APPENDIX 01

Phase 1 Target Notes



Appendix 01: Phase 1 Target Notes

Target Note Number	Photograph	Comments
1		Photograph down access track to Scotmill.
2		Looking north west towards Scotmill with semi- improved grazed grassland in foreground.
3		Edge of coniferous plantation woodland. Vegetation in front on area of open rocks includes bracken which later in the season would be abundant. Other species included bluebell, heather, tormentil, ribwort plantain, heath milkwort, coltsfoot, sweet vernal grass, lousewort. Larger shrubs included willow species and rowan. Butterflies observed included green-veined white (<i>Pieris napi</i>).

Target Note Number	Photograph	Comments
4		Edge of coniferous plantation woodland with a dry ditch by the road. On the eastern side heather was abundant, on the western side species included bracken, bluebell, rowan and willow.
5		Small burn, fairly dry. Species included soft rush, willow, heather and other species. Mosses included Polytrichum commune.
6		Location for NVC quadrat – NVC1
7		On banks soft rush, abundant bracken, some Sphagnum species, heather and willow species. Upstream was more rocky and drier.



Target Note Number	Photograph	Comments
8		Edge of coniferous plantation near main track. Species present included bracken which was abundant, occasional heather, primrose, bluebell, tormentil, rowan and dog violet.
9		Above the habitat is drier with bracken and bluebell. Some heather is present with occasional trees. Below included bracken and soft rush, see NVC2 for details
10		Location of NVC quadrat - NVC2
11		Larger burn. The right-hand side of the photograph includes abundant bracken and bluebells are present. On the left-hand side it is also dominated by bracken.

Target	Photograph	Comments
Note Number	Photograph	Comments
12		Location of NVC quadrat - NVC3
13		Photograph of ridge between areas of coniferous plantation.
14		Location for NVC Quadrat 4
15		Area with abundant bracken, bluebell and species of grass. Occasional rowan also present.



Target Note Number	Photograph	Comments
16		Man-made small lochan and two pools, presumed to have been created as borrow pits. Generally, an absence of vegetation except some <i>Potmageton</i> species in the smaller pools.
17		Looking upstream. Species present included bird's-foot trefoil, soft rush, heather, immature pine and European gorse.

Target Note Number	Photograph	Comments
18		Mast in centre of photograph (adjusted for brightness).
19		Area of recently clear-felled conifer plantation with access track.
20		Further area of clear-fell.



Target Note Number	Photograph	Comments
21		Photograph of area of clear-fell with mature coniferous plantation in the background.
22		Location for NVC quadrat 5
23		Location for NVC quadrat 6

Target Note Number	Photograph	Comments
24		Photograph of lochan on edge of coniferous plantation surrounded by swamp.
25		Area of swamp around TN24 taken from road above, with immature plantation in the background.
26		Area of immature scrub and plantation.



Target Note Number	Photograph	Comments
27		Small stream. Species included abundant grass species, sedges, heather, tormentil, heath milkwort and cuckooflower.
28		Cattle and sheep grazed rush pasture. Species present included bracken, soft rush, cuckooflower and creeping buttercup.
29		Closely-grazed rush pasture. Species present included cottongrass, Yorkshire fog, dog violet, lousewort, heath milkwort and tormentil.

Target Note Number	Photograph	Comments
30		Start of open track through plantation, bracken in foreground.
31		Track through forestry opposite TN30, this is only very narrow and does not open up into a ride.
32		Open area of rush pasture between areas of plantation.



Target Note Number	Photograph	Comments
33		Location for NVC quadrat 8
34		Area of rush pasture.
35		Area of rush pasture in foreground with clear felled conifer plantation in background.
36		Location of NVC quadrat 9

Target Note Number	Photograph	Comments
37		Area of clear fell and track up leading away from A82. Potential location for access point.
38		Taken looking north along A83 with fields shown on right hand side of the photograph.
39		Oak eggar caterpillar (Lasiocampa quercus) on branch near burn. Close to area of sheep-grazed pasture with bracken, grasses, scattered heather, purple moor grass, bog cotton and deer grass.



Target Note Number	Photograph	Comments
40		Location for NVC quadrat 9.
41	3 Parch of Start of S	Cocoon found, presumed to be from an oak eggar caterpillar of TN39 in an area of un-grazed rush pasture with soft rush.
42		Burn on edge of site with conifer plantation to the south. Rushes are abundant on the banks of the burn.

Target Note Number	Photograph	Comments
43		Close of up of habitat adjacent to the burn, in places devils-bit scabious was present.
44		An area which is damper with bog cotton, purple moor grass and occasional bilberry. In slightly higher areas heather and bilberry are more abundant.
45		Location for NVC quadrat 10.
46		Area for NVC quadrat 11. Heather is more abundant in this location.



Target Note Number	Photograph	Comments
47		Area with abundant purple moor grass, was dry underfoot which is likely to be unusual as Sphagnum species were abundant.
48		Area for NVC quadrat 12.
49	No photograph	Area with devil's-bit scabious.
50		Location of NVC quadrats 14 and 15. In this location the heather was much healthier and up to 30cm in height. In the wetter plateau areas the heather tended to be less healthy.
51		Location of NVC quadrat 16. In this location there are abundant rushes in the "valley" area.

Target Note Number	Photograph	Comments
52		By Loch Chorra-riabhaich, clear water with some rushes on the water's edge. Soft rush, purple moorgrass and then heather further away from the loch.
53		Looking back down the valley towards Loch Chorrariabhaich.
54		Location of NVC quadrat 17
55		Location of NVC quadrat 18. Mixture of soft rush/purple moor grass areas and heather.



Target Note Number	Photograph	Comments
56		Adjusted for contrast. Illustrating more mature heather close to fence at edge of coniferous plantation.
57		Habitats inside fence line adjacent to coniferous plantation.
58		Illustrating habitats looking towards coniferous plantation south of the site.
59		Habitats in area of clear fell.
60		Habitats predominately purple moor grass and soft rush. In places the vegetation was heavily grazed by sheep. Some locations were more dominated by heather and moss species.

Target Note Number	Photograph	Comments
61		Habitats present dominated by purple moor grass and soft rush. Some bilberry present. Generally a lot of this area was sheep grazed.
62		Area of purple moor grass and soft rush taken towards southeast.
63		Abundant purple moor grass, soft rush and heather also present.
64		Grazed habitats within the fenced area on the right hand side. To the left are abundant areas of heather and purple moor grass. Conifer plantation is present to right of the photograph.
65		Possible pine marten scat taken on the edge of Kintyre Way to the south of the site, within the conifer plantation.



Target Note Number	Photograph	Comments
66		Loch a' Chreimh with limited aquatic vegetation, some marginal vegetation. Heather around 3/4 of the loch. Plantation woodland behind including some areas of newly planted trees.
67		Photograph taken of track where possible pine marten scat was taken (corrected for brightness).
68		Loch Fraoich with limited aquatic vegetation, some marginal vegetation. Heather to the east/west with purple moor grass and soft rush elsewhere.
69		Area of abundant soft rush close to Kintyre Way.
70		Area of wet flush with abundant grasses with no obvious stream present.

Target Note Number	Photograph	Comments
71		Approximate location of quadrat NVC 19. Abundant purple moor grass, other species are occasional only.
72		Open cut drain with some modification as pipe is under track.
73		Taken towards buffer area south of Kintyre way with marshy grassland area with heather.
74		Uphill is an area of bracken and then an area of soft rush downslope towards stream. Rest is dominated by purple moor grass with soft rush and other species are much rarer.



Target Note Number	Photograph	Comments
75		Dominated by purple moor grass with soft rush in the wetter areas.
76		Bracken above and below Kintyre Way. Butterwort was also present by track in wetter area. Willows were present adjacent to Larachmor Burn.
77		Photo taken towards Larachmor Burn with willows present in the middle distance. Bracken is present on the banks of the burn. Also present are soft rush and purple moor grass with evidence of grazing.
78		Further photograph taken towards Larachmor Burn.

Target Note Number	Photograph	Comments
79		Small tributary close to Kintyre Way.
80		NVC quadrat 20 location, some evidence the area may have been grazed. Some devil's bit scabious near stream amongst the purple moor grass. The wetter areas are more dominated by rushes and purple moor grass.
81	No photograph	Location where hen harrier (<i>Circus cyaneus</i>) was observed flying.
82	No photograph	Swamp and lochan where hen harrier was observed flying.
83	No photograph	Location where hen harrier was observed flying.
84	No photograph	Location where adder was seen on 20.05.19.
85	No photograph	Location where hen harrier was observed flying.
86		To west the area includes immature conifer plantation, soft rush, European gorse and rhododendron in soft rush pasture down to the property of Achaglass. Beyond are sheep grazed fields.



Target Note Number	Photograph	Comments
87		Photograph taken looking towards proposed solar arrays SA2 location (towards left hand side of photograph).
88		Area near small burn, species present included bracken, bluebells, heather and immature silver birch.
89		Looking towards proposed solar arrays area SA2.
90		Semi-improved grassland field which had short sward from grazing, occasional small flush areas which included soft rush, cuckoo flower and occasional heather.
91		Derelict property at Scotmill.

Target Note Number	Photograph	Comments
92		Grazed field, with some evidence of modification by drainage. Species present included cottongrass and various grass species.
93		Field with abundant soft rush and cotton grass. Limited evidence of grazing.
94		Small burn. Species included devil's bit scabious, bracken and bilberry with willow and bracken downstream (adjusted for brightness).



Target Note Number	Photograph	Comments
95		Ungrazed rush pasture to the north of the burn. Species included soft rush (dominant), heath woodrush, Yorkshire fog, marsh violet, lady's bedstraw, sweet vernal grass and hard rush.
96		Ungrazed field with some heads of bog asphodel in field and similar to TN95 but with more rush and grass species. Appears to be relatively unmodified.
97	No photograph	Further ungrazed fields towards burn and woodland.
98		Fields on south facing slope close to Scotmill. The fields were currently ungrazed.

Target Note Number	Photograph	Comments
99		Towards conifer plantation with area in front of woodland being more grazed.
100		Sheep grazed field looking towards conifer plantation close to the main access track.
101		Area of silver birch by track to east of A83.
102		Stand of Japanese Knotweed opposite proposed access track from A83.



APPENDIX 02

Plant Species List



Latin Name	Common Name
Agrostis capillaris	Common bent
Alchillea millefolium	Yarrow
Angelica sylvestris	Wild angelica
Anthoxanthum odoratum	Sweet vernal grass
Aulacomium palustre	A Moss
Betula pendula	Silver birch
Blechnum spicant	A Fern
Calluna vulgaris	Heather
Caltha palustris	Marsh marigold
Carex echinata	A Sedge
Carex echinata	Star sedge
Carex nigra	Black sedge
Carex rostrata	Bottle sedge
Cerastrium fontanum	Common mouse-ear
Cirsium arvense	Creeping thistle
Cirsium palustre	Marsh thistle
Cladonia impexa	A Lichen
Conopodium majus	Pignut
Cynosurus cristatus	Crested dog's-tail
Dactylorhiza maculata	Heath spotted orchid
Deschampsia flexuosa	Wavy hair-grass
Digitalis purpurea	Foxglove
Drosera rotunifolia	Round leaved sundew
Empetrum nigrum	Crowberry
Epilobium palustre	Marsh willowherb
Equisetum palustre	Marsh horsetail
Equisetum spp	Horsetail spp.
Erica tetralix	Cross-leaved heath
Eriophorum angustifolium	Common cotton-grass
Eriophorum vaginatum	Bog cotton
Festuca ovina	Sheep's fescue
Festuca rubra	Red fescue
Fillipendula ulmaria	Meadowsweet
Galium palustre	Marsh bedstraw
Galium saxatile	Heath bedstraw
Gymnocolea inflata	A Liverwort
Holcus lanatus	Yorkshire fog
Hyacinthoides non-scripta	Bluebell
Hydrocotyle vulgaris	Marsh pennywort
Hypnum jutlandicum	A Moss
Juncus acutiflorus	Sharp flowered rush
Juncus conglomeratus	Jointed rush
Juncus effusus	Soft rush

Latin Name	Common Name
Kindbergia praeloonga	A Moss
Lotus corniculatus	Birds foot trefoil
Luzula campestris	Field woodrush
Luzula multiflora	Heath wood rush
Mentha aquatica	Water mint
Molinia caerulea	Purple moor-grass
Myosotis pratensis	Marsh forget-me-not
Myrica gale	Bog myrtle
Narthicum ossifragum	Bog asphodel
Oxalis acetosella	Wood sorrel
Pedicularis palustris	Lousewort
Phragmites australis	Common reed
Pinguicula vulgaris	Butterwort
Plantago lanceolata	Ribwort plantain
Pleurozia purpurea	A Liverwort
Pleurozium schreberi	Red-stemmed feather moss
Poa annua	Annual meadow-grass
Polygala serpyllifolia	Heath milkwort
Polytrichum commune	Common haircap moss
Potamogeton species	Pondweed spp
Potentilla erecta	Tormentil
Primula vulgaris	Primrose
Prunella vulgaris	Selfheal
Pseudoscelropodium purum	Neat feather-moss
Pteridium aquilinum	Bracken
Racometrium lanuginosum	A Moss
Ranunculus acris	Meadow buttercup
Ranunculus flammula	Spearwort
Ranunculus repens	Creeping buttercup
Rhododendron spp	Rhododendron
Rhytidiadelphus squarrosus	Turf moss
Rubus fruticosus	Bramble
Rumex acetosa	Common Sorrel
Salix cinera	Grey willow
Sorbus aucuparia	Rowan
Sphagnum capillifolium	A Moss
Sphagnum fimbratum	A Moss
Sphagnum palustre	A Moss
Sphagnum papillosum	A Moss
Sphagnum tenellum	A Moss
Succisa pratensis	Devils bit scabious
Taraxacum officinale	Dandelion
Trichophorum cespitosum	Deer grass

Latin Name	Common Name
Trifolium repens	White clover
Tussilago farfara	Coltsfoot
Ulex europaeus	European gorse
Urtica dioica	Nettle
Vaccinium myrtillus	Bilberry
Veronica officinalis	Heath speedwell
Viola cania	Dog violet

APPENDIX 03

NVC Survey Sheets



Appendix 03: NVC Survey Sheets

NVC Quadrat 1 (Target Note 6)

Date: 20.05.19

Species	Common Name	Domin
Calluna vulgaris	Heather	5
Molinia caerulea	Purple moor-grass	9
Potentilla erecta	Tormentil	4
Pseudoscleropodium purum	Neat feather-moss	4
Sphagnum palustre	Moss	6
Pleurozium schreberi	Red-stemmed feather-moss	5
Vaccinium myrtillus	bilberry	5

NVC Quadrat 2 (Target Note 10)

Date: 20.05.19

Species	Common Name	Domin
Pteridium aquilinum	Bracken	9
Cirsium arvense	Creeping thistle	2
Urtica dioica	Common nettles	3
Pseudoscleropodium purum	Neat feather-moss	2
Viola canina	Dog violet	3
Caltha palustris	Marsh marigold	3
Oxalis acetosella	Wood sorrel	3

NVC Quadrat 3 (Target Note 10)

Date: 20.05.19Species	Common Name	Domin
Juncus effusus	Soft rush	8
Cirsium palustre	Marsh thistle	2
Potentilla erecta	Tormentil	4
Pseudoscleropodium purum	Neat feather-moss	8

NVC Quadrat 4 (Target Note 12)

Date: 20.05.19

Species	Common Name	Domin
Juncus effusus	Soft rush	5
Molinia caerulea	Purple moor-grass	8
Potentilla erecta	Tormentil	3
Pseudoscleropodium purum	Neat feather-moss	4
Anthoxanthum odoratum	Sweet vernal grass	4
Holcus lanatus	Yorkshire fog	5
Luzula multiflora	Heath woodrush	4
Cirsium palustre	Marsh thistle	2

NVC Quadrat 5 (Target Note 14)

Date: 20.05.19

Species	Common Name	Domin
Juncus effusus	Soft rush	8
Viola cania	Dog violet	3
Potentilla erecta	Tormentil	4
Polytrichum commune	Hair cap moss	4
Holcus lanatus	Yorkshire fog	4
Luzula multiflora	Heath woodrush	4
Cirsium palustre	thistle	4
Sphagnum cuspidatum	moss	5
Sphagnum papillosum	Moss	Present



NVC Quadrat 6 (Target Note 22)

Date: 20.05.19

Species	Common Name	Domin
Phragmites australis	Common reed	9
Hydrocotyle vulgaris	Marsh pennywort	4
Calluna vulgaris	Heather	4
Vaccinium myrtillus	bilberry	4
Holcus lanatus	Yorkshire fog	4
Cirsium palustre	Marsh thistle	2
Eriophorum angustifolium	Common cotton grass	3
Sphagnum palustre	moss	5

NVC Quadrat 7 (Target Note 23)

Date: 20.05.19

Species	Common Name	Domin
Hydrocotyle vulgaris	Marsh pennywort	5
Vaccinium myrtillus	bilberry	4
Deschampsia flexuosa	Wavy hair grass	8
Eriophorum angustifolium	Common cotton grass	6
Sphagnum palustre	Moss	7

NVC Quadrat 8 (Target Note 33)

Date: 20.05.19

Species	Common Name	Domin
Juncus effusus	Soft rush	9
Trichophorum cespitosum	Deer grass	4
Galium palustre	Marsh bedstraw	3
Pseudoscleropodium purum	Neat feather-moss	5
Pleurozium schreberi	Red-stemmed feather-moss	5
Holcus lanatus	Yorkshire fog	4

Species	Common Name	Domin
Cirsium palustre	Marsh thistle	2

NVC Quadrat 9 (Target Note 36)

Date: 20.05.19

Species	Common Name	Domin
Juncus effusus	Soft rush	9
Cardamine pratensis	Cuckooflower	5
Galium palustre	Marsh bedstraw	4

NVC Quadrat 10 (Target Note 45)

Date: 21.05.19

Species	Common Name	Domin
Juncus effusus	Soft rush	3
Molinia caerulea	Purple moor-grass	4
Trichophorum cespitosum	Deer grass	3
Eriophorum vaginatum	Cotton grass	4
Erica tetralix	Cross leaved heather	9

NVC Quadrat 11 (Target Note 46)

Date: 21.05.19

Species	Common Name	Domin
Eriophorum vaginatum	Cotton grass	9
Calluna vulgaris	Heather	4
Potentilla erecta	Tormentil	4
Sphagnum palustre	Moss	5
Sphagnum papillosum	Moss	5
Luzula multiflora	Heath woodrush	3
Polygala serpyllifolia	Heath milkwort	4



NVC Quadrat 12 (Target Note 48)

Date: 21.05.19

Species	Common Name	Domin
Juncus effusus	Soft rush	9
Molinia caerulea	Purple moor-grass	4
Eriophorum vaginatum	Cotton grass	5
Sphagnum palustre	Moss	5
Sphagnum papillosum	Moss	9
Trichophorum cespitosum	Deer grass	4
Luzula multiflora	Heath woodrush	2

NVC Quadrat 13 (Target Note 40)

Date: 21.05.19

Species	Common Name	Domin
Juncus articulatus	Jointed rush	6
Molinia caerulea	Purple moor-grass	8
Vaccinium myrtillus	Bilberry	4
Sphagnum palustre	moss	9
Viola canina	Dog Violet	3
Luzula multiflora	Heath wood rush	4
Dactylorhiza maculata	Heath spotted orchid	1
Succisa pratensis	Devil's bit scabious	2

NVC Quadrat 14 (Target Note 50)

Date: 21.05.19

Species	Common Name	Domin
Calluna vulgaris	Heather	9
Molinia caerulea	Purple moor-grass	3
Festuca rubra	Red fescue	3
Polytrichum commune	Hair cap moss	5

Species	Common Name	Domin
Pleurozium schreberi	Red stem feather moss	5
Vaccinium myrtillus	bilberry	3

NVC Quadrat 15 (Target Note 50)

Date: 21.05.19

Species	Common Name	Domin
Calluna vulgaris	Heather	8
Festuca rubra	Red fescue	2
Eriophorum angustifolium	Common cotton grass	7
Luzula multiflora	Heath wood rush	3
Sphagnum palustre	moss	9
Erica tetralix	Cross-leaved heather	3

NVC Quadrat 16 (Target Note 51)

Date: 21.05.19

Species	Common Name	Domin
Juncus articulatus	Jointed rush	5
Molinia caerulea	Purple moor-grass	5
Juncus effusus	Soft rush	8
Sphagnum palustre	moss	4
Polytrichum commune	Hair cap moss	4
Luzula multiflora	Heath wood rush	4
Anthoxanthum odoratum	Sweet vernal grass	3



NVC Quadrat 17 (Target Note 54)

Date: 21.05.19

Species	Common Name	Domin
Calluna vulgaris	Heather	8
Molinia caerulea	Purple moor-grass	4
Erica tetralix	Cross leaved heather	3
Eriophorum angustiflora	Common cotton grass	5
Luzula multiflora	Heath wood rush	4
Polytrichum commune	Hair cap moss	5
Pleurozium schreberi	Red stem feather moss	5

NVC Quadrat 18 (Target Note 55)

Date: 21.05.19

Species	Common Name	Domin
Juncus articulatus	Jointed rush	10
Anthoxanthum odoratum	Sweet vernal grass	3
Viola palustre	Marsh violet	2
Sphagnum palustre	moss	7
Potentilla erecta	Tormentil	3
Galium saxatile	Heath bedstraw	3
Polytrichum commune	Hair cap moss	4
Pleurozium schreberi	Red stem feather moss	4

NVC Quadrat 19 (Target Note 71)

Date: 21.05.19

Species	Common Name	Domin
Molinia caerulea	Purple moor-grass	10
Eriophorum angustifolium	Common cotton grass	3
Sphagnum palustre	moss	6
Festuca rubra	Red fescue	2

NVC Quadrat 20 (Target Note 80)

Date: 21.05.19

Species	Common Name	Domin
Vaccinium myrtillus	Bilberry	8
Eriophorum angustifolium	Common cotton grass	5
Sphagnum palustre	Moss	4
Molina caerulea	Purple moor grass	4
Pleurozium schreberi	Red stem feather moss	8



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