

Woodland Creation and Management

Cambusmore Estate, Sutherland
Volume 3: Figures (Non-Confidential)

5 July 2019



Contents

Figure 1 – Site Location

Figure 2 – Proposed Development

Figure 3 – Management and Grazing Areas

Figure 4 - Environmental Designations

Figure 5 – CONFIDENTIAL Hen Harrier Nesting – Historic Data – Contained within Volume 3: Figures (Confidential)

Figure 6 – CONFIDENTIAL Hen Harrier Nesting – Historic Data with NVC Data– Contained within Volume 3: Figures (Confidential)

Figure 7 – CONFIDENTIAL Hen Harrier Nesting – Historic Data with Future Planting Proposals– Contained within Volume 3: Figures (Confidential)

Figure 8 – CONFIDENTIAL Hen Harrier Flight Paths Overview (Map 1 – 3) – Contained within Volume 3: Figures (Confidential)

Figure 9 – CONFIDENTIAL Hen Harrier Territory– Contained within Volume 3: Figures (Confidential)

Figure 10 – NVC Habitat Results Overview (Map 1 – 8)

Figure 11a – Prey Availability Meadow Pipits

Figure 11b – Prey Availability Voles

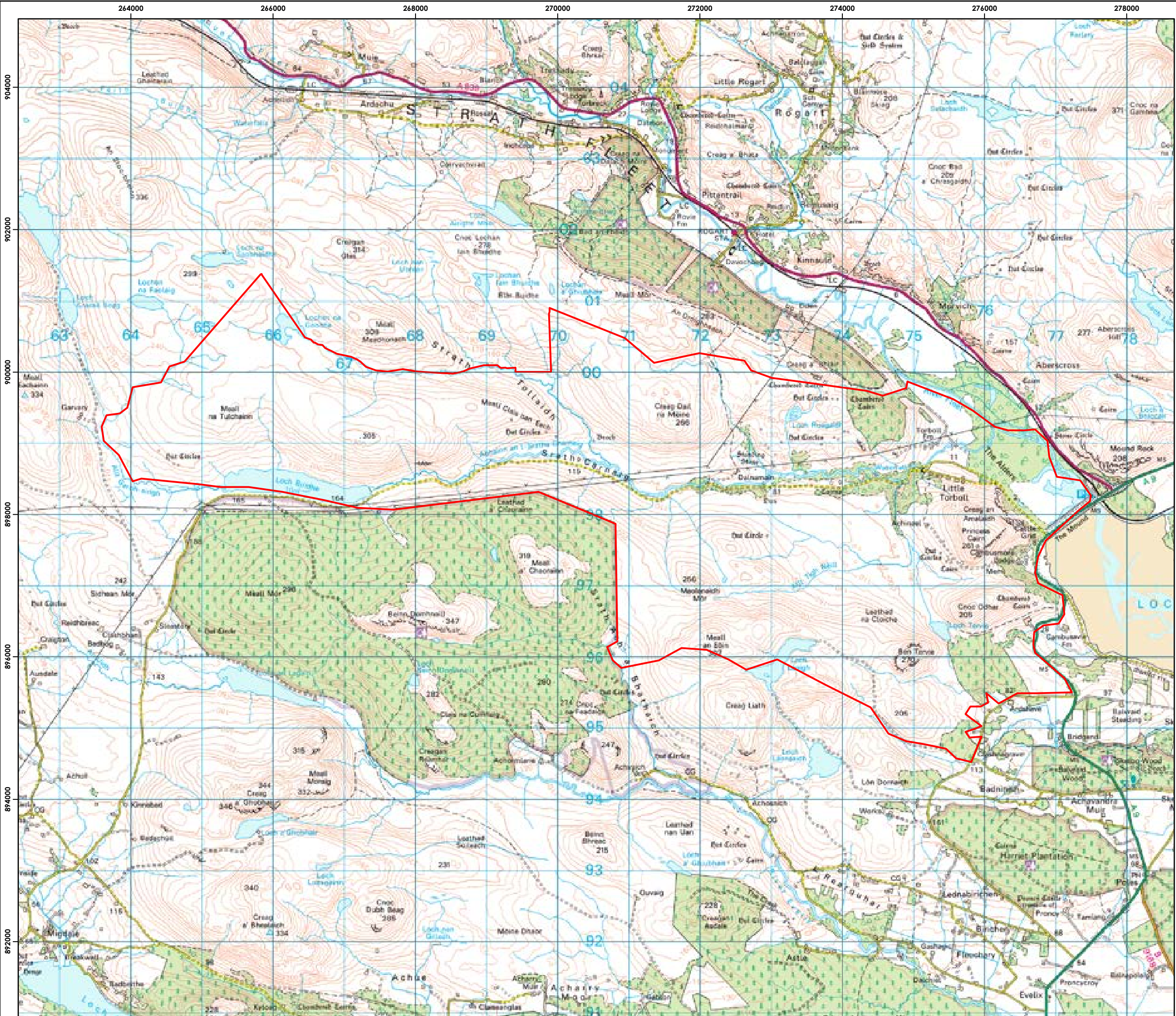
Figure 12 – Mean Graminoid Height

Figure 13 – Mean Dwarf Shrub Height

Figure 14- Common Standards Monitoring Results Overview (Map 1 – 2)

Figure 15 Habitat Summary Map Overview (Map 1 – 8)

Figure 16 Other Notable Species Breeding Territories



Cambusmore

K R Greenland Farming

Figure 1
Site Location

Key
[Red outline] Site boundary



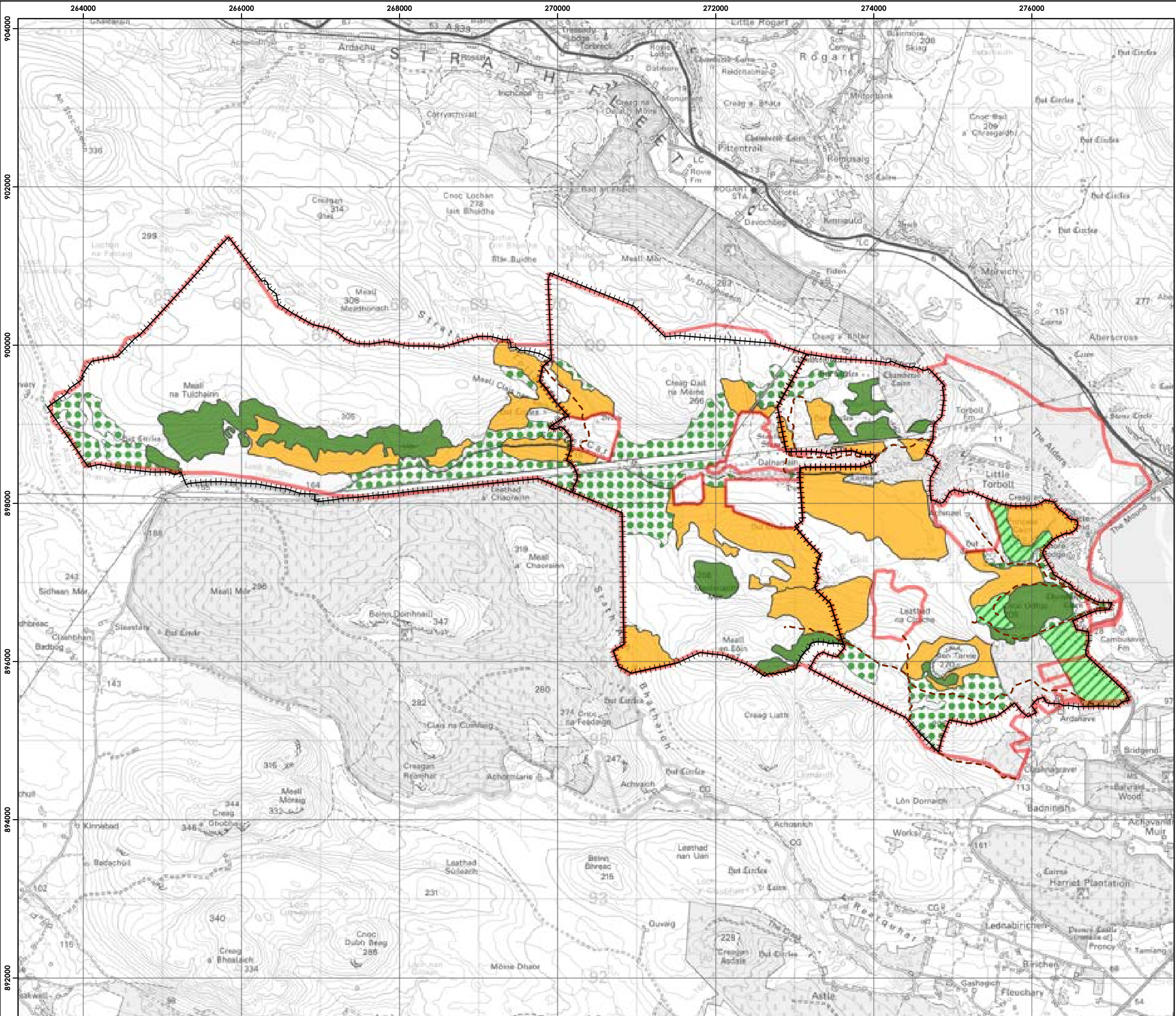
00.512

Kilometres

N

Scale @ A3:
1:50,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



Cambusmore

K R Greenland Farming

Figure 2
Proposed Development

Key

- Site boundary
- Fenceline
- Tracks

Planted areas

- W18 Native Scots Pine
- W4 Upland Birch
- Low Density Native Broadleaves / Natural Regeneration
- Diverse conifer

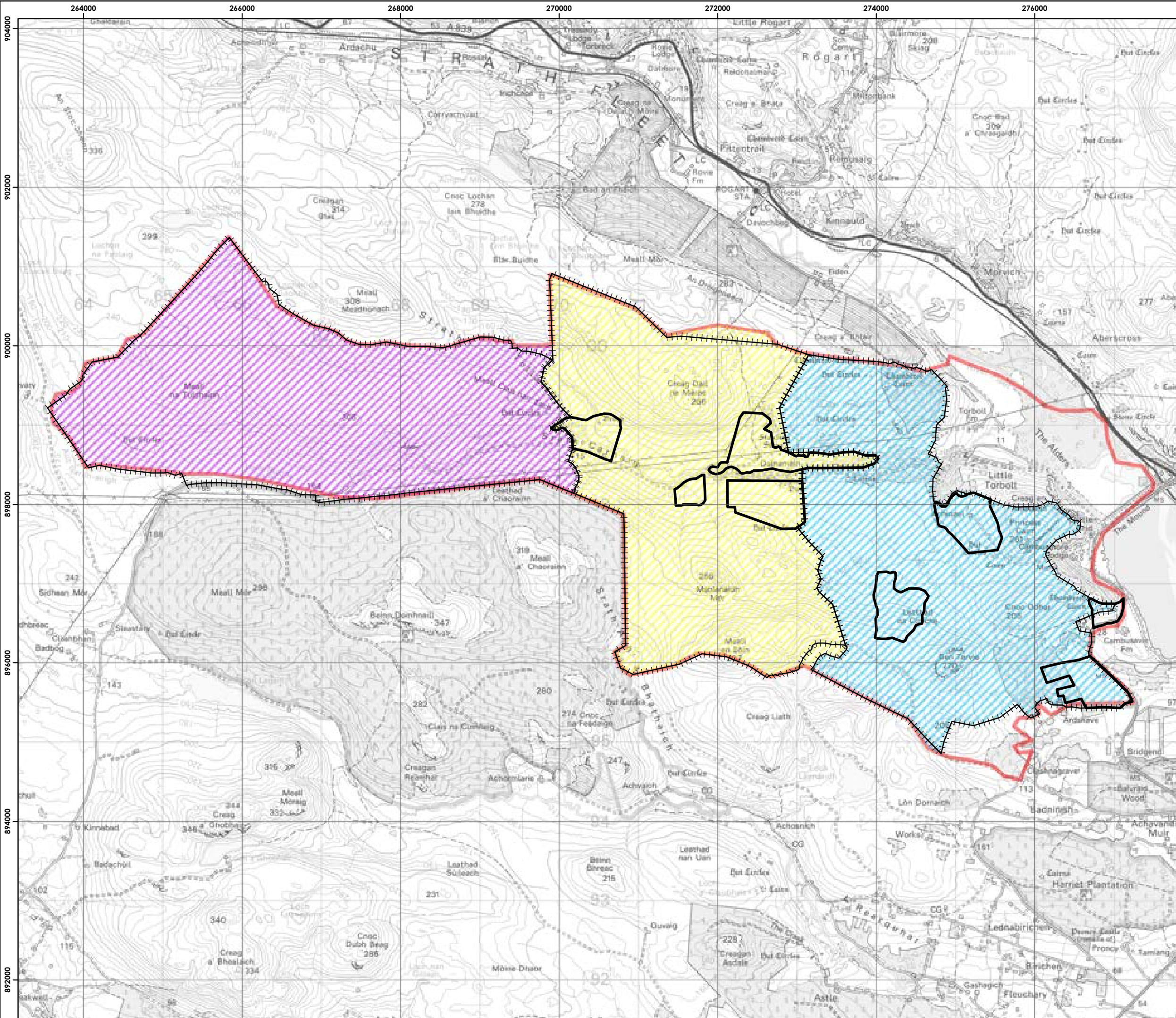


0 0.5 1 2
Kilometres

N

Scale @ A3:
1:45,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



Cambusmore

K R Greenland Farming

Figure 3
Management and Grazing Areas

Key

- Site boundary
- Fenceline
- Grazing enclosure

Management area

- Loch Buidhe
- Dalnamain
- Achinael

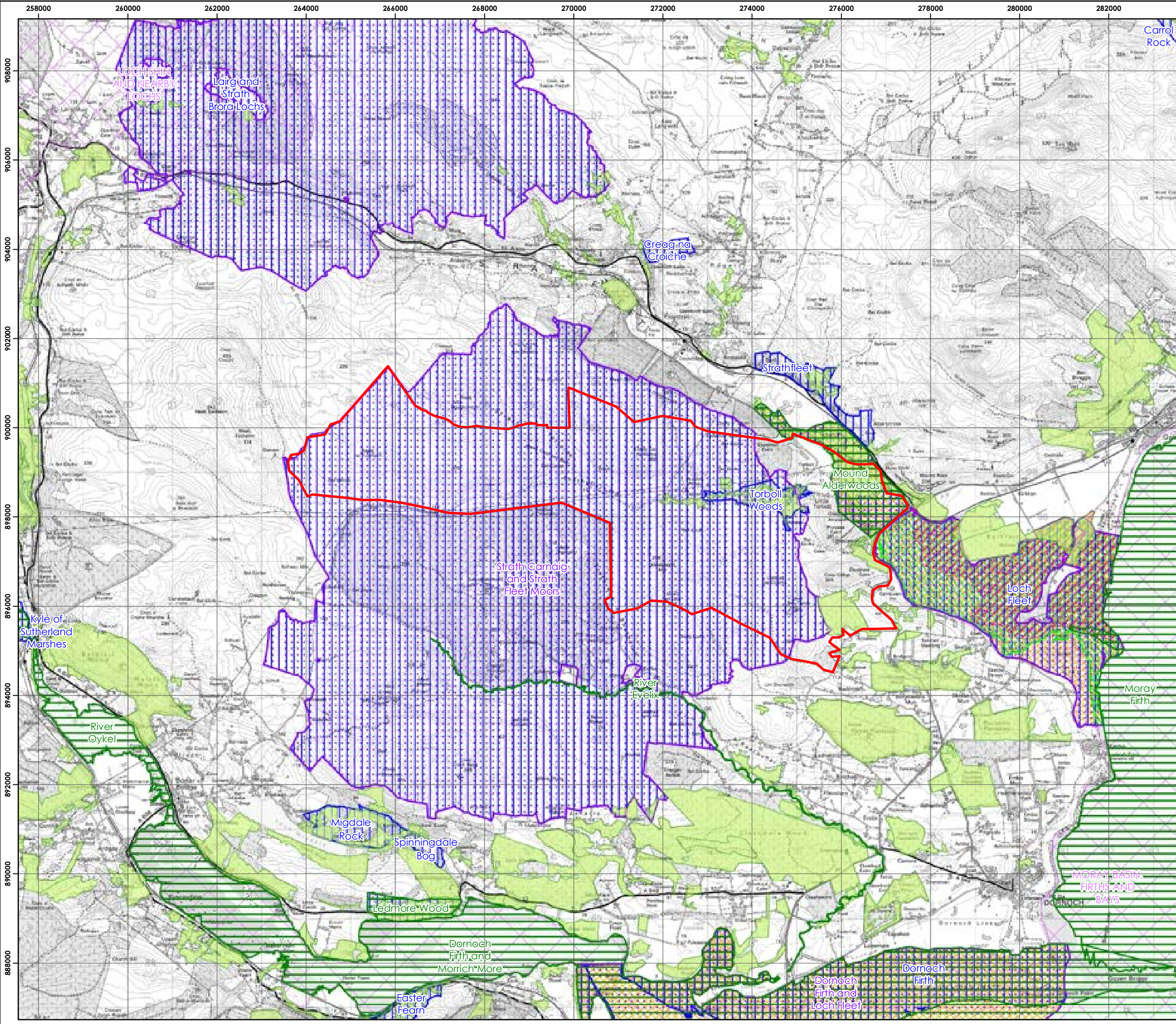


0 0.5 1 2
Kilometres

N

Scale @ A3:
1:45,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.

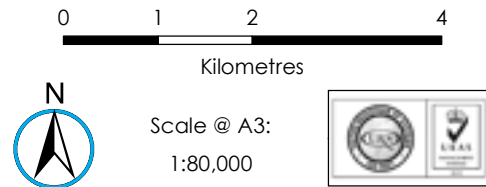


Cambusmore

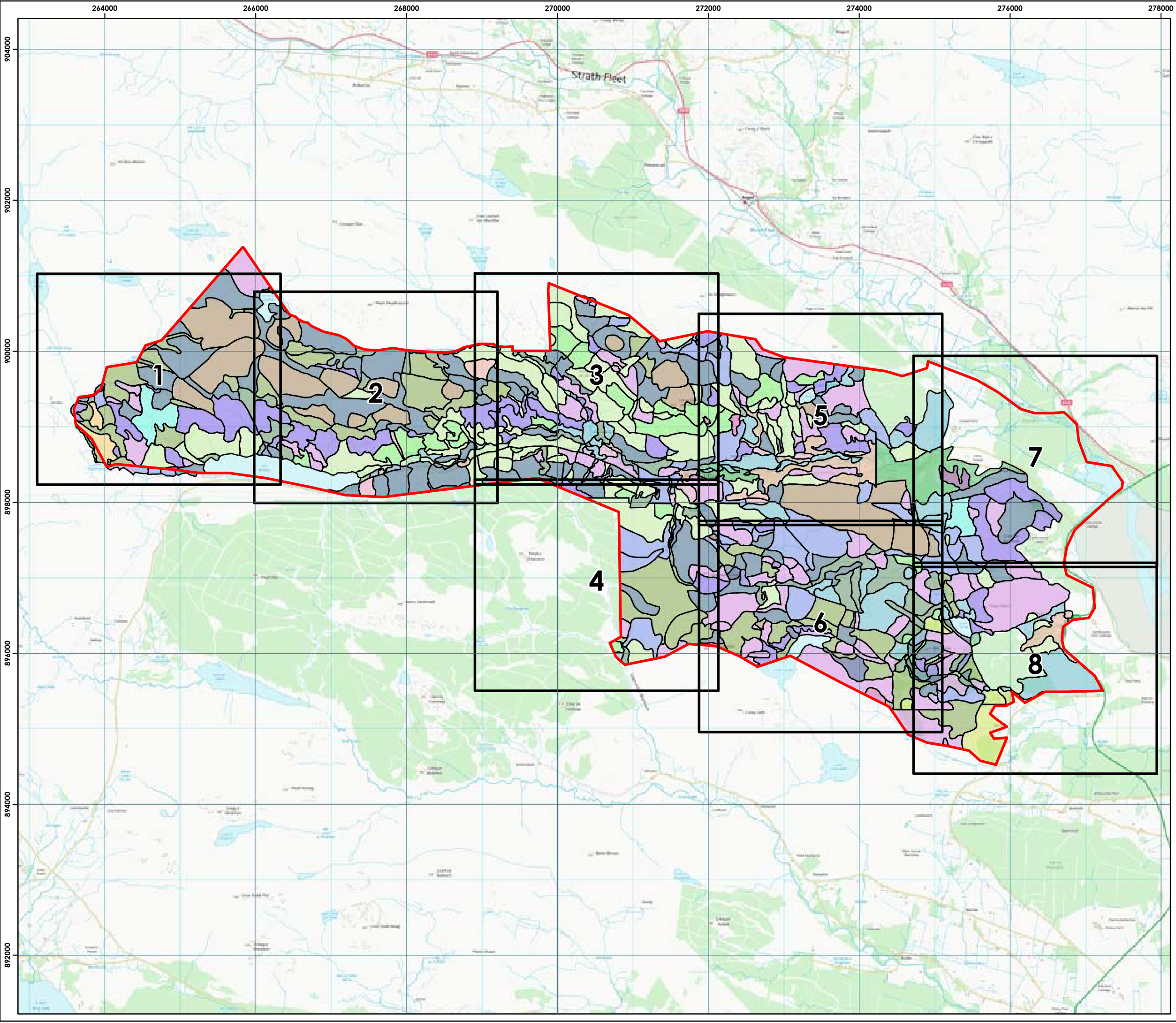
K R Greenland Farming

Figure 4
Environmental Designations

- Key
- Site boundary
 - Special Protection Area
 - Special Area of Conservation
 - Site of Special Scientific Interest
 - RAMSAR
 - National Nature Reserve
 - Ancient Woodland Inventory
 - Scottish Wildlife Trust Reserves
 - RSPB Important Bird Areas



© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



Cambusmore

K R Greenland Farming

Figure 10
NVC Habitat Survey Results
Overview

- Key**
- Site boundary
- Dominant NVC Community**
- H10
 - H9
 - H9/M20
 - M6
 - M15
 - M15a
 - M15/M19
 - M16
 - M17
 - M19
 - M19/M16
 - M20
 - M23
 - M25
 - S9
 - U20
 - U4
 - W11
 - W18
 - W4



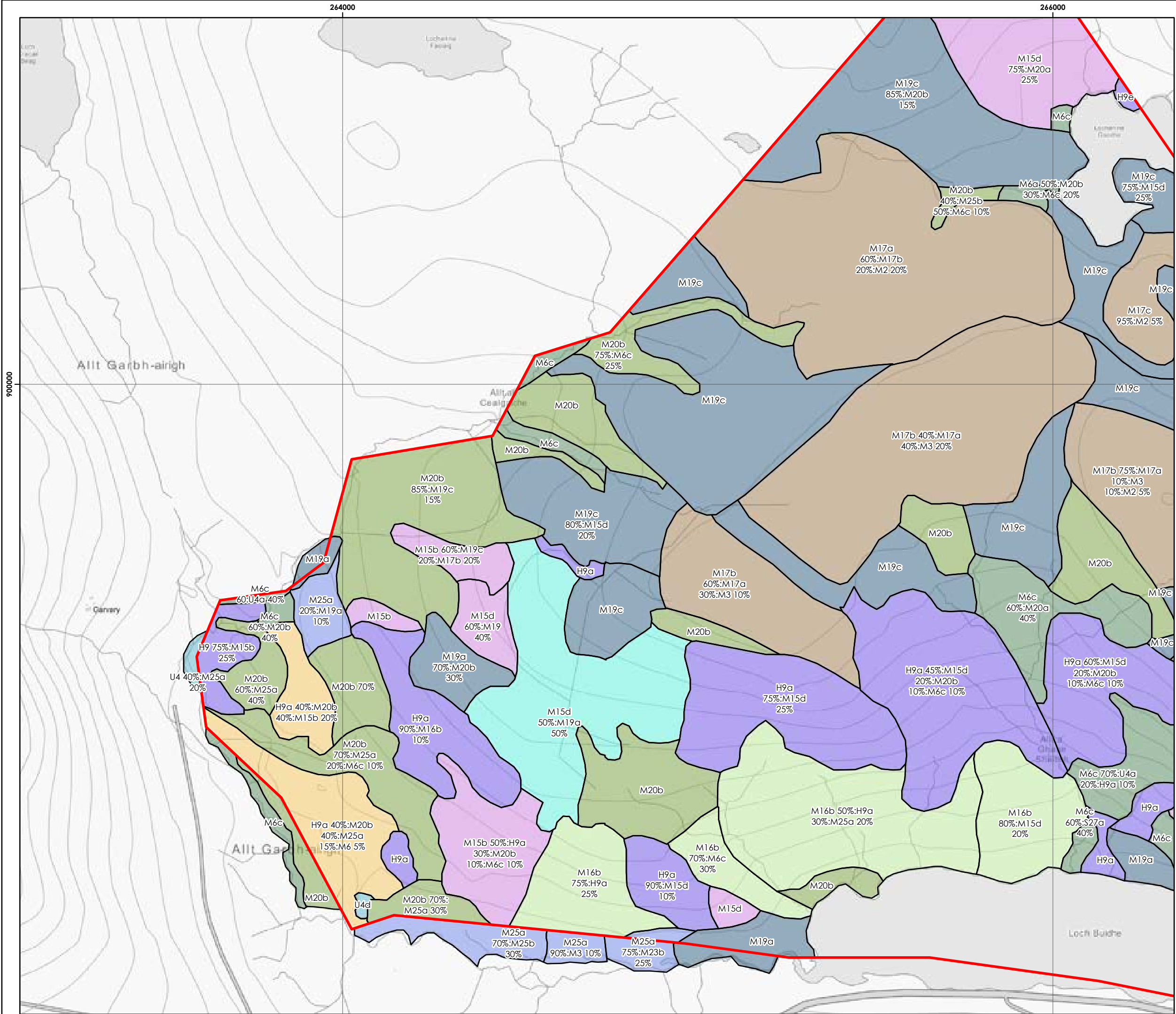
00.512

Kilometres

N

Scale @ A3:
1:47,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



Cambusmore

K R Greenland Farming

Figure 10
NVC Habitat Survey Results
Map 1

Key

Site boundary

Dominant NVC Community

- H10
- H9
- H9/M20
- M6
- M15
- M15a
- M15/M19
- M16
- M17
- M19
- M19/M16
- M20
- M23
- M25
- S9
- U20
- U4
- W11
- W18
- W4

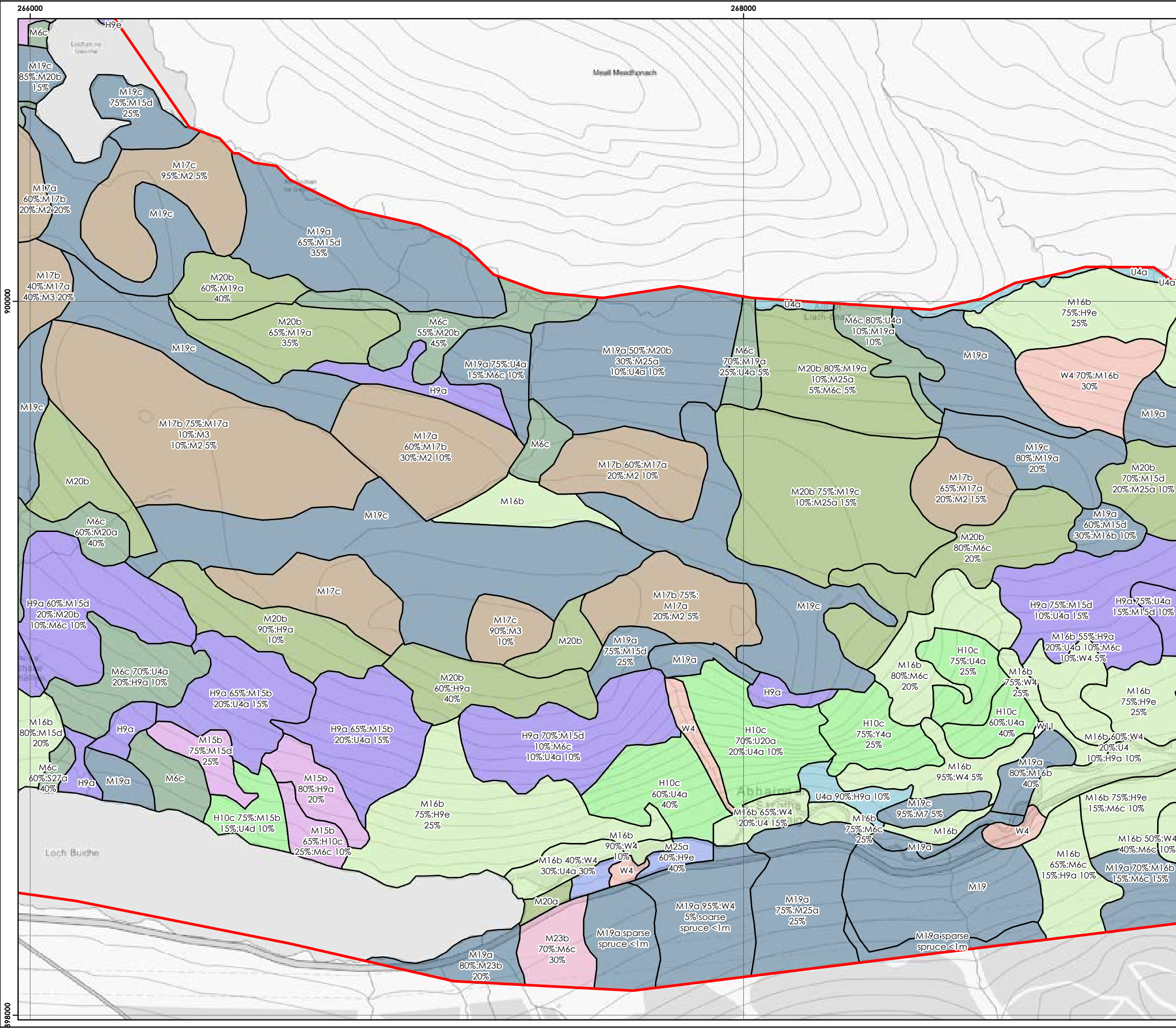


0 0.125 0.25 0.5
Kilometres

N

Scale @ A3:
1:10,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



Cambusmore

K R Greenland Farming

Figure 10
NVC Habitat Survey Results
Map 2

Key

Site boundary

Dominant NVC Community

- H10
- H9
- H9/M20
- M6
- M15
- M15a
- M15/M19
- M16
- M17
- M19
- M19/M16
- M20
- M23
- M25
- S9
- U20
- U4
- W11
- W18
- W4



0 0.125 0.25 0.5
Kilometres

N

Scale @ A3:
1:10,000



© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.

270000

272000

Cambusmore

K R Greenland Farming

Figure 10
NVC Habitat Survey Results
Map 3

Key

Site boundary

Dominant NVC Community

- H10
- H9
- H9/M20
- M6
- M15
- M15a
- M15/M19
- M16
- M17
- M19
- M19/M16
- M20
- M23
- M25
- S9
- U20
- U4
- W11
- W18
- W4

atmos
CONSULTING

0 0.125 0.25 0.5
Kilometres



Scale @ A3:
1:10,000



© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.

03/07/2019

48400/HB/005a

Drawn by: AA Checked by: TH Approved by: TW

K R Greenland Farming

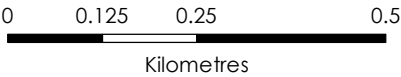
Figure 10
NVC Habitat Survey Results
Map 4

Key

Site boundary

Dominant NVC Community

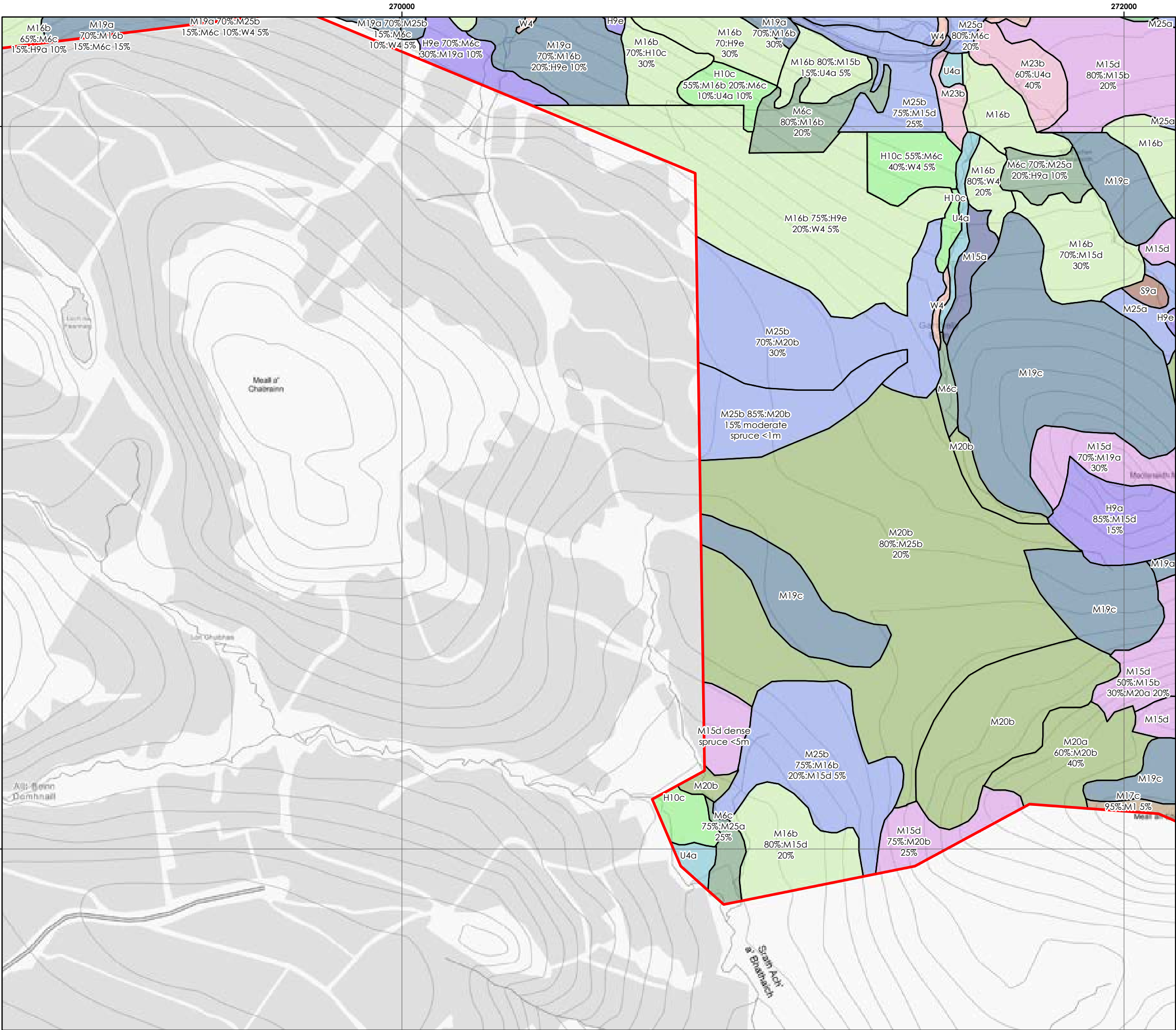
- H10
- H9
- H9/M20
- M6
- M15
- M15a
- M15/M19
- M16
- M17
- M19
- M19/M16
- M20
- M23
- M25
- S9
- U20
- U4
- W11
- W18
- W4

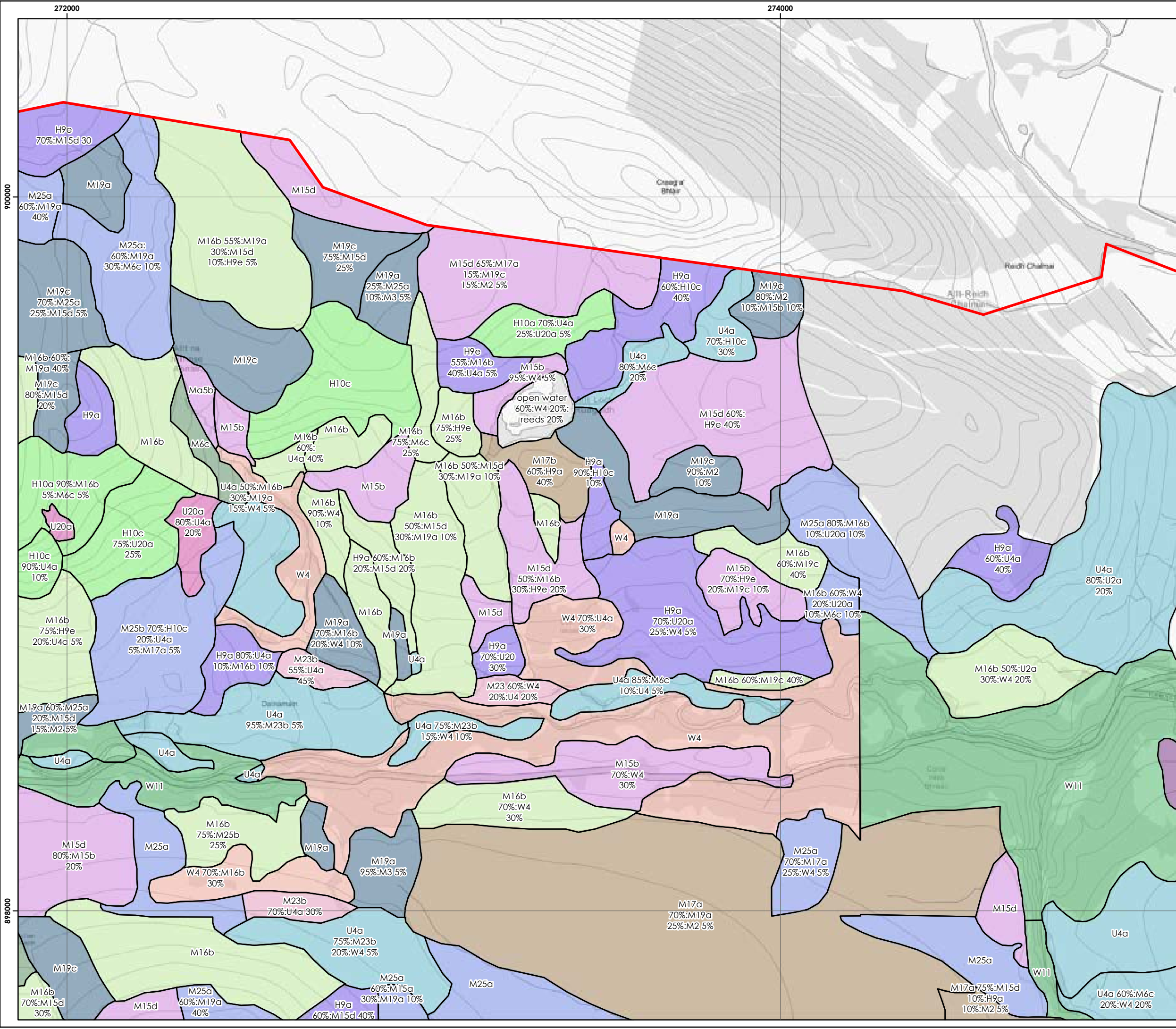


Scale @ A3:
1:10,000



© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.





Cambusmore

K R Greenland Farming

Figure 10
NVC Habitat Survey Results
Map 5

Key

Site boundary

Dominant NVC Community

- H10
- H9
- H9/M20
- M6
- M15
- M15a
- M15/M19
- M16
- M17
- M19
- M19/M16
- M20
- M23
- M25
- S9
- U20
- U4
- W11
- W18
- W4

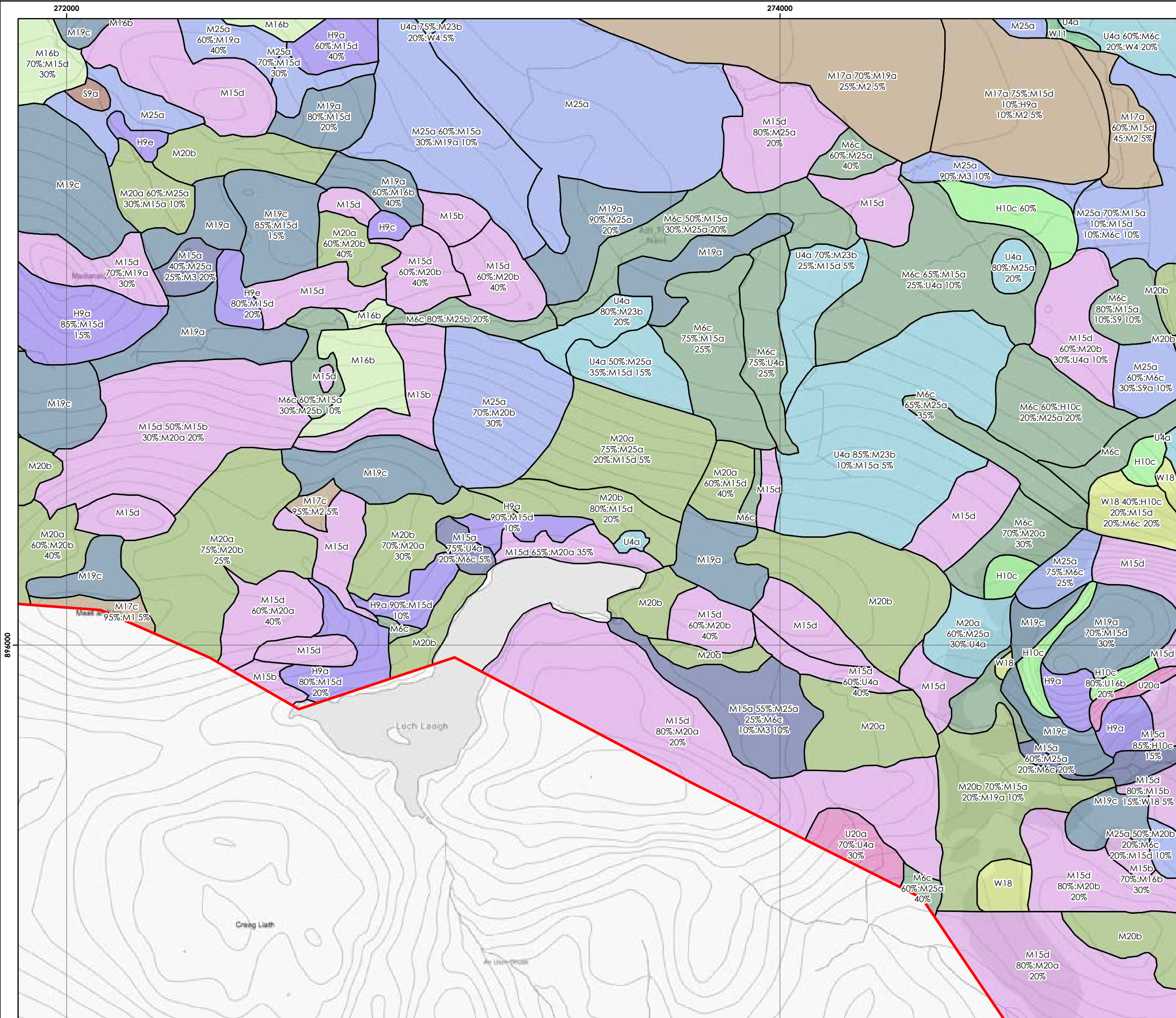


0 0.125 0.25 0.5
Kilometres

N

Scale @ A3:
1:10,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



Cambusmore

K R Greenland Farming

Figure 10
NVC Habitat Survey Results
Map 6

Key

Site boundary

Dominant NVC Community

- H10
- H9
- H9/M20
- M6
- M15
- M15a
- M15/M19
- M16
- M17
- M19
- M19/M16
- M20
- M23
- M25
- S9
- U20
- U4
- W11
- W18
- W4

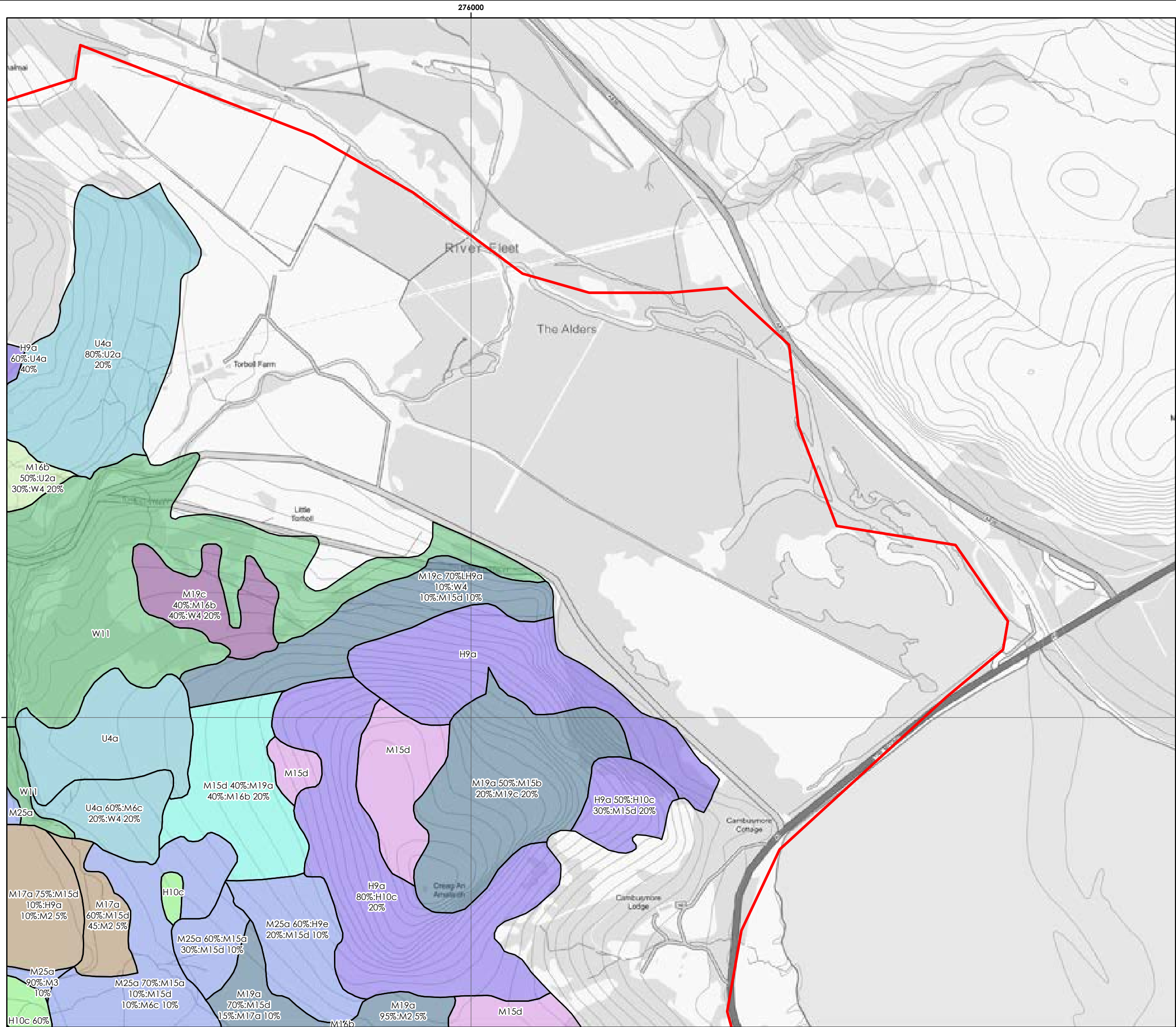


0 0.125 0.25 0.5
Kilometres

N

Scale @ A3:
1:10,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.

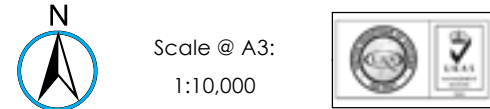
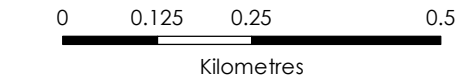


Cambusmore

K R Greenland Farming

Figure 10
NVC Habitat Survey Results
Map 7

- Key
- Site boundary
- Dominant NVC Community
- H10
 - H9
 - H9/M20
 - M6
 - M15
 - M15a
 - M15/M19
 - M16
 - M17
 - M19
 - M19/M16
 - M20
 - M23
 - M25
 - S9
 - U20
 - U4
 - W11
 - W18
 - W4



© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.

Cambusmore

K R Greenland Farming

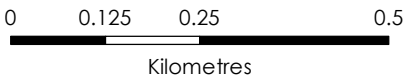
Figure 10
NVC Habitat Survey Results
Map 8

Key

Site boundary

Dominant NVC Community

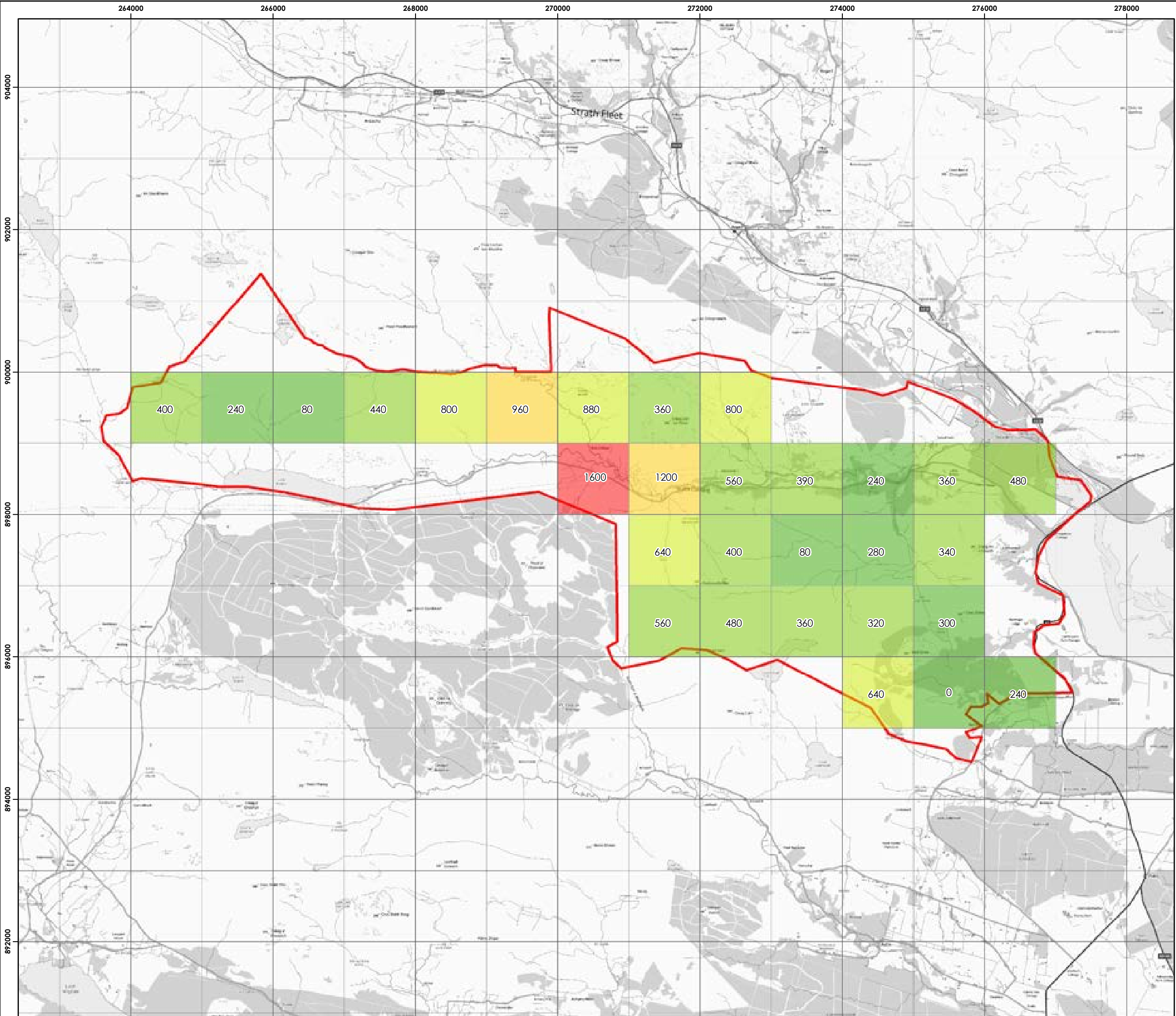
- H10
- H9
- H9/M20
- M6
- M15
- M15a
- M15/M19
- M16
- M17
- M19
- M19/M16
- M20
- M23
- M25
- S9
- U20
- U4
- W11
- W18
- W4



Scale @ A3:
1:10,000



© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



Cambusmore

K R Greenland Farming

Figure 11a
Prey Availability
Meadow Pipits

Key

Site boundary

Meadow pipits per square km

 0 - 300
 301 - 600
 601 - 900
 901 - 1200
 1201 - 1500
 1501 - 1800



00.512

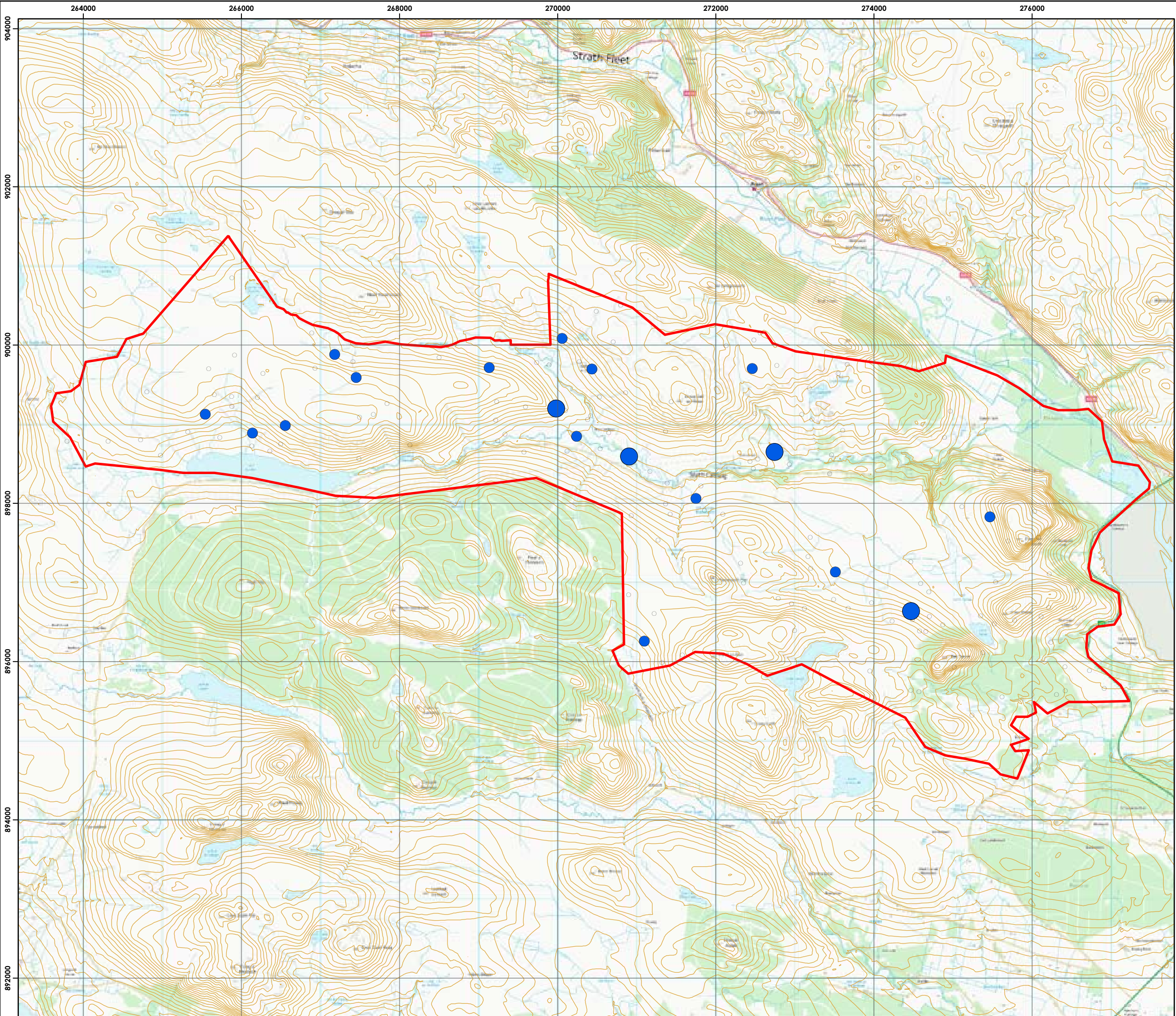
Kilometres

N

Scale @ A3:

1:50,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



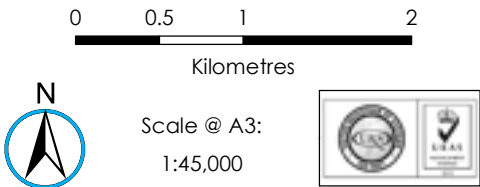
Cambusmore

K R Greenland Farming

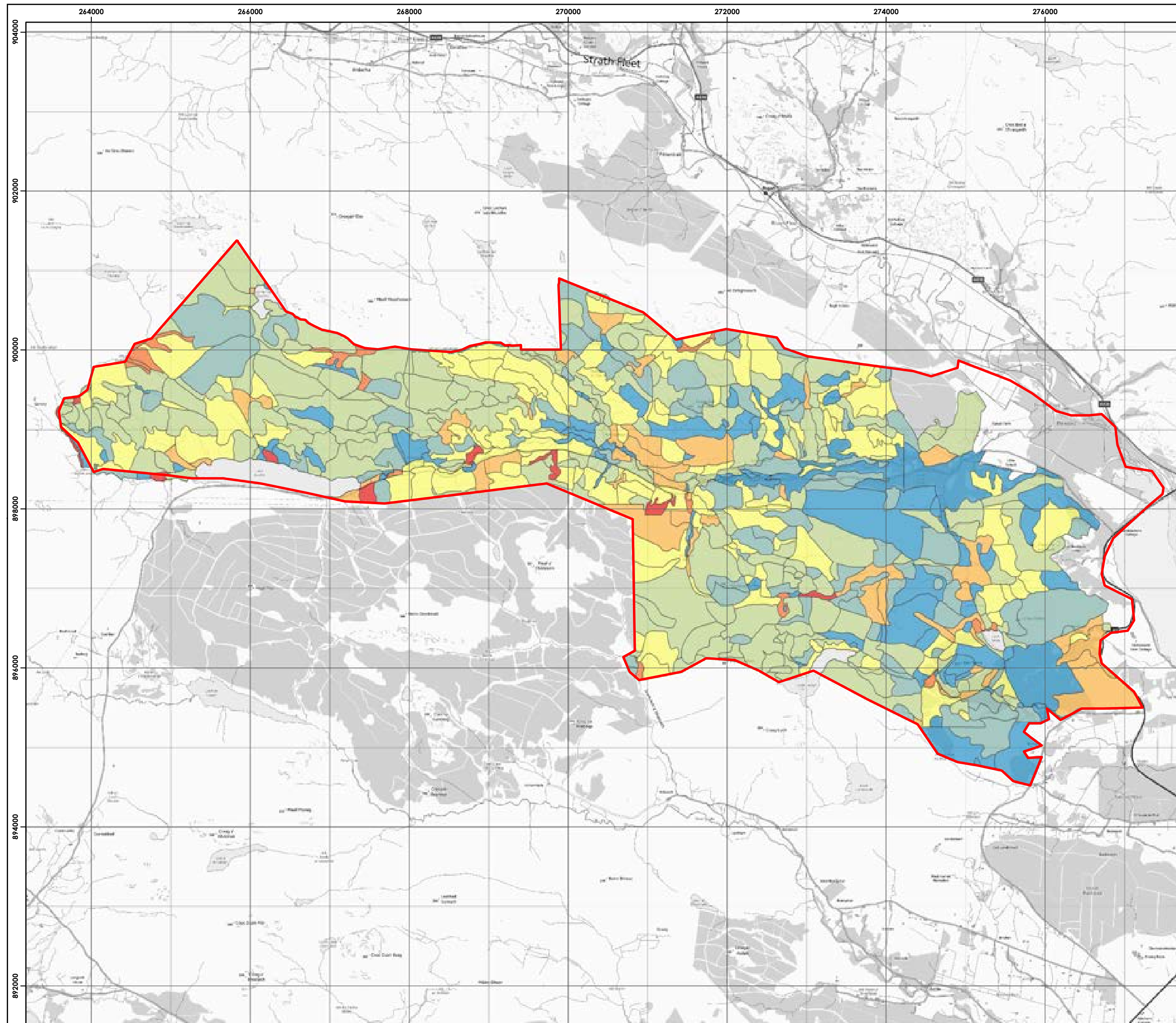
Figure 11b
Prey Availability
Voles

Key

- Site boundary
- Vole Score 0
- Vole Score 1
- Vole Score 2



© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



Cambusmore

K R Greenland Farming

Figure 12
Mean Graminoid Height

Key

 Site boundary

Average Graminoid Height

-  ≤ 10cm
-  11 - 20cm
-  21 - 30cm
-  31 - 40cm
-  41 - 50cm
-  51 - 60cm
-  > 60cm

atmos
CONSULTING

0 0.5 1 2
Kilometres



Scale @ A3:
1:45,000

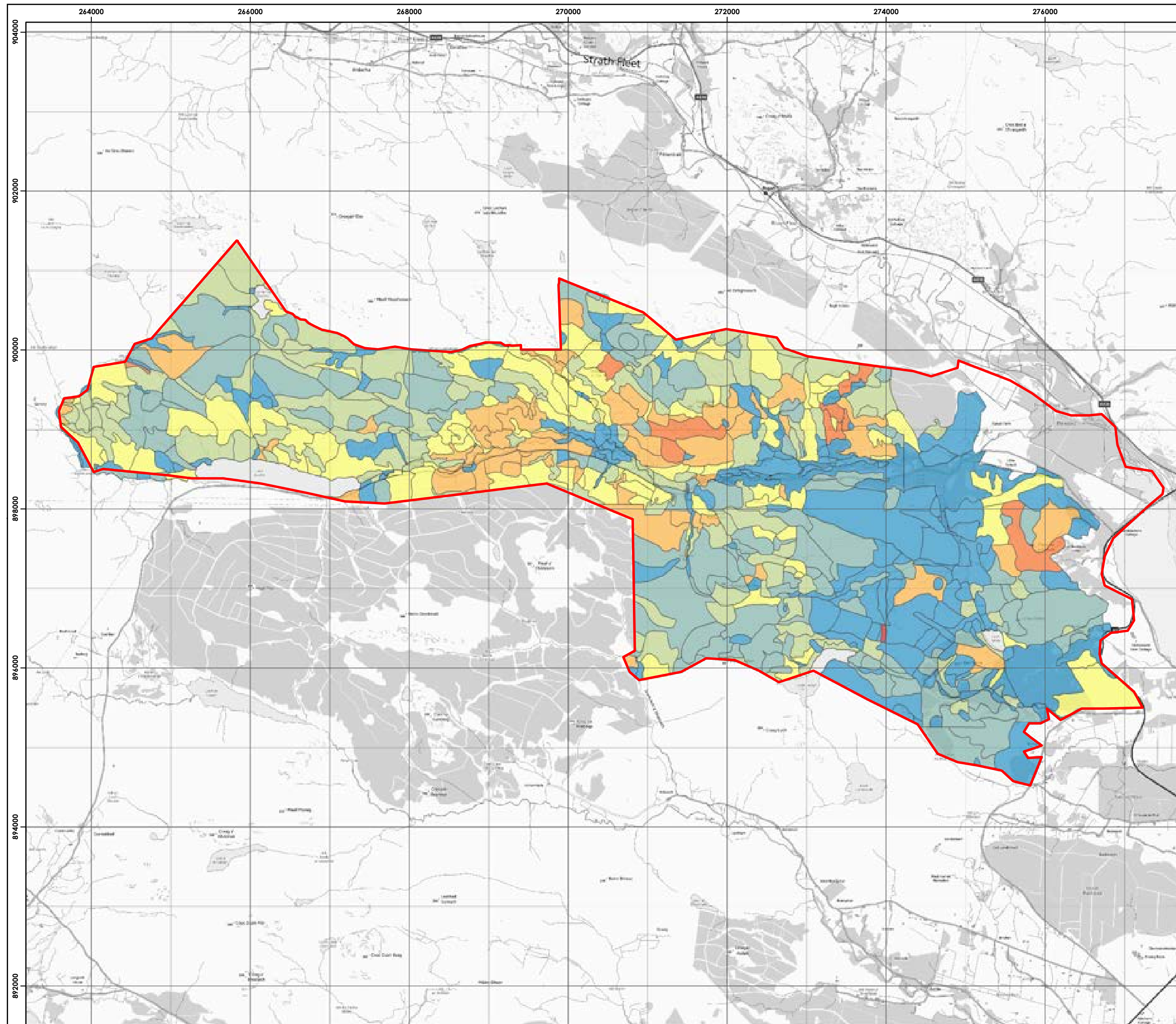


© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.

03/07/2019

48400/HB/017a

Drawn by: AA Checked by: TH Approved by: TW



Cambusmore

K R Greenland Farming

Figure 13
Mean Dwarf Shrub Height

Key

 Site boundary

Average Dwarf Shrub Height

-  <= 10cm
-  11 - 20cm
-  21 - 30cm
-  31 - 40cm
-  41 - 50cm
-  51 - 60cm
-  >60cm

atmos
CONSULTING

0 0.5 1 2
Kilometres



Scale @ A3:
1:45,000

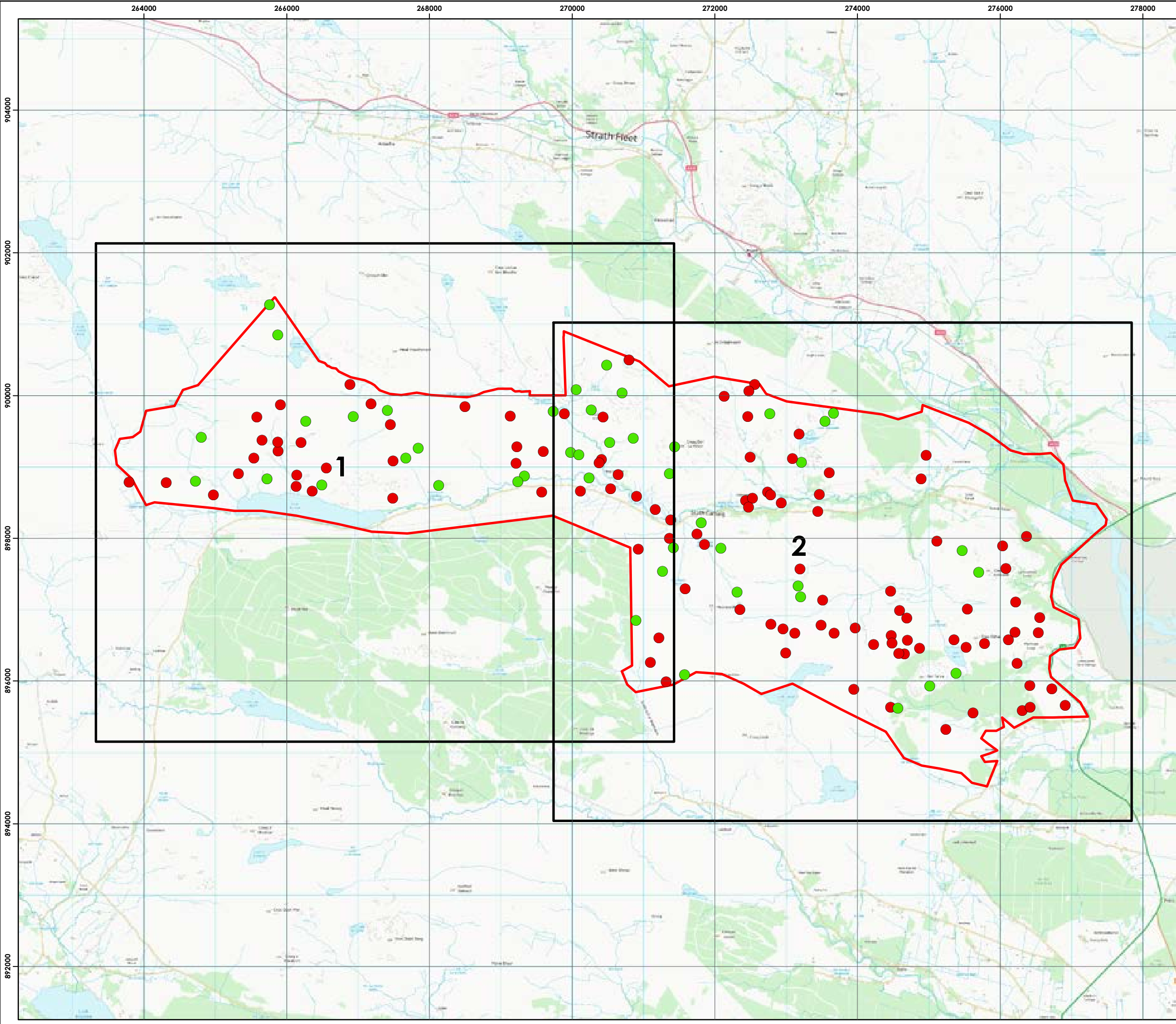


© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.

03/07/2019

48400/HB/016a

Drawn by: AA Checked by: TH Approved by: TW



Cambusmore

K R Greenland Farming

Figure 14
Common Standards Monitoring
Results - Overview

- Key
- Site boundary
 - CSM Pass
 - CSM Fail



00.512

Kilometres

N

Scale @ A3:
1:50,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.

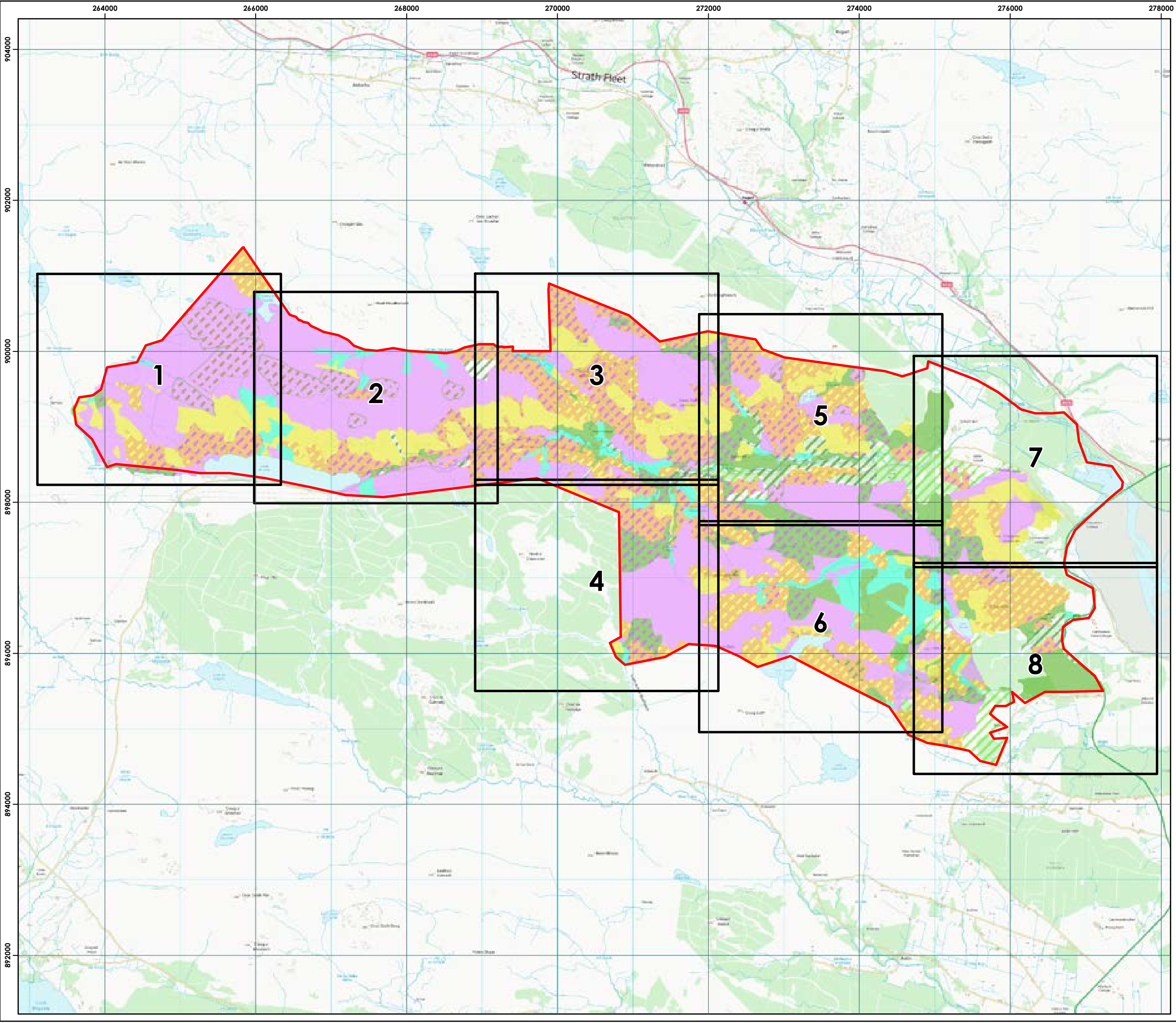
K R Greenland Farming

Key

- 



03/07/2019	48400/HB/014a
Drawn by: AA	Checked by: TH Approved by: TW



Cambusmore

K R Greenland Farming

Figure 15
Habitat Summary Map
Overview

Key

- Site boundary
- Dominant NVC Community
 - Acid Grassland
 - Native Pine Forest
 - Native Broad-leaved Woodland
 - Dry Heath
 - Deer Grass Dominated Wet Heath
 - Sedge Dominated Wet Heath
 - Purple Moor Grass Dominated Wet Heath
 - Purple Moor Grass Dominated Grassland
 - Soft Rush Dominated Flush
 - Blanket Bog
 - Blanket Bog with pool system



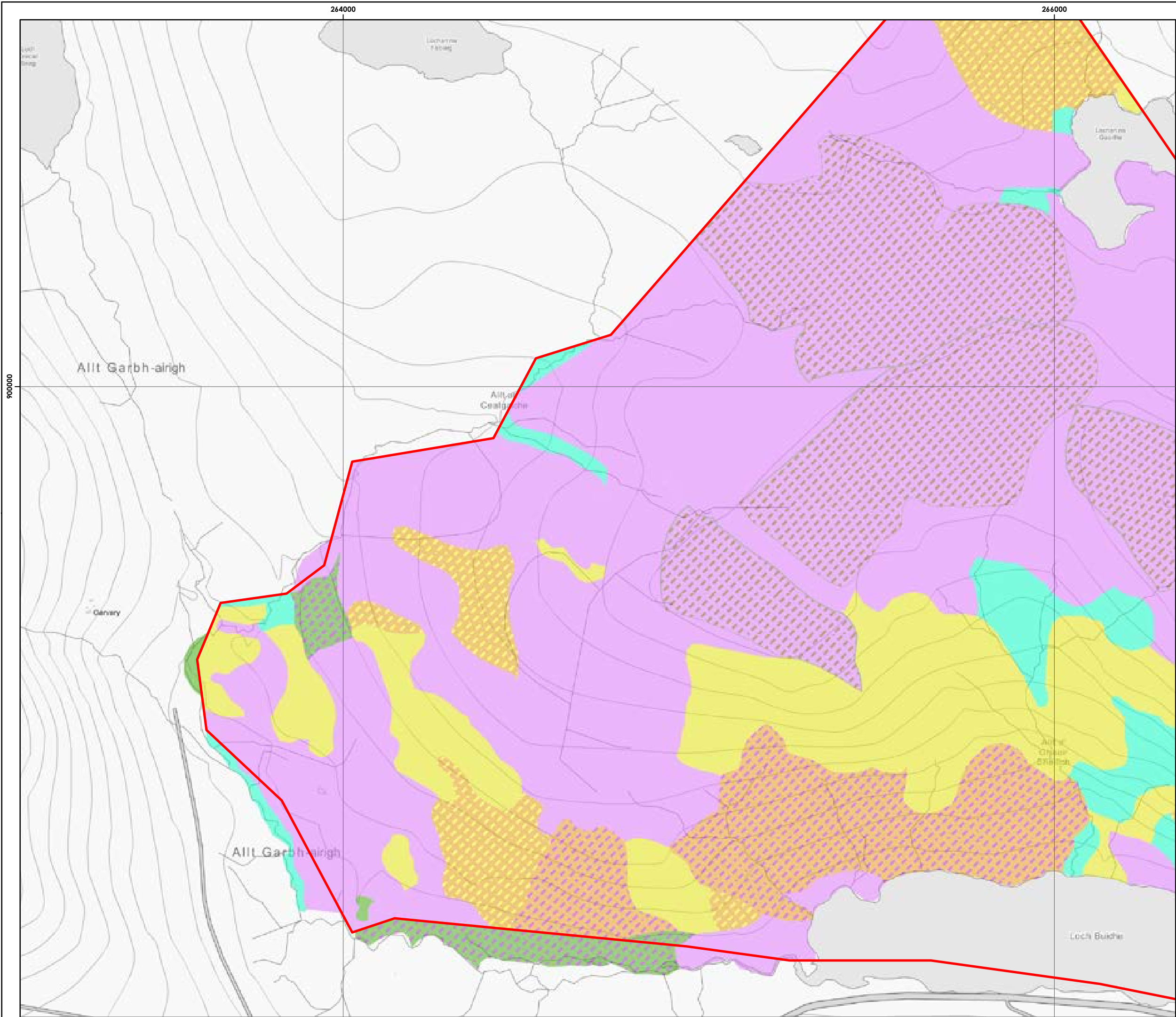
00.512

Kilometres

N

Scale @ A3:
1:47,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



Cambusmore

K R Greenland Farming

Figure 15
Habitat Summary Map
Map 1

Key

Site boundary

Dominant NVC Community

- Acid Grassland
- Native Pine Forest
- Native Broad-leaved Woodland
- Dry Heath
- Deer Grass Dominated Wet Heath
- Sedge Dominated Wet Heath
- Purple Moor Grass Dominated Wet Heath
- Purple Moor Grass Dominated Grassland
- Soft Rush Dominated Flush
- Blanket Bog
- Blanket Bog with pool system

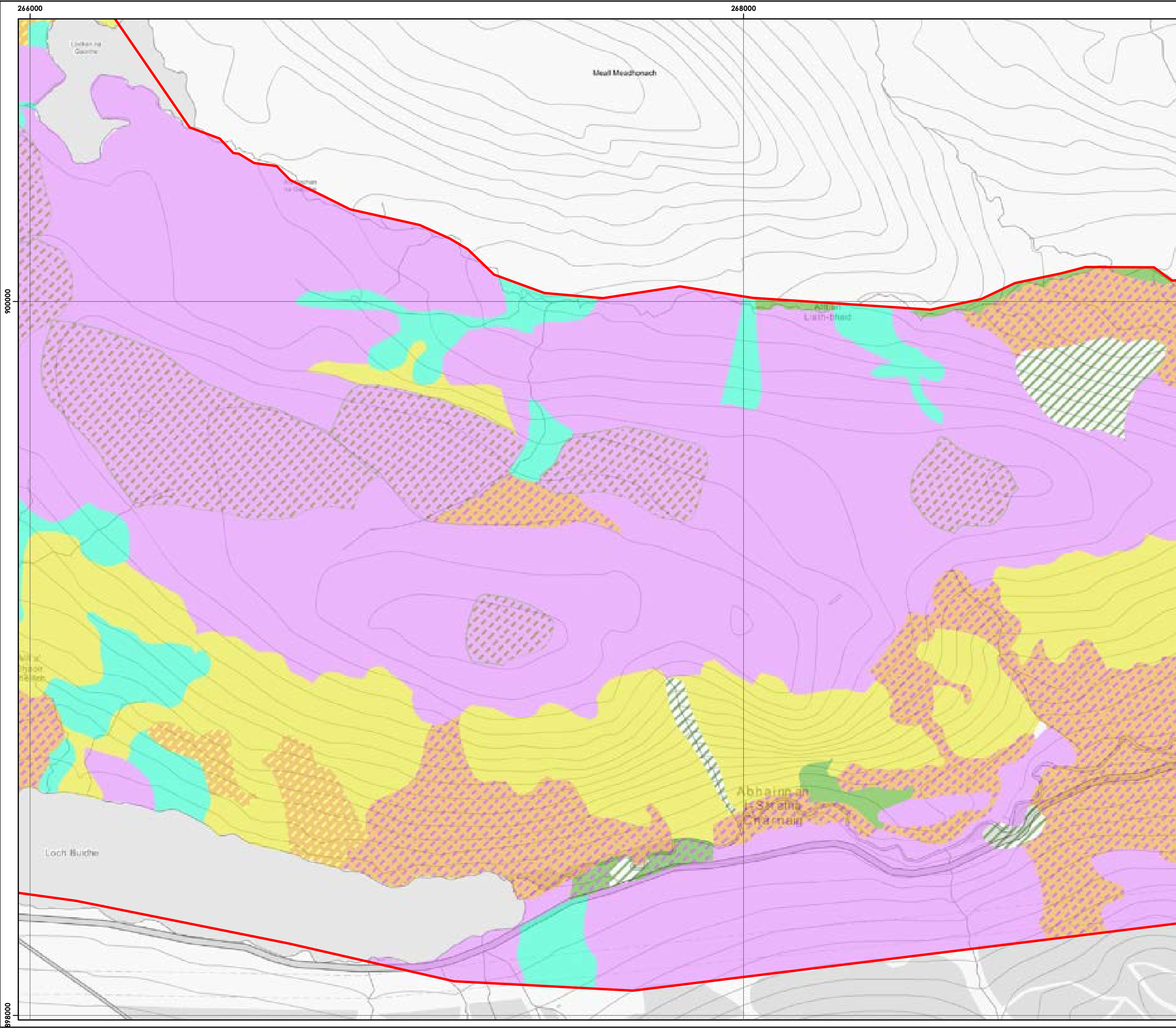


0 0.125 0.25 0.5
Kilometres

N

Scale @ A3:
1:10,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



Cambusmore

K R Greenland Farming

Figure 15
Habitat Summary Map
Map 2

- Key
- Site boundary
 - Dominant NVC Community
 - Acid Grassland
 - Native Pine Forest
 - Native Broad-leaved Woodland
 - Dry Heath
 - Deer Grass Dominated Wet Heath
 - Sedge Dominated Wet Heath
 - Purple Moor Grass Dominated Wet Heath
 - Purple Moor Grass Dominated Grassland
 - Soft Rush Dominated Flush
 - Blanket Bog
 - Blanket Bog with pool system



00.1250.250.5

Kilometres

N

Scale @ A3:
1:10,000

270000

272000

900000

Cambusmore

K R Greenland Farming

Figure 15
Habitat Summary Map
Map 3

Key

 Site boundary

Dominant NVC Community

-  Acid Grassland
-  Native Pine Forest
-  Native Broad-leaved Woodland
-  Dry Heath
-  Deer Grass Dominated Wet Heath
-  Sedge Dominated Wet Heath
-  Purple Moor Grass Dominated Wet Heath
-  Purple Moor Grass Dominated Grassland
-  Soft Rush Dominated Flush
-  Blanket Bog
-  Blanket Bog with pool system

atmos
CONSULTING

0 0.125 0.25 0.5
Kilometres



Scale @ A3:
1:10,000



© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.

03/07/2019

48400/HB/011a

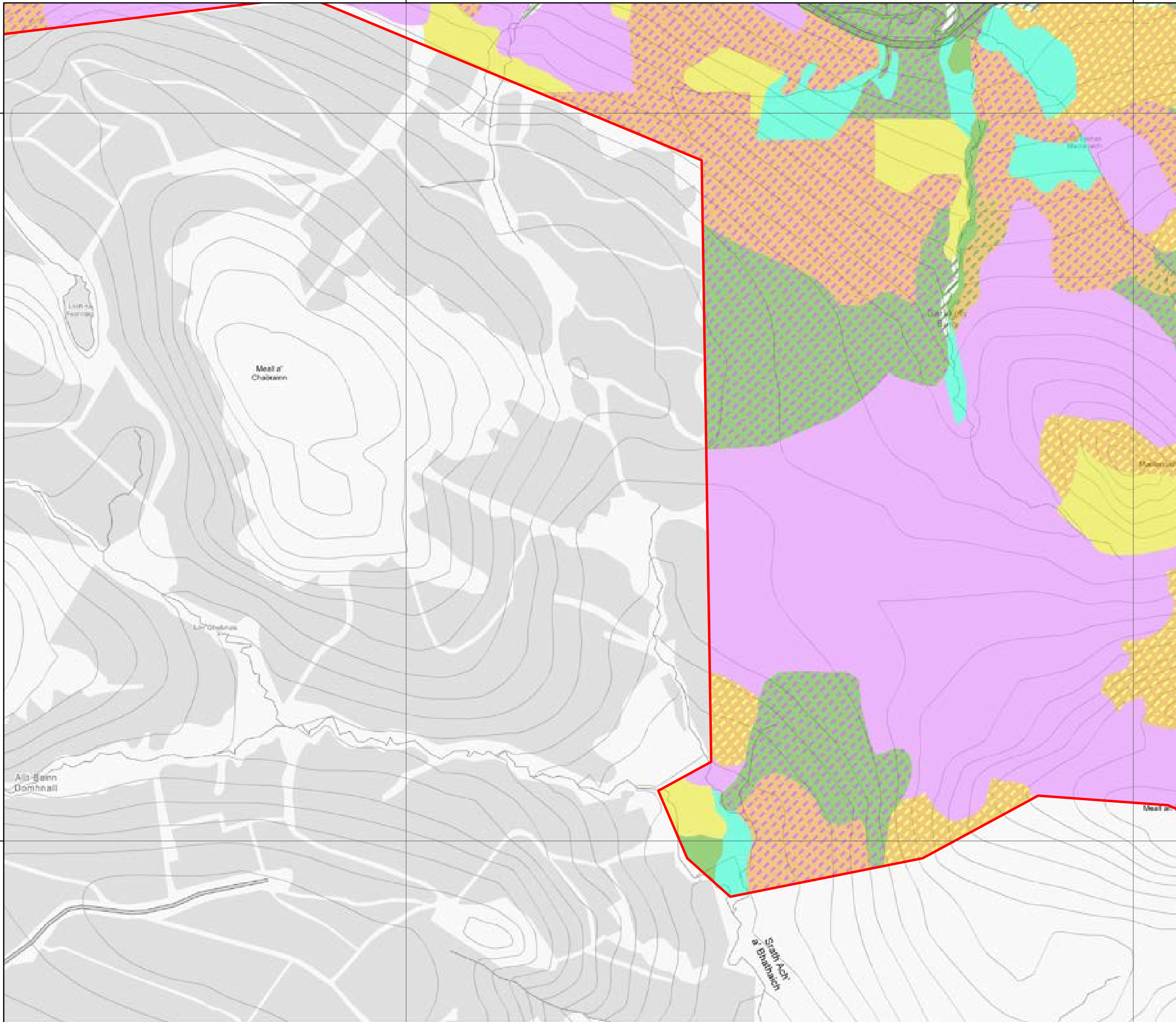
Drawn by: AA Checked by: TH Approved by: TW

270000

272000

898000

896000



Cambusmore

K R Greenland Farming

Figure 15
Habitat Summary Map
Map 4

Key

 Site boundary

Dominant NVC Community

-  Acid Grassland
-  Native Pine Forest
-  Native Broad-leaved Woodland
-  Dry Heath
-  Deer Grass Dominated Wet Heath
-  Sedge Dominated Wet Heath
-  Purple Moor Grass Dominated Wet Heath
-  Purple Moor Grass Dominated Grassland
-  Soft Rush Dominated Flush
-  Blanket Bog
-  Blanket Bog with pool system

atmos
CONSULTING

0 0.125 0.25 0.5
Kilometres



Scale @ A3:
1:10,000

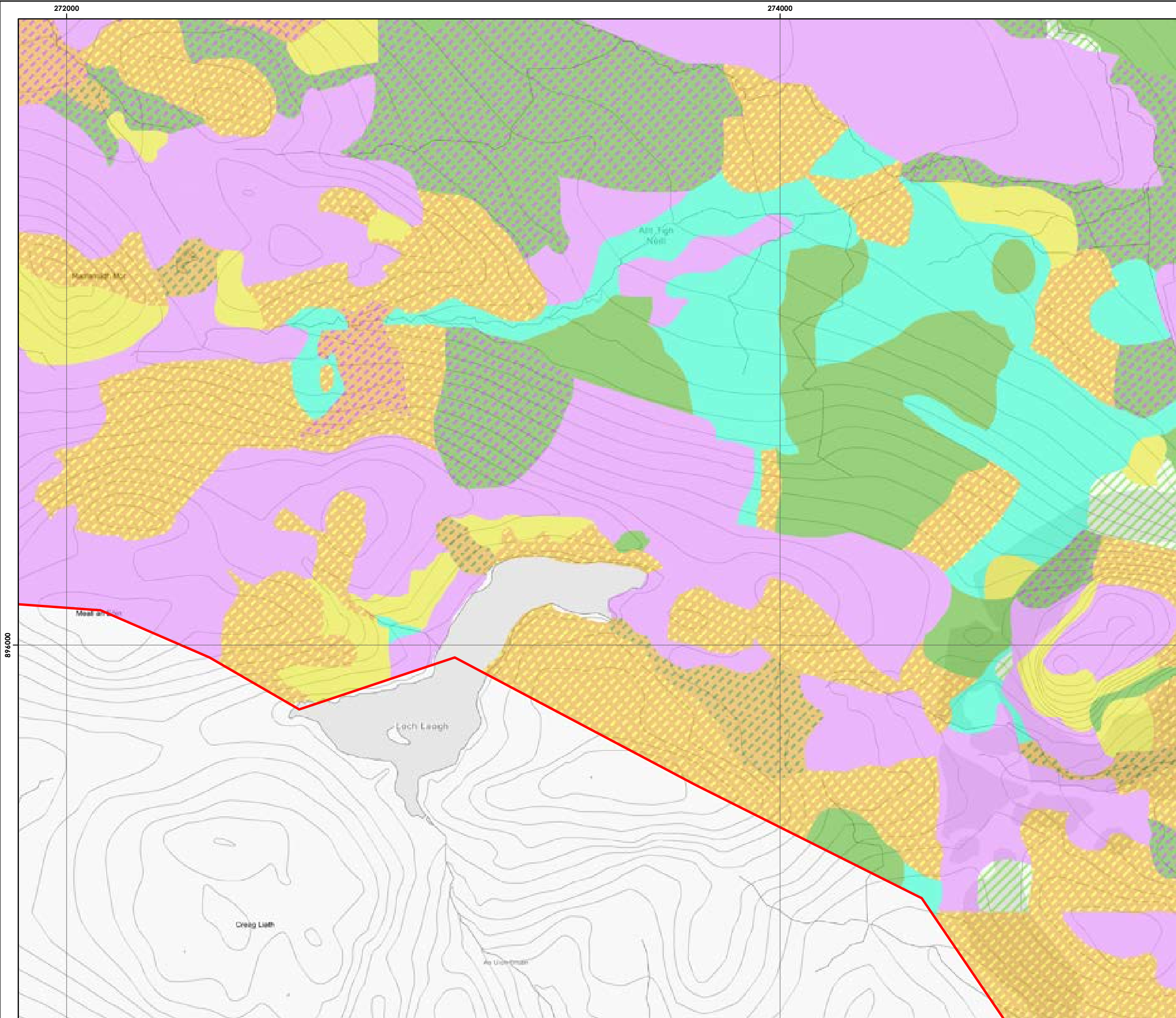


© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.

03/07/2019

48400/HB/011a

Drawn by: AA Checked by: TH Approved by: TW



Cambusmore

K R Greenland Farming

Figure 15
Habitat Summary Map
Map 6

Key

- Site boundary
- Dominant NVC Community
 - Acid Grassland
 - Native Pine Forest
 - Native Broad-leaved Woodland
 - Dry Heath
 - Deer Grass Dominated Wet Heath
 - Sedge Dominated Wet Heath
 - Purple Moor Grass Dominated Wet Heath
 - Purple Moor Grass Dominated Grassland
 - Soft Rush Dominated Flush
 - Blanket Bog
 - Blanket Bog with pool system



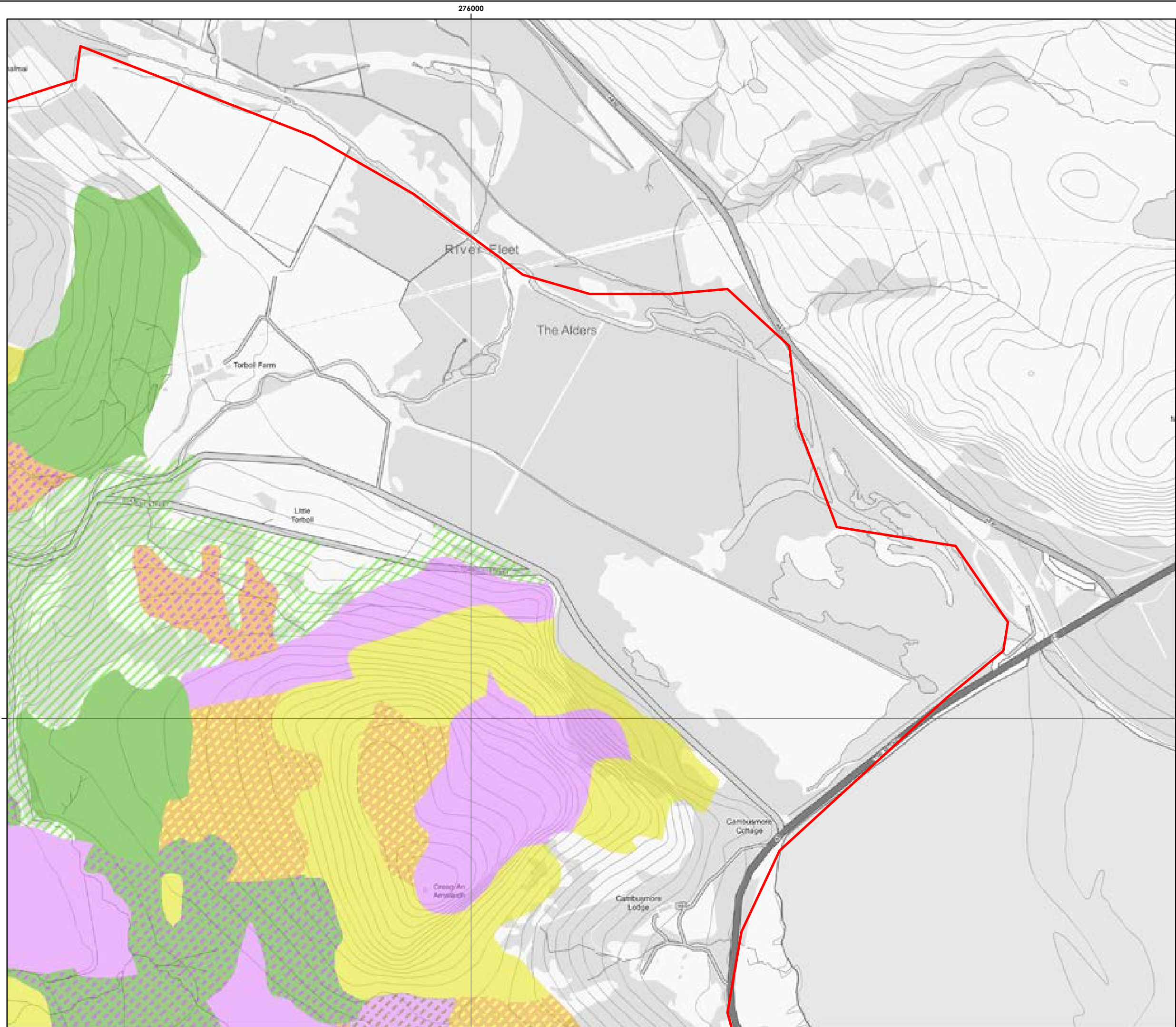
00.1250.250.5

Kilometres

N

Scale @ A3:
1:10,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



Cambusmore

K R Greenland Farming

Figure 15
Habitat Summary Map
Map 7

- Key
- Site boundary
 - Dominant NVC Community
 - Acid Grassland
 - Native Pine Forest
 - Native Broad-leaved Woodland
 - Dry Heath
 - Deer Grass Dominated Wet Heath
 - Sedge Dominated Wet Heath
 - Purple Moor Grass Dominated Wet Heath
 - Purple Moor Grass Dominated Grassland
 - Soft Rush Dominated Flush
 - Blanket Bog
 - Blanket Bog with pool system



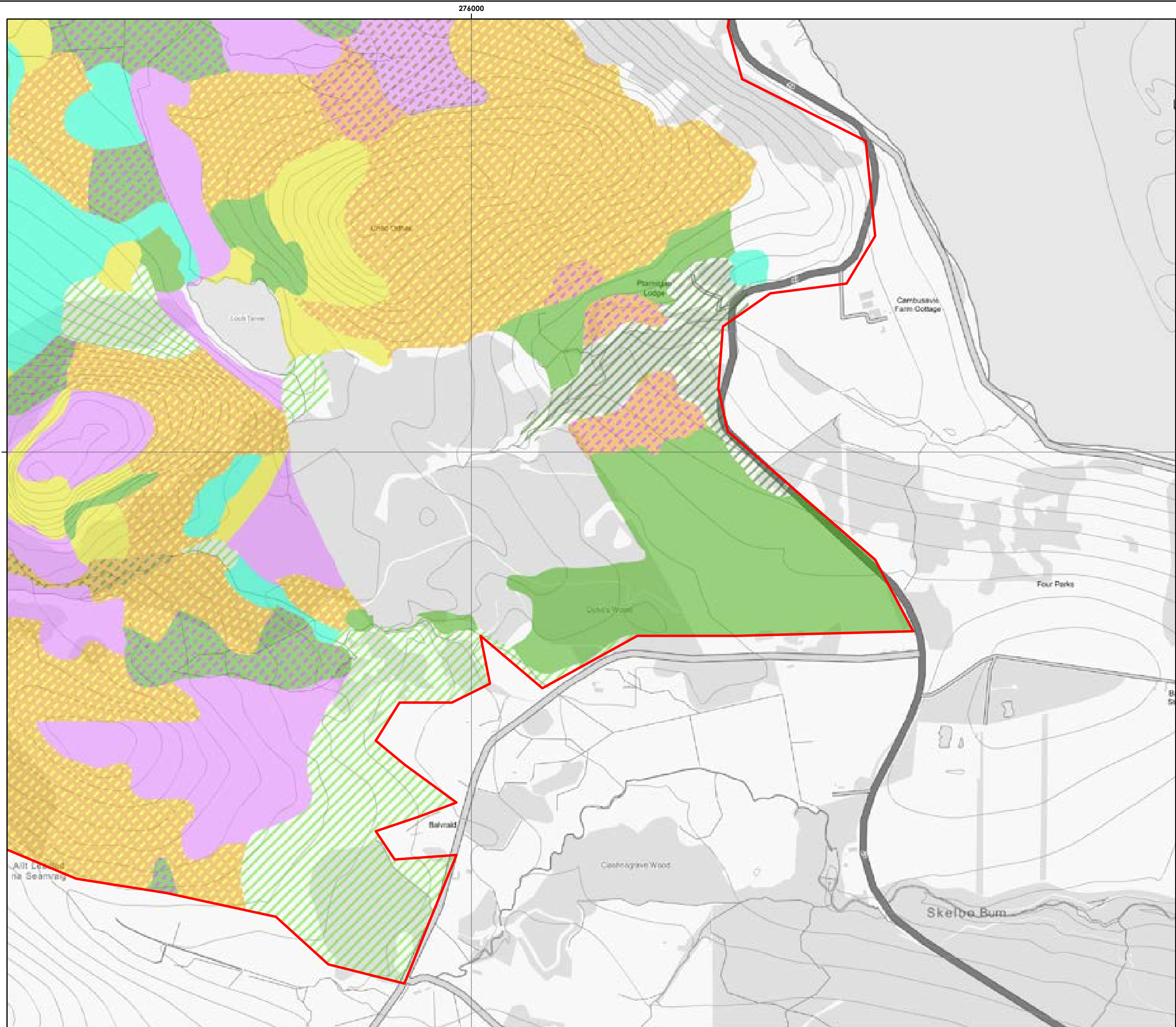
00.1250.250.5

Kilometres

N

Scale @ A3:
1:10,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



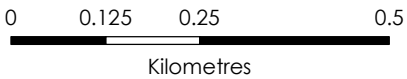
Cambusmore

K R Greenland Farming

Figure 15
Habitat Summary Map
Map 8

Key

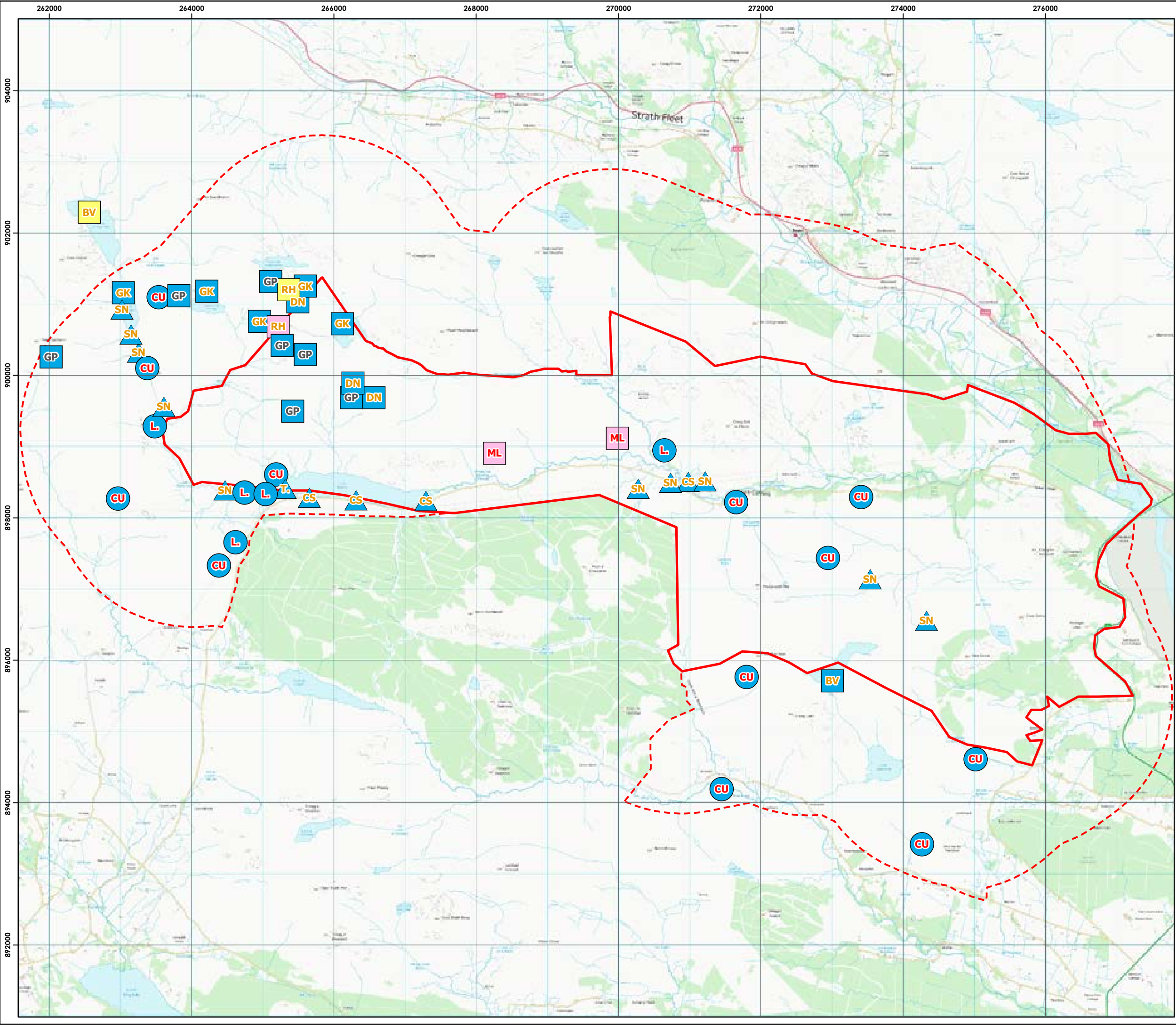
- Site boundary
- Dominant NVC Community
 - Acid Grassland
 - Native Pine Forest
 - Native Broad-leaved Woodland
 - Dry Heath
 - Deer Grass Dominated Wet Heath
 - Sedge Dominated Wet Heath
 - Purple Moor Grass Dominated Wet Heath
 - Purple Moor Grass Dominated Grassland
 - Soft Rush Dominated Flush
 - Blanket Bog
 - Blanket Bog with pool system



Scale @ A3:
1:10,000



© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.



Cambusmore

K R Greenland Farming

Figure 16
Other Notable Species
Breeding Territories

Key

Site boundary
Survey area

Category

Schedule 1/Annex 1
Scottish Priority Species
Not designated

Breeding Status

Confirmed
Probable
Possible

Red listed species - BOCC
Amber listed species - BOCC

atmos CONSULTING

0 0.5 1 2
Kilometres

N

Scale @ A3:
1:50,000

© Crown copyright 2019. All rights reserved.
Ordnance survey licence number 100048146.