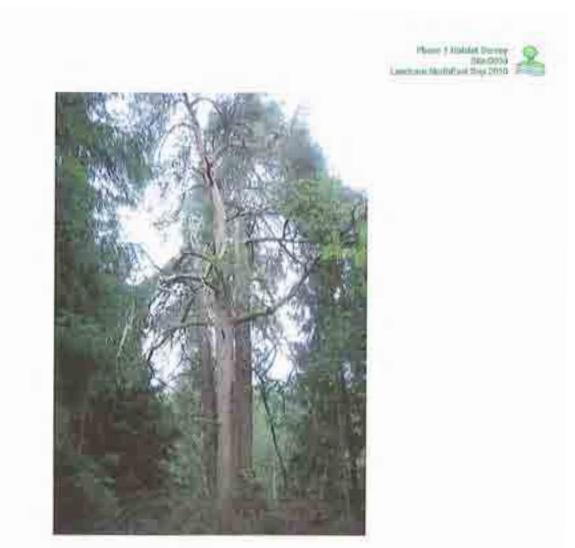




Otter prints on riverbank - see T4



Signs of squirrel foraging - noted throughout dense conifer blocks



Ancient Scots Pines - see T2



APPENDIX 4 - PHASE 1 CODES

PHASE 1 CODE

Description

A5.3.0	Benetikevelő vodsilántal – semi-takturné
A1.1.2	Broadleaved woodkand - plantation
A1.2.1	Confisions woodland - semi-mationi
A1.2.2	Coniferous woodland - plantation
A1.3.1	Mixed woodland - somi-naturiti
A1.3.2	Mixed woodland plantation
A2.1	Schub - dense/continuous
A2.2	Strub - sclittered
A4.1	Broadleaved woodsaud - recently felled
A4.2	Conifernus woodland - meently felled
A4.3	Mixed woodland - recently folled
BT.1	Acid grassiand - unimproved
B1.2	Acid grassiand - semi-improved
B2.3	Neutral grassland - serv-improved
83.2	Calcaroous grassland - anni-improved
B4	Improved grassland
85	Marshimershy grassland
C3 1	Ollash tail herb and ferm - ruderal
D1.1	Dry dwarf shrah heath - azid
G2	Running water
.12.3.2	Hedge with trees - species-print
12.4	Fence
12.5	Wait .
J2.0	Dry Blok
.14	Bare ground
	Contraction of the second s

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: 005f Land at Garryside, Blair Athol

August 2010

Steff Ferguson & Flora Grigor Taylor CErry MIEEM Landouro North Lind Pittontoggan Migwe Tartand AB34 4XQ L 013399 81376

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Sum	mary	1
1.0	Introduction	2
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2.0	Survey Method Results Vegetation Fauna	****
3.0	Habitat Suitability for Mammals	5
4.0	References	5

APPENDIX 1 - TARGET NOTES

APPENDIX 2 - SURVEY PHOTOGRAPHS

APPENDIX 3 - PHASE 1 CODES

Notes and Second (1) More and Second (1) Miles Income Second (1)



Summary

I. As part of the process of considering the suitability of Sile 005f, Land at Garryside, Blair Atholi for inclusion into the Local Development Plan, the Cairingorms National Park Authority (CNPA) has commissioned Landcare NorthEast to undertake a desktop study and initial ecological survey.

 A desktop study and subsequent ecological survey was conducted in Site 005f, Land at Garryside. Bleir Atholi on 19 August 2010.

 The proposed development site is located at NN872650 and comprises approximately 2 2ha.

4 The main habitat is semi-improved acid grassland.

 No notable plant species (those of UK conservation concern or those listed on the Calingorms LBAP list of priority species) were noted.

The site may provide bot, after and badger foraging habitat as well as possible water vote habitat.

Witness Tillionitid Trees

Communer Munice

Size #00

Transid TD10

1.0 Introduction

Background

1.1 In order to make an assessment on ucological imports of developments of alles that have been presented for inclusion in the Calingornia Local Development Plan. CNPA require desktop studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase 1 survey and habitat suitability assessment was conducted at Site 0051, Land at Garryside, Blair Atholi, Perthshire.

1.3 The site is located at NN872650 and comprises approximately 2.2ha

1.4 The survey work was conducted by Steff Ferguson and Flora Grigor-Trylor, both experienced wildlife surveyors, chartered environmentalists and members of IEEM.

Existing Data:

1.5 A review of the data held on the National Biodiversity Network (NBN) geteway was undertaken to identify species of conservation onnorm that have been recorded on the proposed development site.

1.6 Northern brown argus and pean bordered fribiliary butterflies have been recorded at 2km level, and red equinel at 1km level.

1.7 Badger, otter, wintcal and bat records exist at the 10km level for the vicinity of the site. Also recorded within 10km square of the site – goldoneyo, twife than harrier, black groupe, capercalitie, redshark and lapwing.

Designated Sites

1.9 The site is bordered by the River Garry to the would and the River Tilt to the sast. Both are part of the River Tay SAC.

2.0 Survey

Method

2.1 An ocological survey was undertaken on the site on 10 August 2010.

2.2 A Phase 1 Habitat Mapping & Protected Species Survey, also referred to as an extended Phase 1 Ecological Survey, was undertaken for the site. Standard Phase 1 methodology was used, including detailed target notes of notable plant species. (those of conservation concern; also those listed on the Caimgorms LEAP het of priority species).

2.3 An assopoment of the habital eutability within the proposed development site for mammal species was also undertaken.

2.4 The standard optimal time to undertake an extended Phase 1 survey is between April and the end of September. The survey time of mit-August is therefore optimal.

2.5 The habitate are described by the use of target robbe, annotated to the survey map (see Figure 1). Common species names and scientific names (State C (1997) New Flore of the British Islaw. Second Ed. Cambridge University Press.) are given in the text below.

Results

Vegetation

2.6 This where it is on level ground with a single step located towards the north of the site, where the ground rises slightly. The level nature of the site indicates if may have constituted a flood plane in the past.

2.7 Main species creater are false out grass (Anthomitherum walius), Yorkithire log (Holous lanatus), cocksfoot (Doctylis glomarata), tufted hairgrass (Deschampsin cespitosa), tufted vetch (Viccia cracica), varrow (Achilles millipfolium), common hogweed (Heracleum sphondylium) and creating cuttercup (Rananculus ropens), constituting semi-improved acid grassland, B12 (see Target Note 1 in Appendix). Species incluses of sware varies across the site, with a greater concentration of forba towards River Tilt bunks (cast) as well as towards the north.

2.8 The boundary is a real lade to the west (see Target Note 2) which has a retaining wall an its west bank. There is some overbanging vegstation and occasional common alder (*Alma ghilarosa*) on the west bank. Water guality appeared peer and emitted a bad odour.

2.0 On the south the star is bound by the River Garry, while the eastern boundary in the River Till, which flows into the Garry at the site's southeast corner.

2.10 A small bank forms a step in the site towards the northern end, which displays more species nonness and also a non-typical clomp of tall vegetation (see Target Note 3)

and a sub-later state

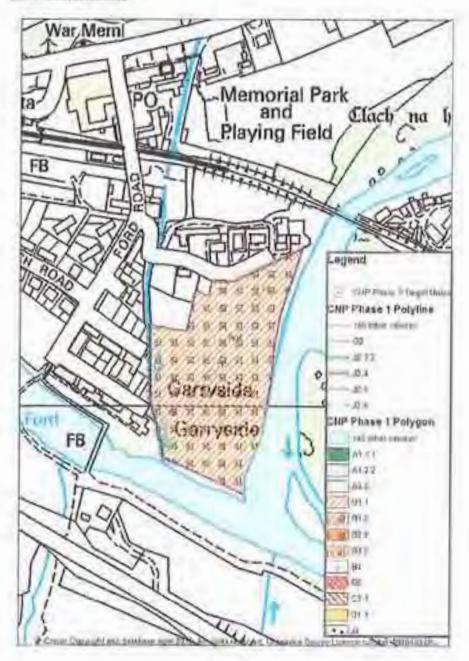
Finne Hinned Streey Raw 0013 Fatoring University Report 2018

Fauna

2.11 No species of conservation concern and/or listed on the Calingomis LBAP list of priority apacles were nated on site.

2.12 The site was observed to be cich in insects, with a range of foraging butterflies recorded, including peacock, small tortorseshell and fotillanes, as well as bumblebees and other nectar feeders.

Eigure 1: Survey Map





3.0 Assessment of Habitat Suitability for Mammals

3.1 The site itself offers no suitable brooking habitat for bat and red squirrel. No badger setts or other haltsrresting sites were observed. There may be foraging opportunities for badger, other and particularly bats, as the site altracts a wide range of insects. Limited tree cover is likely to restrict the suitability for bats.

3.2 The mill lade forwing the west boundary of the site offers potentially suitable habitat for water vole

4.0 References

JNCC 1990. Handbook for Phase 1 habitat survey - a technique for environmental audi: 2007 edition. Nature Conservancy Council

Stace, C.A. 1997. New Flora of the British Isles. 2^{re} Edition: Cambridge University Press.



APPENDIX 1 - TARGET NOTES

T1 - NN87241 65029

The main species in semi-improved acid grassland sward

Cockstoot Common hogweed Common sorrel Greeping buttercus **Greeping Uhelle** False onl press Germander speedwell Maadow yetchling Tulted Itairgrass Tufted wetch White claver Yairow Vorkahire fed

Diactyles glonimate Heraciuum sphondylium Rumex acetosa Ranunculus repens Cirtilum arvanso Arthenathecum alatios Veronica chamaediys Lathyour, protentsis Daschamps/u cespitoair **Viceна** снисса Trifolium repons Actubus millefotium Heicus Janatus

T2 - NN 87190 64982

Mill lade forming the weatern boundary of the site. This is a deep ditch, with a stone retaining wall on its western bank. Water quality appeared poor, emitting an unpleasant odour

Vegetation is fall and overhangs the open water, with a few common aider Alous plutinosa slong the western bank. Champs of gorden lossestife Lyalmachia spp. were notable along the banks

Eastern benir may offer nuitable water vole isabitat.

Angelica	Angelice sylveshis
Bindwsed	Convolvulus levensli
Common alder	Ainus ghitinosa
Field scablous	Knautie arvensis
Meadowsweet	Filipendula ulmona
Rosebay willowherts	Epilobium ungustifalium
Stinging nettle	Unlica dicica
Garden locsestrife (darden eacupe)	Lysimachia pp

E.

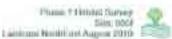
A mail to a first a second sec



T3-87289 66104

In the northern section, an embankment traverses the situ roughly from northeast to south west, forming a small step in the otherwise level plane. Some forbe not found elsewhere on the site were recorded here, as well as an unusual clump of tall vegetation, dominated by Dame's violet *Hasperis matronalis*.

Dame's violet Deavers Scentless mayweed Controlit reathstrow Rosebay willowherb Marsh woondwort Burnet suxifiage Hespans matronalis Gallum aperine Matricaria perforata Orichin cepent Epiloblum engristifolium Stachya pelustra Pimpinella saviraga



APPENDIX 2 - SURVEY PHOTOGRAPHS



Site 005f looking south from bank. River Tilt to left of picture.



Mill lade at site 005f

Main Issues Report - Background Evidence 5. Site Analysis

Patient I Statistic Groups Disc 2016 J. Jammad Bin Schulz and Bernard Statis



APPENDIX 3 - PHASE 1 CODES

PHASE 1 CODE	Description
ALLI	firoadaavail woodiand - eere radatan
AL12	Broadleaved woodland - plantation
A1.2.1	Conference woodland - semi-natural
A122	Caniferous woodland - plantation
A1.3.1	Mixed woodland - annit-natural
A1.3.2	Mixed woodland - plantaban
A2.1	Scrub - dense/continuous
A2.3	Satub - scattered
A4.1	Broadleaved woodland - recently falled
A4.2	Coniferous woodland - recently felled
A4 3	Mixed woodland - resently tellad
日1.1	Acid grassland - unimproved
81.2	Acid grassland - semi-improved
82.2	Neutral pressiend - semi-amproved
832	Calcareous grassland - semi-improved
E4	Improved grassland
85	Manshimanshy grassiland
03.1	Other tall herb and tern - roderel
D11	Dry rhwart shrult himth - and
62	Running water
J2 3.2	Hedge with trees - species-paor
12.4	Fence
J2.5	Well
12.6	Dry anch
,14	Eleve growing

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: 005g Land at Middlebridge, Bridge of Tilt, Blair Atholi

September 2010

Stoff Ferguson & Flora Grigor-Taylor MiEEM SocEnv Pittentaggant Migvio Tarland AB34 4XQ 1. 013398 81376 0:

These I Shidled Top res Lindows Wanted and Dec. 2010

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Existing data	4	
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2.0 Survey	5	
Method	5	
Results	5	
Vegetation	- 5	
Fauna	B	
3.0 Habitat Suitability for Mammals	7	
4.0 References	7	

4.0 References

APPENDIX 1 - TARGET NOTES APPENDIX 2 - SURVEY PHOTOGRAPHS **APPENDIX 3 - PHASE 1 CODES**



Summary

As part of the process of considering the subsolity of Site 005g for inclusion into the Local Development Pton, the Caimgormil National Park Authority (CNPA) has commissioned Landcare NorthEast to undertake a desktop study and initial ecological survey.

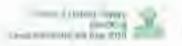
 A desktop study and subsequent ecological survey was conducted at Site 005g, Middlebridge near Bridge of Till on 18 August 2010.

3. The proposed development site is 6 3Ha located at NN 578668.

4 The main Rebitat is Improved Grassland.

 No notable plant species (those of UK conservation concern - see UK list of Vescular plants of Conservation Concern http://www.ukbap.org.uk - or those listed on the Calingoms LBAP list of priority species) were noted.

6. The site may provide bat and badger foraging habitat.



1.0 Introduction

Background

 I in order to make an assessment on ecological impacts of developments of sites that have been presented for inclusion in the Caimporns Local Development Plan. CNPA require desktop studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase 1 survey and habitint willability assassment was conducted in Site 0059, Land at Middlebridge, Bridge of Tilt, Bally Atholi, Permishina.

1.3 The 6.3Ha sile is located north of this village of Old Bridge of Till at NN 878668

1.4 The survey work was conducted by Stat! Ferguson and Flora Grigor-Taylor, both experienced wildlife surveyors, chartered environmentalists and members of IEEM.

Existing Data

1.6.A review of the data held on the National Bodiversity Network (NBN) gateway was undertaken to identify species of conservation concern that have been recorded on the proposed development site.

1.6 Bindger, otter, wildcast and but (common & soprano pipistrelle, brown long-eared) records exist at the 10km level for the vicinity of the site. Red siguinel is recorded within 1km square of the site, as well as records at 100m level in mature woodlands at the western site boundary.

1.T Also recorded within 10km square of the site – Goldmaye, twite non harner, black grouse, capercalitie redshank. Inpwing pear-bordered frittlary, Kentish glory and mason bee. Northern brown orgus tas been recorded within 2km square.

Designated Sites

1.7 Gien Tilt Wood BSSI, designated for its upland mixed aan woodland, is sociated immediately west of adv boundary. The River Tilt, situated approximately 100m fram the western edge of the site, is part of the River Tay SAC.

and a strain of the strain of

2.0 Survey

Mathod

2.1 An acological survey was undertaken on the site on 18 August 2010.

2.2.A Phase 1 Habital Mapping & Protected Species Survey, also referred to as an extended Phase 1 ecological survey, was undertaken for the site. Standard Phase 1 methodology was used, including detailed target notes of notable plant species (those of conservation concern; also those listed on the Calingorms LBAP list of priority species).

2.3 An assessment of the habitet subbility within the proposed development site for maninual species was also undertaken.

2.4 The standard optimal time to undertake an extended Phase 1 survey is between April and the end of September. The survey time of red-August is therefore optimal

2.6 The habitats are described by the use of larget notes, annotated to the survey map (see Fig.2). Common species names and scientific names (State C (1997) New Flora of the British Jales. Second Ed. Cumbridge University Press.) are given in the text below.

Results

Vegetation

2.6 Tills sile /s on undulating sleeply sloping familiand and contributes improved pasture, grazed by sheep and horasis.

2.7 Improved Grassland B4

Main epocies in the sward are perannial ryograss (Lolium enrenne), crested dogs tall (Cynosurus cristatus), Vorkshire log (Holcus lanatus), white clover (Trifolium repens), common mousear (Cerastium fontanum) and daisy (Bellis perennis) with patches of common nettle (Unice cloice) and creeping thistle (Circum ervenise)

2.8 The boundary is funced on all sides. Overhanging mature broadleef trees of the adjacent Gien Tilt Wood feature along the western alte boundary.

Fauna

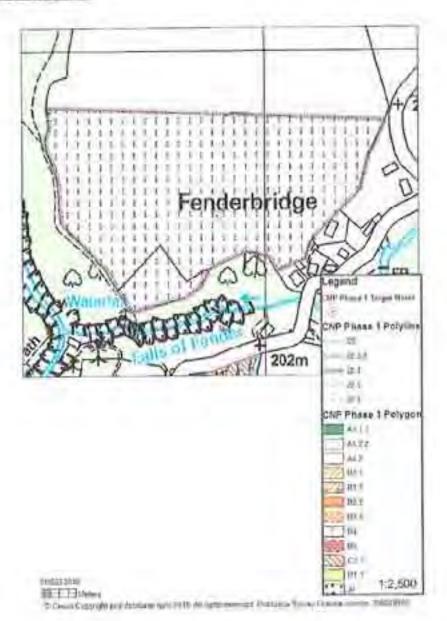
2.9 No species of conservation concern and/or listed on the Calmgoms LBAP list of pilolity species were noted on site.

- A -

Main Issues Report - Background Evidence 5. Site Analysis



Fig 1 Survey Map



0

France Francis Strengt

3.0 Habitat Suitability for Mammals

3.1 The site itself offers no suitable brasiding habital for otter, water vole, but and red squirrei. No badger sets were observed. There may be limited foraging opportunity for badger and bats here.

4.0 References

JNCC 1990 Handbook for Phase 1 habitat survey - a technique for environmental audit. 2007 edition, Nature Conservency Council

Stape, C.A. 1997. New Floris of the Billish Isles, 2rd Edition, Cambridge University Press

UK list of Vascular plants of Conservation Concern http://www.ukbap.org.uk

Chimporms LBAP Priority Species List www.catogorms.co.uk

11

Internet Linkson Superce and OCUL



APPENDIX 1 - TARGET NOTES

T1 - NN 87942 86814

Wet spring with small open tiltches. Jointed rush (Juncus articulatus), soft rush (J influeus), cuckooflower (Cardamine pratensis), bristle club-rush (Scirpus šetaceus)



APPENDIX 2 - SURVEY PHOTOGRAPHS



Sile 005g, looking uphill from the western end



Site 005g, from eastern boundary

0

Plane 1 Honsol for Sile O

APPENDIX 3 - PHASE 1 CODES

PHASE 1 CODE	Description	
A1.1.1	Broadleaved woodland - semi-natural	
A1.1.2	Broadleaved woodland - plantation	
A1.2.1	Coniferous woodland - semi-natural	
A1.2.2	Conitecous woodland - plantation	
A1.3.1	Mixed woodland - semi-halund	
A1.3.2	Mixed woodland - plantation	
A2.1	Scrub - dense/continuous	
A2.2	Scrub - scattered	
A4.1	Broadleaved woodland - recently felled	
A4.2	Coniferous woodland - recently felled	
A4.3	Mixed woodland - recently folled	
B1.1	Acid grassiand - unimproved	
B1.2	Acid grassland - semi-improved	
B2.2	Neutral grassland - semi-improved	
B3.2	Calcareous grassland - semi-improved	
84	Improved grassland	
B5	Marsh/marshy gnessland	
C3.1	Other tall herb and fem - ruderal	
D1.t	Dry dwarf shrub heath - acid	
G2	Running water	
J2.3.2	Hedge with trees - species-poor	
J2.4	Fence	
J2.5	Wall	
J2.6	Dry ditch	
J4	Bare ground	

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: 005h Land at Pitagowan, Blair Atholl

September 2010

Staff Pergunan & Flore Gegar-Taylor CEse MIEEM Landiaum NorthForm



Philodeggen Migste Tarland AB34 4XQ 1: 013395 81576 9: 1011



CONTENTS

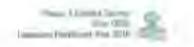
Summary

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4. References

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APPENDIX 1 - TARGET NOTES APPENDIX 2 - SURVEY PHOTOGRAPHS APPENDIX 3 - PHASE 1 CODES



Summary

 As part of the process of considering the suitability of Site 005h (or inclusion into the Local Development Plan, the Calingomic National Part Authority (CNPA) has commissioned Landcare North/East to undertake a desidop study and initial ecological survey.

 A desktop study and subsequent ecological survey was conducted at Sile 005h, land at Pitagowan, near Bialr Atholi on 18 August 2010.

3. The proposed development site is 2.2he located at NN 817658.

4 The main nabilal is provideaved semi-metural woodland.

5. No notable plant species (those of UK conservation concern - see UK list of Vascular Plants of Conservation Concern <u>http://www.ukbep.org.uk</u> - or those listed on the Carrigoms LBAP list of priority species) write noted. However, the presence of aspen is note-worthy, as the species is important to encourage aspen lioverity (Hammerschrödtis famigines) and aspen bracket fungus (Phallinus Insmute), both Carrigoms LBAP priority species.

B. The site offers suitable breeding and foreging habitat for badgers and ball.

1.0 Introduction

Background

1.1 In order to make an assessment on ecological impacts of developments of sites that have been presented for inclusion in the Campons Local Development Plan, CNPA require desktop studies and acological surveys of each site to be undertaken.

1.2 Willi regard to this, an extended Phase 1 survey and habitat suitability assessment was conducted at Site 005h, land at Pitagowan, Blair Atholi, Perthabito

1.3 The 2.2ha site is located at NN 817858

1.6 The survey wore was conducted by Staff Ferguson and Firm Groot-Taylor both experienced wildlife surveyors, chartered environmentalists and members of IEEM.

Existing Data

1.5 A review of the data held on the National Biodiversity Network (NBN) geteway was undertaken to identify species of conservation concern that have been recorded on the proposed development site.

1.6 Common pipelrelle, brown long-eared bat and badger records exist at the 10km lovel for the vicinity of the site. Other, Soprand pipetrelle, Atlantic salmon and wildcat taive been recorded within 1km square and vid squimels at 100m level.

1.7 Also recorded within 10km square of the sile – goldeneys, twile, has maner, black groups, capercallie, redshank, lapwing. Northern brown argus, pearl bordered frillbary, mason bee and Kentish glog.

Designated Sites

1.2 There are no statutorily designated wires in the survey aceas or imptudiate environs.

Add Date

2.0 Survey

Method

2.1 An acclogical survey was undertaken on the site on 15 August 2010.

2.2 A Phase 1 Habitat Mapping & Protected Species Survey, also referred to as an extended Phase 1 Ecological Burvey, was undertaken for the site. Standard Phase 1 methodology was used, including datalled target notes of notable plant species (those of conservation concern, also those listed on the Calingomia LBAP list of priority species).

2.3 An essessment of the habitat suitability within the proposed development site for mammal species was also undertaken.

2.4 The standard optimal time to undertake an extended Phene 1 number a between April and the end of September. The survey time of mid-August is therefore optimal

2.5 The habitats are described by the use of target notes, encodated to the servey map (see Fig.2). Common species names and scientific names (Stace C (1007) New Flore of the Bohah Islas, Second Ed Cambridge University Press.) are given in the test below.

Results

Vegalation

2.6 This site is on unover ground, situated alongside the main Perth to inverness milway line, which forms the northern site boundary. The busy B847 runs along the site's aouthorn boundary. The main habitat supported is wet mixed breakleaved woodhind, exhibiting abundant signs of natural regeneration in the field and scrub layers.

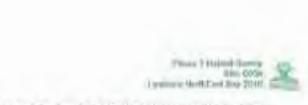
2.7 Serni-natural Broadleaved woodland A1.1.1

The dominiant trees in the canopy are espen (Popular treesula), bird cherry (Pronus padun), silver birch (Betula pendula), rowan (Sorbus aucuperia) and willows (Sally spp). Aspen is particularly provalent lowards the wastern and of the sile. The most finquent plants in the ground libra are chickwood wintergroan (Trientalis europera) and Germander speedwell (Veropics charmewarys) along with fine grasses - see Target Note 1.

Conditions are well for much of the site, particularly towards the western end. Small drainage ditches and wet flushes are present, supporting welland plants such as broadleaved pondweed (Polamogeton natants) and lesser spearwort (Ranunculus flammula)

Where the candpy is open, regeneration of all the main canopy species is evident, as well as the occasional oak (*Quercus* sp) sending. Birch regeneration is dense where the canopy is open below the powerine wayhave - see Target Note 2.

The site is also rich in fungs, typical of this type of woodland (e.g. chanterelle, birch polypons, birch balate)

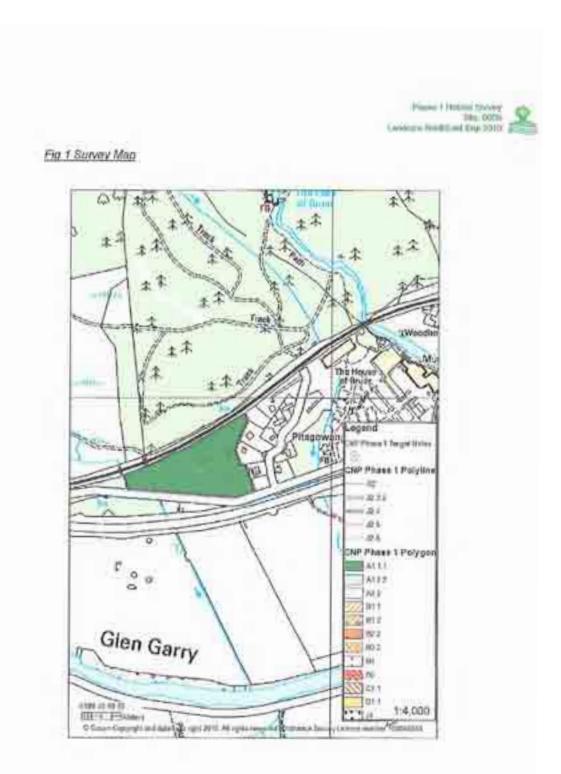


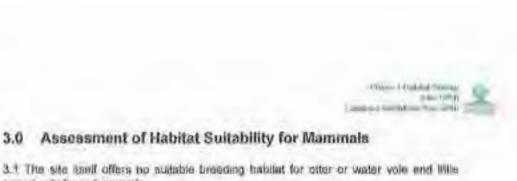
2.6 The boundary is fenced on all sides and the level of noise from passing tail and car traffic is considerable.

Fauna

2.9 No species of conservation concern anklior listed on lits Calmpsons LBAP tat of priority species were noted on site.

The open rides in the woodland wave not in butterflikes and other invertebrates.





opportunity for red sources

There are comprous old trees throughout the site, some of which would provide suitable bat roasting sites. The site else offers for apring potential for bets.

Woodland socions offer good badger habitat, both for foraging and dwalling, although no sets were observed mining survey.

4.0 References

JNCC. 1990. Hantibook for Phase 1 Aubital survey - a technique for environmental audit. 2007 edition. Nature Conservancy Chuncil

Stace, C.A. 1997. New Flora of the British Jokes. 2" Edition. Cambridge University Press.

UK list of Vascular plants of Conservation Concern http://www.ukbap.org.uk Calmgomes LBAP Priority Species List www.calmpomes.co.uk

Line Colu-

APPENDIX 1 - TARGET NOTES

T1 - 81720 66860

Ground flom, most frequent torbs are Germander speedwell (Veronica chamaedrys) and chickweed wintergreen (Triantais europsen), elongside heeft bedstraw (Gelium sexuble) and localised extensive patches of blueberry (Vaccinium mynifius). Occasional harebell (Gampanula rotundifolia), common dog viciet (Vicia rivinium), wild raspberry (Ruhus ideaus) and davits-bit scabious (Succisa prateriais) present.

T2 - NN81772 65679

Open canopy below wayteave supporting abundant trick regeneration





APPENDIX 2 - SURVEY PHOTOGRAPHS

Semi-natural woodland, with self-seeded broadleaves





Aspen features frequently in the canopy and shrub layers, with evidence of spread by root suckers

Phase | Manual Transfer

APPENDIX 3 - PHASE 1 CODES

PHASE I CODE Description Broadtimived woodland - wimi-mitwel A1.1.1 Broschewood woodland - plantidian A1.1.2 Conferous woodiand - semi-netucal A121 Conifercias woodland - plantation A1.2.2 Mixed woodland - noni-natural A1.2.1 A1.32 Mixed woodland - plantakine Scrub - domafectitinuous A2.1 A2.2 Senda - scattered A4.1 Broadloaved woodland - recently felled Conterous woodland - recently felled A4.2 14.3 Mixed woodland - meantly tellen 61.1 Acid grassiand - unimproved Acrid Gransland - same improved 812 Neutral grassland - earn incoroved 82.2 Culcarcous grassland - sami-improved B3.2 **B4** Inproved greesland 85 Marshimarstry grantiland Other bill herb and firm - rudsmil C3.1 D1.1 Dry dwarf shub healt - acid (32) Running Weller 12.3.2 Hedge with treas - spectra-poor 124 Feecia. 12.5 Witt .12.6 Dry ditch Barro ground 24

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: 19a Land at Ballintoul - Potential Development Site

August 2010

Staff Forgeson & Flora Griger-Taylor CErv MIEEM Landcars NorthEad Patentaggait Migvis Tartand AB34.4XQ E 013296 81375 et 15 for an information cal

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APPENDIX 1 - TARGET NOTES

APPENDIX 2 - SURVEY PHOTOGRAPHS

APPENDIX 3 - PHASE 1 CODES

Process 1 Provided Learning

Summary

 As part of the process of considering the suitability of Site 19a, Land al Ballintoul Potential Development Site, for inclusion into the Local Development Plan, the Calingerms National Park Authority (CNPA) has commissioned Landcare NorthEast to undertake a desktop study and initial ecological survey.

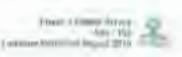
 A meaklop study and subsequent ecological survey was conducted at Site 12a an 19 August 2010.

 The proposed development site is located at NNB79651 and comprises approximately 3.1hz.

4. The main habitats are improved grassland, currently managed for sliage as well as a narrow strip of sumi-improved calcareous grassland along the west and north boundary of the site, where no agricultural management has taken place.

5. No notable plant species (those of UK conservation concern - see UK list of Vakcular Plants of Conservation Concern http://www.ukbep.org.uk - or those listed on the Cairngorms LBAP list of priority species) were noted.

5. The site may provide bat and badger foreging habitat



1.0 Introduction

Background

t t in order to make an assumment or ecological impacts of developments of sites that have been presented for inclusion in the Cairogorms Local Development Plan, CNPA require design studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase 1 survey and habitat suitability assessment was conducted at Site 19a, Lood at Ballintoul - Potentiel Development Site, Blar Alholi, Perthabite

1.3 The alte is located at NN879851 and compliants approximately 3 that

1.4 The survey work was conducted by Stell Ferguson and Flora Grigor-Taylor, both experienced within surveyors, chartered environmentaliats and members of IEEM.

Existing Data

1.5 A review of the data held on the National Biodiversity Network (NBN) gateway was undertaken to identify species of contienvalion concern that have been recorded on the proposed development site.

1.6 Northern brown ergus and pearl bordered fittillary butterflies as well as other have been recorded at 2km (evel, and red squirre) at 1km (evel.)

1.7 Badger, otter, wildcat and bat records exist at the 10km level for the vicinity of the site. Also recorded within 10km square of the site – goldeneye, twite, han harrier, black grouse, capercallie, redshank and lapwing.

Designated Sites

1.7 There are no statutorily designations on the land surveyed.

1.8 There is a SSSI site approximately 150m east of the site, located within the same parcel of land as the development site. Blair Atholi Mondow SSSI is a thin strip of sloping grassland on fluvio-glasial deposits and is important for the presance of species rich calcareous grassland, the only known exemple in Perthalina.

Artist Armenii 2010

2.0 Survey

Method

2.1 An ecological survey was undertaken on the site on 19 August 2010.

2.2 A Phase 1 Habitat Mapping & Protected Species Survey, elso referred to as an Extended Phase 1 Ecological Survey, was undertaken for the site. Standard Phase 1 methodology was used, including detailed target notes of notable plant species (those of conservation concern; also those linked on the Gairngorms LBAP list of photolly species).

2.3 An assessment of the habitat suitability within the proposed development site for mammal species was also undertaken.

2.4 The standard optimal time to undertake an Extended Phase 1 Survey is between April and the end of September. The survey time of mid-August is therefore optimal

2.5 The habitate are described by the use of target notes, annotated to the survey map (see Fig.1). Common species names and scientific names (Staon C (1997) New Flore of the Brinsh Isles. Second Ed. Cambridge University Press.) are given in the text below.

Results

Vegetallon

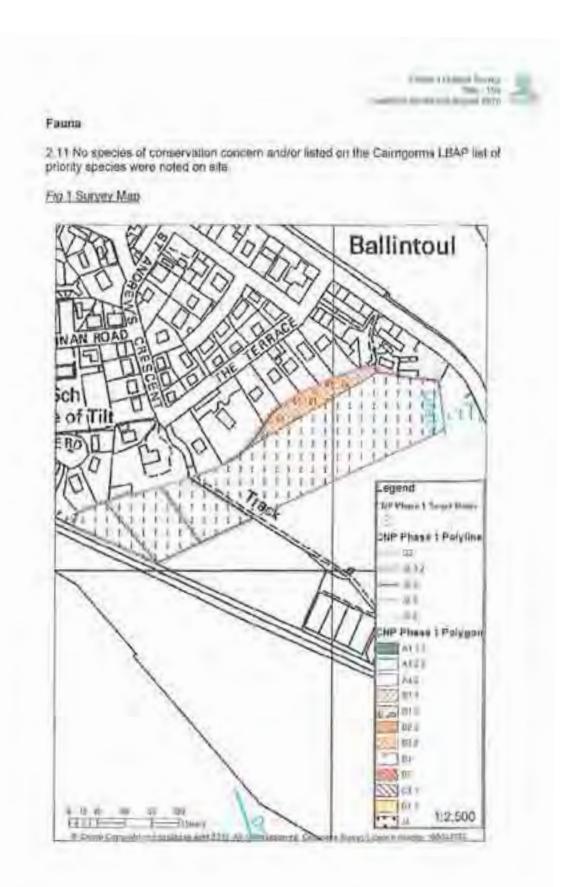
2.6 This site is on level ground, located in a sirip along residential houses and mature gardenis to the northwest.

2.7 The main habitat a improved grassiano (84), currently managed for wage of grazed A strip of semi-improved calcareous grassiand (83,2) lies between the improved sward and the gardens of the residential houses to the northwest with a range of widthowing present in the sward, which appears unmanaged

2.8 The improved grassland consists of commercial grasses and is rich in white clover. The semi-improved ship of tell vegetation has a wide range of plants, including field scablous (Knaulin aryansis), black knapweed (Contairea ragra), cocksfoot (Doutyds glomerata), false cal grass (Arrhenathenant elaitits), lesser burdock (Archam minus), bindwaett (Convolvidue aryannis) and meallow cranesbill (Gerantian prateries)).

2.9 The boundary of the site consists of garden walls and some fences to the northwest, several functions divide the western end of the strip into smaller units currently grazed by etseep, while the main bulk of the site is unfenced along its salitarin and conthem edgs. Mature inere (including gean (*Pranus avium*), systemore (*Acer pseudoplatarius*), rowan (*Sorbus aucuparin*), Scots pine (*Plaus sylvestrin*), ash (*Finkinim micelikin*) and willows (*Salik spp.*)) as well as shrubs including blackfrom (*Pranus spinosa*) and spowberry (*Symphorcarpos elbus*) overhang the nile to the northwest and a dry ditch lies to the north.

2.10 An access track leading to sewage liketiment works to file east blaccts the sitewest-wast, also providing access from the residential area to the northwest.



Treme & Thermal Largery Siles: West

3.0 Assessment of Habitat Suitability for Mammals

3.1 The site itself offers no suitable breeding habitat for otter, water vole, bat and red squarel. No badger setts were observed. There may be foraging opportunity for badger and bals here.

4.0 References

JNCC. 1990. Hendbook for Phase 1 habitat survey - a technique for environmental wutit. 2007 edition. Nature Conservancy Council

Stace, C.A. 1997. New Flore of the British Isles. 2th Edition. Cambridge University Press

1 Total 7 Hand Theory 1 Mine 1948

APPENDIX 1 - TARGET NOTES

T1 - NN 87970 65175

Calcareous grassiant bank along unmanaged ground induating residential partients to northwest.

Species recorded:

Bindweed Black knapweed Broad-leaved dock Cockefoot Creaping buttercup. Creeping thistle Dograss False cal grasa Field scabious Gound sider Greater stitchwort Lessat burdock. Meadow cranes-bill Respherry Rod clover. Tufted vetch White clover

Convolvatos arvensis Centaurea nigra Rumme obtasilolars Dactyris glomerate Renuncellos repons Cirshim arvense Rose canine Armenatherum etatius Knautia anvonsis Aegopodium podagrafia Stallaria holostee Archium minus Geranium pratense Rubus ideous Triblium pratemse Viodia omoca Trifolium repens



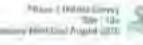
APPENDIX 2 - SURVEY PHOTOGRAPHS



Site 19a looking north and west, adjoining residential properties and gardens

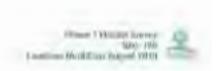


Site 19a looking south, internal fencing and sheep grazing



APPENDIX 3 - PHASE 1 CODES

PHASE 1 CODE	Description
A1.1.1	Broadleaved woodtand - semi-matural
A1.1.2	Broadlewvel woothand - platearson
A5.2,1	Conferous woodland - somi-natural
A1.2.2	Coniferous woodkind - plantation
A131	Mixed woodland - seril-natural
A13.2	Mixelt woodland - plantation
AZ1	Scrub - demelocatiliaucos
A2.2	Scrub - scattered
A4.1	Brastlasved woodand - recently letted
A4.2	Contierous woodland - recently folled
A4.3	Mixed woodland - recently felled
B1.1	Adid grassland -unimproved
81.2	Add grassland - semi-improved
82.2	Neutral grassland - semi-improved
822	Calcareous grassfield - sent-improved
84	hisproved grassland
85	Mensh/marshy gransland
C3.1	Other tall herts and firm - rudens
Q1.1	Dvy dwarf shrub heath - ockl
(32	Repairing water
123.2	Hedge with trees - species-poor
22.4	Fente
J2.5	Wat
22.6	Dry diten
36	Bare ground
	and the second sec



Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: 19b Land at Middlebridge - Potential Development Site

August 2010

Steff Fieguena & Flora Grigor Taylor CErv MIEEM Landoure NorthUsed Pitterdaygait Migvie Tartend AB34 4XQ F 013368 81378

Time 110 miles former 100

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Sum	mary	1
1.0	Introduction	2
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4.0	References	5

APPENDIX 1 - TARGET NOTES

APPENDIX 2 - SURVEY PHOTOGRAPHS

APPENDIX 3 - PHASE 1 CODES

Hone Hillman Konwy

Summary

t. As part of the process of considering the suitability of Site 19b, Land at Middlebudge - Potential Development Site for inclusion into the Local Development Plan, the Calingomia National Park Authority (CNPA) has commissioned Landcare NorthEast to undertake a desktop study and initial ecological survey.

 A desktop study and subsequent ecological survey was conducted at Site 19b, Land at Middlebridge on 19 August 2010.

 The proposed development site is located at NN879866 and comprises approximately 0.2ha.

4. The reain habital is tall sudard shoute.

 No notable plant species (those of UK conservation concern - see UK list of Vescular plants of Conservation Concern <u>http://www.ukbap.org.uk</u> - or those linked on the Calinguitms LBAP list of priority species) were noted.

6. The site may provide bat and badger foraging habitat



1.0 Introduction

Background

1.1 In order to make an assessment on acological impacts of developments of allos that have been presented for inclusion in the Camponns Local Development Plan, CNPA require desktop studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase 1 survey and habitat suitability assessment was conducted at Site 19b, Land at Middlebridge - Potential Development.

1.3 The site is located at NN879866 and comprises approximately 0.2hs.

1.4 The survey work was conducted by Steff Ferguson and Flora Grigor-Taylor, both expenses and wildlife surveyors, chartered environmentalists and members of IEEM.

Existing Data

1.5 A review of the data held on the National Biodiversity Network (NBN) gateway was undertaken to identify species of conservation concern that have been recorded on the proposed development atte.

1.6 Badger, otter, wildcat and bat records exist at the 10km towel for line vicinity of the site. Red squirrel is recorded within 1km square of the site.

1.7 Also recorded within 10km square of the site – goldeneye, twite, non harnor, black grouse, capercalitie, redshard, and lepwing, northern brown argue and pearl bordered fritiliary.

Doalgnated Sites

1.0 There are no designations applying to the site. Gien Till Wood SSSI, designated for its upland indiced ash woodbirth, is located upprox. 200m to the northwest.

- 14-

- Thinked Daves

12018

2.0 Survey

Method

2.1 An ecological survey was undertaken on the site on 19 August 2010

2.2 A Phase 1 Habitat Mapping & Protected Species Survey, also referred to as an extended Phase 1 Ecological Survey, was undertaken for the site. Standard Phase 1 methodology was used, including detailed target notes of notable plant species (those of conservation concern; also those listed on the Caimgorms LBAP list of priority species).

2.3 An assessment of the habitat suitability within the proposed development site for mammal species was also undertaken.

2.4 The standard optimal time to undertake an extended Phase 1 survey is between April and the end of September. The survey time of mid-August is therefore optimal.

2.5 The habitats are described by the use of target notes, annotated to the survey map (see Fig.2). Common species names and scientific names (Stace C (1997) New Flora of the British Isles, Second Ed, Cambridge University Press.) are given in the text below.

Results

Vegetation

2.6 The site comprises disturbed ground with tall stands ruderal vegetation (C3.1), such as creeping thistle (*Circlum ervense*) and prickly sow thietle (*Sonchus expar*), stinging net/le (*Urba disca*), rosebay willowherb (*Epilobium angustifalium*) and raspberry (*Rubus clasus*). Between the stands the ground flora consists of colonia og species including cleaver (*Galium aparine*), birch and spruce seedings (*Betula app. Picea stochensis*), datay (*Betula perine*) and ribwort plantain (*Plantago lancoulata*).

2.7 There is evidence of febrig, with occasional tree stumps. A single standing mature beech (Fague sylvistica) is located on the roadside.

2.8 A dry ditch and fence form the eastern boundary, with stock funcing to the south and west, and no boundary to the road-side on the north.

2.9 The dry ditch banks are vegetaled by common broom (Cyllisus scopenus), rewary (Sorbus ouccountie), wych eim (Ullinus yfebre) and Russian confrey (Symphylum = uplandiown)

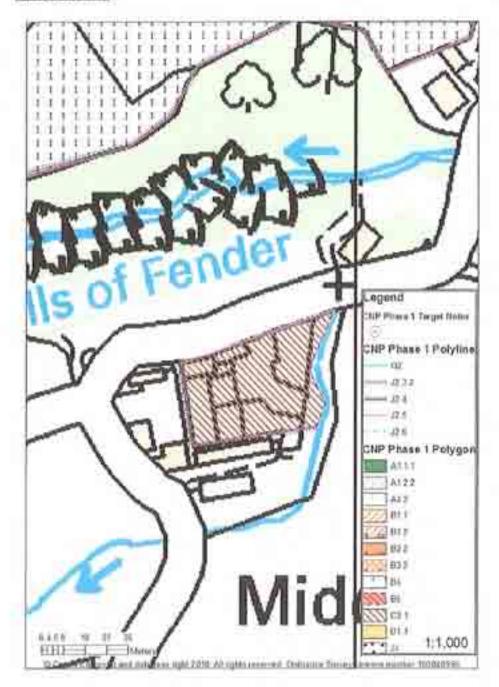
2.10 Evidence of maintained mown pathways dissected the site, with domestic chickens foraging amongst the vegetation.

Fauna

2.11 No species of conservation concern and/or listed on the Caimpornia LEAP hat of priority species were noted on site



Fig 1 Survey Map



Vitrasii 3 Maande Garvey 1790 - 1784 Landeren Hernell in Parport (1144

3.0 Assessment of Habitat Suitability for Mammals

3.1 The side offers no suitable breeding habitat for otter, water vola, ball or redsquirrel. No badger setts were observed. There may be foreging opportunity for badger and bats here.

4.0 References

JNCC. 1990. Handbook for Phase 7 Initiate survey - a technique for environmental audit. 2007 edition. Nature Conservancy Council

Stace, C.A. 1997. New Finra of the British Isles. 2^{to} Edition. Cambridge University Press.



APPENDIX 1 - SURVEY PHOTOGRAPHS



Site 19b viewed from roadside



Tall stands of vegetation on site 19b



Dry ditch on eastern edge of 19b

Prime) Diskest Linuxy have 101the 101the 101-

APPENDIX 3 - PHASE 1 CODES

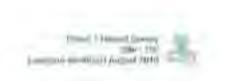
PHASE I CODE Description 61.1.1 Broadleaved woodland - somi-natural AT 12 Broadleaved woodland - plantation A1.2.4 Coniferous woodland - pena-natural A12.2 Coniferous woodland - plantation A1.3.1 Mixed woodland - semi-natural A1.3.7 Mixed woodiand - plantation Scrub - dense/ocntinuous A2.1 A2.2 Scrub - scattered 44.1 Broadbayed wood and - moently felina-142 Coniferaus woodland - recently failed A4.3 Mixed woodland - recently felted. Aoid grassland - unimproved B1 T 812 Acid grassland - semi-improved 82.2 Neutral grasshard - steril improved 83.2 Calcareous grassiand - semi-improved 134 improved grassland 85 Marsh/marshy grassland C3.1 Other tell heib and tern - ruderni D1.1 Dry dwart shrub hesth - acid 62 Ruoming water 1232 Hedge with trees - spacies poor 32.4 Fence 12.6 Widf 12.6 Dry ditch 14 fiam ground

Winner 1 Handall Downey 201-14 Lowman Head and Amount 2016

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: 19c Land at Old Bridge of Tilt - Potential Development Site

August 2010



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APPENDIX 1 – SURVEY PHOTOGRAPHS APPENDIX 2 – PHASE 1 CODES

Ormal () Dimini factores mine - 140

Summary

 As part of the process of considering the suitability of Site 19c, Land at Old Bridge of Till - Potential Development Site, for inclusion into the Local Development Plan, the Calingoms National Park Authority (CNPA) has commissioned Landcare NorthEast to undertake a desktop study and initial ecological survey.

 A dasktop study and subsequent ecological survey was conducted at Sile 19c on 19 August 2010.

3 The proposed development site is located at NN875560 and comprises approximately 4 that

o The main habitat is improved grassland, currently managed for slage.

6 No notable plant species (those of UK conservation concern - see UK list of Vascular Plants of Conservation Concern <u>http://www.ukbap.ord.uk</u> or those listed on the Camporns LBAP list of priority species) were noted.

8. The site may provide sat and badger foraging habitat

International Action

1.0 Introduction

Background

1.1 In order to make an assessment on ecological impacts of developments of siles that have been presented for inclusion in the Calingoms Local Development Plan. CNPA require device studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase I survey and habital autability assessment was conducted at Site 19c, Land at Old Bridge of Till - Potential Development Site Blair Atholi. Perthshire.

1.3 The site is located at NN875680 and comprises approximately 4.1ha.

1.4 The survey work was conducted by Steff Ferguson and Flora Grigor-Taylor, both experienced wildlife surveyors, chartered environmentalists and members of IEEM.

Existing Data

1.6 A review of the data held on the National Biodiversity Network (NBN) gateway was undertaken to identify species of conservation concern that have been recorded on the proposed development site.

 8 Northern brown argus and peerl bordered finitiary butterflies fleve been recorded. at 2km level, and red squarel at 1km level.

1.7 Badger, otter, wildcat and bat records exist at the 10km level for the vicinity of the site. Also recorded within 10km square of the site – goldeneye, twill, him harrier, bleck grouse, capercalitie, redshank and tapwing.

Designated Sites

t.ii There are no statutorily designated sites in the survey area or immediate anvirons. Across the road to the west lies woodland classified in the Ancient Woodland Inventory.

2

2.0 Survey

Method

2.1 An ecological survey was undertaken on the site on 19 August 2010.

2.2 A Phase 1 Habitat Mapping & Protected Species Survey, also referred to as an Extended Phase 1 Ecological Survey, was undertaken for the site. Standard Phase 1 methodology was used, including detailed target notes of notable plant species (those of conservation concern; also those listed on the Calingorma LBAP list of priority species).

2.3 An assessment of the habitat suitability within the proposed development sta for mammal species was also undertaken.

2.4 The standard optimal time to undertake an extended Phase 1 Survey is between April and the end of September. The survey time of mid-August is therefore optimal

2.5 The habitats are described by the use of target notes where appropriate, according to the survey map (see Fig.1). Common species names and scientific names. (Stace C (1997) New Flore of the British Islas, Second Ed Cambridge University Prime) are given in the text below.

Results

Vegetation

2.6 This site is on improved farmand, on level ground, bounded by a fence to the west where there is a minor road, and currently unfenced and part of a larger farmed field to the east.

2.7 The sward is one of improved grassland (Finase 1 code B4), which at the time of survey had just been out for sillage. It was therefore not possible to identify grass species. Forbs were generally abaent from the sward.

Fauna

2.8 No species of conservation concern and/or listed on the Gaungarma LBAP list of priority species were noted on site.

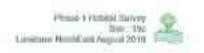
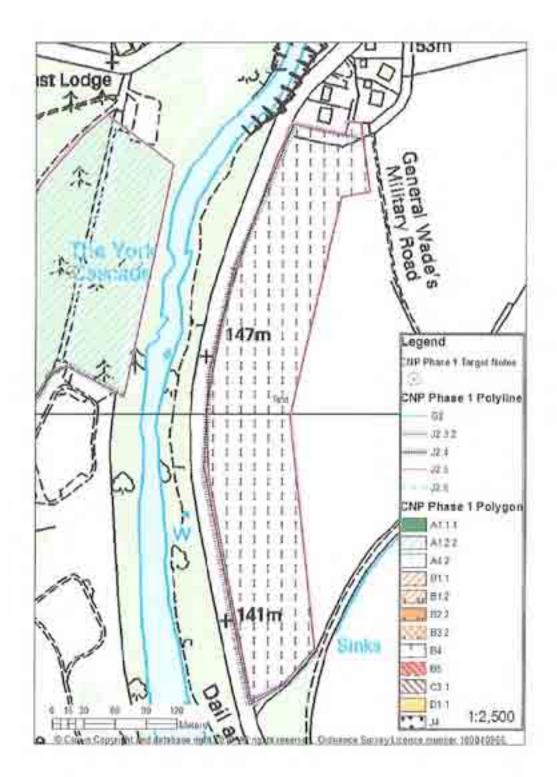


Fig 1: Sarvey Map





ŧt.

3.0 Assessment of Habitat Suitability for Mammals

3.1 The site isself offers no suitable breeding habitat for ofter, water volo, bat and red squirtel. No badger setts were observed. There may be limited for aging opportunity for badger and bats here.

4. References

JNCC. 1990. Handbook for Phase T habital survey – a technique for environmental audit. 2007 Edition. Nature Conservancy Council

Stace, C.A. 1997. New Flore of the British Isles, 2nd Edition. Cambridge University Press.



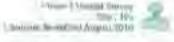
APPENDIX 1 - SURVEY PHOTOGRAPHS



Site 19c looking north towards Old Bridge of Tilt.



Site 19c looking northwest, Old Bridge of Tilt in the distance.



APPENDIX 2 - PHASE 1 CODES

PHASE 1 CODE

Description

1	A	
A111	Broadleaved woodland - semi-natural	
A1.12	Browlingwed woodland - plantation	
A1.2.1	Coniforous woodland - semi-natural	
A1.2.2	Conferour woodland - plantation	
A1.3.1	Mixed woodland - semi-natural	
A1.5.2	Mixed woodland - plantation	
A2.1	Sciub - denie/continuous	
A2.2	Schib - scattered	
.84.1	Broadwaved woodland - receatly felled	
A4.2	Conferous woodland - recently felind	
643	Mixed woodland - recently felled	
B1.5	Acid grassfand - unimproved	
日1.余	Acid grassland - semi-improven	
82.2	Noutral grassiand - sami-improved	
89.2	Calcareous graasland - aemi-improved	
B4	Improved grassland	
85	Marsh/marshy grasslend	
G3.1	Other tail herb and fern + n/detail	
011	Dry dwerf shrub heatli - acid	
02	Running water	
J23.Z	Hedge with trees - species poul	
12.4	Fence	
.12.6	Wall	
32.0	Dry ditch	
34	Bare ground	

Parami Atanana Sarang Sana Sada A sanang mang mang Paragi

Extended Phase 1 Habitat Survey Cairngorms Local Development Plan

Site: 19d Land at Old Bridge of Tilt - Potential Development Site 2

August 2010

Stell Fingeson & Flore Grigor Taylor CEnv MIEEM Landcare Novinitian Pitentaggen Migvie Tanend AB34 4XCI F 013396 81376

343

			Lamon Hand at American
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	Vegetation	3	
	Fauna	4	
3.0	Habitat Suitability for Mammals	5	
4.0	References	5	

APPENDIX 1 - TARGET NOTES

APPENDIX 2 - SURVEY PHOTOGRAPHS

APPENDIX 3 - PHASE 1 CODES

Access (1987)

Summary

 As part of the process of considering the suitability of Site 19d, Land at Old Bridge of Till - Potential Dovelopment Site 2 for inclusion into the Local Development Plan, the Cellingorma National Park Authority (CNPA) has commissioned Landcare NorthEast to unifertake a desistop study and initial ecological survey.

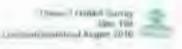
A desidop study and subsequent ecological survey was conducted at Site 19d.
Land at Old Bridge of Tilt - Potential Development Site 2 on 19 August 2010

The proposed development alle is located at NN878565 and comprises approximately 0.5ha

a The main habitats are semi-improved neutral grassland and semi-national broadleaved woodland.

5 No notable plant species (those of UK conservation concern - see UK list of Vascular Plants of Conservation Concern <u>http://www.ukbap.org.uk</u> - or those listed on the Camporns LBAP list of priority species) were noted.

6. The site may provide bat and badger foraging liabitat.



1.0 Introduction

Background

1.1 In order to make an assessment on ecological impacts of developments of sites that have been presented for inclusion in the Calingsims Local Development Plan, CNPA require desktop studies and ecological surveys of each site to be undertaken.

1.2 With regard to this, an extended Phase I survey and habitat suitability assessment was conducted at Site 19d, Land at Old Bridge of Till - Potential Development Site 2.

1.3 The sile is located at NN878865 and comprises approximately 0.5hs.

1.4 The survey work was conducted by Stell Ferguson and Flora Grigor Taylor, bell experienced wildlife surveyors, chartered environmentalists and members of IEEM.

Existing Data

1.5 A review of the data held on the National Biodiversity Network (NBN) gateway was undertaken to identify species of conservation concern that have been recorded on the proposed development site.

1.8 Badger, otter, wildcat and bat records exist at the 10km level for the vicinity of the nite. Red squirrel a recorded within 1km square of the site.

1.7 Also recorded within 10km equare of the site – goldeneye, twite, herr harner, block grouse, capercalling redstank and lapwing, northern bown argus and pearl bondered fittillary.

Designated Sites

1.8 Glen Till Woed SSSI, designated for its upland immediately west and north of site boundary. The River Tilt, situated approximately 100m from the western edge of the nite, is part of the River Tay SAC.

19 mil 1 Head I Lovery

2.0 Survey

Method

2.1 An employical survey was undertaken on the site on 19 August 2010

2.2 A Phase 1 Habital Mapping & Protected Species Survey, also referred to as an extended Phase 1 Ecological Survey, was undertaken for the site. Standard Phase 1 methodology was used, including detailed target notes of notable plant species (these of conservation concern; also these listed on the Cairingomes LBAP list of criterity species).

2.3 An essessment of the habitat suitability within the proposed development site for mammal species was also undertaken.

2.4 Tim standard optimal time to undertake an extended Phase 1 survey is between April and the end of September. The survey time of mid-August is therefore optimal.

3.5 The habitate are described by the taxs of target notes, annotated to the survey name (see Fig.1). Common species names and scientific names (Stace C (1997) New Flore of the Batish Tales. Second Ed. Cambridge University Press.) are given in the text below.

Results

Vegetation

2.6.The site comprises 2 distinct units, separated by the public road from Old Bridge of Tilt to Middlebridge

2.7 To the west of the road the role consists of som-improved nautral grassland, 82.2 (new Target Note 1), stopping from the road downhill. A track runs diagonally (roughly north-south) through the field. The grassland is dominated by false cal grass (Ameritatherium eliatius), cockstoot (Dactylis glomeralio), common hogweed (Herapieum sphondylium) and black knapweed (Centaurou nigra) with abundant red clover (Trifolium prateriae) and meadow vetching (Lathyrus praterias), is well as some lady's manthe (Alchemilia motio), germander speedwell (Veronica chamedrys) and clamps of field scablous (Knautra arvansis). Occasional patches of randomy (Rubus ideeta) and stinging notific (Urtico divica). The field is miclosed by a fence and portility and black (Fragus sylvatics) to the west and north: A small stand of aspen (Populus Immulii) (approx: 10 individual trees) is located in the most southerm corner of the grass field and directly across the road from here (Target Note 2).

2.8 To the east of the road line site comprises semi-natural broadleaved woodland, A1.1.1. Trees are mostly mature, with the canopy closed and sparse understorey. Main tree species are ash (Frakinus excelsion), beach, wych elm (Ulmus glabra), beach, beach, wych elm (Ulmus glabra), beach (Betula spp.), nycannow (Acer pseudoplatanus), rowan (Sorbus accumun) and bird cherry (Prunius padus). Ground flora comprises mainly dog's mercury (Mercurialis perennis), butterhur (Pelasites hybridus), with some wood avenu (Gaum utilianum) and bugle (Ajuga rentans). The woodland is triangular in colline, with 2 nices ferced and flor side facing the road open. Along the scuttern edge than in material securities.

Honey Linking Tawley The 106 Lookan Modulusi August 2010

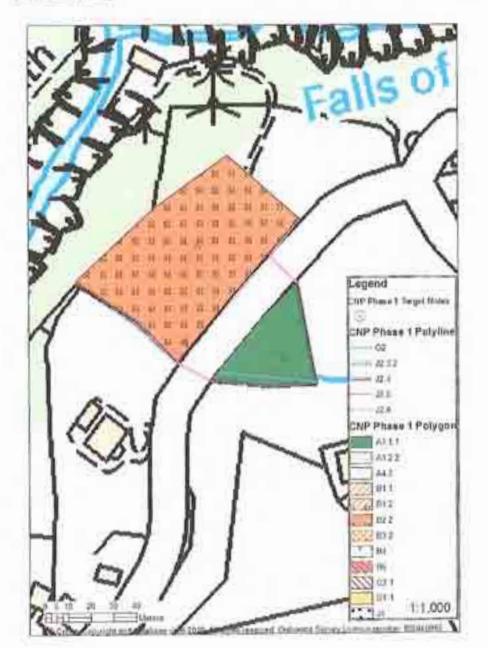


small burn, which flows past a ruined mill building (Target Note 3) located within the woodland.

Fauna

2.9 No species of conservation concern and/or listed on the Calingorms LBAP list of priority species were noted on site.

Fig 1 Survey Map



id imped 2070

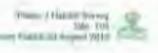
3.0 Assessment of Habitat Suitability for Mammals

3.1 The grassiand site itself offers no suitable breading habital for offer, water vole, that and red squirrel. No badger safts were observed. There may be foreging opportunity for badger and bads here.

2.1 The woodland may offer suitable roost sites for bets within the mature trees and potentially the mill rain as well as foraging habitat. No badger selfs were observed, however the woodland would provide foraging opportunities for this species. No offer signs were noted in or near the watercourse. No red inputries for this species. No offer signs were observed in the wood, and it offers very limited foraging opportunities for this species (occasional haze: Corylus available). The burn is unsuitable for water voten along the section, with nanks defined by a store wall on the mill side and boulders and stores on the other, they unsuitable for burtowing, almost continuous shading from overflanging cranches and no autoble grassy ripartan vegetation.

4.0 References

JNCC 1990 Handbook for Phase 1 habitul survey – a technique for unvironmental autil. 2007 edition Nature Conservancy Council State, C.A. 1997. New Flora of the British Islas. 2rd Edition Cambridge University Press.



APPENDIX 1 - TARGET NOTES

T1 - NN 87789 66589

Species list semi-improved neutral grassland

Black knapweed Broad-leaved dock Cecksfool Common hogweed Common ragworf Common sorrel Cow paraley Creeping buttercup Croeping thistle Dandelion False out grass Field scabious Germander speedwell. Greater stichwart Lody's mantle Leseer burdock Meadow vetabling Red clover Stinging nettlek Tufted vetch

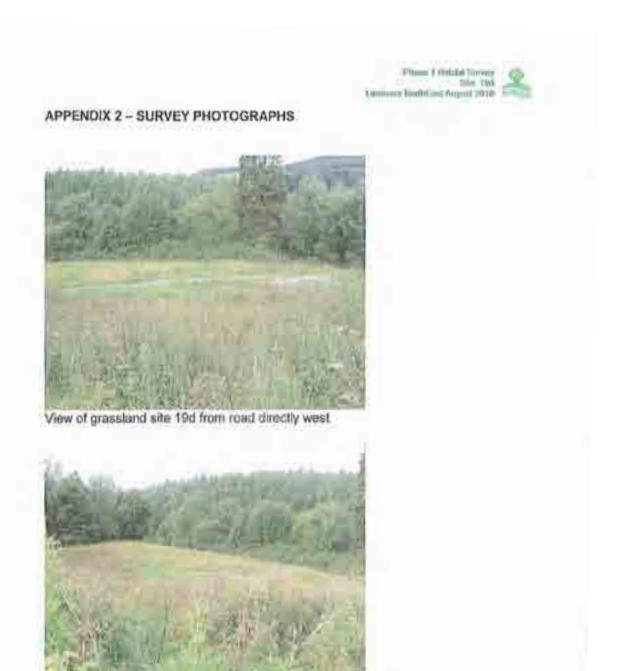
Contaurea Impa Rumes obtasifolius Daidylis glomerata Heracisum sphondyllum Senecio Jacohinne Rumax acetosa Anthrincus mywestin-Ranunciaturi repensi Cirsism arvenza. Taraxacum officinale Arrhenitherum datus Knaulia arvensis Veronica chamaedrys Stellaria hokostee Alchettilla moltis Arctium minus Lothynus pratensis Trifolium pratenze Urticu dicica Vincla cracca

T2 - NN 87785 66549

Aspen (Populus Immula) stand of about 10 individuals, on both sides of read.

T3 - NN 87828 66541

Runed mill cuilding



View of grassland site 19d from road southwest - note track through centre of site.

Main Issues Report - Background Evidence 5. Site Analysis

Phone 1.004464.00 Linitiano HoutsEast Aques 2010





Ruined mill set within woodland (Target Note 3)



Woodland 19d - mature trees, lack of understorey



Burn along woodland 19d edge to south

I man T Hankil Degreep Line: Midant Profile and Project (2010)

APPENDIX 3 - PHASE 1 CODES

Description PHASE 1 CODE Roadiswed woodland - mini-catalal A1.1.1 A1.12 Broadleaved woodlami- plantation A1.2.1 Coniferous wood-and - serni-patural A122 Coniferous wood and - plantation A1.3.1 Mixed wootland - sami-maharal Mixed woodland - plantation A1.3.2 Scrub - dense/continuous A2.1 A2.2 Scrub - scattered Broadlanved Woodland - recently felse A4.1 Coniferaus woodland - recently felled A4.2 Mixed woodland - recently felled A4.3 Acid greasland - immonoved 日1.1 Acid grassland - anthi-improved 81.2 Neutral grassland - sami-improved 62.2 Calcareous grassland - semi-improved 63.2 Improved gradeland B4 85 Marshimanutly grassland. C3.1 Other tall horb and ferm - rudersi 011 Dry dwarf shrula feadta - azid Running water G2 12,3.2 Hadge will trace - species-pont 12.4 Fector 12.6 Wall Diry dilchi 32.6 H time Building

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Extended Phase 1 Habitat Surveys for Proposed Local Development Plan Sites in the Cairngorms National Park for the Cairngorms National Park Authority by Northern Ecological Services

Author	William Latimer MSc PhD CEnv. FIEEM	October 2010
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Introduction and Methodology

Background

Northern Ecological Services (NES) has undertaken a number of Phase 1 habitat surveys of potential development sites (see Table 1 below) for the Cairngorms National Park Authority (CNPA). The Authority is in the process of preparing a Local Development Plan and the results of the ecological surveys will assist in the process of allocation of appropriate areas for development within the Park.

The sites allocated to NES for survey are grouped in two main localities, in the area from around Aviemore to Dalwhinnie along the north-western edge of the Cairngorm mountains, and in the upper Dee catchment in the eastern area of the Park, around the town of Ballater. Surveyors for these two areas were Philip James and Graeme Guy for the Aviemore-Dalwhinnie area and William Latimer for the Ballater area and the surveys were undertaken during the period from late August to the first week of October.

Survey Methods

All sites were subjected to an "extended phase 1 habitat survey" according to the methodology of the Joint Nature Conservation Committee (2003) where habitats have been described and mapped and features of particular ecological interest indicated by target notes.

Habitats of notable ecological value have been identified and evaluated based on the experience of the surveyors and guided by the community analysis of the National Vegetation Classification (Rodwell 1991 et seq) and the nationally adopted guidelines for habitat evaluation at particular geographic spatial scales (IEEM 2006). These guidelines propose the following scale of importance or value:

- International importance
- UK importance
- National importance (England / Northern Ireland / Scotland / Wales)
- Regional importance
- County (or Metropolitan)
- District (or Unitary Authority, City or Borough)
- Local or Parish
- Site level only (limited to the site boundary)

The scale is intended to provide a gradation of areas but exceptions in terminology can arise, e.g. the Highlands are both a unitary authority (normally District level) but with the geographical extent of a Region. The evaluation of the surveyed sites also takes account of the identified presence of species and habitats being the subject of Biodiversity Action Plans (BAP) or the Scottish Biodiversity List (SBL). BAP habitats

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and species include those from the UK BAP and the North-east Scotland and Cairngorms local BAPs (NELBAP & CLBAP).

Any evidence for the presence of protected species upon the sites, such as badger, red squirrel or bats has been noted and the suitability of any habitats to host such species has been assessed.

Additional data has been obtained from the National Biodiversity Network Gateway to inform upon the likelihood, where habitats upon or adjacent to the site appear suitable, of a particular species being present upon the site. Records have been interrogated for national UK BAP species and species on the Scottish Biodiversity List and a judgement made as to whether the species in question might derive significant resources from the site (i.e. breeding sites, foraging areas). Where there was some uncertainty as to the current validity of species indicated as present in the 10 km square, a time filter was applied to check for positive records from 2000.

Notable plant species (as recorded on the Scottish Biodiversity List) on the NBN gateway have also been checked but these are generally recorded for the entire 10 km square and hence there is a lack of precision as to the precise location for the record. The list of NBN species is given for each site but likely presence on the site needs to be judged in the light of the habitats present.

Plant species are named in the following site accounts according to Stace (1999). Scientific names and common names of plant species referred to in the text are given in Appendix 1.

Limitations

With the final commissioning of the survey work in mid August, surveys were mainly undertaken in the period from late August to early October. Thus some species and species groups are likely to have been under-represented by the survey work, e.g. early flowering plants, birds.

While the majority of the sites were relatively limited in area and all parts of these sites were readily accessible, it has not been possible to fully quarter the largest sites within reasonable timescales for the work and hence some species may have been missed. However, it is considered that sufficient information has been gained to classify and evaluate the habitats present upon each site.

For some areas of the Park, the satellite imagery available on the web is of insufficient quality to assist in accurately mapping habitat boundaries. For some of the more extensive sites where landforms on the ground, or details on the OS map base, provide insufficient cues for differentiating habitat types, mapping of some

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habitat boundaries e.g. the distribution of wet heath and dry heath, has been estimated by eye and may therefore lack accuracy.

Records for some protected species on the NBN Gateway site, e.g. badger, appear to be filtered in time to reduce the likelihood of disturbance to specific sites or resting places. Records for some species indicating presence in the 10km square appear to be derived from older data and in these cases, the time filter was applied to check for more recent records from 2000 and a judgement made as to whether to list the species as present or not based on habitat criteria of the site and known population trends. As noted above, plant records are for the whole 10 km square in which the site is located and further precision as to the location of the record is not available.

Report Structure

This report contains the site accounts for all the areas requested for survey. Each account for the numbered site comprises brief notes of the habitats and species noted during the survey, the NBN records for the site, a site evaluation and a Phase 1 habitat map. Maps are provided as jpeg files and as ESRI shape-files. Sites are named according to location, with the site number indicated on the map, generally in the bottom left-hand corner of the map, or adjacent to the appropriate site where more than one site is shown on the map (e.g. sites 58b, c & e, Rothiemurchus Estate, sites 38a, b & c, Dunachton Estate). Phase 1 habitat codes are shown on the Legend.

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Site Accounts

Site accounts and Phase 1 habitat maps are provided for the sites indicated in the Table below.

Table 1. Sites Surveyed. Survey Period 24/08/2012 – 05/10/2010

Site Number: Site Name and Section		
001	Ruthven Estate (A)	
004	Invercauld Estate – Culsh (B)	
007	Dinnet – Ordie (B)	
008	Craigmyle Estate, Auvhnerran Woods (B)	
010	Kinakyle Aviemore (A)	
011	Lynchat (A)	
020	Ruthven Farm Kingussie (A)	
024	Dinnet Estate – Dinnet (B)	
026	Monaltrie – Ballater (B)	
027	Ardverikie – Dalwhinnie (A)	
036	Kinrara Estate - Loch Alvie (A)	
012g	Reidhaven – Aviemore (A)	
016a	Cluny – Balgowan (A)	
016b	Cluny – Uvie (A)	
035a	Invercauld – Crathie (B)	
035b	Invercauld – Keiloch (B)	
035c	Invercauld – Gairn (B)	
038a	Dunachton Estate – Kincraig (A)	
038b	Dunachton Estate – Kincraig (A)	
058b	Rothiemurchus Estate – Coylumbridge (A)	
058c	Rothiemurchus Estate - Borrow Pit (A)	
058e	Rothiemurchus Estate - B970 Junction (A).	

Sites are considered below not in number order by the two main localities of the National Park in which they are grouped i.e. in the Aviemore-Dalwhinnie area (Section A) and the Ballater area (Section B).

A. Aviemore - Dalwhinnie Locality

001 – Land at Ruthven Estate

A site with over half the area down to species-poor improved and semi improved neutral and neutral-acidic grassland. A small area of sedge fen and birch dominated woodlands with veteran trees in the centre of the site are of note (see Target Notes below) while in the south-west of the site, small areas of heath and acidgrassland/heathland mosaics are present.

1. Mature woodland with open canopy of veteran *Betula pubescens* with occasional regeneration and some *Salix aurita*. Species-rich field layer with some *Centaurea nigra, Filipendula ulmaria, Angelica sylvestris, Achillea ptarmica, Succisa pratensis, Juncus acutiflorus, Deschampsia cespitosa* and abundant small sedges. Canopy cover approx 40%.

2. Species-rich rush and sedge-dominated fen with species similar to above.

3. Poor semi-improved grassland with patches of Urtica dioica and Cirsium arvense.

4. Abandoned orchard.

5. Grassy woodland dominated by mature and veteran *Betula pubescens* and *B. pendula*, with rare *Salix cinerea*. Canopy cover approx. 70%.

6. Grassy woodland dominated by mature and veteran *Betula pubescens* and *B. pendula*. Canopy cover approx 40%. Patchy, locally abundant regeneration.

7. Grassy woodland dominated by mature *Betula pubescens* and *B. pendula*. Canopy cover approx 50%. Patchy regeneration.

8. Grassy woodland dominated by mature *Betula pubescens* and *B. pendula*. Canopy cover approx 60%.

Biodiversity Action Plan/Scottish Biodiversity List habitats & species present:

• Upland birch (UK BAP)

<u>Relevant NBN Gateway Records</u>: common frog, adder, common lizard, barn owl, bullfinch, kestrel, linnet, siskin, spotted flycatcher, house sparrow, red kite, robin, woodcock, skylark, song thrush, bat species, brown hare, badger, roe deer.

Notable plants recorded from the 10 km square: Annual Knawel (Scleranthus annuus) Bluebell (Hyacinthoides non-scripta) Charlock (Sinapis arvensis) Corn Mint (Mentha arvensis) Dwarf Elder (Sambucus ebulus) Good-King-Henry (Chenopodium bonus-henricus) Greater Butterfly-orchid (Platanthera chlorantha) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media)

Lesser Butterfly-orchid (Platanthera bifolia) Rampion Bellflower (Campanula rapunculus) Shepherd's Cress (Teesdalia nudicaulis) Sun Spurge (Euphorbia helioscopia) Wild Pansy (Viola tricolor)

Site Evaluation:

Centrally placed association of birch woodland with veteran trees with its species-rich damp field layer and the adjacent sedge/rush fen, as indicated by Target Notes 1, 2 & 5 would be considered of value at the **Local** scale.

Other habitats of low ecological value or significant at the **Site** level (e.g. the small areas of heath)

010 – Land at Kinakyle

This site is characterized by 4 main habitats, wet alder woodland, enclosed improved grassland, poor semi-improved neutral grassland and marshy grassland. Bracken and a patch of creeping thistle make minor contributions whilst the slope forming a step up from the woodland to the enclosed fields has semi-improved acid grassland with scattered bracken and recently burnt scattered broom bushes. It has been colonized by rabbits.

The site is currently being developed and there are groundworks on the enclosed fields (Target Note on Phase 1 map).

Biodiversity Action Plan/Scottish Biodiversity List habitats & species present:

• Wet Woodland (UK BAP)

<u>Relevant NBN Gateway Records</u>: common frog, adder, common lizard, barn owl, bullfinch, kestrel, linnet, siskin, spotted flycatcher, house sparrow, tree pipit, robin, woodcock, skylark, song thrush, bat species, brown hare, otter, badger, roe deer.

Notable plants recorded from the 10 km square: Black-bindweed (Fallopia convolvulus) Charlock (Sinapis arvensis) Corn Mint (Mentha arvensis) Field Pepperwort (Lepidium campestre) Greater Butterfly-orchid (Platanthera chlorantha) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media) Shepherd's Cress (Teesdalia nudicaulis)

Sun Spurge (Euphorbia helioscopia) Wild Pansy (Viola tricolor)

<u>Site Evaluation</u>: The wet alder woodland should probably be regarded as of **Local** value.

011 - Land to east and south of Lynchat

Two small sites in the village comprising improved grassland of negligible ecological interest with, for the southerly site, a line of lime trees along the road and a small stand of larch by the railway line.

<u>Relevant NBN Gateway Records</u>: Site unlikely to host significant populations of species marked as present in the grid square

Site Evaluation: Negligible ecological interest.

012g – Reidhaven, Aviemore

This site on the edge of Dalfaber village has is a mix of three main habitats, birch woodland, acid grassland and semi-improved grassland.

The woodland has a semi-improved acid grassy field layer and these form clearings in the more open canopy to the north. Elsewhere the woodland has a closed canopy except at 90506 13733 where acid dry heath is locally dominant in patches but containing frequent birch regeneration. Within the woodland at 90604 13704 are 3 adjacent hollows. One is filled with soft rush, another is dominated by nettle following dumping of nitrogen rich waste and the middle is swamp covered with a floating mat of mixed vegetation including frequent *Carex nigra, Menyanthes trifoliata* and *Sphagnum fallax*.

The semi-improved grassland around the disused pit at 90640 13450 is a blurred mosaic of grassland and patches of creeping thistle and broom. It also grades locally to marshy grassland and two stands of birch woodland.

The acid grassland is quite forb-rich in places but heather appears to be regenerating and spreading, possibly following grazing cessation.

Biodiversity Action Plan/Scottish Biodiversity List habitats & species present:

• Upland birch (UK BAP)

<u>Relevant NBN Gateway Records</u>: common frog, adder, common lizard, barn owl, bullfinch, kestrel, linnet, siskin, spotted flycatcher, house sparrow, tree pipit, robin, woodcock, skylark, song thrush, bat species, brown hare, badger, otter, roe deer.

Notable plants recorded from the 10 km square: Annual Knawel (Scleranthus annuus) Black-bindweed (Fallopia convolvulus) Bluebell (Hyacinthoides non-scripta) Charlock (Sinapis arvensis) Corn Mint (Mentha arvensis) Cornflower (Centaurea cyanus) Field Woundwort (Stachys arvensis) Good-King-Henry (Chenopodium bonus-henricus) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media) Lesser Butterfly-orchid (Platanthera bifolia) Scarlet Pimpernel (Anagallis arvensis) Sun Spurge (Euphorbia helioscopia) Twinflower (Linnaea borealis) Wild Pansy (Viola tricolor)

<u>Site Evaluation:</u> In its context on the village edge, the site should probably be considered as of **Local** value.

016 - Cluny Estate

Cluny: Balgowan

A site dominated by fields of improved grassland. Features of local interest are target noted below.

1. Line of mature mixed broadleaved trees along south side of road: *Ulmus glabra, Fraxinus excelsior, Acer pseudoplatanus, Quercus spp. & Fagus sylvatica.*

2. Planted woodland dominated by mature *Pinus sylvestris* with occasional *Fagus sylvatica* and *Pseudotsuga menziesii*.

3. Planted woodland dominated by mature *Quercus* spp. and *Fagus sylvatica* with occasional *Pseudotsuga menziesii*, *Ulmus glabra, Picea* spp. and *Tilia* spp.

4. Small stand of *Pinus sylvestris* with rare *Larix decidua* and *Picea* spp.

5. Planted woodland dominated by mature *Fagus sylvatica* with rare *Larix decidua*; *Rhododendron ponticum* covers much of the ground. There is a line of *Tilia* spp., *Acer pseudoplatanus* & *Aesculus hippocastanum* along the road side.

6. Planted woodland with a mix of *Corylus avellana*, *Aesculus hippocastanum*, *Tilia* spp., *Quercus* spp., *Picea* spp. & *Acer pseudoplatanus* with *Larix* & *Acer* regeneration.

Cluny: Uvie.

A small site of mainly improved grassland to the south of the road, with acid grassland to the north and small stands of birch woodland.

1. Woodland dominated by Betula pubescens with rare Populus tremula.

2. Woodland dominated by Betula pubescens with occasional Sorbus aucuparia and Populus tremula; some B. pubescens is veteran.

3. Disused quarry with Betula pubescens and Alnus incana.

Biodiversity Action Plan/Scottish Biodiversity List habitats & species present:

- Planted conifer (CLBAP)
- Wych elm (NELBAP)

<u>Relevant NBN Gateway Records</u>: common frog, adder, common lizard, barn owl, bullfinch, kestrel, linnet, house sparrow, siskin, song thrush, red kite, robin, skylark, bat species, brown hare, badger, otter, red squirrel, roe deer.

Notable plants recorded from the 10 km square: Greater Butterfly-orchid (Platanthera chlorantha) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media)

Site Evaluation: Habitats considered of significant value at the Site level only.

020 - Ruthven

Two extensive fields of improved grassland with small stands of mixed woodland plantation in the west and north-east corners of the site and a shelter belt of tall birch along the north-east boundary of the site with planted rowan, alder, Scot's pine and oak. The site lies directly adjacent to Site No. 001 (Land at Ruthven Estate, see above for NBN data).

<u>Site Evaluation:</u> Habitats considered of significance at the **Site** level only.

027 – Dalwhinnie

A site situated between the A889 and the railway on the southern edge of Dalwhinnie comprising an extensive area of species poor improved grassland and a relict but much impoverished area of wet grassland (see Target Note 3 below) with some remaining areas of open water on the river floodplain.

1. War memorial with amenity grassland and occasional *Pinus sylvestris, Sorbus aucuparia* and *Betula* spp.

2. Playground

3. An active drain runs south to north through this polygon. The vegetation is a heavily degraded valley mire dominated by mosaics of *Juncus* spp. and *Deschampsia cespitosa*. This habitat is now separated from the corridor of the river Truim by the A889 and drained and improved pastures (Target Note 6 below).

4. Six mature Pinus sylvestris.

5. One large mature Cupressus spp.; field layer dominated by weedy ruderals: *Aegopodium podagraria, Urtica dioica* and *Cirsium arvense*.

6. Poor semi-improved grassland grazed by horses; locally frequent *Senecio jacobaea*.

Biodiversity Action Plan/Scottish Biodiversity List habitats & species present:

• Scots pine, roe deer (SBL).

<u>Relevant NBN Gateway Records</u>: common frog, common toad, adder, barn owl, kestrel, linnet, house sparrow, robin, reed bunting, skylark, song thrush, yellowhammer, bat species, brown hare, badger, roe deer.

Notable plants recorded from the 10 km square: Charlock (Sinapis arvensis) Downy Willow (Salix lapponum) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media)

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Mountain Bog-sedge (Carex rariflora) Shepherd's Cress (Teesdalia nudicaulis).

The majority of the above species are unlikely to be present on the site.

<u>Site Evaluation</u>: Habitats of significance at the **Site** level only though degraded valley mire has potential for restoration.

036- Loch Alvie

Mosaic of habitats on the eastern shore of Loch Alvie comprising some arable fields, but most mainly under improved and semi-improved grassland, some extensive blocks of birch-dominated woodland, some with a significant component of veteran birch and aspen and an area in the centre of the site with species-rich grasslands associated (see Target Note 11 below), small stands of coniferous, bracken, open water and inundatation vegetation of common reed (*Phragmites australis*) in a bay along the southern shore of the Loch. Mature woods of sessile oak are present in the north of the site with small areas of wet alder woodland by the shores of the loch, better developed along the north shore.

See Phase 1 habitat map for the following target-noted areas:

1. Artificial pond for duck shooting; marginal vegetation dominated by *Juncus effusus*.

2. Mature *Betula pubescens* with one mature *Populus tremula*. Approx 50% canopy. Some rabbit burrows.

3. Veteran Betula pubescens, dbh 80cm.

4. Woodland dominated by *Betula pubescens* and *B. pendula* (the oldest are the latter) with frequent *Populus tremula*, with trees of all age classes except regeneration. Field layer enriched by cattle dunging and agricultural weeds.

5. One mature Salix caprea – the only one found in this survey.

6. Narrow fenced stand along roadside dominated by *Betula* spp. with rare *Sorbus aucuparia* and *Larix* spp., with a little *Betula* regeneration and patchy *S. aucuparia* regeneration.

7. Woodland dominated by *Betula pubescens* with frequent *Salix aurita*, rare *Prunus avium*, *Sorbus aucuparia* and *Rosa canina*.

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8. Woodland dominated by large mature *Larix decidua* with frequent mature *Betula* spp., occasional *Sorbus aucuparia* and a few small *Alnus glutinosa* along the water's edge.

9. A few very large non-native conifers, dbh approx 1m.

10. Four large Pinus sylvestris.

11. Species-rich grassy field layer under approx 50% canopy, includes *Gentianella campestris, Succisa pratensis, Achillea millefolium, Veronica chamaedrys, Plantago lanceolata, Genista anglica* and unidentified orchids.

12. Stand of mature *Pinus sylvestris* between house and road.

13. Mature *Quercus petraea* and *Betula* spp. with almost 100% *Pteridium aquilinum* beneath.

Biodiversity Action Plan/Scottish Biodiversity List habitats & species present:

- Upland birch (UK BAP)
- Upland oak woods (CLBAP)
- Wet woodland (UK BAP)
- Reedbeds (UK BAP)
- Unimproved neutral grasslands (CLBAP)
- Scots pine, roe deer (SBL).

<u>Relevant NBN Gateway Records</u>: common frog, adder, common lizard, barn owl, black throated diver, bullfinch, kestrel, linnet, siskin, spotted flycatcher, house sparrow, tree pipit, robin, woodcock, skylark, song thrush, bat species, brown hare, otter, badger, roe deer.

Notable plants recorded from the 10 km square: Annual Knawel (Scleranthus annuus) Black-bindweed (Fallopia convolvulus) Charlock (Sinapis arvensis) Corn Mint (Mentha arvensis) Good-King-Henry (Chenopodium bonus-henricus) Field Pepperwort (Lepidium campestre) Greater Butterfly-orchid (Platanthera chlorantha) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media) Large-flowered Hemp-nettle (Galeopsis speciosa) Scandinavian Small-reed (Calamagrostis purpurea)

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Shepherd's Cress (Teesdalia nudicaulis) Sun Spurge (Euphorbia helioscopia) Twinflower (Linnaea borealis) Wild Pansy (Viola tricolor)

<u>Site Evaluation:</u> Considered of **significant Local** value for the range of, and quality of habitats present including elements probably of higher value:

- Sessile oak woods (Local importance)
- Small areas of wet, alder woodland (Local importance)
- mature birch wood and mixed woodlands with good quality acid-neutral grasslands associated (Local to District importance)
- Reedbeds (Local to District importance).

038- Dunachton Estate, Kincraig

A site on the northern edge of Kincraig dominated by species-poor grassland, some with ruderal vegetation, and small areas of sparse birch woodland, one area (Target Note 1) with a more herb-rich field layer.

1. Small fenced (ungrazed) stand of Betula spp. with three mature Alnus glutinosa at east end. Field layer with *Galium verum, Succisa pratensis & Achillea ptarmica*, with *A. glutinosa* regeneration by burn.

- 2. Small stand of eight Betula spp. and one Larix spp.
- 3. Scattered Betula pendula, approx 10% canopy.
- 4. War memorial.
- 5. Playing field.

<u>Biodiversity Action Plan/Scottish Biodiversity List habitats & species present</u>: Unimproved grasslands and wet/riparian woodlands (CLBAP)

Relevant NBN Gateway Records: common frog, adder, common lizard, barn owl, bullfinch, brambling, kestrel, linnet, siskin, house sparrow, tree pipit, robin, skylark, song thrush, bat species, brown hare, badger, otter, roe deer. Notable plants recorded from the 10 km square: Annual Knawel (Scleranthus annuus) Black-bindweed (Fallopia convolvulus) Charlock (Sinapis arvensis) Corn Mint (Mentha arvensis) Good-King-Henry (Chenopodium bonus-henricus) Greater Butterfly-orchid (Platanthera chlorantha)

Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media) Large-flowered Hemp-nettle (Galeopsis speciosa) Scandinavian Small-reed (Calamagrostis purpurea) Shepherd's Cress (Teesdalia nudicaulis) Sun Spurge (Euphorbia helioscopia) Twinflower (Linnaea borealis) Wild Pansy (Viola tricolor)

<u>Site Evaluation:</u> Grasslands and woodlands of **Local** value in the context of a village-edge site.

058b – Rothiemurchus Estate, Coylumbridge

Small plot of regenerating pinewood. Occasional mature Scots pine and Birch trees with clearly defined second tier of dense young pine (and birch) in places. Frequent Juniper bushes throughout. Mixed dwarf-shrub field layer with *Calluna vulgaris* dominant but with increasing shade *Vaccinium myrtillus* and *V. vitis-idea* will become more extensive overtime. Stock fence along southern boundary

Biodiversity Action Plan/Scottish Biodiversity List habitats & species present:

- Juniper (UK BAP)
- Upland birch and Native pinewoods (UK BAP)
- Scots pine, roe deer (SBL).

<u>Relevant NBN Gateway Records</u>: adder, common lizard, kestrel, linnet, siskin, song thrush, robin, Scottish crossbill, tree pipit, bat species, badger, roe deer.

Notable plants recorded from the 10 km square: Annual Knawel (Scleranthus annuus) Black-bindweed (Fallopia convolvulus) Bluebell (Hyacinthoides non-scripta) Charlock (Sinapis arvensis) Corn Mint (Mentha arvensis) Cornflower (Centaurea cyanus) Field Woundwort (Stachys arvensis) Good-King-Henry (Chenopodium bonus-henricus) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media)

Lesser Butterfly-orchid (Platanthera bifolia) Scarlet Pimpernel (Anagallis arvensis) Sun Spurge (Euphorbia helioscopia) Twinflower (Linnaea borealis) Wild Pansy (Viola tricolor)

<u>Site Evaluation:</u> **Local** value for birch/juniper/dry heath formations but probably part of a larger site continuum.

058c - Rothiemurchus Estate, Borrow Pit, Inverdruie

Dense, immature pinewood on borrow-pit surround with a mixed dwarf-shrub field layer (*Vaccinium myrtillus, V. vitis idea* & *Calluna vulgaris*) and a rich and extensive moss carpet.

Borrow pit has patchy pioneer pine and birch colonization and a mosaic of tall ruderal, dense broom scrub and acid grassland habitats on the SW floor and sides. Creeping thistle and nettle are co-dominant on the waste ground. Patches of thinly vegetated acid grassland include clumps of heather and if left undisturbed rapid succession to heath then woodland is anticipated.

Raspberry bushes are patchily abundant along the SW access road margin, whilst dense pine regeneration either side of the road inhibits vegetation on the ground.

Biodiversity Action Plan/Scottish Biodiversity List habitats & species present:

- Upland birch and Native pinewoods (UK BAP)
- Scots pine, roe deer (SBL).

<u>Relevant NBN Gateway Records</u>: adder, common lizard, kestrel, linnet, siskin, spotted flycatcher, song thrush, tree pipit, robin, bat species, badger, roe deer.

Notable plant list as for 058b – Rothiemurchus Estate, Coylumbridge, above.

<u>Site Evaluation:</u> Considered of significance at the **Site** level only.

058c - Rothiemurchus Estate, B970 Junction

Business access road and car park in mature plantation pinewood surround. Near neutral grassy field layer beneath the canopy (semi –improved acid locally around trunk bases) with clear zonation to small patch of semi-improved neutral grassland. On the north side of the car park there is a patch of dense broom scrub and a new footpath links the car park with the B970.

Biodiversity Action Plan/Scottish Biodiversity List habitats & species present:

• Scots pine, roe deer (SBL).

<u>Relevant NBN Gateway Records</u>: adder, common lizard, kestrel, linnet, house sparrow, siskin, spotted flycatcher, tree pipit, robin, song thrush, spotted flycatcher, bat species, badger, roe deer.

Notable plant list as for Site 058b – Rothiemurchus Estate, Coylumbridge, above.

Site Evaluation: Low ecological value of significance at the Site level only.

B. Ballater Locality

004 – Culsh Farm, Ballater.

An extensive site of overall ecological interest for its range of habitat types including some habitats of high ecological value.

<u>Woodlands:</u> Open deciduous woodland of mature birch in the north of site on an east-facing slope west of Culsh Farm (Target Note 2, see Phase 1 habitat map). Acid Agrostis/Festuca grassland and bracken understory with Danthonia decumbens, Anthoxanthum odoratum, Deschampsia flexuosa, Succisa pratensis, Oxalis acetosa, Vaccinium myrtillus, Galium saxatile, Veronica chamaedrys, Potentilla erecta and Viola spp. Scattered mature juniper.

Mature mixed woodland in the south of the site, birch and large spreading Scots pine with abundant juniper on the western edge (Target Note 5) and locally within the wood. Understory of bracken with patches of acid grassland. Patches of pine regeneration to the north of the wood.

An oak wood is present with mature *Quercus robur, Betula pendula* & *B. pubescens* mainly outside the boundary to the south of Culsh Farm (Target Note 6) but with a section lying within the site. Though now fenced off from the adjacent pasture, the wood appears to have been undergrazed in the past with a grassy understory and patches of nettle.

<u>*Grasslands:*</u> On lower slope west of Culsh farmhouse, acid-neutral *Agrostis/Festuca* grasslands (Target Note 7), possibly slightly semi-improved, but relatively species-rich including species as for adjacent birch woodlands described above (Target Note 2) plus *Achillea millefolium, Plantego lanceolata, Galium verum, Campanula*

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rotundifolia and *Rumex acetosa.* Remaining grasslands south of Culsh farm semiimproved and not so diverse.

<u>Dry heath:</u> Calluna with Vaccinium vitis-idea and Erica cinerea on high ground in the south-west of the site (Target Note 4) with a small (around 0.5 ha?) mire (Target Note 3) and some bracken stands in the south-west of this compartment.

<u>Mire/Flush:</u> Eriophorum angustifolium/Erica tetralix flush (Target Note 3) with Sphagnum spp., Narthecium ossifragum, and small patches of Molinia cearulea with Juncus effusus and Achillea ptarmica. Flushed area drains onto, and down a track leading eastwards off the hillside towards Culsh Farm.

<u>Boundary features:</u>Includes stone walls along the southern boundary of the site and a tree-lined track (Target Note 1) from the main road to the farmhouse (birch, wild cherry, hazel, wych elm, sycamore and blackthorn. Similar tree species are present in the wood on the slope to the west of the track.

Biodiversity Action Plan/Scottish Biodiversity List habitats & species present:

- Juniper (UK BAP)
- Upland heath and Upland flushes (UK BAP)
- Upland birch and Native pinewoods (UK BAP)
- Upland oak woods (CLBAP)
- Unimproved neutral grasslands (CLBAP)
- Wych elm (NELBAP)
- Scots pine, harebell, roe deer (SBL).

<u>Relevant NBN Gateway Records</u>: The habitats present and the extent of the site are such that it is likely that a number of animal species of ecological interest or conservation concern may be present e.g. the following species are listed on the NBN gateway for this site:

pearl-bordered fritillary, small pearl-bordered fritillary, northern brown argus and small-heath butterflies, adder, common lizard, slow-worm, black grouse, hen harrier, house sparrow, merlin, Scottish crossbill, siskin, spotted flycatcher, song thrush, tree pipit, robin, bat species including Natterer's bat, red squirrel, mountain hare and wildcat. Pine marten is also recorded and its presence on the site might be expected.

Notable plants recorded from the 10 km square are:

Annual Knawel (Scleranthus annuus)

Black-bindweed (Fallopia convolvulus)

Charlock (Sinapis arvensis)

Corn Mint (Mentha arvensis)

Field Pepperwort (Lepidium campestre)

Good-King-Henry (Chenopodium bonus-henricus) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media) Large-flowered Hemp-nettle (Galeopsis speciosa) Mossy Saxifrage (Saxifraga hypnoides) Small Cow-wheat (Melampyrum sylvaticum) Twinflower (Linnaea borealis) Wild Pansy (Viola tricolor)

<u>Site Evaluation:</u> Considered of significant ecological value for the range of, and quality of habitats present including elements probably of high value:

- juniper formations (District to Regional importance),
- mature birch wood and mixed woodlands with good quality acid grasslands associated (**District importance**)
- dry heath (Local importance)
- mire/flush (Local importance).

007 – Ordie, Dinnet

A field of largely unimproved, or slightly semi-improved neutral grassland, apparently mown for hay. Appears to be a remant of a linear crofting field pattern.

Grasses include Festuca rubra, Agrostis capillaries, Anthoxanthum odoratum, Holcus lanatus, Poa pratensis, Phleum bertolonii, Dactylis glomerata, Arrhenatherum elatius. Herb species varied but with a moderate to low cover include Rumex acetosa, Lathyrus pratensis, Lotus corniculatus, Medicago lupulina, Vicia sativa, Hypochaeris radicata, Leontodon autumnalis, Achillea millefolium, Plantego lanceolata, Cerastium fontanum, Ranunculus repens, Trifolium repens, Viola tricolour and Campanula rotundifolia.

Small group of mature and regenerating aspen in the north of the field and mature and semi-mature scattered broom, rowan and downy birch along the walled eastern boundary.

BAP/Biodiversity List habitats & species:

- Unimproved neutral grassland (CLBAP)
- Aspen (CLBAP); very small stand however.
- Wild pansy and Harebell (SBL)

<u>Relevant NBN Gateway Records</u>: Barn owl, bullfinch, kestrel, corn bunting, corncrake (record from grid square NJ4401, summer 2008), linnet, grey partridge, song thrush, skylark, bats, roe-deer, brown hare.

Notable plants recorded from the 10 km square are: Annual Knawel (Scleranthus annuus) Charlock (Sinapis arvensis) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Large-flowered Hemp-nettle (Galeopsis speciosa) Wild Pansy (Viola tricolor)

<u>Site Evaluation</u>: Probably of ecological value at the **Local** scale. Of interest for the local record for corncrake.

008 – Auvhnerran Woods.

An extensive woodland site of commercial, predominantly mature, Scots pine forest with occasional other coniferous species (larch, silver fir, Sitka spruce) and locally stands of Norway spruce, in particular to the north of Blelack and Mill in the eastern section of the site (Target Note 7). Birch is locally frequent, and forms a sparse stand of deciduous woodland in the north-east of the site over a grassland ground flora dominated by *Deschampsia flexuosa* and *Agrostis* spp. (Target Note 9).

Ground flora under mature Scots pine is for the most part dominated by *Calluna vulgaris, Vaccinium myrtillus* and *V. vitis-idea* (Target Note 2). Locally the woodland is well structured with trees of varying canopy size and shape (Target Note 6). In some parts of the north-east of the site (e.g. around Sandy Hillock, Target Note 8) ericaceous vegetation gives way to a bracken and grassy understory locally with *Oxalis acetosa, Rumex acetosella, Rubus fruticosus, Digitalis purpurea, Dryopteris dilitata* and *Pyrola* spp (vegetative material only). In many areas throughout the woods, a typical moss flora (*Rhytidiadephus, Pseudoscleropodium, Polytrichum* spp.) provides significant cover.

In some areas, the woodland cover is sparser, comprising scattered mature standard pines with scattered pine seedlings over open *Calluna* heath (Target Notes 3, and Target Note 5 where birch is also regenerating. Conversely, denser younger pines occur over sparse *Calluna* in the area of Target Note 4.

Other habitats:-

<u>Valley and basin mires</u>: Extensive mire in the west and south-west of the site with *Eriophorum angustifolium, Sphagnum spp., Carex rostrata, Narthecium ossifragum,*

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Erica tetralix, Scirpus cespitosus, Potentilla palustris with *Molinia caerulea, Juncus effusus* and *C. vulgaris* where conditions are not so wet.

Smaller but similar mire communities in shallow basins in the north-west of the site in the area around the curling pond and nearby to the south of the area of hard standing used for timber handling and storage (Target Note 1). Area of hard standing appears to have intruded into the mire to the south, reducing its area.

Flood-plain mire around the small stream in the north-west of the site dominated by *Juncus acutiflorus & J. effusus* with *Deschamsia cespitosa*, *Filipendula ulmaria*, *Achillea ptarmica*, *Equisetum palustre*, *Carex rostrata* and leafy liverworts.

<u>Streams</u>: The extensive mire in the west of the site drains via a small stream eastwards to meet the Logie Burn. Similar small streams drain the north-east of the site. Logie Burn around 3-4 metres broad, moderate to fast flow over coarse sands and gravels. Shading generally precludes the development of an aquatic flora though rushes and ferns (male fern, lady fern, broad buckler fern) locally common on the banks.

<u>Open Water</u>: The Curling Pond has *Molinia cearulea, Erica tetralix* and *Scirpus cespitosus* along its banks and stands of *Carex rostrata* in the open water.

BAP/Biodiversity List habitats & species:

- Native Pinewoods & Planted Conifer (CLBAP)
- Rivers and Streams (CLBAP)
- Pyrola media (SBL)

<u>Relevant NBN Gateway Records</u>: Common frog, common toad, adder, common lizard, capercaillie, black grouse, Scottish crossbill, siskin, tree pipit, red squirrel, otter, bats, wildcat, roe-deer, *Pyrola media*.

Notable plants recorded as for Site 007 – Ordie, Dinnet, above.

Site Evaluation:

Woodland of **Local** value, extensive western mire likely to be of **District to County** value.

024 - Dinnet

A group of small sites in Dinnet characterised by Scot's pine plantation and secondary birch woodland.

24B (T1) Mature, even-aged Scots pine woods over typical ground flora of mosses, *Calluna vulgaris, Erica tetralix* and *Deschampsia flexuosa*. Other herbs include

Teucrium scorodonia, Oxalis acetosa and *Galium saxatile.* Woods slope down with increasing cover of birch in the north of the site (Target Note 2) to abut the adjacent Muir of Dinnet SSSI (including wetlands of the River Dee SAC).

Neutral grassland prevail around the sawmill and associated buildings (Target Note 1) with *Holcus lanatus, Agrostis capillaris, Agrostis vinealis, Trifolium repens, Ranunculus* repens and *Campanula rotundifolia*. Various stored and dumped building materials here.

Well defined animal tracks throughout the site, probably attributable to deer.

24C (HS1). Plot of acidic woodlands on the western edge of the village comprising dense young Scots pine by the road leading to more open mixed woods of young to semi-mature pine and birch over a mainly grassy (*Deschampsia flexuosa*) ground flora with bracken, occasional *Calluna* and locally abundant mosses. Along the northern edge of the site, the land lowers to a damp woodland of downy birch with *Polytrichum* and *Sphagnum* mosses.

Two large silver firs in the north-west corner of the site.

24D (HS2a). Scattered birch woodland and scattered broom over damp acid-neutral grassland, grazed by cattle. Dominated by *Holcus lanatus* with *Anthoxanthum odoratum, Agrostis* spp, *Dactylis glomerata, Poa pratensis, Festuca rubra with Ranuculus repens, Trifolium repens, Veronica chamaedrys* and *Succisa pratensis.*

24E (HS2B). Mainly dense, young to semi-mature mixed birch/Scots pine woodland along the south of the road with occasional clearings dominated either by heathers or shrubby (broom) grasslands of *Deschampsia flexuosa* and *Festuca rubra*, grading to *Arrhenatherum* grasslands by the roadside.

24F (HS3). Larger site of mature scattered birch over neutral grassland of Holcus lanatus, Agrostis spp, Dactylis glomerata, Festuca rubra and Anthoxanthum odoratum. Herb species limited, some Oxalis acetosa and Teucrium scorodonia, and patches of ruderal tall herb (nettles and creeping thistle).

Small square roadside plots by the B9158 characterised by mature and sapling conifers over a heather and moss flora. Western plot also with holly, sapling oak and birch.

BAP/Biodiversity List habitats & species:

• Native Pinewoods & Planted Conifer (CLBAP)

<u>Relevant NBN Gateway Records</u>: Common frog, common toad, adder, common lizard, slow-worm, bullfinch, kestrel, linnet, hobby, Scottish crossbill, siskin, robin, tree pipit, woodcock, wood warbler, red squirrel, bats, roe-deer, *Pyrola media*.

Notable plants recorded from the 10 km square: Annual Knawel (Scleranthus annuus) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media) Twinflower (Linnaea borealis) Wild Pansy (Viola tricolor)

<u>Site Evaluation:</u> All sites of relatively low ecological value of significance at the **Site** level only.

026 - Land by Monaltrie Park, Ballater

Site dominated by arable farmland with the former track of the Deeside railway, now a footway and cycle path running through the centre of the site.

The former railway provides a wildlife corridor with scattered trees and remnant strips of unimproved neutral grassland. Tree and shrubs include native pine, birch, wild cherry, sycamore and broom, together with a number of non-natives such as cotoneaster, snowberry, Swedish whitebeam, grey alder, lilac and larch.

Grassland verges along the path have a range of coarse grass species and herbs such as *Galium verum, Achillia millefolium, Veronica chamaedrys, Centaurea nigra, Stellaria graminea, Lathyrus pratensis, Vicia spp., Campanula rotundifolia* and patches of tall herb, nettle and raspberry. Similar unimproved coarse grasslands are present on a broad verge along the northern boundary of the arable fields with bramble, broom, rowan and birch.

The northernmost section of the site lies on an upper river terrace and comprises fairly species-rich unimproved neutral *Festuca/Agrostis* grasslands on the terrace with acid grasslands and heathers on the leached soils of the south-facing slope. Species include *Achillea millefolium*, *Lotus corniculatus*, *Lathyrus pratensis*, *Lathyrus linifolius*, *Galium verum*, *Ranunculus acris*, *Succisa pratensis*, *Hypochaeris radicata* and *Alchemilla vulgaris*.

BAP/Biodiversity List habitats & species:

- Unimproved neutral grasslands (CLBAP)
- Harebell (SBL)

<u>Relevant NBN Gateway Records</u>: Adder, common lizard, slow-worm, barn owl, bullfinch, kestrel, skylark, linnet, robin, house sparrow, yellowhammer, bats, roe-deer.

Notable plants recorded from the 10 km square are: Annual Knawel (Scleranthus annuus) Black-bindweed (Fallopia convolvulus) Charlock (Sinapis arvensis) Corn Mint (Mentha arvensis) Field Pepperwort (Lepidium campestre) Good-King-Henry (Chenopodium bonus-henricus) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media) Large-flowered Hemp-nettle (Galeopsis speciosa) Mossy Saxifrage (Saxifraga hypnoides) Small Cow-wheat (Melampyrum sylvaticum) Twinflower (Linnaea borealis) Wild Pansy (Viola tricolor)

Site Evaluation:

Former railway corridor of value at the **Local** scale Unimproved river terrace grasslands and acid grassland slope may be of value at the **Local to District** level.

Arable fields of low ecological interest but may have value for farmland birds and could provide habitat for some notable plant species of arable margins/disturbed ground such as Large flowered hemp nettle, Charlock and Good King Henry.

035a - Quarry at Crathie

Small quarry extending into a hillside of birch over acid grassland and dry heath with scattered juniper with an area of this habitat remaining intact within the site on the western edge of the quarry and narrow strips along the site boundary elsewhere. Typical species predominating are *Betula pendula/pubescens, Juniperis communis, Calluna, Erica cinerea, Deschampsia flexuosa, Teucrium scorodonia, Potentilla erecta* and a typical moss flora.

Quarry floor and slopes provide disturbed habitats showing varying degrees of recolonisation from the surrounding vegetation on the slopes and with the quarry floor dominated by dense colonizing birch and broom, rabbit-grazed Agrostis/Festuca grasslands, ruderal vegetation and bare-ground/ephemeral mosaics. Species include *Urtica dioica, Rubus fruticosus, Rubus ideaus, Heracleum sphondyllium, Luzula sylvatica, Lepidium heterophyllum, Cirsium arvense, Vicia sepium, Sedum*

telephium, with *Prunella vulgaris, Ranunculus repens, Potentilla erecta, Fragaria vesca* and *Vernonica chamaedrys* in the open grasslands. *Juncus effusus* and *Deschampsia cespitosa* occupy occasional damp hollows.

BAP/Biodiversity List habitats & species:

- Juniper (UKBAP)
- Upland birch woods (CLBAP)

<u>Relevant NBN Gateway Records</u>: Adder, common lizard, slow-worm, bullfinch, linnet, spotted flycatcher, tree pipit, song thrush, robin, bats.

Notable Plants: Black-bindweed (Fallopia convolvulus) Bluebell (Hyacinthoides non-scripta) Charlock (Sinapis arvensis) Corn Mint (Mentha arvensis) Harebell (Campanula rotundifolia) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media) Large-flowered Hemp-nettle (Galeopsis speciosa) White Mustard (Sinapis alba)

Site Evaluation:

Remnant birch woods with juniper within the western section of the site represent an example of the adjacent SSSI woodlands of Crathie Wood, and should be valued at a **District to Regional** level.

Ruderal habitats of the quarry floor significant at a Site level only.

035b - Land at Keiloch

Land within the curtillage of the sawmill which much bare ground around the sawmill buildings and damp grasslands elsewhere with some colonising saplings of downy birch. Predominant species are *Holcus lanatus, Juncus effusus*, Cirsium arvense, *Urtica dioica, Senecio jacobea, Anthoxanthum odoratum* and *Agrostis* spp. A small patch of *Luzula sylvatica* and *Deschampsia cespitosa* is present in a damp depression in the south-east of the site and two mature larches and one Norway spruce are present along the roadside boundary.

<u>Relevant NBN Gateway Records</u>: Song thrush, linnet, siskin, robin, house sparrow, slow worm, adder, common lizard, common toad.

Notable Plants from the NBN Gateway records: Alpine Milk-vetch (Astragalus alpinus) Tender for Phase 1 Habitat Surveys for the CNPA

Bluebell (Hyacinthoides non-scripta) Charlock (Sinapis arvensis) Good-King-Henry (Chenopodium bonus-henricus) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media) Large-flowered Hemp-nettle (Galeopsis speciosa) Mossy Saxifrage (Saxifraga hypnoides) Twinflower (Linnaea borealis) Wild Pansy (Viola tricolor).

Given the nature of the site it is unlikely that many or any of the above species are present with the possible exception of charlock and Good King Henry.

Site Evaluation: Of negligible ecological interest.

035c – Bridge of Gairn.

Three fields of improved grassland on an upper terrace of the river Dee. Grasslands of low species diversity, grazed by cattle, with low stone wall/'wire fence boundaries and occasional old elder and rowan along the southern boundary. Sward dominated by *Lolium perenne, Holcus lanatus, Dactylis glomerata, Alopecurus pratensis* and *Agrostis* spp.

Animal path through the fence into the south-west corner of the site may indicate use by foraging badgers and foxes.

<u>Relevant NBN Gateway Records</u>: Barn owl, kestrel, skylark, linnet, yellowhammer, roe-deer.

Notable plants recorded from the 10 km square are: Annual Knawel (Scleranthus annuus) Black-bindweed (Fallopia convolvulus) Charlock (Sinapis arvensis) Corn Mint (Mentha arvensis) Field Pepperwort (Lepidium campestre) Good-King-Henry (Chenopodium bonus-henricus) Harebell (Campanula rotundifolia) Heath Cudweed (Gnaphalium sylvaticum) Heather (Calluna vulgaris) Intermediate Wintergreen (Pyrola media) Large-flowered Hemp-nettle (Galeopsis speciosa) Mossy Saxifrage (Saxifraga hypnoides) Tender for Phase 1 Habitat Surveys for the CNPA

Small Cow-wheat (Melampyrum sylvaticum) Twinflower (Linnaea borealis) Wild Pansy (Viola tricolor).

Given the nature of the habitat, it is unlikely that many, or any of the above species are present on the site.

<u>Site Evaluation</u>: Of negligible ecological interest. Unlikely to be of significant value to foraging badgers given the extensive resource of good habitat along the floodplain and valley of the river Dee.

3.0. References

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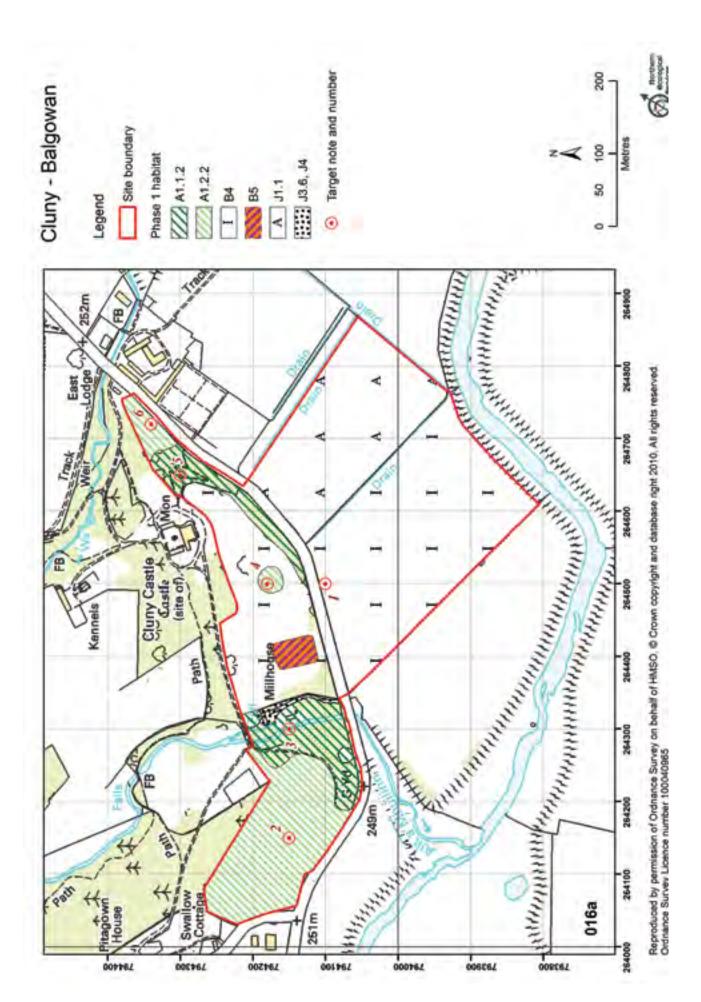
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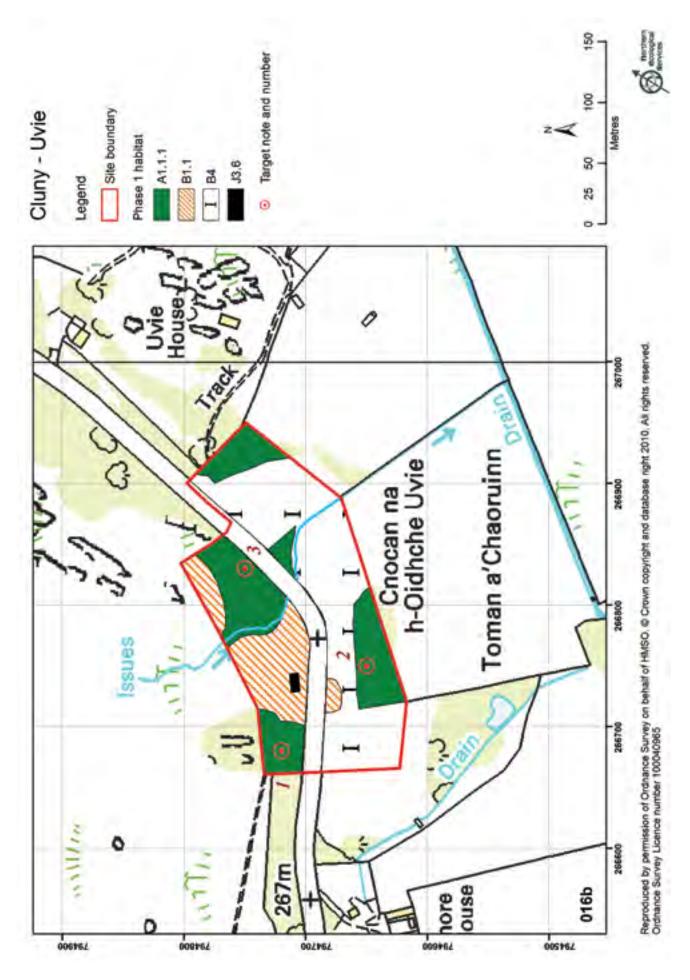
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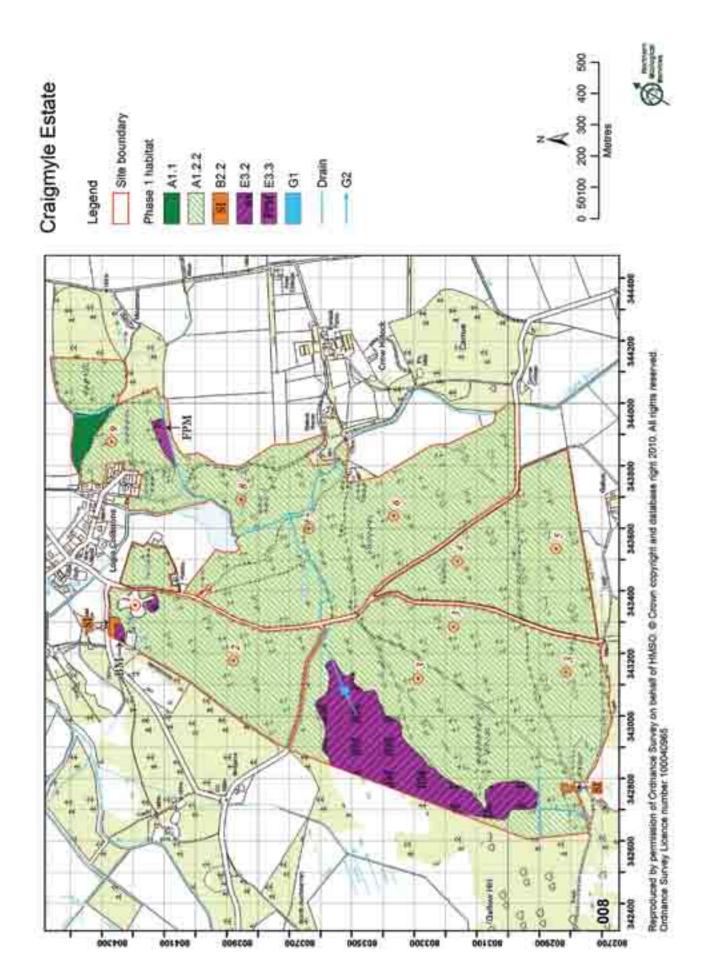
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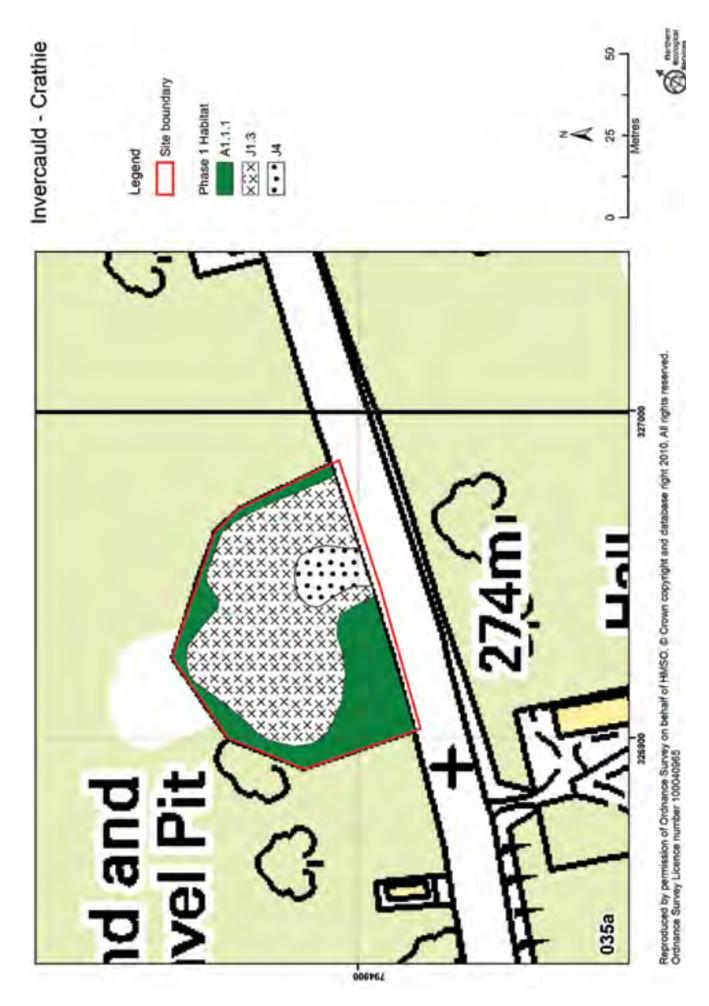
Main Issues Report - Background Evidence 5. Site Analysis

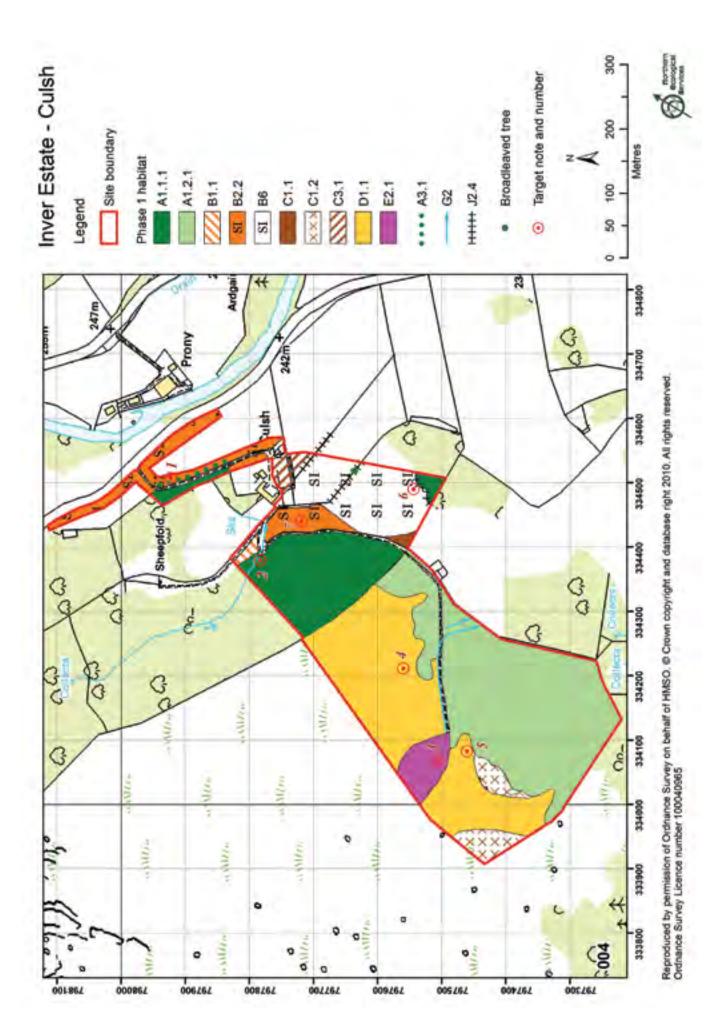


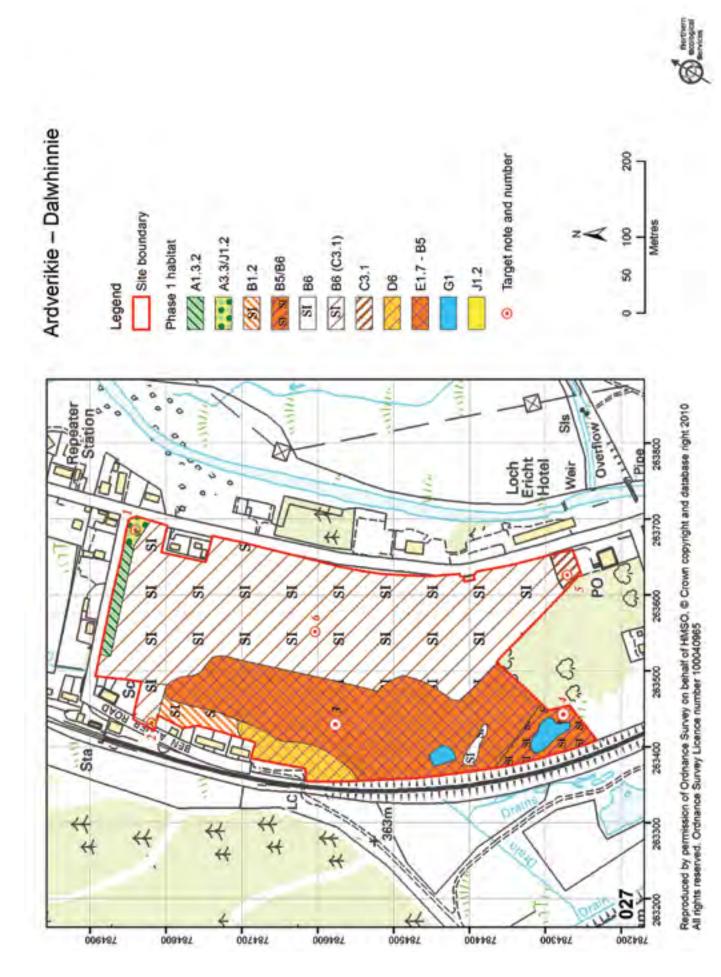




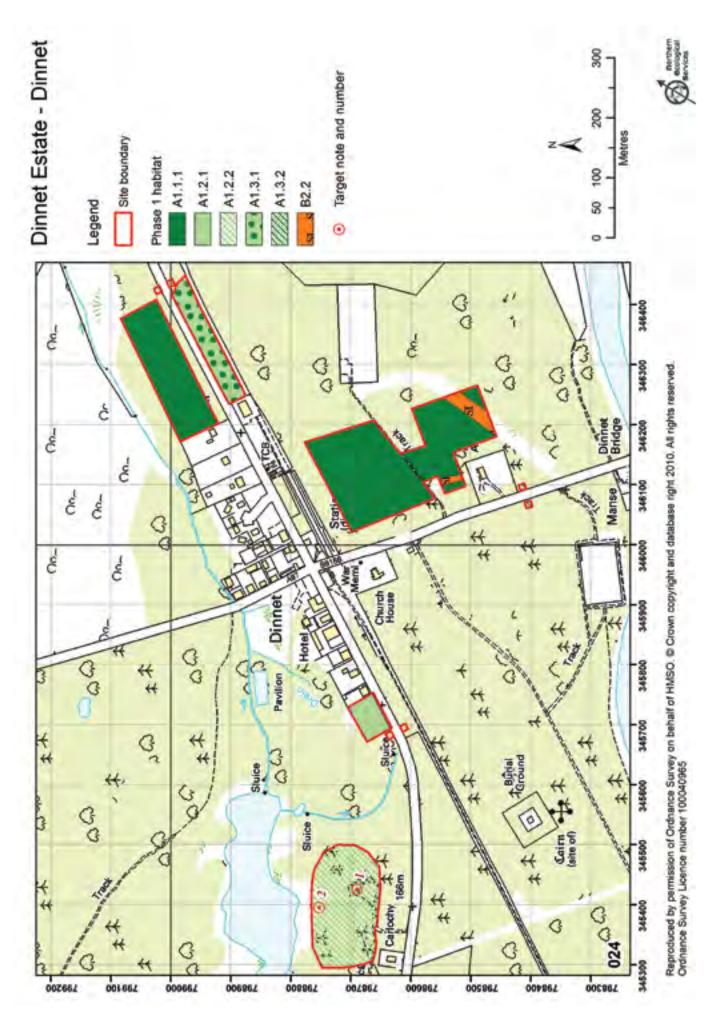


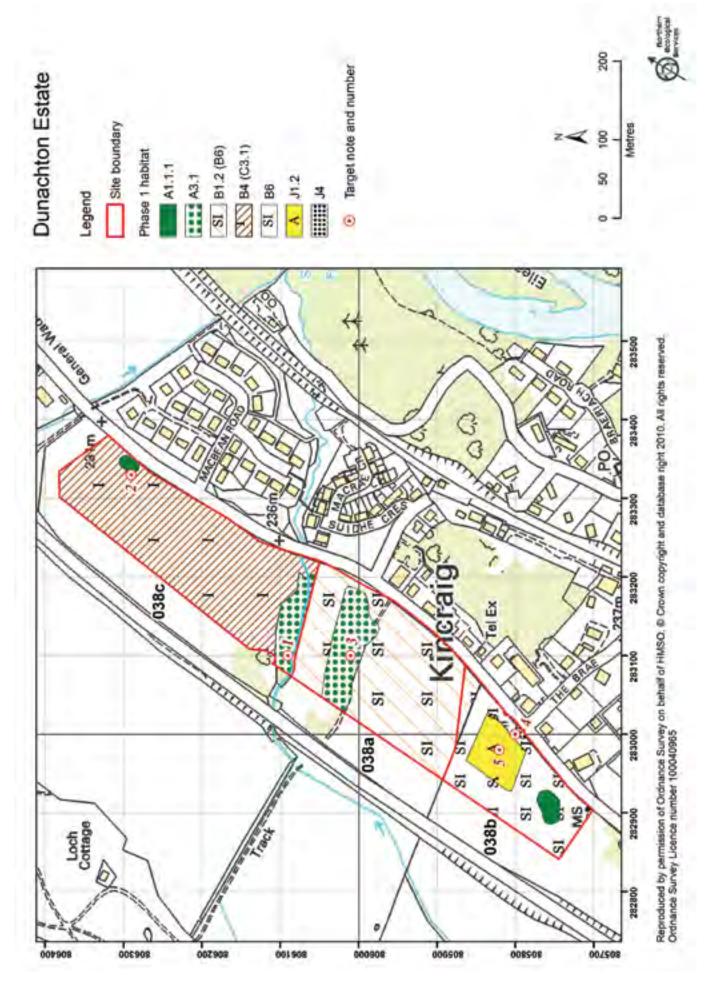


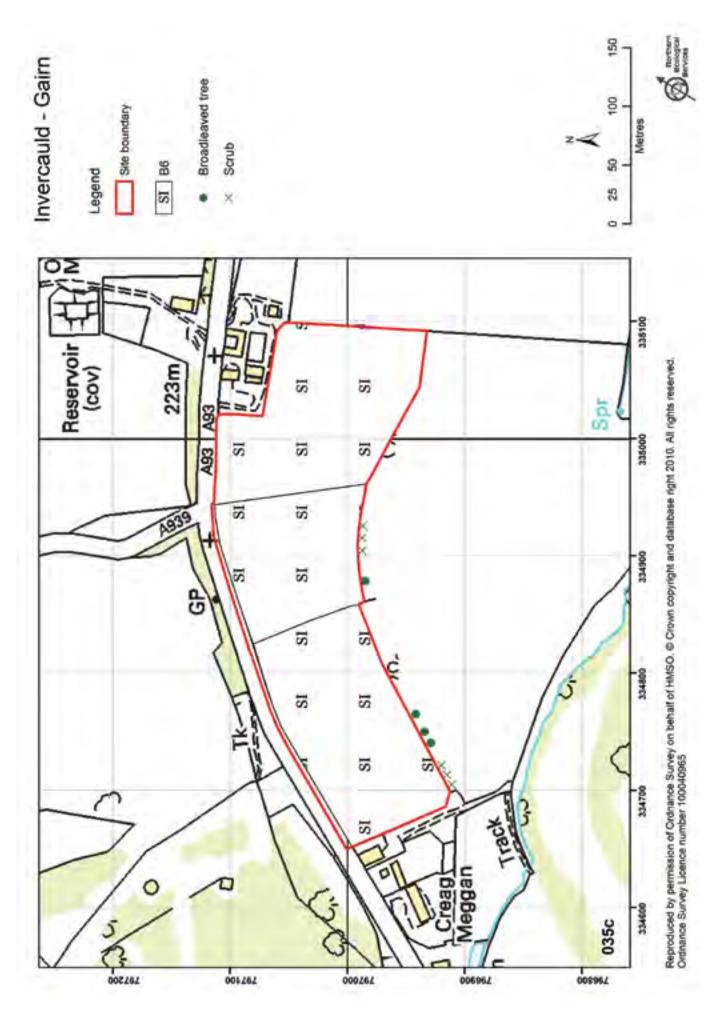


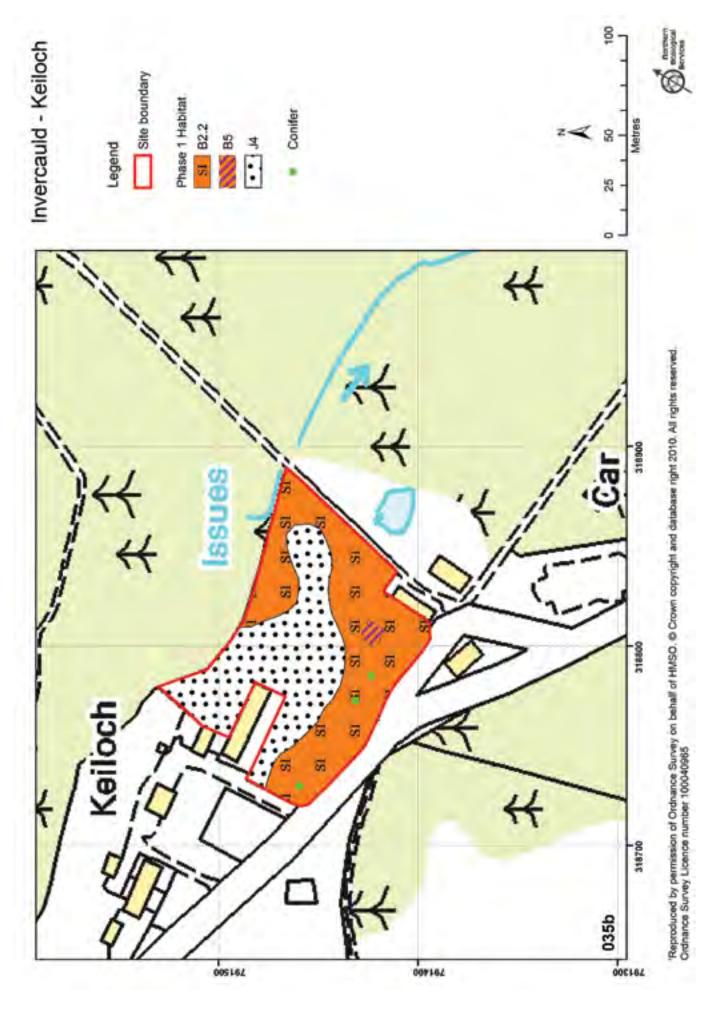


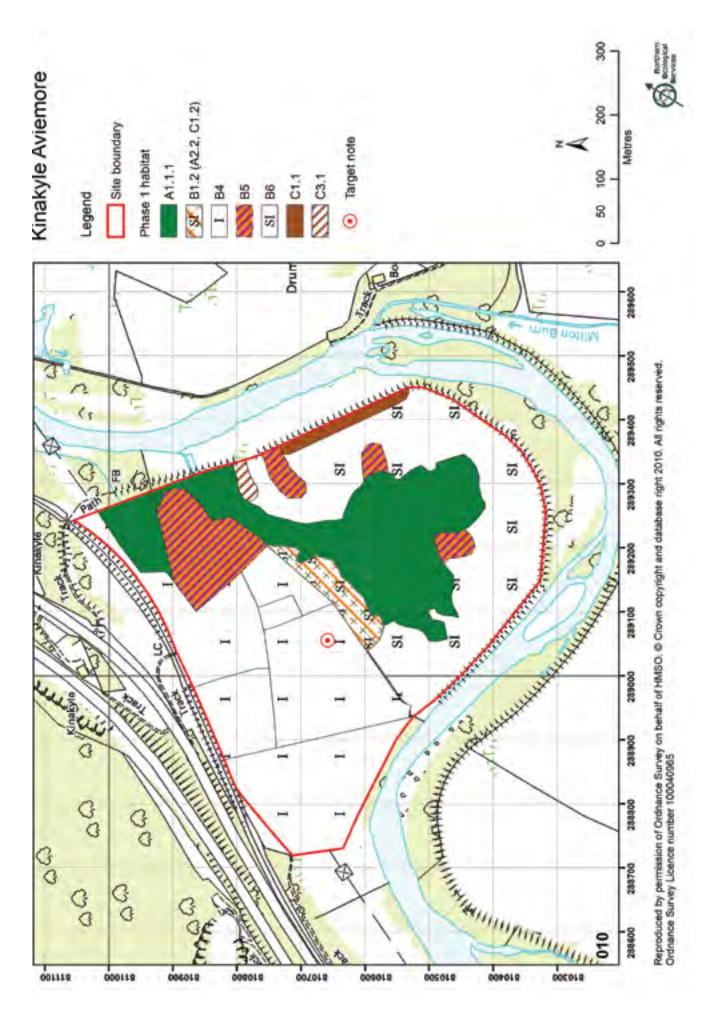
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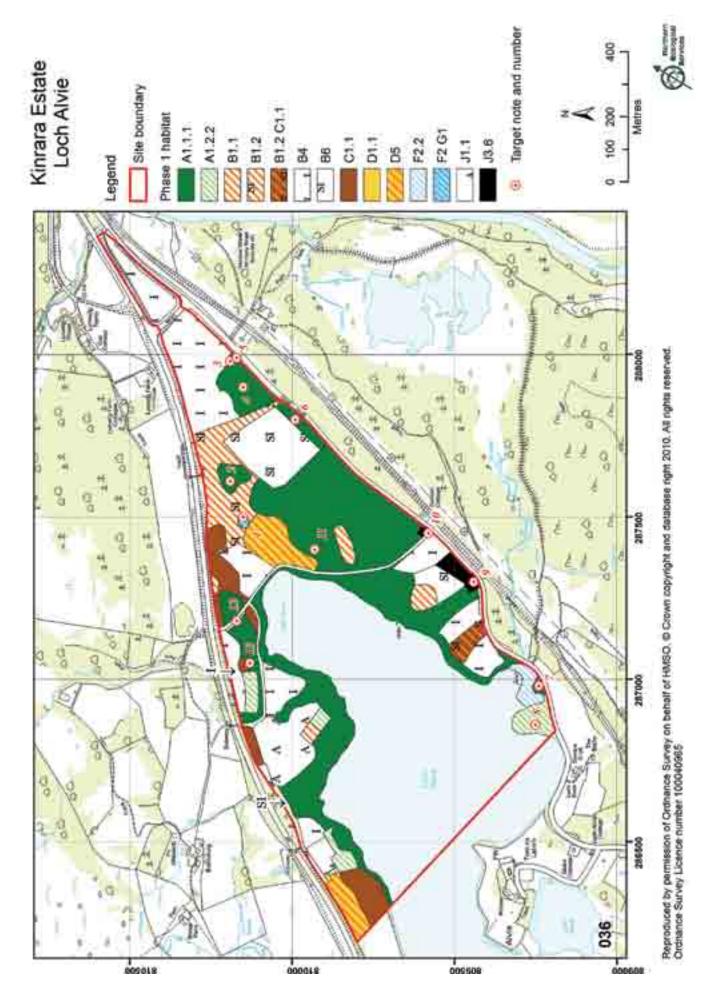


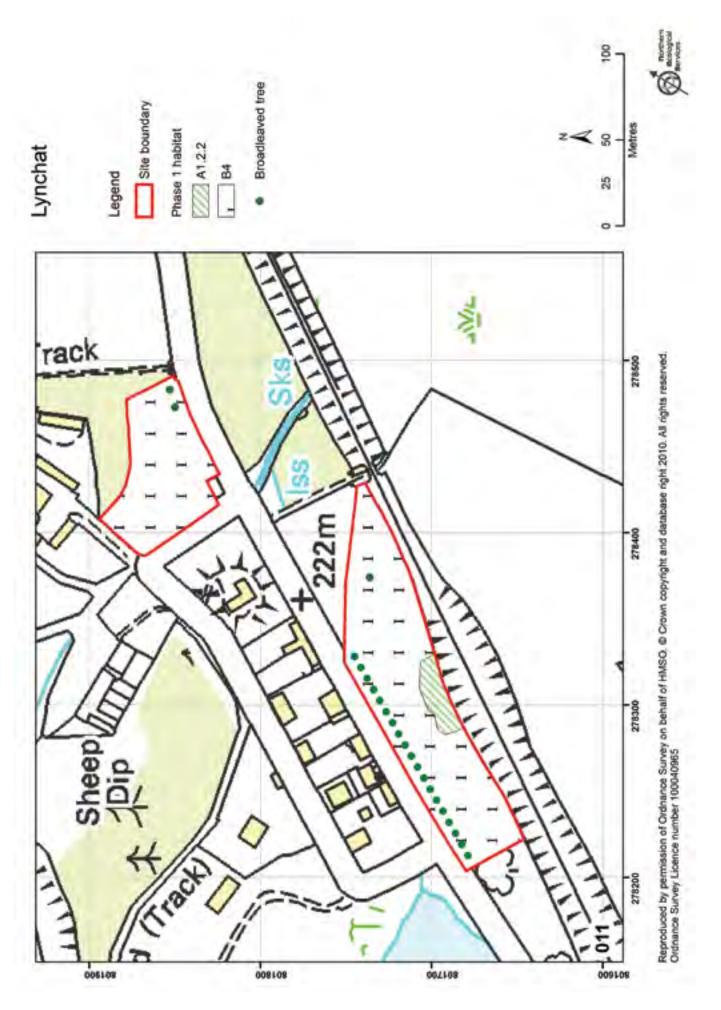


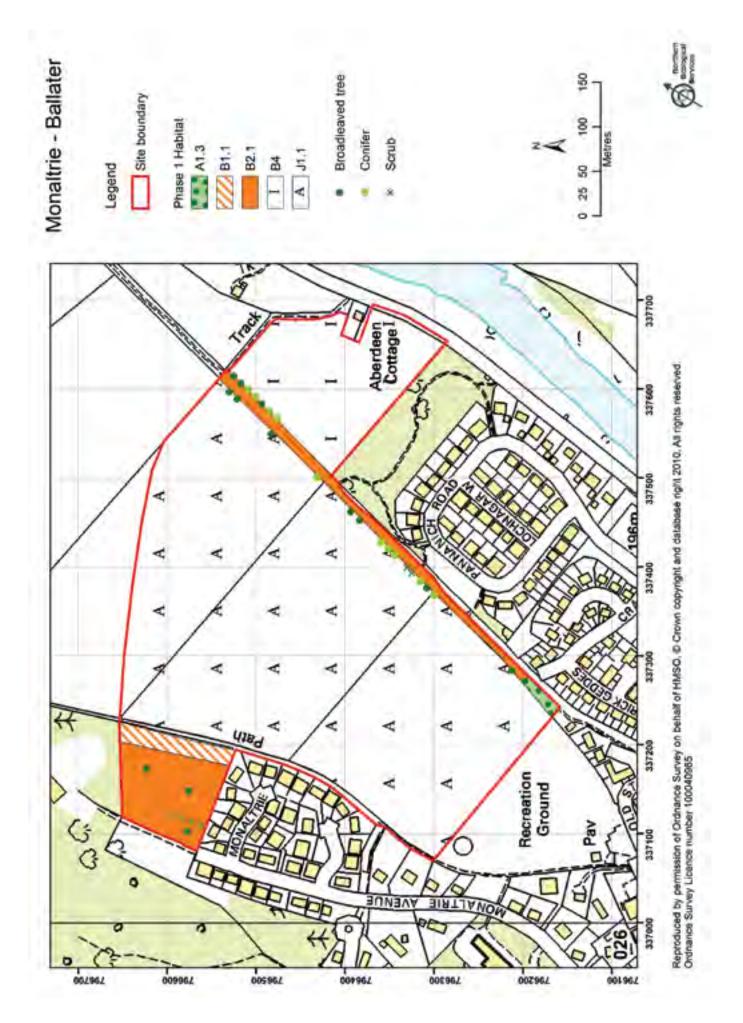


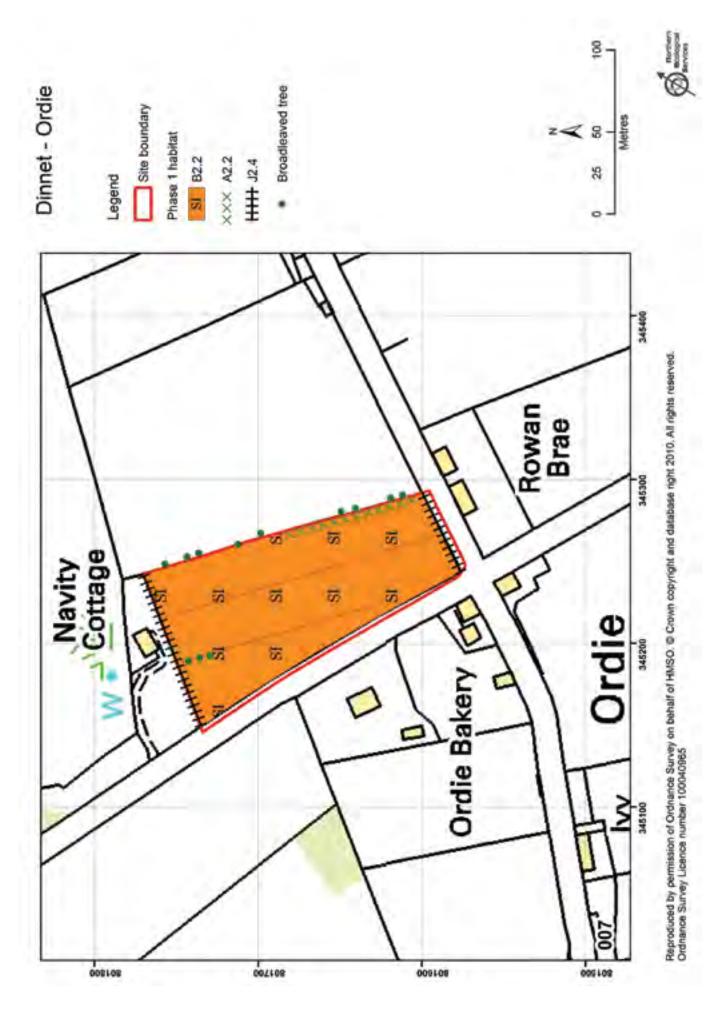




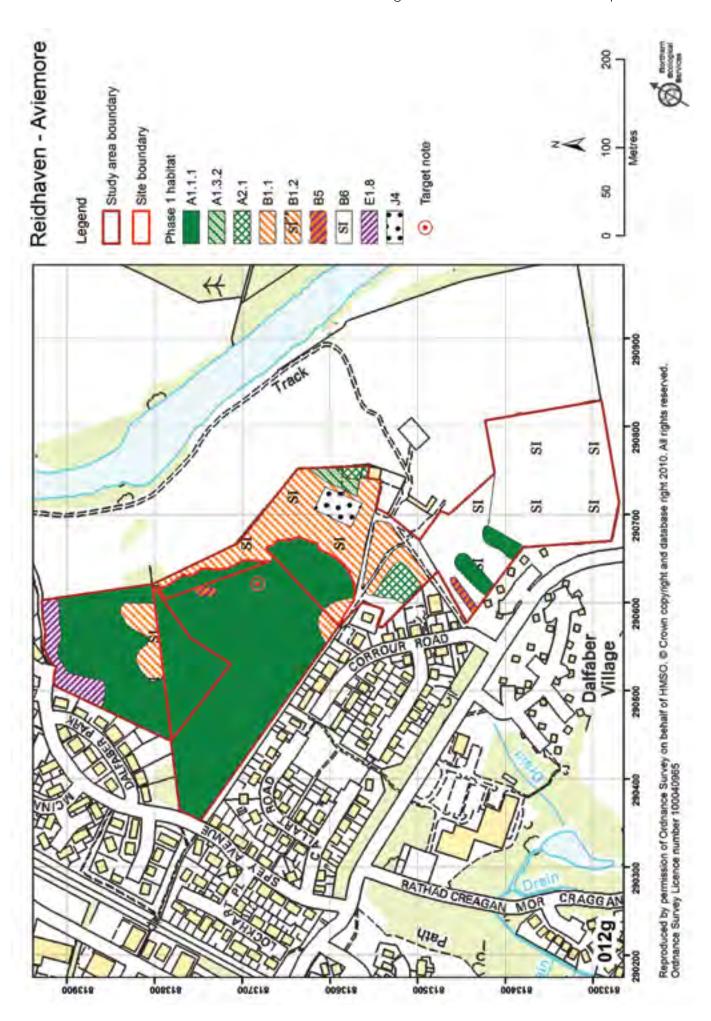


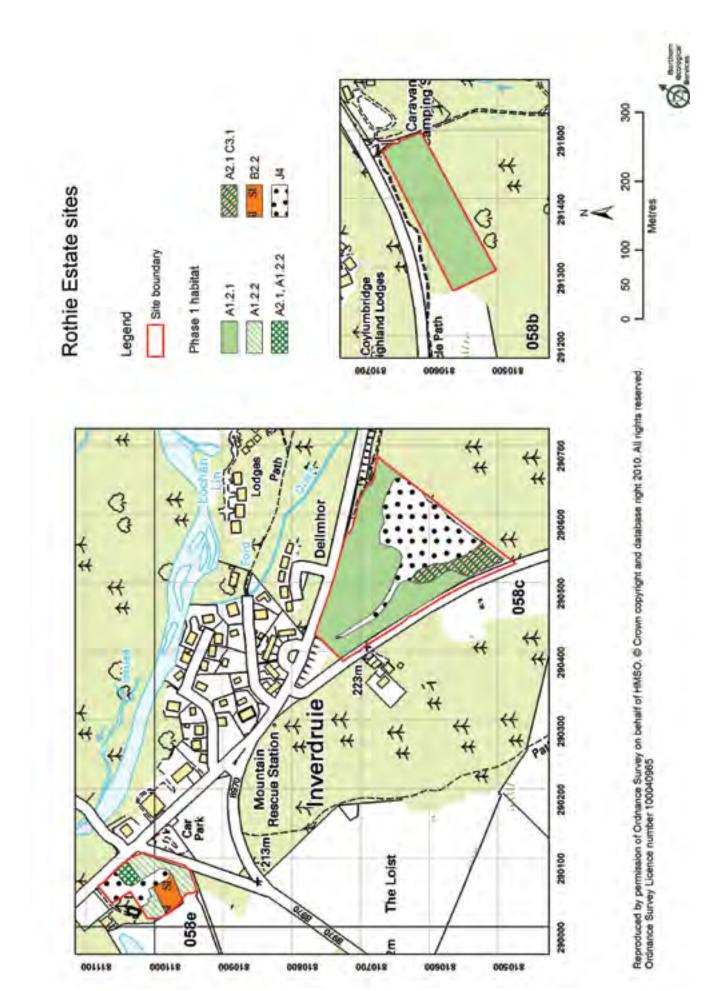


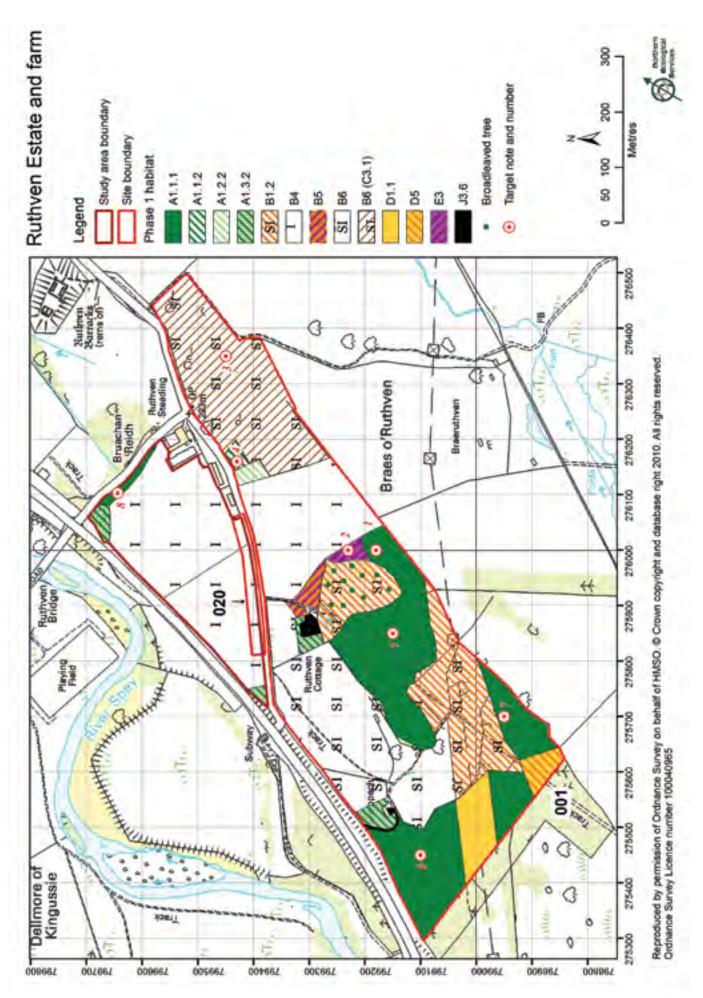




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Tender for Phase 1 Habitat Surveys for the CNPA

Scientific Name	Common Name	Scientific Name	Common Nam
Acer pseudoplatanus	Sycamore	Lepidium villarsii	Smith's pepperwort
Achillea millefolium	Yarrow	Lolium perenne	Perennial rye-grass
Achillea ptarmica	Sneezewort	Lotus corniculatus	Bird's foot trefoil
Aegopodium podagraria	Ground elder	Luzula sylvatica	Great woodrush
Agrostis capillaries	Common bent	Medicago lupulina	Black medick
Alchemilla vulgaris agg.	Lady's mantle	Menyanthes trifoliata	Bogbean
Alnus glutinosa	Alder	Molinia caerulea	Purple moor-grass
Angelica sylvestris	Angelica	Narthecium ossifragum	Bog asphodel
Anthoxanthum odoratum	Sweet vernal-grass	Oxalis acetosella	Wood sorrel
Arrhenatherum elatius	False oat	Phleum bertolonii	Smaller cat's tail
Athyrium filix-femina	Lady fern	Phleum pratense	Timothy-grass
Betula pubescens	Downy birch	Phragmites communis	Common reed
Betula pendulosa	Silver birch	Picea abies	Norway spruce
Calluna vulgaris	Heather	Picea sitchensis	Sitka spruce
Campanula rotundifolia	Harebell	Pinus sylvestris	Scot's pine
Carex nigra	Common sedge	Plantago lanceolata	Ribwort plantain
Carex rostrata	Bottle sedge	Poa pratensis	Meadow-grass
Centaurea nigra	Knapweed	, Populus tremula	Aspen
Cerastium holosteoides	Common mouse-	, Potentilla erecta	Tormentil
	ear	Prunella vulgaris	Self-heal
Cirsium arvense	Creeping thistle	Pseudotsuga menziesii	Douglas fir
Cirsium vulgare	Spear thistle	Pyrola media	Intermediate
Dactylis glomerata	Cocksfoot	,	wintergreen
Deschampsia cespitosa	Tufted hair-grass	Ranunculus acris	Meadow buttercup
Deschampsia flexuosa	Wavy hair-grass	Ranunculus repens	Creeping buttercup
Digitalis purpurea	Foxglove	Rubus fruticosus agg.	Bramble
Dryopteris dilatata	Buckler fern	Rubus idaeus	Wild raspberry
Dryopteris filix-mas	Male fern	Rumex acetosa	Common sorrel
Erica cinerea	Bell heather	Rumex acetosella	Sheeps' sorrel
Erica tetralix	Cross-leaved heath	Salix aurita	Eared willow
Eriophorum angustifolium	Common cotton	Salix caprea	Goat wllow
	grass	, Salix cinerea	Grey willow
Fagus sylvatica	Beech	Sambucus nigra	Elder
Festuca rubra	Red fescue	Sedum telephium	Orpine
Filipendula ulmaria	Meadow sweet	Senecio jacobaea	Ragwort
Fragaria vesca	Wild strawberry	Danthonia decumbens	Heath-grass
Fraxinus excelsior	Ash	Sorbus aucuparia	Rowan
Galium saxatile	Heath bedstraw	Stellaria graminea	Lesser stichwort
Galium verum	Lady's bedstraw	Succisa pratensis	Devil's bit scabious
Gentianella campestris	Field gentian	, Teucrium scorodonia	Wood sage
, Heracleum sphondylium	Hogweed	Trichophorum cespitosum	Deer grass
Holcus lanatus	Yorkshire fog	Trifolium repens	White clover
Hypochoeris radicata	Common cat's ear	Ulmus glabra	Wych elm
Juncus acutiflorus	Sharp-flowered	Urtica dioica	Nettle
	rush	Vaccinium myrtillus	Bilberry
Juncus effusus	Soft rush	Vaccinium vitis-idaea	Cowberry
Juniperus communis	Juniper	Vicia cracca	Tufted vetch
Larix decidua	Larch	Vicia sativa	Common vetch
Lathyrus linifolius	Bitter vetch	Vicia sepium	Bush vetch
Lathyrus pratensis	Meadow vetchling	Viola tricolor	Wild pansy

Appendix 1. Scientific and Common Names of Plant Species cited in the text.

Habitat information - Walk Over Surveys (CNPA Ecologist)

Site 003b

Improved grassland grazed by horses. Mature riparian trees. River Nethy SAC bounds the site to the west. Housing bounds the site to the north east. River has potential otter habitat.

Site 6a

This site comprises an area of semi-improved grassland, the boundary to the south is mature Scot's pine and bracken. With a large quantity of squirrel feeding remains. The west of the site is dense bracken and gorse providing suitable habitat for badgers. The north and north east is surrounded by a scot's pine woodland, listed as SPA and recorded on AWI. The Alt Mor River (listed as SAC) runs to the south of this site.

Site 6b

Improved grassland, that has been cropped. Mature trees bounding site and houses surrounding the site to the east, north and west.

Site 013

North boundary of site is a line of mature conifers with scattered mature broadleaved trees throughout the rest of the site which is currently grazed by sheep. The eastern edge of the site has mature beech, sycamore and conifer trees. Site is graded as green, although the mature native trees should be retained.

Site 014

North section of site is currently used as a playing field, with short improved grassland and is of low ecological value. The southern section of the site is mature birch woodland with scattered Rowan. Understory is generally tall ruderal vegetation including rosebay willow herb. Site is graded as amber as it has potential to be sensitively developed if mature woodland is retained.

Site 015b

Majority of site is tall ruderal vegetation of common species including rosebay willow herb and nettles. Several mature trees are present. Piles of felled wood were recorded within the patch of ruderal vegetation. The farm steading building is constructed of stone and slate with an addition of a breeze block and corrugated sheeting shed. The original stone built steading provides suitable habitat for bats and barn owls and should be surveyed for these species before any construction/demolition works is undertaken.

Site 015c

Majority of site is grazing/arable land. Tall ruderal vegetation between the field perimeter fence and road with common species including rosebay willow herb and nettles. Several semi-mature rowan and sycamore present.

Site 015d

Site is located within a mature Scot's pine woodland, with good understorey developing. Potential for red squirrels and other mammal species.



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