
Technical Appendix 6.8: Habitat and Relevé Plates

Plates illustrating the range of habitats at the Barnesmore Windfarm Development Site can be seen below.

The typical range of habitat features found at Barnesmore Wind Farm are shown in the following photographs. The tables below then depict and describe in more detail each of the areas where Relevé surveys were carried out.



Plate 6.7.1 and 6.7.2 – Wet heath and acid grassland flush; degraded cutover bog



Plate 6.7.3 and 6.7.4 – Upland grassland; eroding upland stream



Plate 6.7.5 and 6.7.6 – Wet flush vegetation; narrow roadside stream



Plate 6.7.7 and 6.7.8 – Mosaic of peat grassland & flush vegetation; typical roadside verge



Plate 6.7.9 and 6.7.10 – Siliceous exposed rock face adjacent to roadside; wet drain close to access road



Plate 6.7.11 and 6.7.12 – Bog habitat in the vicinity of the communications mast; mosaic of habitats




Plate 6.7.13 and 6.7.14 – Wet heath habitat; hillside containing wet heath and montane heath





Plate 6.7.15 and 6.7.16 – Upland grassland adjacent to road; gravel area next to a turbine (hardstand)





Plate 6.7.17 and 6.7.18 – Blanket bog; blanket bog with an area of bare, eroding peat


Quadrat 1 (T1)		
Barnesmore		
Shallow peat, vegetation dominated by graminoids and ericoids, with significant bryophyte cover, especially <i>Racomitrium</i> . Ground is solid and reasonably dry underfoot. Ericoids are low-growing due to exposed nature of site.		
		
Date	16-9-2019	
Size (m)	2 x 2	
Slope	Gentle	
Aspect	SE	
Vegetation height mean/max (cm)	12/35	
Ericoid cover (%)	25	
Graminoid cover (%)	45	
Bryophyte cover (%)	35	
Herbaceous cover (%)	12	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth 10cm	
Species in Quadrat	% cover	DOMIN
<i>Narthecium ossifragum</i>	10	4
<i>Calluna vulgaris</i>	15	5
<i>Erica tetralix</i>	5	4
<i>Erica cinerea</i>	5	4
<i>Eriophorum angustifolium</i>	8	4
<i>Molinia caerulea</i>	30	6
<i>Potentilla erecta</i>	<4	3
<i>Racomitrium lanuginosum</i>	30	6
<i>Agrostis canina</i>	<4	3
<i>Juncus squarrosus</i>	<4	2
<i>Cladonia</i> sp.	<4	1
<i>Tricophorum caespitosum</i>	5	4
<i>Polygala serpyllifolium</i>	<4	1
<i>Pleurozia purpurea</i>	<4	3
<i>Plagiochila asplenioides</i>	<4	1
Other species noted in area close to quadrat: <i>Juncus effuses</i> , <i>Sphagnum tenellum</i> , <i>S. capillifolium</i>		


Quadrat 2 (T2)		
Barnesmore		
Deep peat, with lowish vegetation dominated by graminoids. Well-developed bryophyte community, mostly as an underlayer to the vascular plants. Some wetter areas nearby, dominated by bryophytes.		
		
Date	16-9-2019	
Size (m)	2 x 2	
Slope	Level	
Aspect	NA	
Vegetation height mean/max (cm)	10/25	
Ericoid cover (%)	10	
Graminoid cover (%)	80	
Bryophyte cover (%)	55	
Herbaceous cover (%)	8	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth >1m	
Species in Quadrat	% cover	DOMIN
<i>Tricophorum caespitosum</i>	15	5
<i>Narthecium ossifragum</i>	5	4
<i>Calluna vulgaris</i>	8	4
<i>Erica tetralix</i>	<4	3
<i>Cladonia</i> sp.	<4	3
<i>Eriophorum vaginatum</i>	25	5
<i>Molinia caerulea</i>	40	7
<i>Potentilla erecta</i>	<4	3
<i>Racomitrium lanuginosum</i>	15	5
<i>Sphagnum capillifolium</i>	5	4
<i>Pleurozia purpurea</i>	<4	3
Other species noted in area close to quadrat:		
<i>Carex</i> sp. (no flowers present)		


Quadrat 3 (T3) Barnesmore		
Low-growing ericoids and graminoids on rather shallow peat, overlooking a small lake. Substantial underlayer of close-growing mosses.		
		
Date	16-9-2019	
Size (m)	2 x 2	
Slope	Level	
Aspect	NA	
Vegetation height mean/max (cm)	10/22	
Ericoid cover (%)	70	
Graminoid cover (%)	20	
Bryophyte cover (%)	60	
Herbaceous cover (%)	5	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth 35cm	
Species in Quadrat	% cover	DOMIN
<i>Calluna vulgaris</i>	65	8
<i>Molinia caerulea</i>	15	5
<i>Vaccinium myrtillus</i>	5	4
<i>Potentilla erecta</i>	5	4
<i>Rhytidiadelphus squarrosus</i>	5	4
<i>Juncus squarrosus</i>	<4	3
<i>Sphagnum capillifolium</i>	30	6
<i>Sphagnum fallax</i>	20	5
<i>Agrostis stolonifera</i>	<4	3
<i>Pedicularis sylvatica</i>	<4	1
<i>Cladonia</i> sp.	<4	3
<i>Nardus stricta</i>	<1	1
Other species noted in area close to quadrat: <i>Tricophorum caespitosum</i> , <i>Polygala serpyllifolia</i> , <i>Polytrichum commune</i> , <i>Galium saxatile</i> , <i>Blechnum spicant</i> , <i>Racomitrium lanuginosum</i>		


Quadrat 4 (T4) Barnesmore		
Lowish vegetation on shallow peat, dominated by graminoids and ericoids, with a very substantial bryophyte underlayer and some conspicuous cushions of <i>Racomitrium</i> . Rather wet underfoot.		
		
Date	17-9-2019	
Size (m)	2 x 2	
Slope	Gentle	
Aspect	W	
Vegetation height mean/max (cm)	25/55	
Ericoid cover (%)	30	
Graminoid cover (%)	40	
Bryophyte cover (%)	80	
Herbaceous cover (%)	<4	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth 26cm	
Species in Quadrat	% cover	DOMIN
<i>Calluna vulgaris</i>	25	5
<i>Tricophorum caespitosum</i>	25	5
<i>Molinia caerulea</i>	15	5
<i>Erica tetralix</i>	<4	3
<i>Erica cinerea</i>	<4	3
<i>Potentilla erecta</i>	<4	3
<i>Racomitrium lanuginosum</i>	45	7
<i>Pleurozia purpurea</i>	35	7
<i>Cladonia</i> sp.	<4	3
<i>Polygala serpyllifolia</i>	<4	1
<i>Plagiochila asplenioides</i>	<4	1
Other species noted in area close to quadrat:		
<i>Narthecium ossifragum</i>		
<i>Campylopus introflexus</i>		
<i>Dicranum scoparium</i>		
<i>Sphagnum palustre</i>		
<i>Juncus squarrosus</i>		
<i>Rhytidiadelphus squarrosus</i>		


Quadrat 5 (T5) Barnesmore		
An area of deep peat, wet underfoot, with high bryophyte cover. A few small bog pools are present in this general area, and occasional isolated clumps of <i>Juncus effusus</i> .		
		
Date	16-9-2019	
Size (m)	2 x 2	
Slope	Level	
Aspect	NA	
Vegetation height mean/max (cm)	15/25	
Ericoid cover (%)	20	
Graminoid cover (%)	60	
Bryophyte cover (%)	70	
Herbaceous cover (%)	6	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth 90cm	
Species in Quadrat	% cover	DOMIN
<i>Molinia caerulea</i>	30	6
<i>Eriophorum angustifolium</i>	20	5
<i>Calluna vulgaris</i>	18	5
<i>Racomitrium lanuginosum</i>	50	7
<i>Cladonia</i> sp.	<4	1
<i>Trichophorum caespitosa</i>	<4	3
<i>Erica tetralix</i>	<4	3
<i>Potentilla erecta</i>	<4	3
<i>Narthecium ossifragum</i>	<4	3
<i>Rhytidiadelphus squarrosus</i>	18	5
<i>Eriophorum vaginatum</i>	8	4
<i>Pleurozia purpurea</i>	<4	3
Other species noted in area close to quadrat:		
<i>Sphagnum palustre</i> , <i>Sphagnum capillifolium</i> , <i>Polytrichum commune</i> , <i>Carex</i> sp. (no flowers), <i>Sphagnum cuspidatum</i> , <i>Polygala serpyllifolium</i>		


Quadrat 6 (T6)		
Barnesmore		
Low-growing ericoids and graminoids, with a very substantial bryophyte layer, including several low cushions of <i>Sphagnum capillifolium</i> . Some small pools are present nearby, dominated by <i>Carex</i> spp. Also some areas of shallow peat, with rocks showing through.		
		
Date	16-9-2019	
Size (m)	2 x 2	
Slope	Slight	
Aspect	E	
Vegetation height mean/max (cm)	12/28	
Ericoid cover (%)	35	
Graminoid cover (%)	30	
Bryophyte cover (%)	80	
Herbaceous cover (%)	6	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth 40cm	
Species in Quadrat	% cover	DOMIN
<i>Molinia caerulea</i>	20	5
<i>Calluna vulgaris</i>	30	6
<i>Vaccinium myrtillus</i>	<4	2
<i>Potentilla erecta</i>	5	4
<i>Eriophorum vaginatum</i>	8	4
<i>Carex</i> sp.	<4	1
<i>Eriophorum angustifolium</i>	<4	3
<i>Galium saxatile</i>	<4	1
<i>Sphagnum capillifolium</i>	60	8
<i>Hylocomium splendens</i>	8	4
<i>Erica tetralix</i>	<4	3
<i>Juncus squarrosus</i>	<4	2
<i>Rhytidiadelphus squarrosus</i>	12	5
Other species noted in area close to quadrat:		
<i>Tricophorum caespitosa</i>		
<i>Erica cinerea</i>		
<i>Racomitrium lanuginosum</i>		


Quadrat 7 (T7)		
Barnesmore		
A rather wet area, with high bryophyte cover and substantial amounts of graminoids. A few clumps of <i>Juncus effusus</i> present nearby.		
		
Date	16-9-2019	
Size (m)	2 x 2	
Slope	Gentle	
Aspect	S	
Vegetation height mean/max (cm)	15/45	
Ericoid cover (%)	20	
Graminoid cover (%)	55	
Bryophyte cover (%)	65	
Herbaceous cover (%)	6	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth 65cm	
Species in Quadrat	% cover	DOMIN
<i>Potentilla erecta</i>	4	4
<i>Molinia caerulea</i>	20	5
<i>Deschampsia flexuosa</i>	5	4
<i>Calluna vulgaris</i>	15	5
<i>Eriophorum angustifolium</i>	30	6
<i>Erica tetralix</i>	5	4
<i>Carex nigra</i>	<4	2
<i>Sphagnum palustre</i>	15	5
<i>Narthecium ossifragum</i>	<4	1
<i>Racomitrium lanuginosum</i>	<4	3
<i>Sphagnum fallax</i>	12	5
<i>Polygala serpyllifolium</i>	<4	1
<i>Sphagnum papillosum</i>	20	5
<i>Hypnum jutlandicum</i>	18	5
Other species noted in area close to quadrat:		
<i>Blechnum spicant</i> , <i>Anthoxanthum odoratum</i> , <i>Erica cinerea</i> , <i>Rhytidiadelphus squarrosus</i> , <i>Cladonia</i> sp., <i>Polytrichum commune</i>		


Quadrat 8 (T8)		
Barnesmore		
Deep peat with moderately high cover of graminoids and heather, and a very substantial moss layer, including hummocks which are partly overgrown by vascular plants.		
		
Date	16-9-2019	
Size (m)	2 x 2	
Slope	Very slight	
Aspect	W	
Vegetation height mean/max (cm)	18/40	
Ericoid cover (%)	35	
Graminoid cover (%)	50	
Bryophyte cover (%)	75	
Herbaceous cover (%)	<4	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth 90cm	
Species in Quadrat	% cover	DOMIN
<i>Eriophorum angustifolium</i>	15	5
<i>Calluna vulgaris</i>	30	6
<i>Molinia caerulea</i>	25	5
<i>Erica tetralix</i>	5	4
<i>Potentilla erecta</i>	<4	3
<i>Rhytidiadelphus loreus</i>	5	4
<i>Racomitrium lanuginosum</i>	15	5
<i>Sphagnum fallax</i>	15	5
<i>Pseudoscleropodium purum</i>	15	5
<i>Sphagnum capillifolium</i>	20	5
<i>Hypnum jutlandicum</i>	5	4
<i>Eriophorum vaginatum</i>	10	4
Other species noted in area close to quadrat:		
<i>Tricophorum caespitosum</i>		
<i>Cladonia</i> sp.		
<i>Agrostis stolonifera</i>		


Quadrat 9 (T9) Barnesmore		
A wet area with shallow bog pools interspersed with <i>Racomitrium</i> -covered mounds.		
		
Date	17-9-2019	
Size (m)	2 x 2	
Slope	Slight	
Aspect	NW	
Vegetation height mean/max (cm)	18/45	
Ericoid cover (%)	25	
Graminoid cover (%)	30	
Bryophyte cover (%)	75	
Herbaceous cover (%)	<4	
Bare peat (%)	2	
Bare rock (%)	4	
Substrate	Peat depth 0-30cm	
Species in Quadrat	% cover	DOMIN
<i>Calluna vulgaris</i>	26	6
<i>Erica cinerea</i>	4	4
<i>Tricophorum caespitosum</i>	18	5
<i>Juncus squarrosus</i>	12	5
<i>Sphagnum fallax</i>	25	5
<i>Campylopus introflexus</i>	5	4
<i>Racomitrium lanuginosum</i>	35	7
<i>Cladonia</i> sp.	<4	3
<i>Agrostis canina</i>	<4	2
<i>Potentilla erecta</i>	<4	2
<i>Carex</i> sp.	<4	1
<i>Polytrichum commune</i>	10	4
Other species noted in area close to quadrat: <i>Juncus effusus</i> <i>Sphagnum capillifolium</i> <i>Narthecium ossifragum</i> <i>Sphagnum cuspidatum</i> <i>Juncus bulbosus</i>		


Quadrat 10a (T10a)		
Barnesmore		
A dry area on shallow peat, dominated by close-growing ericoids and bryophytes. <i>Racomitrium</i> is especially abundant. Surrounding vegetation is similar to that in the quadrat; also some areas of exposed rock nearby.		
		
Date	17-9-2019	
Size (m)	2 x 2	
Slope	Very slight	
Aspect	N	
Vegetation height mean/max (cm)	12/30	
Ericoid cover (%)	65	
Graminoid cover (%)	20	
Bryophyte cover (%)	90	
Herbaceous cover (%)	4	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth 28cm	
Species in Quadrat	% cover	DOMIN
<i>Nardus stricta</i>	<4	3
<i>Molinia caerulea</i>	5	4
<i>Tricophorum caespitosum</i>	10	4
<i>Calluna vulgaris</i>	60	8
<i>Erica cinerea</i>	5	4
<i>Potentilla erecta</i>	<4	3
<i>Rhytidiadelphus squarrosus</i>	15	5
<i>Galium saxatile</i>	<4	2
<i>Polygala serpyllifolium</i>	<4	1
<i>Agrostis stolonifera</i>	<4	2
<i>Carex</i> sp.	<4	2
<i>Juncus squarrosus</i>	<4	1
<i>Racomitrium lanuginosum</i>	60	8
<i>Rhytidiadelphus loreus</i>	5	4
Other species noted in area close to quadrat:		
<i>Sphagnum capillifolium</i>		
<i>Juncus effusus</i>		


Quadrat 10b (T10b)		
Barnesmore		
Deep peat, dominated by graminoids. Significant bryophyte underlayer present. Some small pools nearby and some <i>Racomitrium</i> -covered hummocks in the general area. This area appears to have been extensively cut over in the past.		
		
Date	17-9-2019	
Size (m)	2 x 2	
Slope	Slight	
Aspect	S-SW	
Vegetation height mean/max (cm)	30/40	
Ericoid cover (%)	25	
Graminoid cover (%)	65	
Bryophyte cover (%)	55	
Herbaceous cover (%)	5	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth >1m	
Species in Quadrat	% cover	DOMIN
<i>Molinia caerulea</i>	55	8
<i>Calluna vulgaris</i>	20	5
<i>Potentilla erecta</i>	5	4
<i>Erica tetralix</i>	5	4
<i>Deschampsia flexuosa</i>	10	4
<i>Hylocomium splendens</i>	15	5
<i>Rhytidiadelphus loreus</i>	6	4
<i>Hypnum jutlandicum</i>	4	4
<i>Rhytidiadelphus squarrosus</i>	8	4
<i>Sphagnum capillifolium</i>	12	5
<i>Sphagnum fallax</i>	10	4
Other species noted in area close to quadrat:		
<i>Racomitrium lanuginosum, Cladonia sp., Cirsium palustre, Potamogeton sp., Carex sp., Sphagnum palustre, Agrostis canina, Epilobium palustre, Polygala serpyllifolia, Salix cinerea</i> (small saplings), <i>Dryopteris dilatata</i>		


Quadrat 11 (T11)		
Barnesmore		
A wet area, with a flush nearby leading to a roadside drain. Some peat erosion along and near drain. <i>Narthecium ossifragum</i> is especially plentiful in this area.		
		
Date	17-9-2019	
Size (m)	2 x 2	
Slope	Slight	
Aspect	S	
Vegetation height mean/max (cm)	12/30	
Ericoid cover (%)	15	
Graminoid cover (%)	55	
Bryophyte cover (%)	65	
Herbaceous cover (%)	20	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth >1m	
Species in Quadrat	% cover	DOMIN
<i>Tricophorum caespitosa</i>	20	5
<i>Calluna vulgaris</i>	10	4
<i>Narthecium ossifragum</i>	18	5
<i>Erica tetralix</i>	5	4
<i>Cladonia</i> sp.	<4	3
<i>Racomitrium lanuginosum</i>	25	5
<i>Molinia caerulea</i>	25	5
<i>Potentilla erecta</i>	<4	2
<i>Pleurozia purpurea</i>	5	4
<i>Campylopus introflexus</i>	10	4
<i>Sphagnum fallax</i>	15	5
<i>Eriophorum angustifolium</i>	10	4
<i>Carex</i> sp.	<4	1
Other species noted in area close to quadrat:		
<i>Sphagnum cuspidatum</i>		
<i>Sphagnum capillifolium</i>		
<i>Sphagnum palustre</i>		
<i>Eriophorum vaginatum</i>		


Quadrat 12 (T12) Barnesmore		
An area dominated by tall graminoids, with occasional swathes of heather.		
		
Date	17-9-2019	
Size (m)	2 x 2	
Slope	Moderate	
Aspect	E	
Vegetation height mean/max (cm)	55/70	
Ericoid cover (%)	20	
Graminoid cover (%)	65	
Bryophyte cover (%)	40	
Herbaceous cover (%)	6	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth 42cm	
Species in Quadrat	% cover	DOMIN
<i>Molinia caerulea</i>	35	7
<i>Calluna vulgaris</i>	18	5
<i>Potentilla erecta</i>	6	4
<i>Erica cinerea</i>	<4	3
<i>Juncus acutiflorus</i>	8	4
<i>Rhynchospora squarrosus</i>	20	5
<i>Vaccinium myrtillus</i>	<4	2
<i>Carex nigra</i>	<4	3
<i>Pleurozium schreberi</i>	12	5
<i>Rhynchospora loreus</i>	8	4
<i>Eriophorum vaginatum</i>	20	5
Other species noted in area close to quadrat:		
<i>Succisa pratensis</i>		
<i>Salix cinerea</i>		
<i>Agrostis stolonifera</i>		
<i>Blechnum spicant</i>		
<i>Juncus squarrosus</i>		

Quadrat 13 (T13) Barnesmore		
An area which has been extensively disturbed and cut over.		
		
Date	17-9-2019	
Size (m)	2 x 2	
Slope	Gentle	
Aspect	S	
Vegetation height mean/max (cm)	10/28	
Ericoid cover (%)	20	
Graminoid cover (%)	45	
Bryophyte cover (%)	65	
Herbaceous cover (%)	6	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth 6cm	
Species in Quadrat	% cover	DOMIN
<i>Calluna vulgaris</i>	20	5
<i>Cirsium palustre</i>	<4	1
<i>Rhynchospora squarrosus</i>	30	6
<i>Juncus effusus</i>	5	4
<i>Potentilla erecta</i>	<4	3
<i>Racomitrium lanuginosum</i>	15	5
<i>Juncus acutiflorus</i>	8	4
<i>Festuca vivipara</i>	10	4
<i>Hylocomium splendens</i>	10	4
<i>Pseudoscleropodium purum</i>	10	4
<i>Agrostis stolonifera</i>	15	5
<i>Myrica gale</i>	<1	1
<i>Carex</i> sp.	6	4
Other species noted in area close to quadrat:		
<i>Dryopteris dilatata</i>		
<i>Galium saxatile</i>		
<i>Vaccinium myrtillus</i>		
<i>Eriophorum vaginatum</i>		
<i>Poa annua</i>		

Proposed energy storage area Quadrat 1 (ES1)		
Barnesmore		
An area adjacent to the road, containing electricity poles and fence posts. Some signs of peat erosion along the road, and some areas of bare peat. Large cushions of <i>Racomitrium</i> present. Wet underfoot, with some water seeping down the slope. Some areas of exposed rock nearby.		
		
Date	16-9-2019	
Size (m)	2 x 2	
Slope	Moderate	
Aspect	SW	
Vegetation height mean/max (cm)	18/60	
Ericoid cover (%)	15	
Graminoid cover (%)	50	
Bryophyte cover (%)	40	
Herbaceous cover (%)	<4	
Bare peat (%)	12	
Bare rock (%)	0	
Substrate	Peat depth 25cm	
Species in Quadrat	% cover	DOMIN
<i>Molinia caerulea</i>	10	4
<i>Eriophorum angustifolium</i>	25	5
<i>Racomitrium lanuginosum</i>	35	7
<i>Erica cinerea</i>	10	4
<i>Potentilla erecta</i>	<4	3
<i>Carex</i> sp.	10	4
<i>Juncus bulbosus</i>	5	4
<i>Calluna vulgaris</i>	<4	3
<i>Erica tetralix</i>	<4	3
<i>Hypnum jutlandicum</i>	5	4
<i>Cladonia</i> sp.	<4	2
<i>Pleurozia purpurea</i>	<4	3
<i>Narthecium ossifragum</i>	<4	2
<i>Sphagnum denticulatum</i>	<4	1
Other species noted in area close to quadrat: <i>Polytrichum commune</i> , <i>Campylopus introflexus</i> , <i>Agrostis</i> spp., <i>Sphagnum capillifolium</i>		

Proposed energy storage area Quadrat 2 (ES2)		
Barnesmore		
A roadside area, wet underfoot, with significant peat erosion close to the road. Some small areas of exposed rock nearby.		
		
Date	17-9-2019	
Size (m)	2 x 2	
Slope	Moderate	
Aspect	SW	
Vegetation height mean/max (cm)	40/55	
Ericoid cover (%)	25	
Graminoid cover (%)	60	
Bryophyte cover (%)	65	
Herbaceous cover (%)	5	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth 0-65cm	
Species in Quadrat	% cover	DOMIN
<i>Molinia caerulea</i>	25	5
<i>Calluna vulgaris</i>	20	5
<i>Trichophorum caespitosum</i>	20	5
<i>Erica tetralix</i>	5	4
<i>Racomitrium lanuginosum</i>	15	5
<i>Sphagnum palustre</i>	15	5
<i>Sphagnum fallax</i>	25	5
<i>Potentilla erecta</i>	<4	3
<i>Galium saxatile</i>	<4	3
<i>Polytrichum commune</i>	<4	2
<i>Pedicularis sylvatica</i>	<4	2
<i>Rhytidiadelphus loreus</i>	10	4
<i>Eriophorum vaginatum</i>	20	4
<i>Deschampsia flexuosa</i>	<4	2
Other species noted in area close to quadrat:		
<i>Blechnum spicant</i>		
<i>Juncus acutiflorus</i>		
<i>Juncus effusus</i>		

Proposed substation Quadrat 1 Barnesmore		
An area adjacent to the present substation. Solid underfoot, with tallish graminoids and a well-developed bryophyte layer. The surrounding area has a lot of <i>Juncus acutiflorus</i> , and some <i>Deschampsia flexuosa</i> and <i>Agrostis</i> spp.		
		
Date	16-9-2019	
Size (m)	2 x 2	
Slope	Very slight	
Aspect	N	
Vegetation height mean/max (cm)	25/60	
Ericoid cover (%)	35	
Graminoid cover (%)	40	
Bryophyte cover (%)	65	
Herbaceous cover (%)	5	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth >90cm	
Species in Quadrat	% cover	DOMIN
<i>Calluna vulgaris</i>	30	6
<i>Juncus squarrosus</i>	8	4
<i>Molinia caerulea</i>	15	5
<i>Erica cinerea</i>	4	4
<i>Sphagnum palustre</i>	30	6
<i>Sphagnum capillifolium</i>	25	5
<i>Juncus acutiflorus</i>	6	4
<i>Carex nigra</i>	<4	1
<i>Polytrichum commune</i>	<4	2
<i>Hylocomium splendens</i>	5	4
<i>Potentilla erecta</i>	<4	3
<i>Hypnum jutlandicum</i>	6	4
<i>Rhytidiadelphus squarrosus</i>	8	4
<i>Polygala serpyllifolia</i>	<4	2
<i>Vaccinium myrtillus</i>	<4	2
<i>Eriophorum angustifolium</i>	10	4
Other species noted in area close to quadrat: <i>Racomitrium lanuginosum</i> , <i>Viola riviniana</i> , <i>Dicranum scoparium</i>		

Proposed substation Quadrat 2 Barnesmore		
A flush area adjoining a small stream. Very wet underfoot. Tall graminoids growing along stream, with few ericoids and good moss cover in areas not too deeply overshadowed by graminoids.		
		
Date	16-9-2019	
Size (m)	2 x 2	
Slope	level	
Aspect	NA	
Vegetation height mean/max (cm)	35/70	
Ericoid cover (%)	5	
Graminoid cover (%)	60	
Bryophyte cover (%)	40	
Herbaceous cover (%)	15	
Bare peat (%)	0	
Bare rock (%)	0	
Substrate	Peat depth >90cm	
Species in Quadrat	% cover	DOMIN
<i>Molinia caerulea</i>	30	6
<i>Deschampsia flexuosa</i>	25	5
<i>Potentilla erecta</i>	<4	3
<i>Erica cinerea</i>	<4	3
<i>Viola palustris</i>	10	4
<i>Sphagnum palustre</i>	10	4
<i>Sphagnum denticulatum</i>	25	5
<i>Erica tetralix</i>	<4	1
<i>Carex</i> sp.	5	4
<i>Rhytidiadelphus squarrosus</i>	5	4
<i>Galium saxatile</i>	<4	2
Other species noted in area close to quadrat:		
<i>Juncus effusus</i>		
<i>Polytrichum commune</i>		
<i>Myrica gale</i>		
<i>Epilobium palustre</i>		
<i>Potamogeton</i> sp.		