

Chleansaid Wind Farm 132 kV OHL Connection Environmental Appraisal (EA) Report

Appendix 7.1: Habitats Technical Appendix

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Scottish Hydro Electric Transmission plc
Inveralmond House
200 Dunkeld Road
Perth PH1 3AQ
Tel: +44 (0)1738 456 000
www.ssen-transmission.co.uk

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LIST OF ABBREVIATIONS

AWI	Ancient Woodland Inventory
BNG	Biodiversity Net Gain
BAP	Biodiversity Action Plan
CIEEM	Chartered Institute of Ecology and Environmental Management
EA	Environmental Appraisal
EIA	Environmental Impact Assessment
GIS	Geographical Information System
HCA	Habitat Condition Assessment
LNCS	Local Nature Conservation Site
LNR	Local Nature Reserve
LoD	Limit of Deviation
MMU	Minimum Mapping Unit
NE	Natural England
NWSS	Native Woodland Survey of Scotland
OHL	Overhead Line
OS	Ordnance Survey
SAC	Special Area of Conservation
SBL	Scottish Biodiversity List
SSSI	Site of Special Scientific Interest
SPA	Special Protection Area
UKHab	UK Habitat Classification

EXECUTIVE SUMMARY

Baseline UK Habitat (UKHab) Classification, Habitat Condition Assessment and National Vegetation Classification (NVC) surveys were undertaken within the proximity of a new proposed overhead line (OHL) running between Chleainsaid Windfarm 132 kV Substation to Dalchork Substation near Lairg, in the Sutherland region of the Highlands, Scotland (hereafter the 'Proposed Development'). The site of the Proposed Development encompasses land required to accommodate the proposed OHL alignment and temporary access tracks and construction areas (the Site).

Surveys were completed along the Proposed Alignment plus an additional 250 m buffer, forming a 500 m corridor hereafter referred to as the "UK Habitat/NVC Survey Area" in April 2023 (UKHab Survey) and May to July 2024 (NVC Survey). The purpose of the study was to identify the current habitat baseline and inform the Environmental Impact Assessment for the Proposed Development.

No non-ornithological nationally designated sites were recorded within 2 km of the Proposed Development. Within a 10 km buffer, three non-ornithological internationally designated sites were recorded, the closest of which being Caithness and Sutherland Peatlands Special Area of Conservation and Caithness and Sutherland Peatlands Ramsar, which both lie 3.66 km to the south-west.

The Proposed Development also passes through various woodlands listed on the Native Woodland Survey of Scotland. Two areas listed on the Ancient Woodland Inventory were recorded within a 2 km buffer, outside of the Proposed Development.

The Proposed Development lies within a hilly landscape, containing conifer plantation interspersed with upland habitat types on exposed hillsides. Sensitive habitats recorded within the UK Habitat Survey Area include Wet heathland with cross-leaved heath; upland (h1b6) (H4010) which is classified as an Annex I habitat under the EU Habitats Directive. Several Scottish Biodiversity List (SBL) priority habitats also listed as Highland Nature Biodiversity Action Plan habitats were recorded within UK Habitat Survey Area including; Upland heathland (h1b), Other Scot's Pine woodland (w2b), Wet woodland (w1d), Degraded blanket bog (f1a6) and Purple moor grass and rush pastures (f2b).

Numerous burns and rivers flow through the valleys of the Proposed Development. Larger rivers recorded within the Proposed Development include Feith Osdail to the south, and Allt Chaiseagail to the north.

During the NVC survey seven mire communities (M4, M6c, M17, M18a, M19, M20 and M25), one wet heath community (M15) and one dry heath community (H9) were identified within 250 m of the Proposed Alignment. Nine areas were assessed as Good, using the criteria within the NatureScot Priority Peatlands template.

One area was assessed as being of Potential National Interest using the criteria within the NatureScot Priority Peatlands template. This was Area 81, an area of M18a *Erica tetralix-Sphagnum papillosum* raised and blanket mire-*Sphagnum medium/divinum-Andromeda polifolia* sub-community. It was assessed as Potential National Interest due to *Sphagnum austinii* being recorded during NVC survey. Area 81, however, is located approximately 50 m north of the Proposed Alignment, with a road separating it from the location of the poles. Due to the road being raised above and forming a barrier to Area 81 from the works area it is assumed that this area will not be directly affected.

The only one of the ten Good/Potential National Interest Priority Peatland areas that will be directly affected is an area of M17 *Trichophorum germanicum-Eriophorum vaginatum* blanket mire. It was assessed as Good due to having vegetation capable of forming peat. This area is beneath the alignment for a distance of approximately 250 m, towards the north of the Proposed Development.

This document sets out the methods used, limitations and the results of surveys which are suitable for use as the baseline for Environmental Appraisal (EA)¹. All limitations and assumptions are included within this report. The

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Environmental Appraisal report will consider potential impacts on habitats identified along the Proposed Development.

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1. INTRODUCTION

1.1 Project Background

- 1.1.1 WSP UK Ltd ('WSP') was commissioned by Scottish and Southern Electricity Networks Transmission (hereafter the 'Applicant') to undertake a desk review and baseline habitat surveys to inform the Environmental Appraisal (EA) for a new 132 kV twin circuit overhead line (OHL) running between Chleainsaid Windfarm 132 kV Substation to Dalchork Substation near Lairg, in the Sutherland region of the Highlands, Scotland (hereafter the 'Proposed Development').

1.2 Scope of Survey

- 1.2.1 Baseline habitat surveys were undertaken in April 2023 during Stage 2 Alignment² to inform the optioneering of the Proposed Development.
- 1.2.2 Surveys were undertaken of three proposed Alignment Options plus a 100 m Limit of Deviation (LoD) plus an additional 150 m buffer either side of the centreline, to form a 500 m survey corridor for each Alignment Option under consideration at the time. Based on the results of Stage 2 Alignment surveys, the preferred alignment option was taken forward (hereafter the "Proposed Alignment") and is the focus of this report.
- 1.2.3 The Proposed Development comprises of the Proposed Alignment, plus a LoD of 100 m either side of the centreline. Note the LoD of 100 m was modified in some areas to meet the Proposed Development's requirements due to the presence of specific environmental constraints (e.g., scheduled monuments).
- 1.2.4 Following consultation with NatureScot, more detailed National Vegetation Classification (NVC) surveys were undertaken in spring/summer 2024 to assign NVC community classifications to habitats within 250 m either side of the centreline of the Proposed Alignment.
- 1.2.5 The report presents the methodology and results of UK Habitat Classification (UKHab) and Habitat Condition Assessment (HCA) surveys undertaken within the Proposed Development, plus a 150 m buffer ('hereafter the 'UK Habitat Survey Area'). The location of the Proposed Development and UK Habitat Survey Area is shown in **Annex A, Figure 7.1.1: UKHab Habitat Results**.
- 1.2.6 The report also presents the methodology and results of the NVC survey and provides information to help assess the effects of the Proposed Development on peatland, carbon rich soils and Priority Peatland habitat. The location of the Proposed Development and NVC Survey Area is shown in **Annex A, Figure 7.1.4: NVC Results**.

1.3 Objectives

- 1.3.1 The purpose of the surveys was to provide a baseline description of the UK Habitat and NVC Survey Area and habitat distribution relative to the Proposed Development with particular regard to:
- mapping the extent of habitats using UKHab methodology;
 - mapping the extent of NVC communities using NVC methodology;
 - identifying the potential presence of Annex I habitat under the European Union Habitats Directive³;
 - identifying the potential presence of Scottish Biodiversity List (SBL) Priority habitats; and
 - identifying the potential presence of Priority Peatlands⁴ and potential effects from the Proposed Development, in accordance with National Planning Framework 4 (NPF4) 2023⁵.

² WSP (2023). SSEN Transmission. Chleainsaid Windfarm Connection. Alignment Selection Study Report

³ [The Habitats Directive - European Commission \(europa.eu\)](https://eur-lex.europa.eu/legal-content/en/TXT/?uri=CELEX%3A32000L0609%3A2020010100000001-10)

⁴ NatureScot (2023) Advising on peatland, carbon-rich soils and priority peatland habitats in development management. Available at: <https://www.nature.scot/doc/advising-peatland-carbon-rich-soils-and-priority-peatland-habitats-development-management#Defining+Carbon-Rich+Soil+and+Priority+Peatland+Habitat> [Accessed August 2024]

⁵ National Planning Framework 4 - gov.scot (www.gov.scot)

2. METHODOLOGY

2.1 Overview

- 2.1.1 Baseline habitat surveys were undertaken in April 2023. Surveys were led by a WSP Principal Ecologist with over seven years' experience and is 'capable' in habitat identification and evaluation of sites containing similar habitat types and species, as per the Chartered Institute of Ecology and Environmental Management (CIEEM) competency framework⁶.
- 2.1.2 NVC surveys were undertaken in May, June and July 2024. Surveys were conducted by a WSP Senior Ecologist who is a full member of CIEEM, with over 18 years' experience within ecological consultancy and holds a Level 5 Botanical Society of Britain and Ireland (BSBI) Field Identification Skills Certificate (FISC)⁷. The surveyor has also previously held the post of county bryophyte recorder for Cheshire (vice-county 58) and is a member of the BSBI, the British Bryological Society (BBS) and the British Lichen Society (BLS).

2.2 Desk Study

- 2.2.1 Initial desk-based studies were undertaken during Stage 1 Route selection⁸ and updated during Stage 2 Alignment² of the Proposed Development. Desk study results were subsequently updated in October 2023 following the confirmation of the Proposed Alignment. Desk studies were undertaken to identify a broad range of potential constraints and opportunities within the Proposed Alignment and adjacent habitat. This included the following:
- identification of designated sites and other constraints from Geographic Information System (GIS) datasets available from the NatureScot SiteLink⁹; Scotland's Environment Web¹⁰; Carbon and Peatland Map of Scotland (2016)¹¹; Native Woodland Survey of Scotland (NWSS) data¹²; Ancient Woodland Inventory (AWI)¹³; Ordnance Survey (OS) and aerial mapping;
 - identification of records of protected species, habitats and other constraints from National Biodiversity Network (NBN) Atlas¹⁴, Buglife Important Invertebrate Areas (IIA)¹⁵ and B-lines¹⁶; and
 - review of The Highland Wide Council Local Development Plan (LDP)¹⁷ and Caithness and Sutherland LDP¹⁸ to identify further environmental constraints and opportunities, such as regional level habitat designations; and
 - review of the available survey information and Environmental Impact Assessment (EIA) Report for the Chleainsaid Wind Farm¹⁹ and nearby Creag Riabhach OHL EIA Report²⁰;

⁶ CIEEM (2019a). Competency Framework. Available at: <https://cieem.net/resource/competency-framework>

⁷ Field Identification Skills Certificate – Botanical Society of Britain & Ireland (bsbi.org)

⁸ SSEN Transmission (2022): Chleainsaid Wind Farm Connection Route Selection Study Report

⁹ NatureScot (no date). SiteLink [online]. Available at: <https://sitelink.nature.scot/home> [Accessed October 2023].

¹⁰ Scottish Environment Protection Agency (no date). Scotland's Environment Web [online]. Available at: <https://map.environment.gov.scot/sewebmap/> [Accessed October 2023].

¹¹ NatureScot (2016) Carbon and Peatland 2016 Map. Available online: <https://map.environment.gov.scot/sewebmap/> [Accessed October 2023].

¹² Scottish Forestry (2020) Native Woodland Survey of Scotland. Available at: https://open-data-scottishforestry.hub.arcgis.com/datasets/6d27b064fcb471da50c8772ad0162d7_0/explore?location=57.422958%2C-4.591994%2C7.08

¹³ Scottish Government (2022). Open Data: Ancient Woodland Inventory (Scotland). Available at: <https://spatialdata.gov.scot/geonetwork/srv/eng/catalog.search?sessionId=7A479A27E04C7359A8FE067425E794B1#/metadata/A091F945-F744-4C8F-95B3-A09E6EF6AE33>

¹⁴ NBN Atlas [online]. Available at: <https://nbnatlas.org/> [Accessed October 2023].

¹⁵ Buglife (2022). Important Invertebrate Areas. Available at: <https://www.buglife.org.uk/our-work/important-invertebrate-areas/>

¹⁶ Buglife (2022). B-Lines. Available at: <https://www.buglife.org.uk/our-work/b-lines/>

¹⁷ The Highland Wide Local Development Plan (The Highland Council, 2012) [online]. Available at: https://www.highland.gov.uk/info/178/local_and_statutory_development_plans/199/highland-wide_local_development_plan (Accessed October 2023).

¹⁸ The Highland Council. (2018) Caithness and Sutherland Local Development Plan [online] Available at: https://www.highland.gov.uk/info/178/local_and_statutory_development_plans/283/caithness_and_sutherland_local_development_plan [Accessed October 2023].

¹⁹ Chleainsaid Wind Farm, Appendix 8.1: Habitats and Vegetation (2020). ESB Asset Development UK Limited.

²⁰ Creag Riabhach Wind Farm Grid Connection: Environmental Impact Assessment Report (2020), Scottish and Southern Electricity Network (SSEN).

2.3 UK Habitat Classification

2.3.1 Habitats were described and mapped following the Professional Version 1.1 of UKHab using the following documents:

- UKHab User Manual²¹ (hereafter 'UKHab User Manual');
- UKHab Field Key²²;
- UKHab Habitat Descriptions Version 1.1²³; and
- UKHab Classification Basic Edition: Suggested Symbolology for Maps²⁴.

2.3.2 The UKHab Working Group²⁵ describes UKHab as *"...a unified and comprehensive approach to classifying habitats, designed to provide a simple and robust approach to survey and monitoring"*. The dominant plant species are recorded, and habitats are classified according to their vegetation types. UKHab system comprises of a principal hierarchy (the Primary Habitats) and non-hierarchical Secondary Codes. Primary Habitats include:

- Level 1: major ecosystem categories;
- Level 2: ecosystem types;
- Level 3: broad habitat types, corresponding with UK Biodiversity Action Plan Broad Habitats and closely to the European Nature Information System;
- Level 4: more defined habitats, including Priority Habitats²⁶; and
- Level 5: further defined habitats, including Annex I Habitats²⁷ (level 5).

2.3.3 Secondary Codes can then be used to provide more information on a habitat from the following categories:

- mosaic habitats;
- habitat complexes;
- origin of habitat;
- management;
- land use;
- environmental qualifiers;
- hydrological regime; and
- green infrastructure.

2.3.4 A single Primary Habitat is assigned to each polygon, line or point feature with generally a maximum of six Secondary Codes used. Lowercase letters are used, with the levels 2 to 5 shown by the alphanumeric code and no commas are used between secondary codes as per the UKHab User Manual. Habitats are described by the Primary Habitat first (e.g. **w1h5** 'other woodland; mixed; mainly broadleaved') with Secondary Codes following (e.g. **w1h5 36 57** 'other woodland; mixed; mainly broadleaved' that is plantation with young trees - self set).

2.3.5 Point features were used for Primary Habitats if these were of conservation interest and too small to map as an area. For this survey, where possible, level 5 Primary Habitat codes were used for habitats. Target notes on habitat descriptions were taken for each habitat type. The scientific names for vascular (flowering) plant species follow

²¹ UKHab Working Group (2018a). UKHab User Manual. UKHab Working Group (UKHab Ltd), Stockport, Cheshire. Available at: <https://ecountability.co.uk/ukhabworkinggroup-ukhab/>

²² UKHab Working Group (2018b). UK Habitat Classification Field Key. UKHab Working Group (UKHab Ltd), Stockport, Cheshire. Available at: <https://ecountability.co.uk/ukhabworkinggroup-ukhab/>

²³ UKHab Working Group (2020a). UKHab Habitat Descriptions Version 1.1 UKHab Working Group (UKHab Ltd), Stockport, Cheshire. Available at: <https://ecountability.co.uk/ukhabworkinggroup-ukhab/>

²⁴ UKHab Working Group (2020b). UKHab Basic Edition: Suggested Symbolology for Maps. UKHab Working Group (UKHab Ltd), Stockport, Cheshire. Available at: <https://ecountability.co.uk/ukhabworkinggroup-ukhab/>

²⁵ UKHab (no date). The UK Habitat Classification System/ Available at: <https://ukhab.org/>

²⁶ UK BAP (2011). UK Biodiversity Action Plan (UK BAP) priority habitats. BRIG (ed. Ant Maddock). [online] Available at: <https://data.jncc.gov.uk/data/2728792c-c8c6-4b8c-9ccd-a908cb0f1432/UKBAP-PriorityHabitatDescriptions-Rev-2011.pdf>

²⁷ European Commission (1992). Council Directive 92/43/EEC (as amended), Annex I. Available at: <https://www.legislation.gov.uk/eudr/1992/43/contents>

those in the New Flora of the British Isles²⁸. Nomenclature for bryophytes follows Mosses and Liverworts of Britain and Ireland²⁹. Relative plant species abundance was estimated using the DAFOR³⁰ scale. These are presented in **Annex B** alongside a table of all secondary codes recorded within the UK Habitat Survey Area.

2.3.6 Habitats were recorded in the field using GIS enabled software. Once recorded, these habitats were later quality assured utilising GIS desktop software. Habitat symbology was ascribed following UKHab Basic Edition: Suggested Symbology for Maps²⁴; any habitats not included within the suggested symbology were given an alternative symbol. Each feature with a Secondary Code was given a target note number which is displayed on the map.

2.3.7 The metadata is summarised in **Table 2-1** for the survey to accompany the GIS shapefile output.

Table 2-1: Summary of UKHab Metadata

Metadata heading	Survey metadata
Scope and purpose of the survey	Baseline UKHab survey to inform EA and Proposed Alignment.
Area surveyed	UK Habitat Survey Area comprising of the Proposed Alignment plus 100 m limit of deviation plus 150 m buffer (to create a 500 m corridor).
Edition of UKHab Used	UKHab Professional V1.1.
The Level of UKHab Primary Hierarchy used	UK Habitat Survey Area = Level 5 (as far as reasonable possible given time of year and scale of UK Habitat Survey Area)
List of secondary code groups recorded	UK Habitat Survey Area = all Secondary Code groups except Green Infrastructure
Scoped out	Plantation coniferous woodland (w2c) assume poor condition; urban areas (u1) assume Poor condition; modified grassland (g4) assume poor condition; and crops (c1) assume poor condition.
Map Projection and unit	British National Grid in metres.
Organisation undertaking the survey	WSP UK Ltd

2.3.8 Following data collection, habitats were assessed for their potential to be SBL habitat, Highland Wide Council LPD or Caithness and Sutherland LBAP priority habitats.

2.3.9 In addition, a high-level assessment of recorded habitats potential to indicate Ground Water Dependant Terrestrial Ecosystems (GWDTE) was undertaken, following Scottish Environmental Protection Agency (SEPA) Guidance (2017)³¹.

2.4 Habitat Condition Assessment

2.4.1 Concurrently with the UKHab survey, WSP undertook an HCA of the UK Habitat Survey Area. The HCA was undertaken of Primary Habitats following Natural England Biodiversity Metric V3.1³². The results of the HCA will be reported within the Proposed Development's separate Biodiversity Net Gain Report.

²⁸ Stace C. A. (2019). New Flora of the British Isles. Fourth Edition. C&M Floristics, Suffolk.

²⁹ Atherton, I., Bosanquet, S., Lawley, M. eds. (2010). Mosses and Liverworts of the British Isles: a field guide. British Bryological Society.

³⁰ The DAFOR scale has been used to estimate the frequency and cover of the different plant species as follows: Dominant (D), Abundant (A), Frequent (F), Occasional (O), Rare (R). The term 'Locally' (L) is also used where the frequency and distribution of a species are patchy and 'Edge' (E) is also used where a species only occurs on the edge of a habitat type.

³¹ Scottish Environmental Protection Agency (SEPA) Guidance on Assessing the Impacts of Development Proposals on Groundwater Abstractions and Groundwater Dependent Terrestrial Ecosystems. Online at: <https://www.sepa.org.uk/media/144266/lups-gu31-guidance-on-assessing-the-impacts-of-development-proposals-on-groundwater-abstractions.pdf> [Accessed January 2024]

³² Natural England (2021). The Biodiversity Metric 3.1. Online at: <http://publications.naturalengland.org.uk/publication/6049804846366720> [Accessed October 2023]

2.5 NVC Survey

- 2.5.1 The NVC survey was completed between April and July 2024 following industry standard guidelines³³, classifying communities in accordance with the NVC system and published floristic tables³⁴. Dichotomous keys within Rodwell *et al.* 1991³⁵ and Averis *et al.* 2004³⁶ and dendrogram keys within Elkington *et al.* 2001³⁷ were used during the classification of heathland and mire communities.
- 2.5.2 The predefined habitat parcels were surveyed qualitatively to record dominant and constant species, sub-dominant species and other species present. Quadrat sampling was not applied as it is not always necessary if vegetation types can be reliably identified in the field using sufficient qualitative data where most NVC communities and sub-communities are defined by inter-stand frequency, not by the abundance of the constituent species. Species frequency (using the DAFOR³⁸ scale) was recorded for the main indicator species within each targeted survey area. Furthermore, qualitative information can be vital for understanding the dynamics and trends in vegetation patterns. Post-survey, any alterations to the predefined community boundaries were made in ArcGIS software.
- 2.5.3 Names of vascular plants follow Stace (2019)²⁶ with bryophytes mostly following Blockeel *et al.* (2021)³⁹ and lichens following Smith *et al.* (2009)⁴⁰. It is normal practice within ecological reports to give the common name and Latin name of plants for the first time they are used in a report and any subsequent references to the species then just use the common name. Although bryophytes (mosses liverworts and hornworts) do have official English common names, these are very rarely used in scientific literature and many English names have only been recently coined to comply with legislation requiring lists of species of conservation concern to have common names. The vast majority of lichen species do not have common names. Therefore, in this report vascular plants will be referred to by their common names after first reference but bryophytes and lichens will only use Latin names.

2.6 Priority Peatlands

- 2.6.1 One of the main aims of the NVC survey was to provide information on the potential presence of Priority Peatlands. The NPF 4⁵ recognises that significant weight should be given to address both the global climate and nature crises when considering all development proposals (Policy 1). Proposals must also protect, conserve, restore and enhance biodiversity (Policy 3). In addition, the intent of Policy 5 is to protect carbon-rich soils, restore peatlands and minimise disturbance to soils from development.
- 2.6.2 NPF4 Policy 5d, requires that ‘*where development on peatland, carbon-rich soils or priority peatland is proposed, a detailed site-specific assessment will be required*’. This should include peat depth surveys (initial, detailed and additional information), Peat Landslide Hazard Risk Assessment (PLHRA), and detailed habitat surveys (NVC), including an assessment of condition. The assessments and surveys should direct the project design and siting to ensure compliance with the mitigation hierarchy of:
- **Avoid – by removing the impact at the outset.** Development should first seek to avoid areas of peatland, carbon-rich soils and priority peatland habitat;
 - **Minimise – by reducing the impact.** Direct and indirect impacts of development should be limited to the minimum;
 - **Restore – by repairing damaged habitats.** Any habitats that are damaged by the proposal (whether direct or indirect impacts) should be restored as far as is possible; and
 - **Offset – by compensating for residual impact that remains, with preference to on-site over off-site measures.** Effective restoration and management of degraded equivalent habitat should compensate for any losses.

³³ Rodwell, J. S. (2006). NVC Users' Handbook.

³⁴ Rodwell, J. S. (Ed), et al. (1991 – 2000). British Plant Communities (5 volumes).

³⁵ Rodwell, J.S. ed. (1991) *British Plant Communities volume 2: Mires and Heaths*. Cambridge University Press. Cambridge.

³⁶ Averis, A.M., Averis, A.B.G., Birks, H.J.B., Horsfield, D., Thompson, D.B.A., Yeo, M.J.M. (2004) *An illustrated Guide to British Upland Vegetation*. Joint Nature Conservation Committee.

³⁷ Elkington, T., Dayton, N., Jackson, D.L., Strachan, I.M. (2001) *National Vegetation Classification: Field Guide to Mires and Heaths*. Joint Nature Conservation Committee.

³⁸ Relative abundance within the targeted survey area expressed as D-Dominant, A-Abundant, F-Frequent, O-Occasional, R-Rare.

³⁹ Blockeel, T.L., Hodgetts, N.G., Pilkington, S.L., Pescott, O.L. (2021) *A Census catalogue of British and Irish Bryophytes 2021*. British Bryological Society.

⁴⁰ Smith, C.W., Aptroot, A., Coppins, B.J., Fletcher, A., Gilbert, O.L., James, P.W., Wolseley, P.A. (2009) *The Lichens of Great Britain and Ireland*. British Lichen Society.

- 2.6.3 Peatlands are areas of land containing peat which support a variety of habitats. Peatlands in Scotland are dominated by blanket bog and montane bog (blanket bog above 600 m) with some upland flushes, fens and swamps, with raised bogs and fens in the lowlands. Upland peatlands' main source of water and nutrients is from rain and snow. Blanket bog (including montane bog) is identified as a priority habitat in the SBL, the LBAP and Annex I of the 'Habitats Directive'³. All peatlands within the Proposed Development are below 250 m.
- 2.6.4 Peatlands are known to be important for biodiversity and their ability to sequester carbon which slowly accumulates below ground in carbon-rich soils. They can also help alleviate some of the downstream effects of flooding by storing water and reducing peak flows. Peatlands regulate natural processes and are the largest reservoir of long-term accumulated atmospheric carbon.
- 2.6.5 Peatland can contain a variety of vegetation types, mainly consisting of mixtures of heather *Calluna vulgaris*, hare's-tail cottongrass *Eriophorum vaginatum*, common cottongrass *Eriophorum angustifolium* and *Sphagnum* moss species. Priority peatland is peatland that corresponds to the below NVC communities and shows evidence of being undisturbed and actively forming peat. The main peatland NVC communities (below 600 m) are listed below, categorised according to NatureScot⁴:

Priority peatland communities that should be completely avoided

- **M1 *Sphagnum auriculatum* bog pool community, M2 *Sphagnum cuspidatum/fallax* bog pool community and M3 *Eriophorum angustifolium* bog pool community** which occupy waterlogged depressions, shallow pools and erosion channels on bogs.

Priority peatland communities where impacts have the potential to raise issues of national interest

- **M17 *Trichophorum germanicum-Eriophorum vaginatum* blanket mire and M18 *Erica tetralix-Sphagnum papillosum* raised and blanket mire** are communities of wetter peat and have species such as purple moor-grass *Molinia caerulea*, deergrass *Trichophorum germanicum*, bog myrtle *Myrica gale* and cross-leaved heath *Erica tetralix*. The most characteristic *Sphagnum* species are *S. papillosum* and *S. capillifolium*, and, in M18, *S. magellanicum*⁴¹. Species such as round-leaved sundew *Drosera rotundifolia*, heath spotted-orchid *Dactylorhiza maculata*, bog asphodel *Narthecium ossifragum* and tormentil *Potentilla erecta* are common in the wetter M17 and M18 bogs.
- **M19 *Calluna vulgaris-Eriophorum vaginatum* blanket mire** occurs on drier substrates and has more bilberry *Vaccinium myrtillus*, cowberry *V. vitis-idaea*, crowberry *Empetrum nigrum* and *Sphagnum capillifolium*. M19 has a darker, tussocky sward and is the more common type of bog at moderate to high altitudes. Species commonly occurring in this community include cloudberry *Rubus chamaemorus* and common cow-wheat *Melampyrum pratense*.

Priority peatland communities that are unlikely to raise issues of national interest

- **M20 *Eriophorum vaginatum* blanket and raised mire** is a degraded form of M19 where the heather and most of the *Sphagnum* spp. have been eliminated by heavy grazing, repeated burning and/or atmospheric pollution.
- **M15 *Trichophorum germanicum-Erica tetralix* wet heath, M16 *Erica tetralix-Sphagnum compactum* wet heath and M25 *Molinia caerulea-Potentilla erecta* mire** are classed as blanket bog when they are on deep peat, as they are almost always a replacement for the original bog vegetation following unfavourable management such as burning on too short a rotation followed by heavy grazing.
- Impacts on these communities are unlikely to raise issues of national interest but should still follow the mitigation hierarchy. They could also be important candidates, as well other peatland communities, for measures to offset impacts from development and areas where enhancement measures could be located.

- 2.6.6 To help assess when a proposal could have a significant effect that NatureScot will consider as raising issues of national interest, an assessment framework based on guidelines for the selection of SSSI for bogs has been

⁴¹ After a detailed study of morphological characters and genetic markers (Hassel *et al.*, 2018), the former *Sphagnum magellanicum* has been split into three separate species. These now include *Sphagnum magellanicum* (only found in Tierra del Fuego on the southern tip of South America), *Sphagnum medium* and *Sphagnum divinum*. Both of the latter taxa are found in Britain and Ireland.

developed, in the form of a template. The template uses criteria including peat depth, type of bog (raised/blanket/montane), NVC communities, size of continuous unit of bog (assessed using area measurements within GIS), presence of vegetation capable of peat forming, presence of drains/cuttings, presence of scrub and presence of indicator species including brown beak-sedge *Rhynchospora fusca*, *Sphagnum austinii* and *Sphagnum fuscum*⁴².

- 2.6.7 The template is used in this report to assess the NVC communities within 250 m of the Proposed Development, as advised by NatureScot. It should be noted that peatland does not need to meet all the criteria to be considered of a quality and sensitivity sufficient for impacts to raise issues of national interest. The combination of responses to these criteria will inform the assessment by NatureScot. The template, showing the assessment of peatland areas within the Proposed Development, is attached to this report as **Annex C**.

2.7 Notes and Limitations

- 2.7.1 The results of the UKHab and NVC surveys represent a current evaluation (as opposed to one seeking to describe what the habitats were before any human interference or may become in the future). In the absence of changes in land use, hydrology, or otherwise, and depending on the sensitivity and condition of habitats identified, it is likely that habitat/NVC data remain valid for up to 18 months⁴³.
- 2.7.2 No access was available to the Dalchork Substation for survey, however, as the area comprises electrical infrastructure on a concrete base it could be mapped from beyond the boundary fencing and therefore is not considered a limitation to the assessment.

⁴² This taxon now includes two species within the British Isles, *S. fuscum* and *S. beothuk*.

⁴³ CIEEM (2019b). On the Lifespan of Ecological Reports & Surveys [online]. Available at: <https://cieem.net/wp-content/uploads/2019/04/Advice-Note.pdf>

3. RESULTS

3.1 Desk Study

Designated Sites

- 3.1.1 Details of all (non-ornithological) European and internationally designated sites which occur within 10 km of the Proposed Development identified during the desk study exercise are described in **Table 3-1**, listed in order of distance and illustrated in **Annex A, Figure 7.1.2** and **Figure 7.1.3**. There were no non-ornithological national designations identified within 2 km of the Proposed Development.

Table 3-1: Designated Sites

Site Name	Reason for Designation	Distance and direction
European and Internationally Designated Sites (non-ornithological) (10 km)		
Caithness and Sutherland Peatlands Special Area of Conservation (SAC)	Acid peat-stained lakes and ponds Blanket bog Clear-water lakes or lochs with aquatic vegetation and poor to moderate nutrient levels Depressions on peat substrates Marsh saxifrage <i>Saxifraga hirculus</i> Otter <i>Lutra lutra</i>	3.66 km south-west
Caithness and Sutherland Peatlands Ramsar	Blanket bog	3.66 km south-west
River Naver SAC	Freshwater pearl mussel <i>Margaritifera margaritifera</i> Atlantic salmon <i>Salmo salar</i>	9.87 km north

- 3.1.2 A B-Line¹⁶ priority landscape was recorded within 2 km of the Proposed Development. This is an identified area of landscape connectivity between important habitats for UK pollinators.
- 3.1.3 The Carbon and peatland 2016 map¹¹ identified the presence of Class 1, 2 and 3 peatland within the Proposed Development and a 2 km search area.

Ancient Woodland

- 3.1.4 Numerous pockets of native woodland were identified along the Proposed Development during the desk study exercise. In addition, two areas of Ancient Woodland (of semi-natural origin) listed on the AWI were recorded within 2 km of the Proposed Development, the closest of which is located 1.7 km north.

3.2 UKHab Survey Results

Overview

- 3.2.1 UK Habitats recorded within the Proposed Development and wider UK Habitat Survey Area are illustrated on **Annex A, Figure 7.1.1** and a species list with scientific names provided in **Annex B, Table B-1**. Secondary Codes recorded are presented in **Annex B, Table B-2**.
- 3.2.2 The Proposed Development lies within a hilly landscape, containing conifer plantation interspersed with upland habitat types on exposed hillsides, comprised mainly of acid grassland and heathland habitats areas of degraded blanket bog habitat throughout. Sensitive habitats recorded within the Proposed Alignment include Annex I habitat Wet heathland with cross-leaved heath; upland (h1b6) (H4010). Several SBL priority habitats, also listed as Highland Nature Biodiversity Action Plan (BAP) habitats were recorded within the Proposed Development including: Upland

heathland (h1b), Other Scot's Pine woodland (w2b), Wet woodland (w1d), Degraded blanket bog (f1a6) and Purple moor grass and rush pastures (f2b).

Survey Results – Linear Based Habitats

- 3.2.3 A total of **2** habitats were recorded as liner-based habitats across the UK Habitat Survey Area; Other rivers and streams (r2b) equating to a total length of **6.33 km** and Other hedgerows (h2b) which totalled a length of **0.06 km**. Full descriptions of linear-based habitats are provided below.

Rivers

Other river and streams

- 3.2.4 This habitat transected the UK Habitat Survey Area throughout and included watercourses such as Feith Osdail to the south, and Allt Chaiseagail to the north, respectively along with numerous other unnamed burns. This habitat also qualifies as a SBL Priority Habitat under Rivers and Highland BAP habitat action plan habitat under Freshwater: Rivers, lakes and ponds.

Hedgerows

Other hedgerows

- 3.2.5 This habitat was contained to the north of the UK Habitat Survey and consisted of hawthorn dominant planted hedgerows surrounding agricultural buildings and residential houses. This habitat also qualifies as SBL Priority Habitat.

Survey Results – Areas Based Habitats

- 3.2.6 A total of **15** habitats were recorded as area-based habitats across the UK Habitat Survey Area which are listed in **Table 3-2** below summarised alongside their conservation status and GWDTE potential, along with the total area⁴⁴ covered in the UK Habitat Survey Area by each habitat type and percentage of cover⁴⁵.
- 3.2.7 Full descriptions of the area-based habitats recorded within the UK Habitat Survey Area are also provided below, grouped into broad habitat categories and listed in order of their alpha-numeric codes below, as depicted by the UKHab User Manual.

Table 3-2: UKHab Survey results for area-based habitats

UKHab Primary Habitat	Total Area per habitat type (ha)	Percentage cover per habitat type (%)	Conservation Status	GWDTE Potential
g1b6 – Other upland acid grassland	6.75	1.15		Yes
g1c – Bracken	1.48	0.25	-	
g4 – Modified grassland	0.46	0.08	-	
h1b – Upland heathland	142.42	24.36	SBL priority habitat: Upland Heathland Highland BAP habitat action plan: Upland heathland	

⁴⁴ Rounded to three decimal places.

⁴⁵ Rounded to three decimal places.

UKHab Primary Habitat	Total Area per habitat type (ha)	Percentage cover per habitat type (%)	Conservation Status	GWDTE Potential
h1b6 – Wet heathland with cross-leaved heath; upland (H4010)	8.09	1.38	Annex 1: 4010 Northern Atlantic wet heaths with <i>Erica tetralix</i> SBL priority habitat: Upland Heathland Highland BAP habitat action plan: Upland heathland	Yes
w2c – Other coniferous woodland	190.21	32.54	Highland BAP habitat action plan: Woodland and Forest	
w2b Other Scot's Pine woodland	11.15	1.91	Highland BAP habitat action plan: Woodland and Forest	
w1g7 – Other broadleaved woodland types	0.6	0.1	Highland BAP habitat action plan: Woodland and Forest	
w1d Wet woodland	9.98	1.71	SBL priority habitat: Wet woodland Highland BAP habitat action plan: Woodland and Forest	Yes
f1a6 – Degraded blanket bog	193.88	33.17	SBL priority habitat: Blanket bog Highland BAP habitat action plan: Peatland and Wetland	Yes
f2b – Purple moor grass and rush pastures	2.58	0.44	SBL priority habitat: Purple moor-grass & rush pastures Highland BAP habitat action plan: Peatland and Wetland	Yes
u1b5 - Buildings	0.07	0.01	-	
u1a Open Mosaic Habitats on Previously Developed Land	0.46	0.08	SBL priority habitat: Open mosaic habitats on previously developed land	
u1b Developed land; sealed surface	1.52	0.26	-	
u1c Artificial unvegetated, unsealed surface	14.89	2.55	-	
Total	584.54	100.00		

Grassland

Other upland acid grassland

- 3.2.8 This habitat was found throughout the UK Habitat Survey Area and was found to be dominated by common bent *Agrostis capillaris*, sweet vernal grass *Anthoxanthum odoratum*, purple moor grass and heath rush *Juncus squarrosus* with abundant mat-grass *Nardus stricta* and bog myrtle. Frequent species recorded within this habitat included soft rush *Juncus effusus* and *Sphagnum* species with occasional gorse *Ulex europaeus*, bell heather *Erica cinerea*, sheep's sorrel *Rumex acetosella*, wavy hair grass *Avenella flexuosa*, broad-leaved dock *Rumex obtusifolius*, rosebay willowherb *Chamaenerion angustifolium* and foxglove *Digitalis purpurea*.

Bracken

- 3.2.9 This habitat was found in one area of the UK Habitat Survey Area and was found to be dominated by bracken *Pteridium aquilinum*. Frequent species recorded within this habitat include soft rush, broad-leaved dock, and foxglove.

Modified grassland

- 3.2.10 This habitat was found in two small parcels, north and south of the UK Habitat Survey Area and comprised improved grassland, recently managed through mowing in places. White clover *Trifolium repens* and perennial rye grass *Lolium perenne* were found to dominate this area with abundant cock's-foot *Dactylis glomerata* and creeping buttercup *Ranunculus repens*. Occasional species recorded within this habitat included soft rush, broadleaved dock, sheep's sorrel, crested dogs-tail *Cynosurus cristatus*, Yorkshire fog *Holcus lanatus*, creeping thistle *Cirsium arvense*, sweet vernal grass and daisy *Bellis perennis*.

Heathland and Shrub

Upland heathland

- 3.2.11 Upland heathland was located throughout the UK Habitat Survey Area. Upland heathland qualifies as a SBL Priority Habitat. This habitat was characterised by dwarf shrubs including abundant heather and occasional bilberry. Heath rush, soft rush and purple moor grass were recorded in abundance. Frequent species recorded include Scot's pine *Pinus sylvestris* saplings, bog myrtle, mat grass and sheep's sorrel. Rosebay willowherb, hare's-tail cotton grass, foxglove, gorse, reindeer lichen *Cladonia* spp., broom *Cytisus scoparius*, cross-leaved heath, *Sphagnum* species, broadleaved dock and wavy hair-grass were recorded occasionally throughout this habitat.

Wet heathland with cross-leaved heath; upland (H4010)

- 3.2.12 Wet heath contained abundant heather, cross-leaved heath, purple moor grass and bog myrtle. Frequent species recorded include heath rush, *Sphagnum* sp., bog asphodel. Occasional species include soft rush, rosebay willowherb, sharp-flowered rush *Juncus acutiflorus*, common haircap *Polytrichum commune* and broom, Scots pine was found to be scattered throughout this habitat. This habitat qualifies as both a SBL Priority Habitat and Annex I habitat.

Woodland

Other coniferous woodland

- 3.2.13 This habitat was frequented by Sitka spruce *Picea sitchensis*, larch *Larix decidua*, Douglas fir *Pseudotsuga menziesii* and Scot's pine with occasional birch *Betula* sp. The understorey was frequented by heather and *Cladonia* lichen with occasional species such as gorse, bog myrtle, cotton grass, purple moor-grass, rosebay willowherb, soft rush, broom, soft rush, curled dock *Rumex crispus*, creeping thistle and Yorkshire fog. Common haircap, willow *Salix* sp. and cross-leaved heath were present but rare in this habitat.

Other Scot's Pine woodland

- 3.2.14 Scot's pine was found to dominate these woodlands. The understorey of this habitat was found to comprise frequent purple moor-grass, bog myrtle and occasional heather, hares-tail cotton grass and *Cladonia* lichen. Other Scot's Pine woodland also qualifies as a SBL Priority Habitat.

Other woodland; broadleaved

- 3.2.15 Immature planted young trees dominated by birch sp. with occasional willow, alder *Alnus glutinosa* and understorey of occasional rosebay willowherb, mosses, curled dock, soft rush and Yorkshire fog.

Wet woodland

- 3.2.16 Birch and, willow and alder dominate this habitat along with rare Scot's pine. This habitat was found to contain an understory frequented by heather and mosses and occasional bog myrtle. This habitat qualifies as a SBL Priority Habitat.

Wetland

Degraded Blanket bog

- 3.2.17 This habitat is located throughout the central and northern portion of the Proposed Development. Degraded blanket bog is a SBL Priority Habitat. This habitat contains abundant cross leaved heath and heather with occasional bog asphodel, hares-tail cottongrass, *Cladonia* lichen and *Sphagnum*. Purple moor grass and young downy birch *Betula pubescens*, were recorded frequently throughout this habitat. Common haircap, willow, gorse, curled dock, creeping buttercup, marsh thistle *Cirsium palustre*, sheep's sorrel, bog pond weed *Potamogeton polygonifolius*, and soft rush were recorded occasionally along with rare gorse, creeping thistle and rosebay willowherb recorded within this habitat.

Purple moor grass and rush pastures

- 3.2.18 This habitat was located in a small low-lying area bordering a watercourse. This habitat was found to be dominated by soft rush, with abundant purple-moor grass. Wavy hair grass, cross-leaved heath, bog myrtle and tormentil *Potentilla erecta* were recorded occasionally within this habitat. Purple moor grass and rush pastures is a SBL Priority Habitat.

Urban

Buildings

- 3.2.19 Several buildings were recorded within the UK Habitat Survey Area, with associated gardens, farm buildings, sheds, and driveways.

Open Mosaic Habitats on Previously Developed Land

- 3.2.20 This habitat was recorded in areas which comprised of a mosaic of grassland and developed land associated with farming infrastructure.

Developed land; sealed surface

- 3.2.21 This habitat comprised of access tracks associated with both forestry and farming operations within the UK Habitat Survey Area.

Artificial unvegetated, unsealed surface

- 3.2.22 This habitat consisted of stone and gravel access tracks, in various states of use associated with forestry operations in the area.

3.3 NVC Survey Results

- 3.3.1 NVC communities recorded within 250 m of the centreline of the Proposed Development are shown and described in **Table 3-2** below and are illustrated in **Annex A, Figure 7.1.4**. NVC communities are named in this report, using the latest plant species names and may therefore differ from those shown in British Plant Communities volumes 1-5, although alpha-numeric codes of all communities are the same as British Plant Communities. Indicative species lists for numbered NVC areas are shown in **Annex B, Table B-3** with numbered NVC areas assessed against NatureScot criteria for Priority Peatlands in **Annex C**.

Table 3-3: NVC Survey results

NVC Community	Numbered Areas (shown on NVC Map-Annex A-Figure 7.1.4)	Total Area of NVC Community (ha)	NVC Community Description	Corresponding UKHab Classification	Priority Peatland (likely NatureScot Status)
M4 <i>Carex rostrata-Sphagnum fallax</i> mire	22, 40, 43, 82	1.82	The M4 community was mostly present as small patches within larger expanses of NVC communities such as M15 or M25, but there was one large area of M4 vegetation, towards the north-east of the Proposed Development (Area 82). The M4 community is dominated by bottle sedge <i>Carex rostrata</i> , usually with a carpet of <i>Sphagnum</i> and/or <i>Polytrichum commune</i> below, with few other species present. It is typically found on areas of wet peat, with some lateral water movement or in hollows with stagnant water and is the most acidic type of mire containing bottle sedge (compared to M5 <i>Carex rostrata-Sphagnum squarrosum</i> and M8 <i>Carex rostrata-Sphagnum warnstorffii</i> mires).	f2c Upland flushes, fens and swamps	No
M6c <i>Carex echinata-Sphagnum fallax/auriculatum</i> mire-<i>Juncus effusus</i> sub-community	14, 25, 39, 41, 44, 53, 60, 68, 80	7.16	The M6c sub-community was also present as small, scattered patches and was particularly evident along the line of the existing power line, occurring where there were wet hollows and seepage areas. The different M6 sub-communities are defined by the dominant rush or sedge species within the sward, all of which occur over a carpet of <i>Sphagnum</i> and/or <i>Polytrichum commune</i> . In the case of the M6c sub-community, the dominant species is soft rush but at the Proposed Development site bulbous rush was often more frequent than soft rush. Bulbous rush is a pioneer species which will often quickly colonise bare, disturbed ground, such as beneath the existing power lines. The community overall is species-poor, dominated by rushes/sedges and <i>Sphagnum</i> and/or <i>Polytrichum commune</i> .	f2c Upland flushes, fens and swamps	No
M15 <i>Trichophorum germanicum-Erica tetralix</i> wet heath	17, 18, 19, 22, 26, 27, 109, 112	42.00	The M15 community was most extensive at the northern end of the Proposed Development, around the Dalnessie Estate (Areas 109 and 112), with smaller scattered patches to the north of Dalchork. This community normally occurs on shallow, wet peat and is common throughout north and west Scotland. The typical species include mixtures of heather, cross-leaved heath, deergrass and purple moor-grass, with some tormentil, bog asphodel and common cottongrass. Although they contain many of the same species and often appear similar, the main difference between wet heath communities (M15 and M16) and mire/blanket bog communities (M17, M18, M19 and M20) is the scarcity of hare's-tail cottongrass and <i>Sphagnum papillosum</i> within the wet heath communities. <i>Sphagnum</i> is often frequent in M15, but usually consists mostly of <i>S. fallax</i> , <i>S. palustre</i> , <i>S. auriculatum</i> and <i>S. capillifolium</i> , with <i>S. papillosum</i> and <i>S.</i>	h1b6 Wet heathland with cross-leaved heath; upland (H4010)	No

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NVC Community	Numbered Areas (shown on NVC Map-Annex A-Figure 7.1.4)	Total Area of NVC Community (ha)	NVC Community Description	Corresponding UKHab Classification	Priority Peatland (likely NatureScot Status)
			<i>magellanicum</i> s.l. being rare. <i>S. papillosum</i> is one of the main peat forming species within the British Isles. Although the M15 habitat is unlikely to be peat forming, it is an Annex I Habitat (Northern Atlantic wet heaths with <i>Erica tetralix</i> -H4010).		
M17 <i>Trichophorum germanicum</i>-<i>Eriophorum vaginatum</i> blanket mire	29, 49, 94, 111	18.89	The M17 community was present as small patches within the Proposed Development, with a more extensive area to the north, around the Dalnessie Estate. Although the M15 and M17 towards the north of the Proposed Development are mapped as separate areas on the NVC map, there was small-scale variation across the area, resulting in the formation of a habitat mosaic in some areas, with small, intricate patterns of mixed M15 and M17, too small to be mapped at the chosen mapping scale. The mapping boundaries show the dominant NVC community within the area. M17 can be distinguished from wet heath (M15) by the frequent occurrence of hare's-tail cottongrass and <i>S. papillosum</i> . M17 is classed by NatureScot as being a Priority Peatland community where impacts have the potential to raise issues of national interest and is an Annex I Habitat (Blanket Bogs-H7130).	f1a5 Blanket bog (H7130)	Yes
M18a <i>Erica tetralix</i>-<i>Sphagnum papillosum</i> raised and blanket mire-<i>Sphagnum medium/divinum</i>-<i>Andromeda polifolia</i> sub-community	73, 74, 81, 101	17.08	The M18 community was present as four moderately sized patches, the largest of which occurred at Area 81. This mire community is very similar to the M17 community but in M18 there is usually less deergrass present, and the <i>Sphagnum</i> component contains more <i>S. papillosum</i> and sometimes <i>S. magellanicum</i> s.l., with <i>S. capillifolium</i> usually being dominant within M17 mires. Another scarce <i>Sphagnum</i> (<i>S. austinii</i>) also occurs within M18 mires and is listed as a rare feature within NatureScot criteria used to assess the potential interest of Priority Peatlands. M18 is classed by NatureScot as being a Priority Peatland community where impacts have the potential to raise issues of national interest and is an Annex I Habitat (Blanket Bogs-H7130). During the survey of Area 81, <i>S. austinii</i> was found at three locations, towards the eastern end of the area. Locations were: <ul style="list-style-type: none"> NC 61582 14170. A single hummock 0.5 m x 0.5m NC 61587 14165. Three hummocks within an area of 2 m x 1 m 	f1a5 Blanket bog (H7130)	Yes

NVC Community	Numbered Areas (shown on NVC Map-Annex A-Figure 7.1.4)	Total Area of NVC Community (ha)	NVC Community Description	Corresponding UKHab Classification	Priority Peatland (likely NatureScot Status)
			<ul style="list-style-type: none"> NC 61593 14161. Two hummocks merged within an area of 1.5 m x 1m. One hummock was covered in <i>Pleurozium schreberi</i>, which was removed during the survey. 		
M19 <i>Calluna vulgaris-Eriophorum vaginatum</i> blanket mire	78, 83,	2.64	The M19 community is dominated by heather and hare's-tail cottongrass, with other constant species including common cottongrass and <i>Sphagnum capillifolium</i> . <i>S. papillosum</i> is scarce in this community, compared to M18 and deergrass is far less frequent than in the M17 community. M19 is classed by NatureScot as being a Priority Peatland community where impacts have the potential to raise issues of national interest and is an Annex I Habitat (Blanket Bogs-H7130).	f1a5 Blanket bog (H7130)	Yes
M20 <i>Eriophorum vaginatum</i> blanket and raised mire	52	0.20	M20 <i>Eriophorum vaginatum</i> blanket and raised mire is dominated by hare's-tail cottongrass, with the only other constant species being common cottongrass. It is very species poor and can sometimes consist almost entirely of hare's-tail cottongrass. It is like a degraded form of M19 where the heather and most of the <i>Sphagnum</i> spp. have been eliminated by heavy grazing, repeated burning and/or atmospheric pollution. As such NatureScot, class M20 as a Priority Peatland that is unlikely to raise issues of national interest.	f1a6 Degraded blanket bog	No
M23b <i>Juncus effusus/acetiflorus-Galium palustre</i> rush pasture-<i>Juncus effusus</i> sub-community	107	0.64	A single area of M23b occurred to the south of Dalnессie. This sub-community (M23b) is dominated by soft rush and occurred within a hollow on farmland, with acid grassland (U4) to the west and neutral grassland (MG6) to the north. This type of habitat is very common on farmland throughout western and northern Britain on ground which is kept wet throughout the year by flushing or seepage.	f2b Purple moor-grass and rush pastures	No
M25 <i>Molinia caerulea-Potentilla erecta</i> mire	12, 13, 20, 24, 38, 45, 46, 47, 48, 58, 61, 63,	177.11	The M25 community was the most widespread NVC community across the Proposed Development. It is dominated by tussocks of purple moor-grass, with other frequent species including tormentil, cross-leaved heath and common cottongrass. It is a very species-poor community and often evolves from mire	f1a6 Degraded blanket bog	No

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NVC Community	Numbered Areas (shown on NVC Map-Annex A-Figure 7.1.4)	Total Area of NVC Community (ha)	NVC Community Description	Corresponding UKHab Classification	Priority Peatland (likely NatureScot Status)
	64, 66, 69, 70, 71, 72, 79, 84, 87, 90, 92, 97, 98, 102, 103, 104, 110		communities (M17, M18, M19 and M20) which have been subject to unfavourable management. Therefore, the most appropriate UKHab classification is for degraded blanket bog f1a6.		
H9 <i>Calluna vulgaris</i>-<i>Avenella flexuosa</i> heath	4, 7, 9, 10, 28, 106	48.90	The areas classified as heathland were mostly very disturbed and consisted predominantly of regenerating heather, patches of wavy hair-grass and conifer seedlings/saplings. Although the areas present are not a particularly good fit with typical H9 heathland, the areas have been assigned to H9 as the H9 community is the most species-poor type of dry heathland vegetation, typically consisting of an even-aged monoculture of <i>Calluna vulgaris</i> , on dry peat. Associates include wavy hair-grass and bryophytes growing beneath the heather canopy including <i>Hypnum jutlandicum</i> , <i>Dicranum scoparium</i> and <i>Pohlia nutans</i> . Dry heaths are normally classed as Annex I Habitat (Dry Heaths: upland-H4030) but these examples may not qualify due to their highly disturbed nature. Some of the areas marked as H9 had patches of dense conifer growth.	h1b5 Dry heaths; upland (H4030)* ⁴⁶	No
MG6 <i>Lolium perenne</i>-<i>Cynosurus cristatus</i> grassland	108	0.23	A single area of semi-improved neutral grassland was present near to the farm at Dalnessie. The sward was dominated by perennial rye-grass and crested dog's-tail, with abundant white clover and other species typical of intensively managed lowland swards. The area was used as sheep grazing and merged into acid grassland (U4) and a rush-dominated hollow (M23b) to the south.	g3c6 <i>Lolium</i> - <i>Cynosurus</i> neutral grassland	No
U4 <i>Festuca ovina</i>-<i>Agrostis capillaris</i>-<i>Galium saxatile</i> grassland	3, 6, 8, 88, 105	2.39	U4 acid grassland was present in small amounts throughout the Proposed Development, although many of the locations are not shown on the map as the patches were too small to represent on the map. It appeared to be of a similar species composition throughout, being dominated by sheep's fescue, common bent, heath bedstraw, sweet vernal-grass, tormentil and the moss <i>Rhytidiadelphus squarrosus</i> .	g1b6 Other upland acid grassland	No
U20 <i>Pteridium aquilinum</i>-<i>Galium saxatile</i> community	5	4.12	Patches of bracken were present towards the south of the Proposed Development, to the north of Dalchork substation. The U20 community is typically species poor and in places consisted of a monoculture of bracken.	g1c Bracken	No

⁴⁶ The dry heathland is unlikely to qualify as Annex I Priority Habitat as it is mostly still very disturbed and recently re-generating within areas of clear-felled coniferous plantation.

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NVC Community	Numbered Areas (shown on NVC Map-Annex A-Figure 7.1.4)	Total Area of NVC Community (ha)	NVC Community Description	Corresponding UKHab Classification	Priority Peatland (likely NatureScot Status)
Unclassified-Coniferous Plantation	11, 21, 23, 31, 32, 33, 34, 36, 37, 51, 54, 55, 56, 57, 59, 62, 65, 75, 85, 86, 91, 93, 95	159.26	The largest single habitat type within the Proposed Development was Unclassified-Coniferous Plantation. No attempt was made to assign an NVC classification to these areas which consisted of very closely spaced Scots pine <i>Pinus sylvestris</i> and non-native species including Sitka spruce <i>Picea sitchensis</i> and Douglas fir <i>Pseudotsuga menziesii</i> .	w2c Other coniferous woodland	No
Unclassified-Other	1, 2, 15, 16, 30, 35, 42, 50, 67, 76, 77, 89, 96, 99, 100	114.90	The majority of land classified as Unclassified-Other consisted of areas of recently felled conifer plantation which were very disturbed and often devoid of living vegetation (Areas 30, 35 and 50). Other unclassified areas included hard standing at Dalchork substation (Area 1) and the settlement at Dalnessie (Area 96), an area of unclassified neutral grassland at the substation (Area 99), habitat mosaics (Areas 15 and 16), an area of recently planted deciduous woodland (Area 100) and mounds within large expanses of M25 with conifer saplings/young trees establishing (Areas 76 and 77).	NA	NA

3.4 Priority Peatlands

3.4.1 Numbered NVC areas were assessed against NatureScot criteria for Priority Peatlands in the NatureScot template **Annex B, Table B-4**. The following areas were identified as Good or of Potential National Interest using the criteria within the NatureScot template:

- **Area 29 (M17/M2) Good:** This area consisted primarily of M17 *Trichophorum germanicum-Eriophorum vaginatum* blanket mire, with a few small pools (too small to map) with *Sphagnum cuspidatum* (M2 *Sphagnum cuspidatum/fallax* bog pool). Assessed as Good due to having vegetation capable of forming peat. This area is located approximately 100 m west of the Proposed Alignment and should therefore not be directly affected.
- **Area 49 (M17/M2) Good:** This area consisted primarily of M17 *Trichophorum germanicum-Eriophorum vaginatum* blanket mire, with a few small pools (too small to map) with *Sphagnum cuspidatum* (M2 *Sphagnum cuspidatum/fallax* bog pool). Assessed as Good due to having vegetation capable of forming peat. This area is located approximately 90 m west of the Proposed Alignment and should therefore not be directly affected.
- **Areas 73 and 74 (M18a) Good:** These areas consisted of M18a *Erica tetralix-Sphagnum papillosum* raised and blanket mire-*Sphagnum medium/divinum-Andromeda polifolia* sub-community. Assessed as Good due to having vegetation capable of forming peat. Area 73 is located approximately 200 m west of the Proposed Alignment and should therefore not be directly affected. Area 74 is located approximately 250 m west of the Proposed Alignment and should therefore not be directly affected.
- **Area 78 (M19) Good:** This area consisted of M19 *Calluna vulgaris-Eriophorum vaginatum* blanket mire. Assessed as Good due to having vegetation capable of forming peat. Area 78 is located approximately 120 m north of the Proposed Alignment and should therefore not be directly affected.
- **Area 81 (M18a) Potential National Interest:** This area consisted of M18a *Erica tetralix-Sphagnum papillosum* raised and blanket mire-*Sphagnum medium/divinum-Andromeda polifolia* sub-community. Assessed as Potential National Interest due to *Sphagnum austinii* being recorded during NVC survey. Area 81 is located approximately 50 m north of the Proposed Alignment, with a road separating it from the location of the poles. Due to the road being raised above and forming a barrier to Area 81 from the works area it is assumed that this area will not be directly affected.
- **Area 83 (M19) Good:** This area consisted of M19 *Calluna vulgaris-Eriophorum vaginatum* blanket mire. Assessed as Good due to having vegetation capable of forming peat. Area 83 is located directly to the south of the Proposed Alignment. This location is at the junction of two roads/forestry tracks, with Area 83 located south of the road. Therefore, it is assumed that all works will take place from the road, with the land to the south unaffected.
- **Area 94 (M17) Good:** This area consisted of M17 *Trichophorum germanicum-Eriophorum vaginatum* blanket mire. Assessed as Good due to having vegetation capable of forming peat. This area is located approximately 190 m south of the Proposed Alignment and should therefore not be directly affected.
- **Area 101 (M18a) Good:** This area consisted of M18a *Erica tetralix-Sphagnum papillosum* raised and blanket mire-*Sphagnum medium/divinum-Andromeda polifolia* sub-community. Assessed as Good due to having vegetation capable of forming peat. This area is located approximately 130 m west of the Proposed Alignment and should therefore not be directly affected.
- **Area 111 (M17) Good:** This area consisted of M17 *Trichophorum germanicum-Eriophorum vaginatum* blanket mire. Assessed as Good due to having vegetation capable of forming peat. This area is beneath the alignment for a distance of approximately 250 m. This area will be directly affected by the Proposed Alignment. Although mapped as M17, the vegetation in this area also consists of small-scale mosaics with M15.

4. CONCLUSIONS

- 4.1.1 This Ecology Technical Report provides a baseline description of UKHab habitats and NVC communities within the Survey Area to inform the EA. The Proposed Development lies within a hilly landscape, containing conifer plantation interspersed with upland habitat types on exposed hillsides, comprised mainly of acid grassland and heathland habitats with areas of degraded blanket bog habitat throughout.
- 4.1.2 No international and nationally designated sites lie within the boundary of the Proposed Development. No no-ornithological nationally designated sites were recorded within 2 km of the Proposed Development. Within a 10 km buffer, three statutory designated sites (non-ornithological) were recorded, the closest of which being Caithness and Sutherland Peatlands SAC and Caithness and Sutherland Peatlands Ramsar, which both lie 3.66 km to the south-west.
- 4.1.3 One Annex I and priority SBL habitat was recorded within the UK Habitat Survey Area: Wet heathland with cross-leaved heath; upland (H4010) (h1b6). Five further SBL priority habitats, also listed as Highland Nature BAP habitats were recorded within the UK Habitat Survey Area including: Upland heathland (h1b), Other Scot's Pine woodland (w2b), Wet woodland (w1d), Degraded blanket bog (f1a6) and Purple moor-grass and rush pastures (f2b).
- 4.1.4 Numerous Other rivers and streams (r2a) flow through the valleys of the UK Habitats Survey Area, including Feith Osdail to the south and Allt Chaiseagail to the north, respectively along with unnamed burns. These watercourses also qualify as a SBL habitat.
- 4.1.5 During the NVC survey seven mire communities (M4, M6c, M17, M18a, M19, M20 and M25), one wet heath community (M15) and one dry heath community (H9) were identified within 250 m of the Proposed Alignment. Nine areas were assessed as Good, using the criteria within the NatureScot Priority Peatlands template.
- 4.1.6 One area was assessed as being of Potential National Interest using the criteria within the NatureScot Priority Peatlands template. This was Area 81, an area of M18a *Erica tetralix-Sphagnum papillosum* raised and blanket mire-*Sphagnum medium/divinum-Andromeda polifolia* sub-community. It was assessed as Potential National Interest due to *Sphagnum austinii* being recorded during NVC survey. Area 81, however, is located approximately 50 m north of the Proposed Alignment, with a road separating it from the location of the poles. Due to the road being raised above and forming a barrier to Area 81 from the works area it is assumed that this area will not be directly affected.
- 4.1.7 The only area that will be directly affected is an area of M17 *Trichophorum germanicum-Eriophorum vaginatum* blanket mire. It was assessed as Good due to having vegetation capable of forming peat. This area is beneath the alignment for a distance of approximately 250 m, towards the north of the Proposed Development.

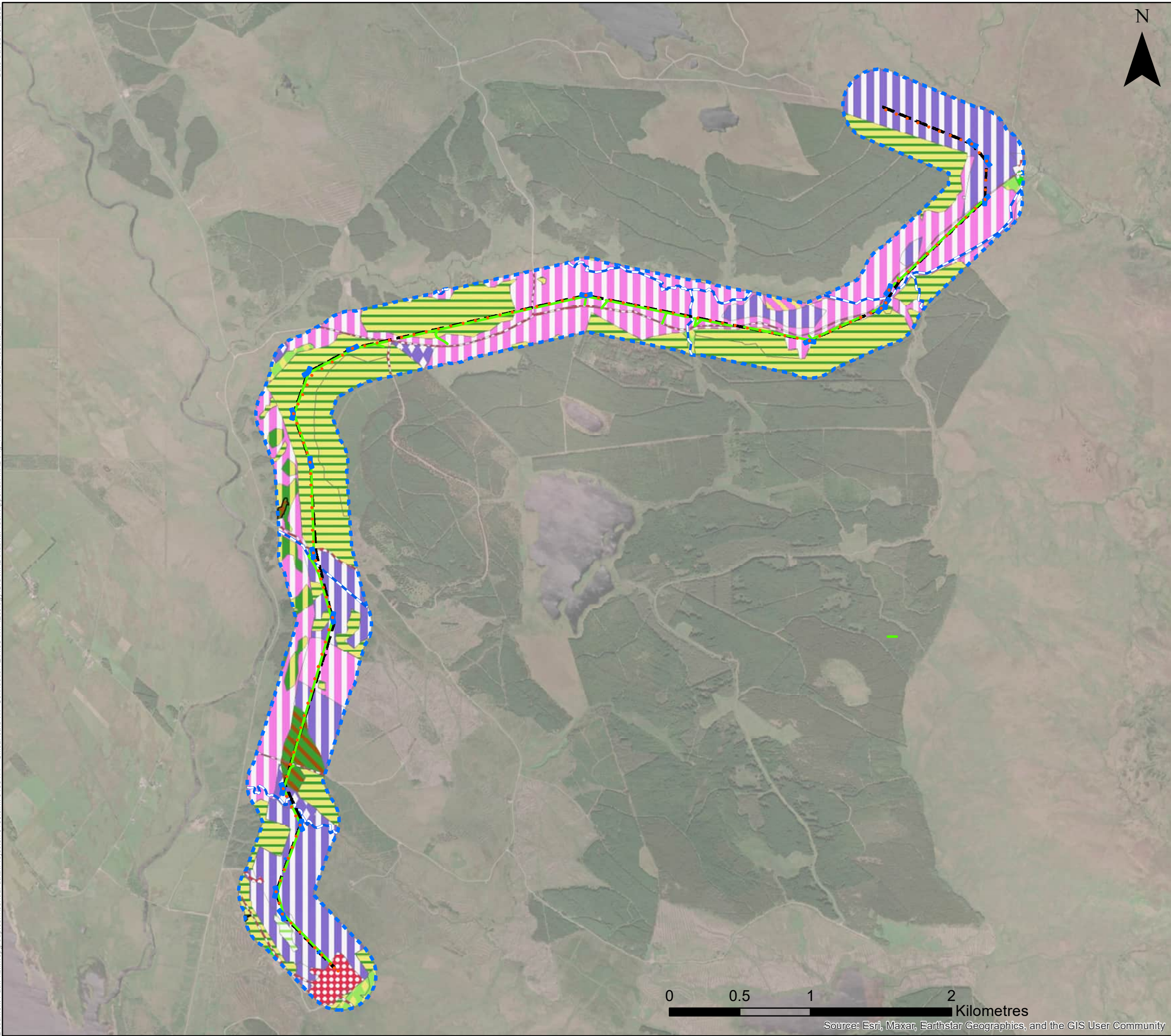
Annex A Figures

Figure 7.1.1: UK Habitat Survey Results

Figure 7.1.2: International and European Designated Sites within 10 km

Figure 7.1.3: National, Local and Woodland Designations within 2 km

Figure 7.1.4: NVC Results




Key:

- Proposed Alignment
- UK Habitat Survey Area - 500 m corridor
- Temporary areas of habitat loss**
- Tower Trenching
- Proposed Pulling Position
- Temporary Access (proposed open ground/temporary trackway system)

UK Habitats

- f1a6 - degraded blanket bog
- f2b - purple moor grass and rush pastures
- g1b6 - other upland acid grassland
- g1c - bracken
- g4 - modified grassland
- h1b - upland heathland
- h1b6 - wet heathland with cross-leaved heath, upland (H4010)
- u1b - developed land, sealed surface
- u1b5 - buildings
- u1c - artificial unvegetated unsealed surface
- u1d - suburban mosaic of developed/natural surfaces
- w1d - wet woodland
- w1g7 - other broadleaved woodland types
- w2b - other scots pine woodland
- w2c - other coniferous woodland
- h2b - other hedgerows
- r2b - other rivers and streams
- 00 - Secondary Codes



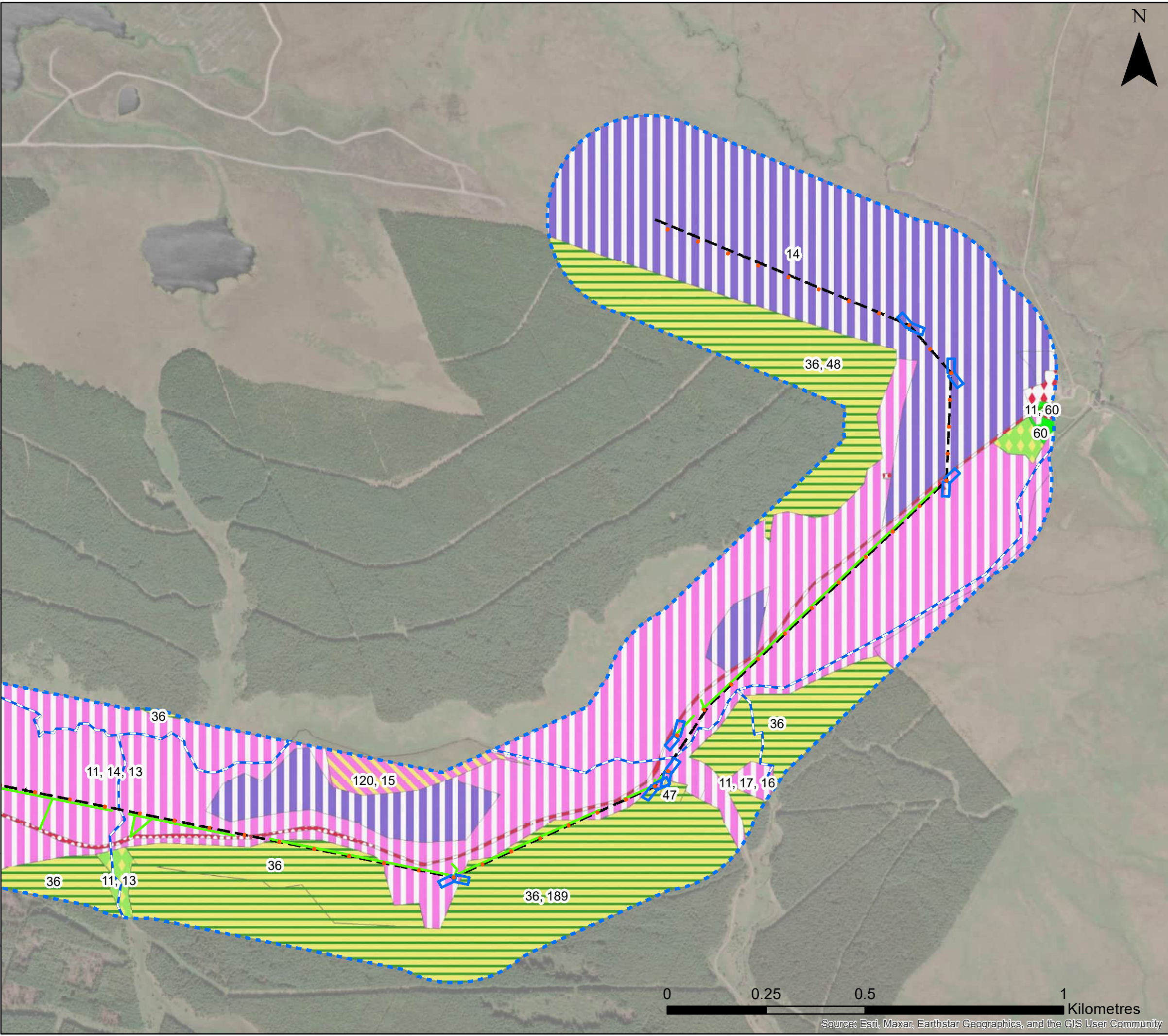
Client: 

Project: Chleainsaid Wind Farm 132 kV OHL Connection

Title: Figure 7.1.1
UK Habitat Survey Results
Page 1 / 5

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Date Saved: 9/2/2024
Document Path: \\uk.wspgroup.com\\central_data\\projects\\70109xxx\\70109477 - Chleainsaid WF Connection EIA\\03 WIP\\Ecology\\GIS\\MXD\\Habitat Tech Appendix MXD\\Fig. 7.1.1 Chleainsaid Hab. Results v2.mxd



Key:

- Proposed Alignment
- UK Habitat Survey Area - 500 m corridor


Temporary areas of habitat loss

- Tower Trenching
- Proposed Pulling Position
- Temporary Access (proposed open ground/temporary trackway system)

UK Habitats

- f1a6 - degraded blanket bog
- f2b - purple moor grass and rush pastures
- g1b6 - other upland acid grassland
- g4 - modified grassland
- h1b - upland heathland
- u1b - developed land, sealed surface
- u1b5 - buildings
- u1c - artificial unvegetated unsealed surface
- u1d - suburban mosaic of developed/natural surfaces
- w2c - other coniferous woodland
- h2b - other hedgerows
- r2b - other rivers and streams
- 00 - Secondary Codes

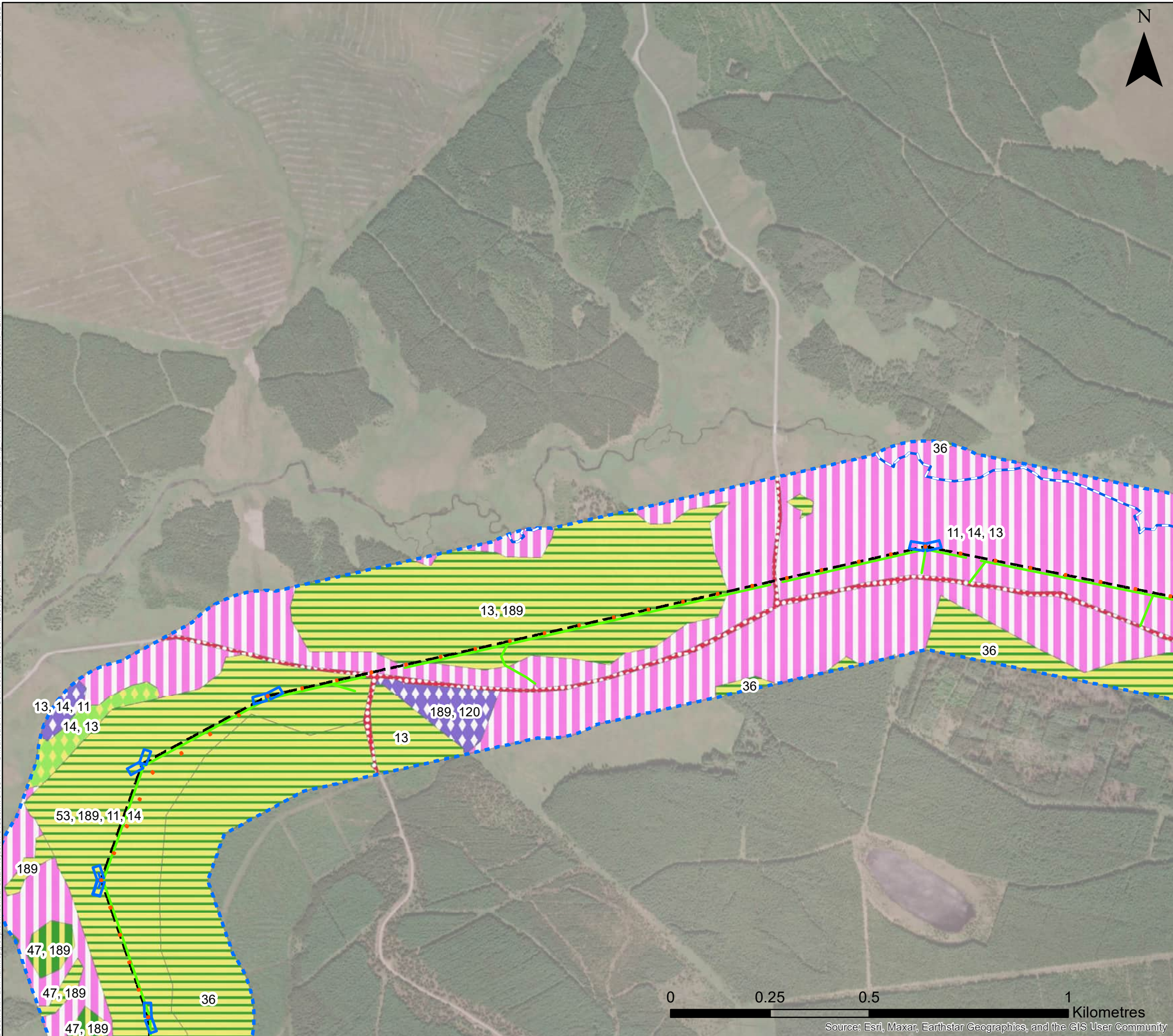


Client:  **Scottish & Southern Electricity Networks**
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Project: Chleainsaid Wind Farm 132 kV OHL Connection

Title: **Figure 7.1.1**
UK Habitat Survey Results
Page 2 / 5

Date: Monday, September 2, 2024 Scale: 9,260 @ A3
Drawn: TR Checked: RW Approved: RW



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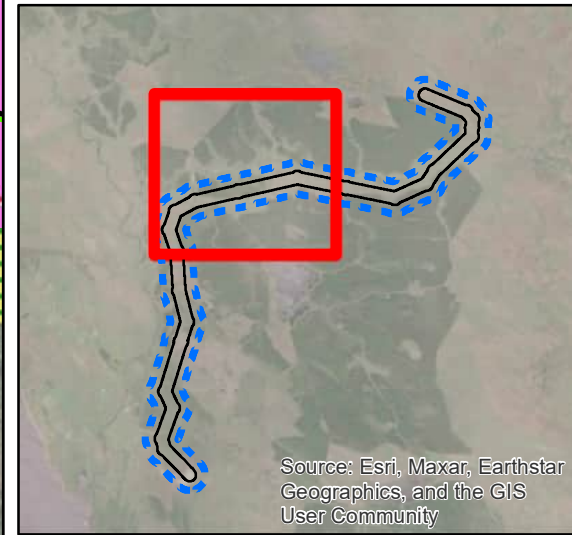
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- UK Habitat Survey Area - 500 m corridor


Temporary areas of habitat loss

- Tower Trenching
- Proposed Pulling Position
- Temporary Access (proposed open ground/temporary trackway system)

UK Habitats

- f1a6 - degraded blanket bog
- g1b6 - other upland acid grassland
- h1b6 - wet heathland with cross-leaved heath, upland (H4010)
- u1c - artificial unvegetated unsealed surface
- w2b - other scots pine woodland
- w2c - other coniferous woodland
- r2b - other rivers and streams
- 00 - Secondary Codes

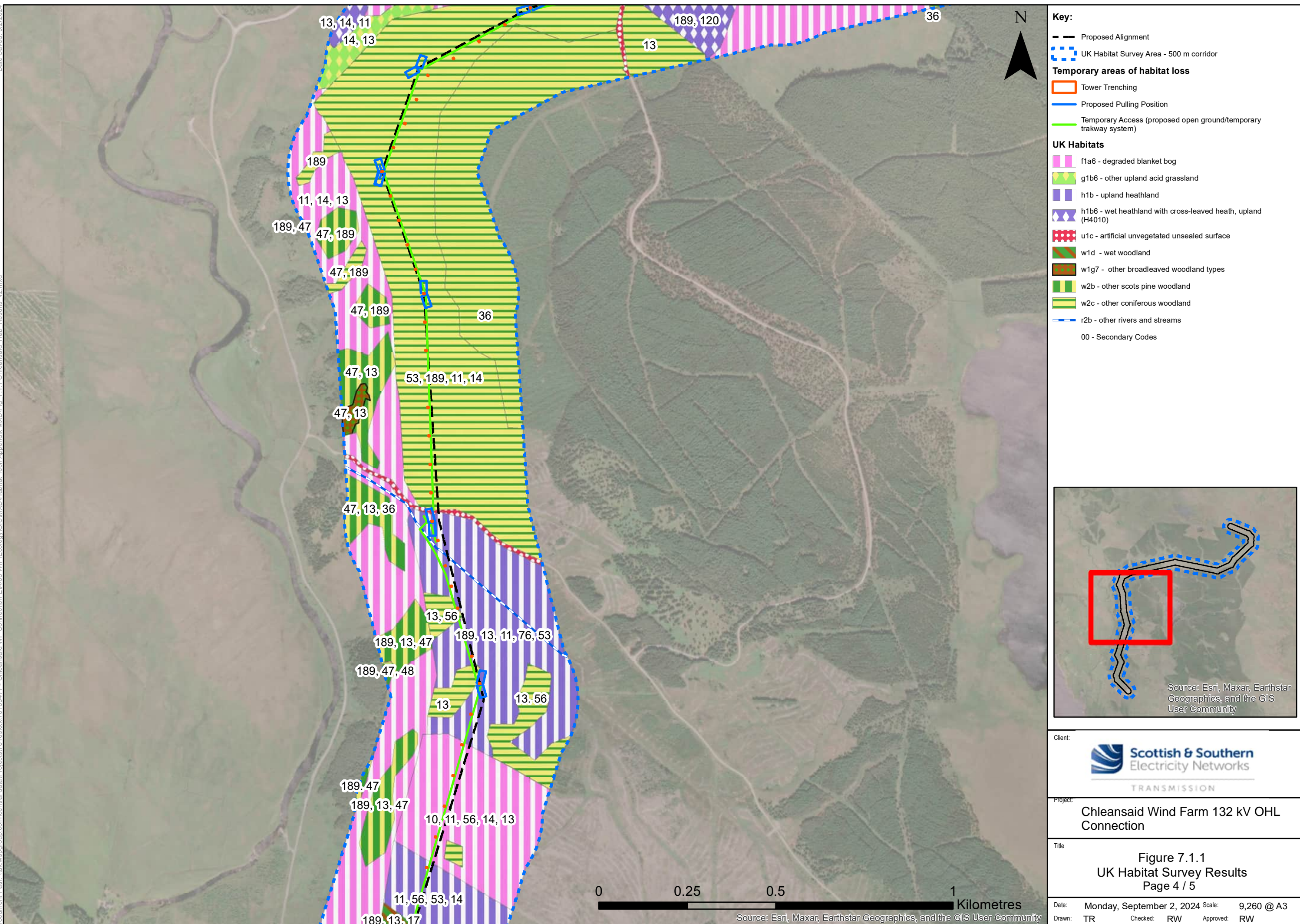


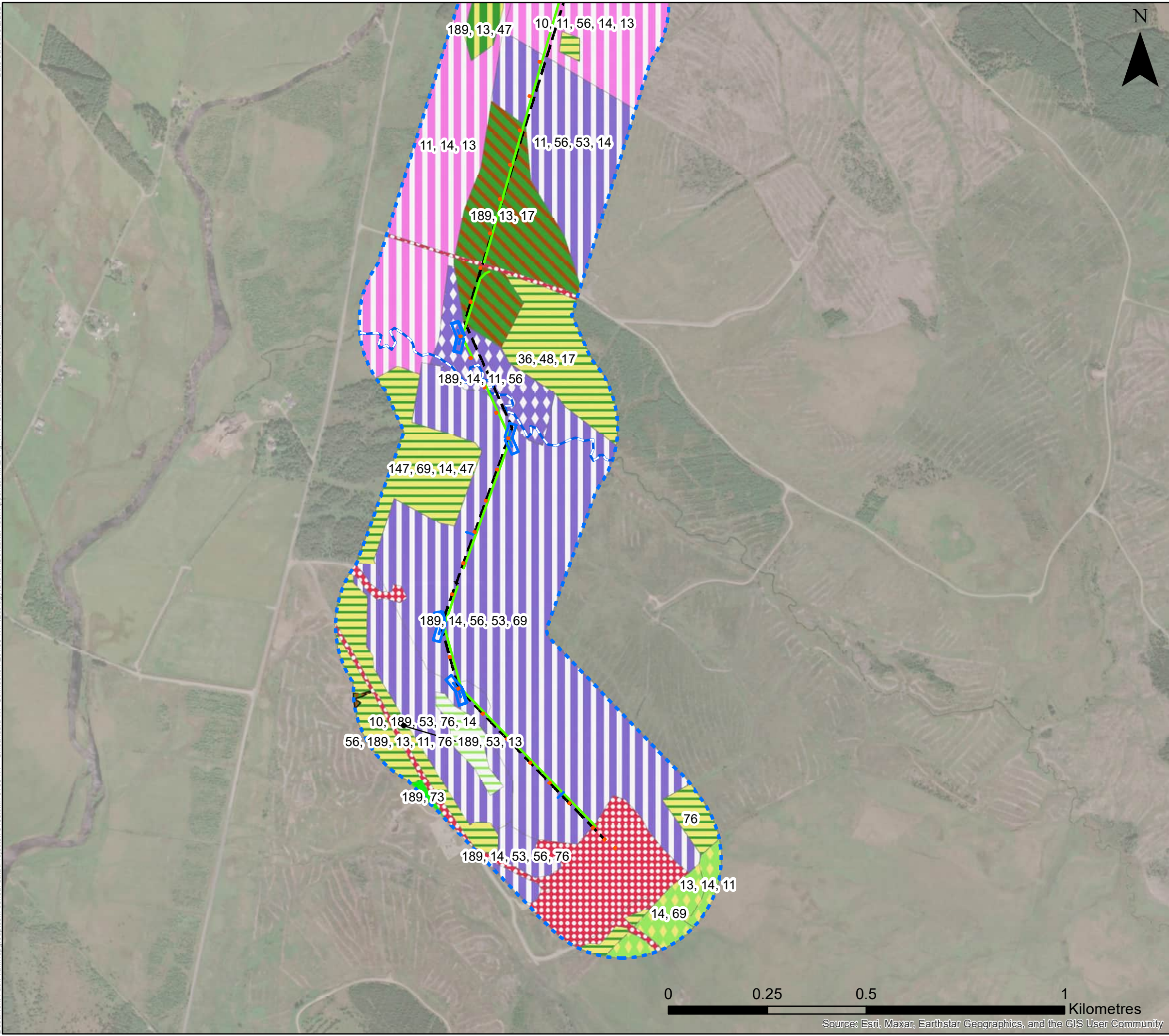
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Project: Chleainsaid Wind Farm 132 kV OHL Connection

Title: Figure 7.1.1
UK Habitat Survey Results
Page 3 / 5

Date: Monday, September 2, 2024 Scale: 9,260 @ A3
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Key:

- Proposed Alignment
- UK Habitat Survey Area - 500 m corridor

Temporary areas of habitat loss

- Tower Trenching Areas
- Proposed Pulling Position
- Temporary Access (proposed open ground/temporary trackway system)

UK Habitats

- f1a6 - degraded blanket bog
- g1b6 - other upland acid grassland
- g1c - bracken
- g4 - modified grassland
- h1b - upland heathland
- h1b6 - wet heathland with cross-leaved heath, upland (H4010)
- u1c - artificial unvegetated unsealed surface
- w1d - wet woodland
- w1g7 - other broadleaved woodland types
- w2b - other scots pine woodland
- w2c - other coniferous woodland
- r2b - other rivers and streams
- 00 - Secondary Codes

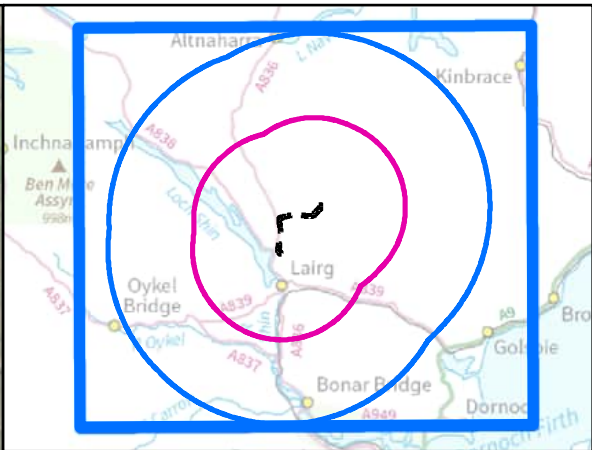
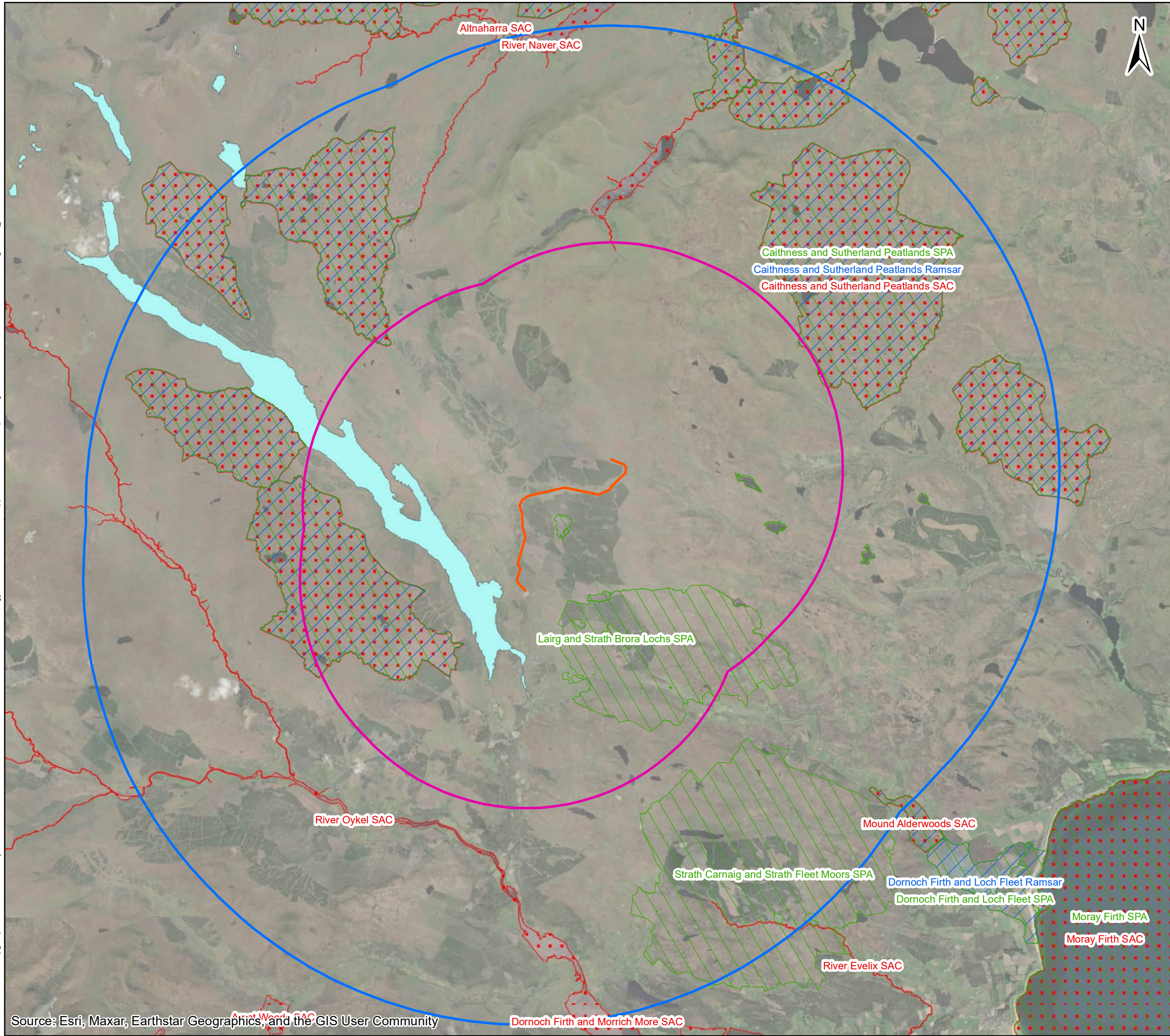
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Project: **Chleainsaid Wind Farm 132 kV OHL Connection**

Title: **Figure 7.1.1
UK Habitat Survey Results
Page 5 / 5**


Date: Monday, September 2, 2024 Scale: 9,260 @ A3
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Key

- Proposed OHL Alignment
- 20 km Survey Area
- 10 km Survey Area
- Special Protection Area (SPA)
- Ramsar
- Special Area of Conservation (SAC)
- Loch Shin and Nearby Lochs Important Bird Area

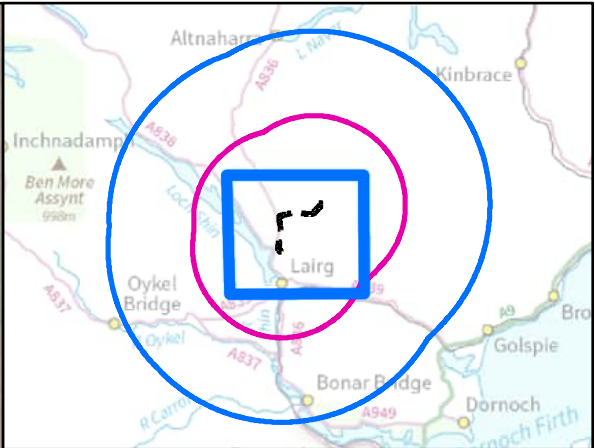
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Km

Client:  **Scottish & Southern Electricity Networks**
TRANSMISSION

Project: **Chleasaid Windfarm Connection**

Title: **Figure 7.1.2 International and European Designated Sites within 20km**


Date: 16/09/2024 Scale: 169,650 @ A3
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Key

- Proposed OHL Alignment
- 20 km Survey Area
- 10 km Survey Area
- Special Protection Area (SPA)
- Ramsar
- Special Area of Conservation (SAC)
- Loch Shin and Nearby Lochs Important Bird Area

0 1.5 3
Km

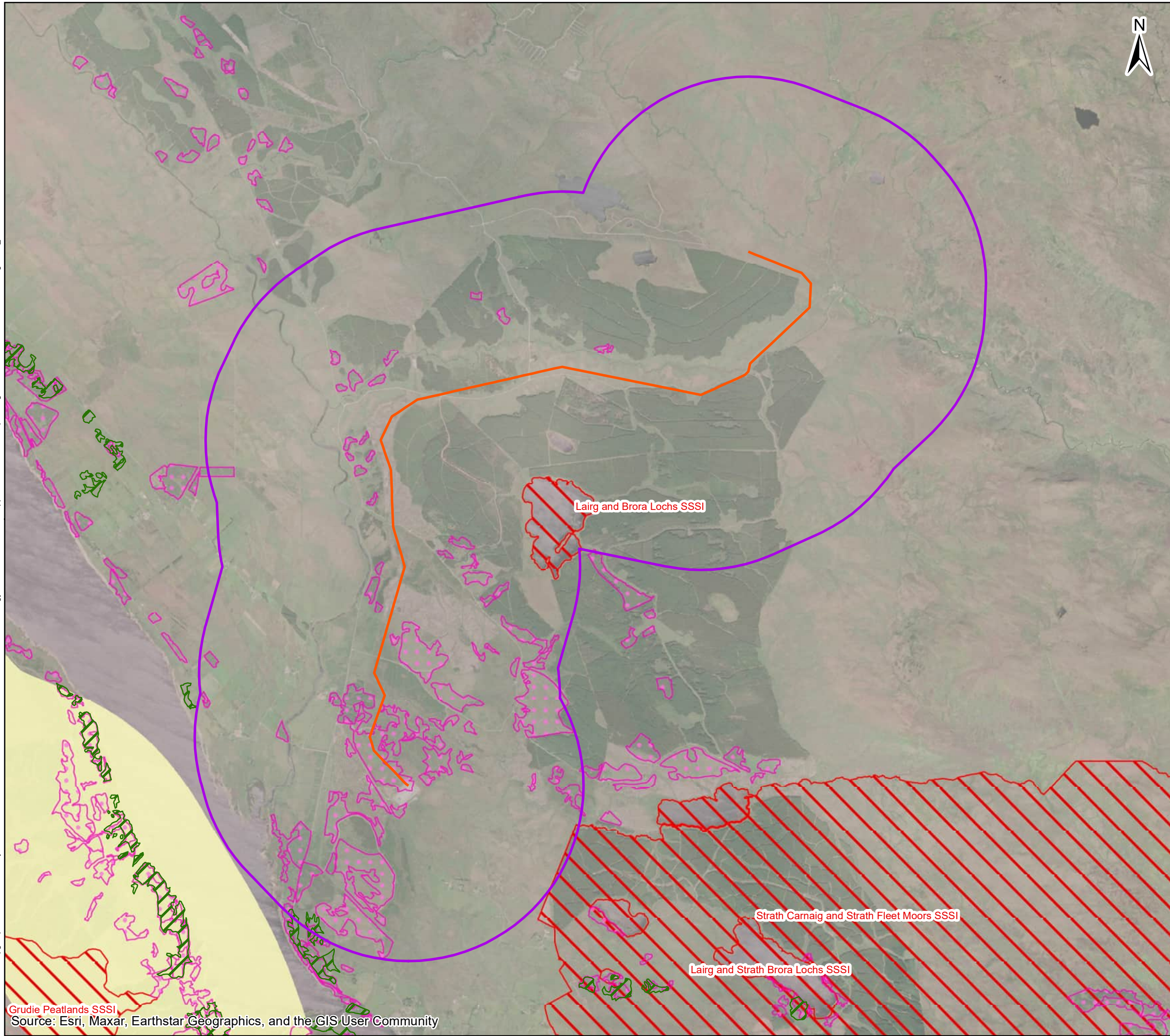
Client:  **Scottish & Southern**
Electricity Networks
TRANSMISSION

Project: **Cleansaid Wind Farm 132 kV OHL Connection**

Title: **Figure 7.1.2
International and European Designated
Sites within 20km**

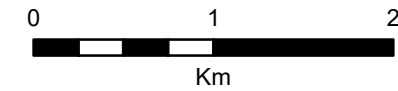
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Drawing Number: Draft


Page 2 of 2



Key

- Proposed OHL Alignment
- 2km buffer
- Anicent Woodland Inventory (AWI)**
- Ancient (of semi-natural origin)
- Native Woodland Survey of Scotland (NWSS)**
- Native woodland
- Sites of Special Scientific Interest (SSSI)
- B-lines



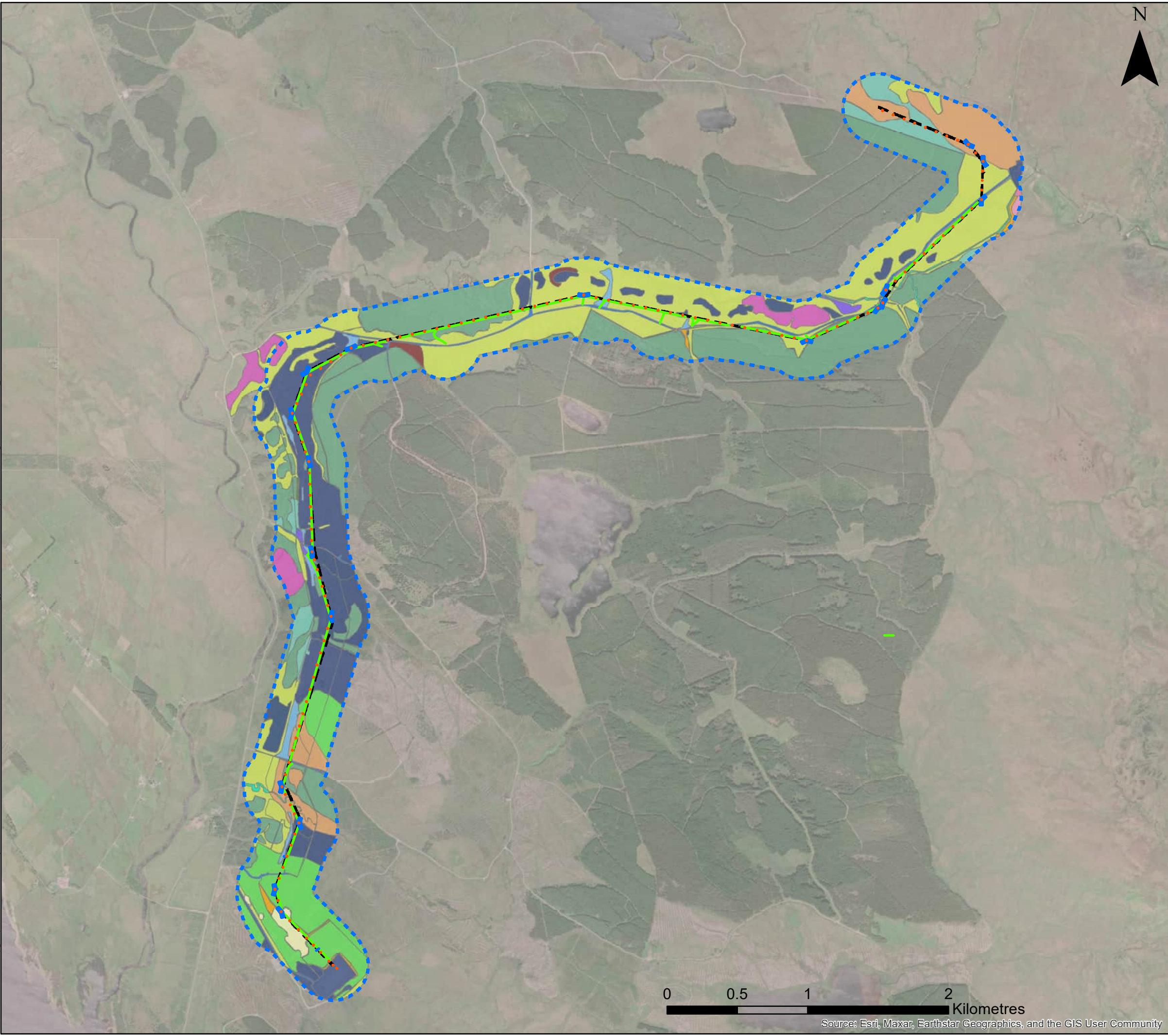
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Project: Chleasaid Wind Farm 132 kV OHL Connection

Title: **Figure 7.1.3
National and Woodland Designations
within 2km**

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Key:

- NVC Survey Area
- Tower Trenching Areas
- Proposed Pulling Position
- Temporary Access (proposed open ground/temporary trackway system)
- Proposed Alignment

NVC Code

- Unclassified
- Coniferous Plantation
- H9
- M15
- M17
- M18a
- M19
- M20
- M23b
- M25
- M4
- M6c
- MG6
- Road/Track
- U20
- U4
- Watercourse

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Client:

Project:

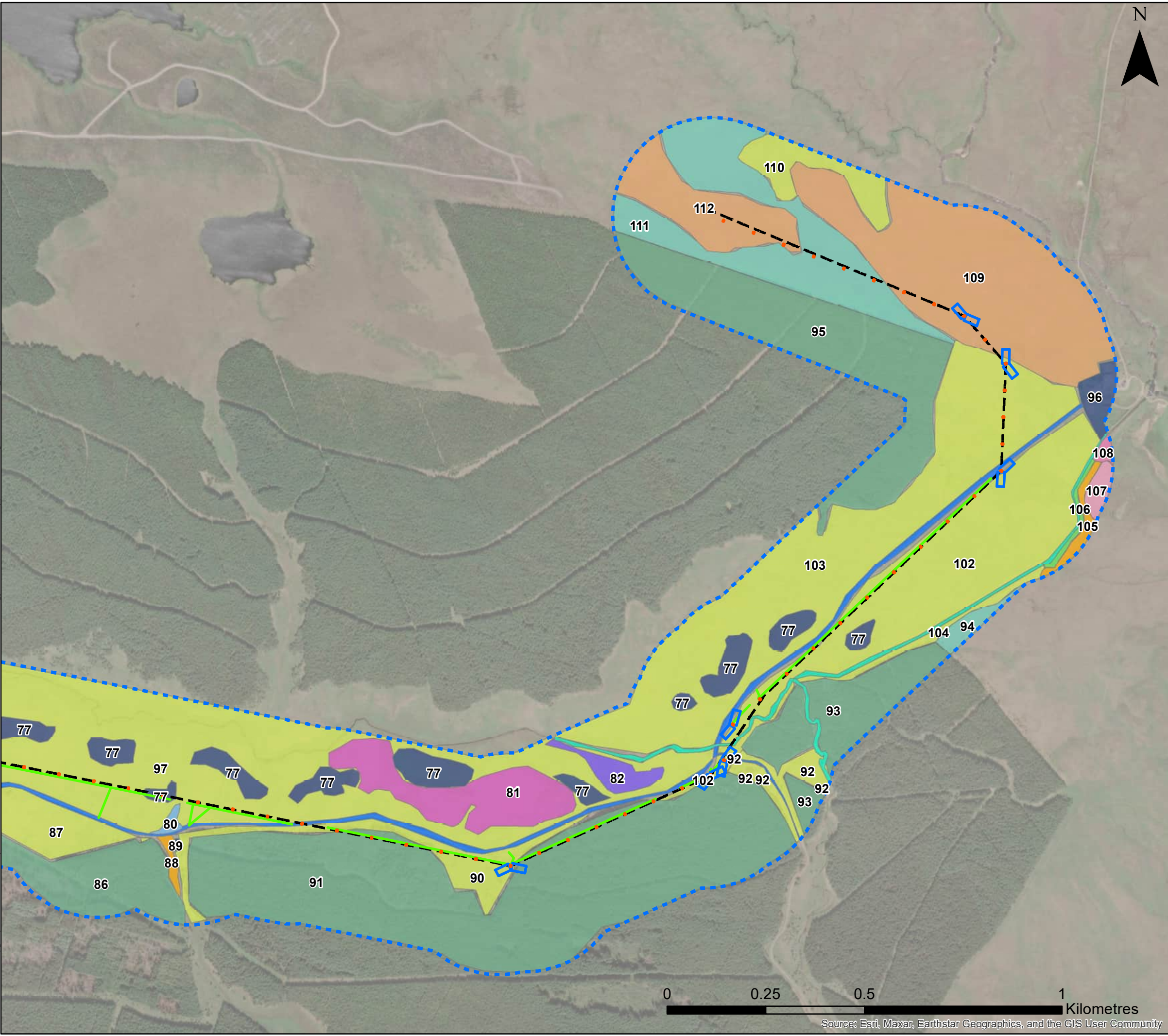
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Figure 7.1.4
NVC Results
Page 1 / 5

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Key:

- NVC Survey Area
- Tower Trenching Areas
- Proposed Pulling Position
- Temporary Access (proposed open ground/temporary trackway system)
- Proposed Alignment

NVC Code

- Unclassified
- Coniferous Plantation
- H9
- M15
- M17
- M18a
- M23b
- M25
- M4
- M6c
- MG6
- Road/Track
- U4
- Watercourse

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

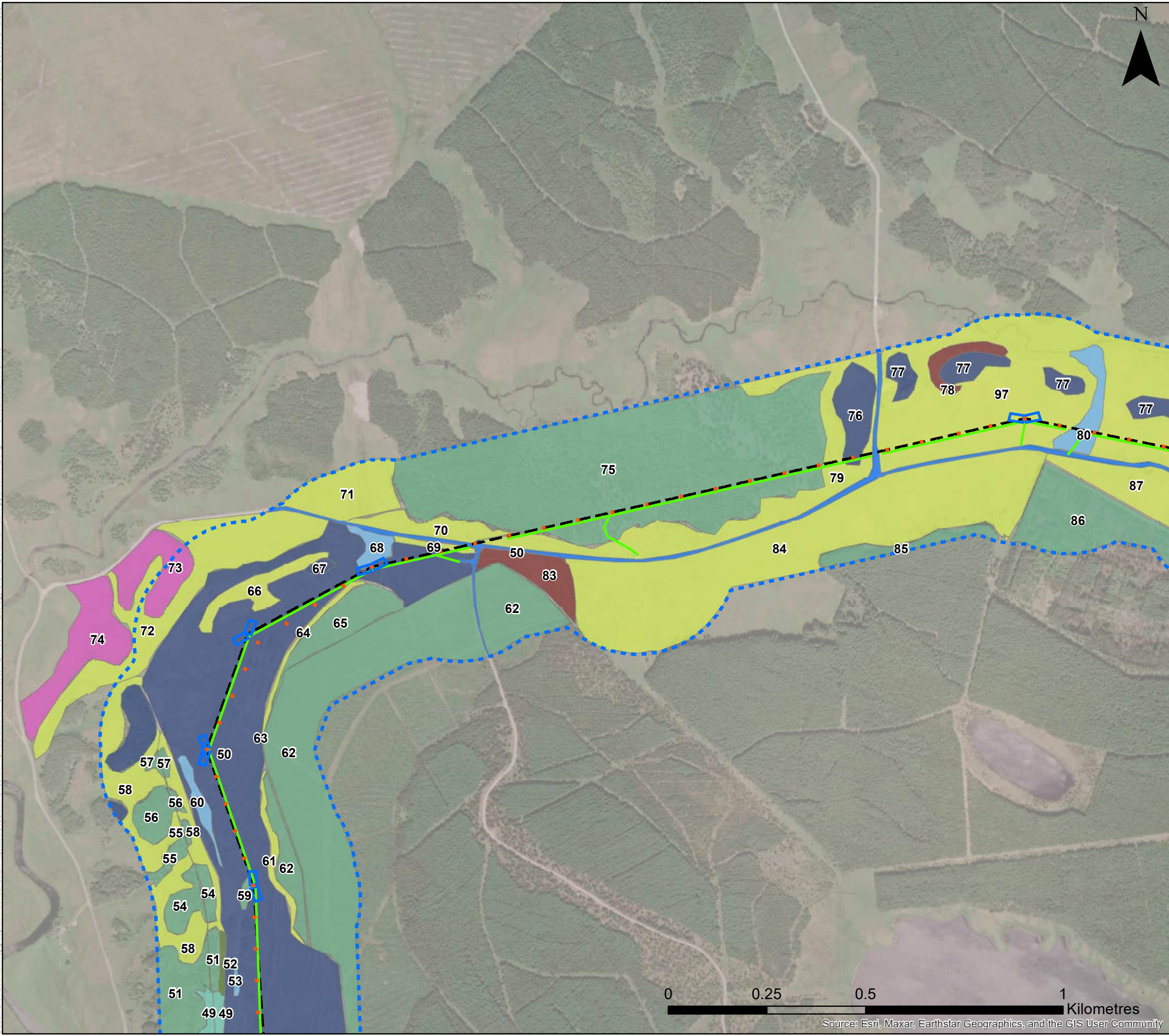
Client: Scottish & Southern Electricity Networks
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Project: Chleainsaid Wind Farm 132 kV OHL Connection

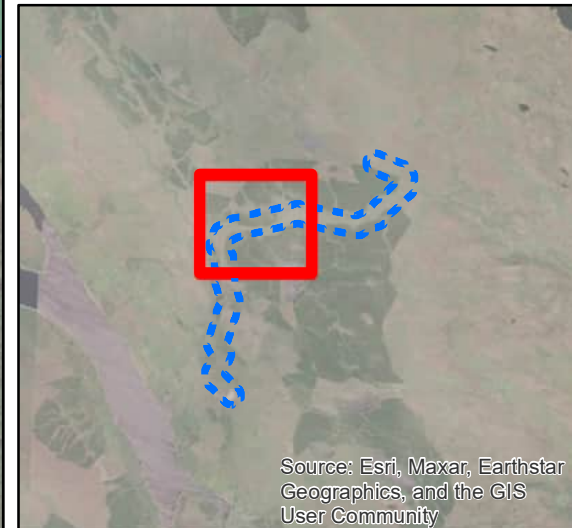
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NVC Results
Page 2 / 5

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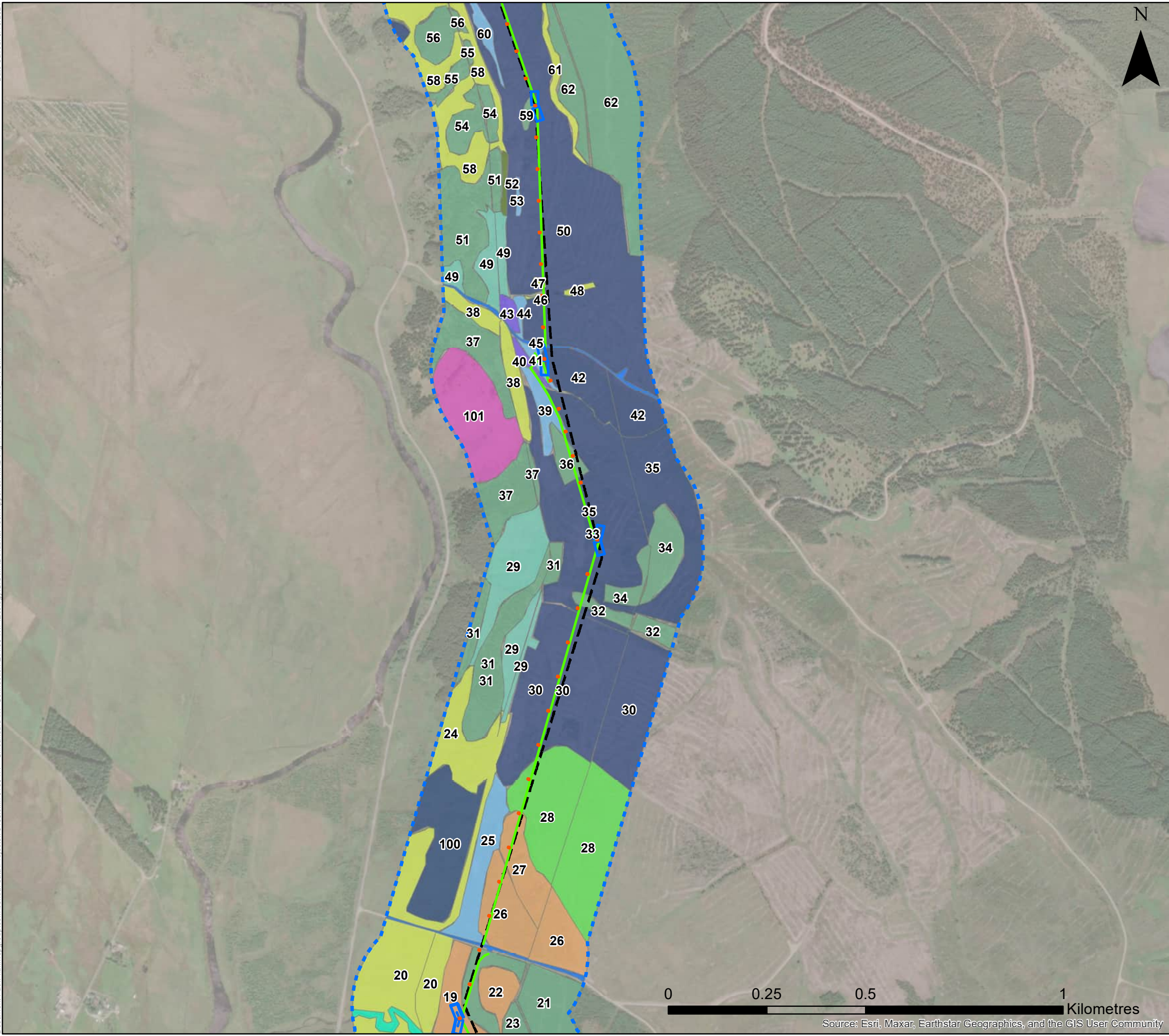
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- Key:**
- NVC Survey Area
 - Tower Trenching Areas
 - Proposed Pulling Position
 - Temporary Access (proposed open ground/temporary trakway system)
 - Proposed Alignment
- NVC Code**
- Unclassified
 - Coniferous Plantation
 - M17
 - M18a
 - M19
 - M20
 - M25
 - M6c
 - Road/Track



Client:			
Project:	Chleansaid Wind Farm 132 kV OHL Connection		
Title:	Figure 7.1.4 NVC Results Page 3 / 5		
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Key:

- NVC Survey Area
- Tower Trenching Areas
- Proposed Pulling Position
- Temporary Access (proposed open ground/temporary trackway system)
- Proposed Alignment

NVC Code

- Unclassified
- Coniferous Plantation
- H9
- M15
- M17
- M18a
- M20
- M25
- M4
- M6c
- Road/Track
- Watercourse

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Client:

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Project:

Chleainsaid Wind Farm 132 kV OHL Connection

Title:

Figure 7.1.4
NVC Results
Page 4 / 5

Date: Monday, September 16, 2024
Scale: 9,300 @ A3

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Key:

- NVC Survey Area
- Tower Trenching Areas
- Proposed Pulling Position
- Temporary Access (proposed open ground/temporary trackway system)
- Proposed Alignment

NVC Code

- Unclassified
- Coniferous Plantation
- H9
- M15
- M25
- M6c
- Road/Track
- U20
- U4
- Watercourse

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Client: **Scottish & Southern Electricity Networks**
TRANSMISSION

Project: **Chleansaid Wind Farm 132 kV OHL Connection**

Title: **Figure 7.1.4
NVC Results
Page 5 / 5**

Date: Monday, September 16, 2024 Scale: 9,300 @ A3
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0 0.25 0.5 1 Kilometres

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Annex B Species List

Table B-1: UK Habitat Survey Species List

Common name	Latin Species
Alder	<i>Alnus glutinosa</i>
Bell heather	<i>Erica cinerea</i>
Bilberry	<i>Vaccinium myrtillus</i>
Birch sp.	<i>Betula sp.</i>
Bog asphodel	<i>Narthecium ossifragum</i>
Bog myrtle	<i>Myrica gale</i>
Bog pondweed	<i>Potamogeton polygonifolius</i>
Broom	<i>Cytisus scoparius</i>
Broadleaved dock	<i>Rumex obtusifolius</i>
Bracken	<i>Pteridium aquilinum</i>
Cock's-foot	<i>Dactylis glomerata</i>
Common haircap	<i>Polytrichum commune</i>
Creeping buttercup	<i>Ranunculus repens</i>
Creeping thistle	<i>Cirsium arvense</i>
Crested dogs-tail	<i>Cynosurus cristatus</i>
Cross-leaved heath	<i>Erica tetralix</i>
Daisy	<i>Bellis perennis</i>
Deergrass	<i>Trichophorum germanicum</i>
Douglas fir	<i>Pseudotsuga menziesii</i>
Downy birch	<i>Betula pubescens</i>
Fox glove	<i>Digitalis purpurea</i>
Gorse	<i>Ulex europaeus</i>

Common name	Latin Species
Hawthorn	<i>Crataegus monogyna</i>
Hare's-tail cottongrass	<i>Eriophorum vaginatum</i>
Heath rush	<i>Juncus squarrosus</i>
Heather	<i>Calluna vulgaris</i>
Larch	<i>Larix decidua</i>
Marsh thistle	<i>Cirsium palustre</i>
Mat-grass	<i>Nardus stricta</i>
Perennial ryegrass	<i>Lolium perenne</i>
Purple moor-grass	<i>Molinia caerulea</i>
Reindeer lichen	<i>Cladonia spp.</i>
Rosebay willowherb	<i>Chamaenerion angustifolium</i>
Scot's pine	<i>Pinus sylvestris</i>
Sharp-flowered rush	<i>Juncus acutiflorus</i>
Sheep's sorrel	<i>Rumex acetosella</i>
Sitka spruce	<i>Picea sitchensis</i>
Soft rush	<i>Juncus effusus</i>
Sweet vernal grass	<i>Anthoxanthum odoratum</i>
Tormentil	<i>Potentilla erecta</i>
White clover	<i>Trifolium repens</i>
Wavy hair grass	<i>Avenella flexuosa</i>
Willow sp.	<i>Salix sp.</i>
Yorkshire-fog	<i>Holcus lanatus</i>

Table B-2: UKHab Secondary Code Target Notes

Secondary Code	Secondary Code Description
11	Scattered trees (Habitat Mosaic)
12	Scattered bracken (Habitat Mosaic)
13	Scattered dwarf shrubs (Habitat Mosaic)
14	Scattered rushes (Habitat Mosaic)
15	Rushes dominant
16	Tall herb (Habitat Mosaic)
17	Ruderal/ ephemeral (Habitat Mosaic)
36	Plantation (Origin)
47	Native (Origin)
53	Felled (Management)
56	Young trees - planted (Management)
60	Sheep grazed (Management)
67	Dry stone wall (Management)
69	Fence (Management)
76	Recent Management (Management)
120	Wet (Environmental Qualifier)
159	Standing dead wood abundant (Species Feature)
189	Scattered grass (Mosaic)

Table B-3: NVC Survey Indicative Species Lists

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
1	NA	NA	NA	Unclassified	Dalchork Substation; hardstanding and buildings with no vegetation.
2	NA	NA	NA	Unclassified	Mostly bare, compacted ground.
3				U4 <i>Festuca ovina</i>-<i>Agrostis capillaris</i>-<i>Galium saxatile</i> grassland	Grassland strip around Dalchork Substation.
	<i>Agrostis capillaris</i>	Common Bent	D		
	<i>Calluna vulgaris</i>	Heather	O		
	<i>Carex binervis</i>	Green-ribbed Sedge	O		
	<i>Chamaenerion angustifolium</i>	Rosebay Willowherb	F		
	<i>Digitalis purpurea</i>	Foxglove	R		
	<i>Festuca ovina</i>	Sheep's Fescue	F		
	<i>Galium saxatile</i>	Heath Bedstraw	F		
	<i>Holcus lanatus</i>	Yorkshire-fog	R		
	<i>Hypnum jutlandicum</i>	Heath Plait-moss	O		
	<i>Juncus effusus</i>	Soft Rush	O		
	<i>Juncus squarrosus</i>	Heath Rush	O		
	<i>Molinia caerulea</i>	Purple Moor-grass	O		
	<i>Pinus sylvestris</i>	Scots Pine (seedings)	F		
	<i>Polytichum juniperinum</i>	Juniper Haircap	F		
	<i>Potentilla erecta</i>	Tormentil	R		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
4	<i>Agrostis capillaris</i>	Common Bent	F	H9 <i>Calluna vulgaris</i>-<i>Avenella flexuosa</i> heath	Frequent re-generating heather but rows of felled plantation conifer stumps still visible and abundant disturbed ground.
	<i>Avenella flexuosa</i>	Wavy Hair-grass	A		
	<i>Betula pendula</i>	Silver Birch (seedlings)	O		
	<i>Blechnum spicant</i>	Hard-fern	R		
	<i>Calluna vulgaris</i>	Heather	D		
	<i>Campylopus introflexus</i>	Heath Star-moss	O		
	<i>Carex binervis</i>	Green-ribbed Sedge	O		
	<i>Chamaenerion angustifolium</i>	Rosebay Willowherb	R		
	<i>Cladonia floerkeana</i>	A Cladonia Lichen	R		
	<i>Cladonia portentosa</i>	A Cladonia Lichen	R		
	<i>Deschampsia cespitosa</i>	Tufted Hair-grass	R		
	<i>Digitalis purpurea</i>	Foxglove	O		
	<i>Festuca ovina</i>	Sheep's Fescue	O		
	<i>Galium saxatile</i>	Heath Bedstraw	O		
	<i>Holcus lanatus</i>	Yorkshire-fog	O		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	F		
	<i>Hypnum jutlandicum</i>	Heath Plait-moss	A		
	<i>Juncus effusus</i>	Soft Rush	R		
	<i>Luzula sylvatica</i>	Great Wood-rush	R		
	<i>Molinia caerulea</i>	Purple Moor-grass	O		
	<i>Picea sp.</i>	Spruce (seedlings)	O		
	<i>Pinus sylvestris</i>	Scots Pine (seedlings)	F		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	F		
	<i>Polytichum juniperinum</i>	Juniper Haircap	F		
	<i>Polytrichum commune</i>	Common Haircap	F		
	<i>Potentilla erecta</i>	Tormentil	R		
	<i>Pseudoscleropodium purum</i>	Neat Feather-moss	R		
	<i>Pteridium aquilinum</i>	Bracken	R		
	<i>Rhytidiadelphus squarrosus</i>	Springy turf-moss	R		
	<i>Rumex acetosa</i>	Common Sorrell	R		
	<i>Rumex acetosella</i>	Sheep's Sorrel	R		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	R		
5	NA	NA	NA	U20 <i>Pteridium aquilinum</i>-<i>Galium saxatile</i> community	Bracken dominated area. Patches with dense dead bracken stems and some new fronds appearing. Also frequent rosebay willowherb.
6	NA	NA	NA	U4 <i>Festuca ovina</i>-<i>Agrostis capillaris</i>-<i>Galium saxatile</i> grassland	Grassland strip along post and wire fence. Very similar spp. composition to Area 3 but more abundant pioneer stage heather present. Additional spp. included <i>Rhytidiadelphus squarrosus</i> (O), common sedge <i>Carex nigra</i> (O) and nodding thread-moss <i>Pohlia nutans</i> (O) on bare peat.
7	NA	NA	NA	H9 <i>Calluna vulgaris</i>-<i>Avenella flexuosa</i> heath	Fenced area of previously felled conifer plantation. Another recently felled conifer plantation which has been allowed to naturally re-vegetate, but this fenced area has taller spruce and pine trees growing more densely than over Area 4. Presumably the fence is excluding deer which has allowed denser tree and scrub growth.
8	NA	NA	NA	U4 <i>Festuca ovina</i>-<i>Agrostis capillaris</i>-<i>Galium saxatile</i> grassland	Grassland track leading towards access road from A836. Same spp. composition as Areas 3 and 6 but with some patches of soft rush.

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NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
9	NA	NA	NA	H9 <i>Calluna vulgaris-Avenella flexuosa</i> heath	Previously felled area of coniferous plantation with heather-dominated re-growth. Very similar to Area 4, with only small, scattered pine and spruce re-growth, unlike the dense growth within Area 7.
10	NA	NA	NA	H9 <i>Calluna vulgaris-Avenella flexuosa</i> heath	This area had very dense conifer re-growth in parts but with similar heather-dominated vegetation to Area 3 where trees were less dense, with mosses including <i>Polytrichum commune</i> , <i>Pleurozium schreberi</i> and <i>Polytrichum juniperinum</i> covering bare ground. There was very little heather present along the line of the existing powerline running through Area 10, apart from some very immature pioneer growth stage. This strip was dominated by soft rush and bulbous rush <i>Juncus bulbosus</i> .
11	NA	NA	NA	Unclassified	Coniferous plantation.
12				M25 <i>Molinia caerulea-Potentilla erecta</i> mire (localised patches of M3 <i>Eriophorum angustifolium</i> bog pool community)	Less Sphagnum occurred further west, closer to plantation woodland (Area 11).
	<i>Aulacomnium palustre</i>	Bog Bead-moss	O		
	<i>Calluna vulgaris</i>	Heather	F		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	O		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	R		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		
	<i>Hypnum jutlandicum</i>	Heath Plait-moss	O		
	<i>Juncus effusus</i>	Soft Rush	O		
	<i>Molinia caerulea</i>	Purple Moor-grass	D		
	<i>Myrica gale</i>	Bog Myrtle	O		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	O		
	<i>Polytrichum commune</i>	Common Haircap	F		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Potentilla erecta</i>	Tormentil	O		
	<i>Sphagnum auriculatum</i>	Cow-horn Bog-moss	O		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	O		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	O		
	<i>Viola palustris</i>	Marsh Violet	R		
13	NA	NA	NA	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire with birch scrub	Similar species composition to Area 12 but with heather becoming co-dominant with purple moor-grass between developing birch scrub and cross-leaved heath being absent.
14				M6c <i>Carex echinata</i>-<i>Sphagnum fallax/auriculatum</i> mire-<i>Juncus effusus</i> sub-community (localised patches of M3 <i>Eriophorum angustifolium</i> bog pool community)	Track along existing power lines leads down steep slope with water running down slope with pooling in hollows and flat areas. Pools dominated by common cottongrass and bog pondweed.
	<i>Carex demissa</i>	Common Yellow Sedge	R		
	<i>Cirsium palustre</i>	Marsh Thistle	O		
	<i>Equisetum variegatum</i>	Variegated Horsetail	O		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	F		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		
	<i>Juncus bulbosus</i>	Bulbous Rush	D		
	<i>Juncus effusus</i>	Soft Rush	A		
	<i>Philonotis fontana</i>	Fountain Apple-moss	R		
	<i>Polytrichum commune</i>	Common Haircap	O		
	<i>Potamogeton polygonifolius</i>	Bog Pondweed	O		
	<i>Potentilla erecta</i>	Tormentil	R		
	<i>Ranunculus flammula</i>	Lesser Spearwort	R		
	<i>Sphagnum auriculatum</i>	Cow-horn Bog-moss	O		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	R		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	F		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	O		
	<i>Sphagnum subnitens</i>	Lustrous Bog-moss	R		
	<i>Viola palustris</i>	Marsh Violet	O		
15	NA	NA	NA	Mosaic of M25 and M6c mire communities	This area consisted of a mixture of soft rush dominated and purple moor-grass dominated areas which were too small to map. Therefore, described as a mosaic.
16	NA	NA	NA	Mosaic of M25 and M6c mire communities with birch scrub	Similar ground flora to Area 15 but with developing birch scrub growing across the area.
17- 19				M15 <i>Trichophorum germanicum</i>-<i>Erica tetralix</i> wet heath with localised patches of M3 <i>Eriophorum angustifolium</i> bog pool community and M6c <i>Carex echinata</i>-<i>Sphagnum fallax/auriculatum</i> mire-<i>Juncus effusus</i> sub-community	These areas are contiguous, with Areas 17 and 18 to the south of a small watercourse and Area 19 to the north of the watercourse. The species list for M15 community is a compilation of the three areas. There were also small pools dominated by common cottongrass (M3 bog pools) and two strips of rush-dominated vegetation running south to north, parallel to the existing power lines, which resembled M6c mire, with <i>Polytrichum commune</i> and <i>Sphagnum</i> species below a layer of rushes.
	<i>Calluna vulgaris</i>	Heather	A		
	<i>Cirsium palustre</i>	Marsh Thistle	O		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	O		
	<i>Galium saxatile</i>	Heath Bedstraw	R		
	<i>Hypnum jutlandicum</i>	Heath Plait-moss	F		
	<i>Juncus bulbosus</i>	Bulbous Rush	F		
	<i>Juncus effusus</i>	Soft Rush	F		
	<i>Molinia caerulea</i>	Purple Moor-grass	A		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	F		

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NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Pohlia nutans</i>	Nodding Thread-moss	R		
	<i>Polytrichum commune</i>	Common Haircap	O		
	<i>Potentilla erecta</i>	Tormentil	O		
	<i>Sphagnum auriculatum</i>	Cow-horn Bog-moss	O		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	O		
	<i>Sphagnum subnitens</i>	Lustrous Bog-moss	R		
	<i>Trichophorum germanicum</i>	Deergrass	F		
	<i>Viola palustris</i>	Marsh Violet	R		
20	NA	NA	NA	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	This strip of vegetation is to the west of a post and wire fence. It was dominated by purple moor-grass, with few other species present.
21	NA	NA	NA	Unclassified	Coniferous plantation to the east with scattered birch and willow to the west.
22	M15 areas			M15 <i>Trichophorum germanicum</i>-<i>Erica tetralix</i> wet heath with patches of M4 <i>Carex rostrata</i>-<i>Sphagnum fallax</i> mire	Clearing within area of mixed woodland. Predominantly M15 but with some wet channels running south to north containing bog pondweed, <i>Sphagnum auriculatum</i> , common cottongrass, bottle sedge and <i>Sphagnum cuspidatum</i> .
	<i>Calluna vulgaris</i>	Heather	A		
	<i>Cirsium palustre</i>	Marsh Thistle	O		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	O		
	<i>Hypnum jutlandicum</i>	Heath Plait-moss	O		
	<i>Juncus effusus</i>	Soft Rush	R		
	<i>Molinia caerulea</i>	Purple Moor-grass	A		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	F		
	<i>Polytrichum commune</i>	Common Haircap	O		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Potentilla erecta</i>	Tormentil	R		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	O		
	<i>Sphagnum papillosum</i>	Papillose Bog-moss	R		
	<i>Sphagnum subnitens</i>	Lustrous Bog-moss	R		
	<i>Trichophorum germanicum</i>	Deergrass	F		
	<i>Viola palustris</i>	Marsh Violet	O		
	M4 areas				
	<i>Aulacomnium palustre</i>	Bog Bead-moss	F		
	<i>Carex nigra</i>	Common sedge	O		
	<i>Carex rostrata</i>	Bottle Sedge	D		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	O		
	<i>Molinia caerulea</i>	Purple Moor-grass	F		
	<i>Polytrichum commune</i>	Common Haircap	O		
	<i>Potentilla palustris</i>	Marsh Cinquefoil	R		
	<i>Sphagnum auriculatum</i>	Cow-horn Bog-moss	O		
	<i>Sphagnum cuspidatum</i>	Feathery Bog-moss	F		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	A		
	<i>Sphagnum subnitens</i>	Lustrous Bog-moss	R		
	<i>Sphagnum teres</i>	Rigid Bog-moss	R		
	<i>Viola palustris</i>	Marsh Violet	O		
23	NA	NA	NA	Unclassified	Coniferous plantation.
24	<i>Aulacomnium palustre</i>	Bog Bead-moss	R	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	

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NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Calluna vulgaris</i>	Heather	F		
	<i>Cladonia portentosa</i>	A Cladonia Lichen	R		
	<i>Erica tetralix</i>	Cross-leaved Heath	O		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	O		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	F		
	<i>Molinia caerulea</i>	Purple Moor-grass	D		
	<i>Myrica gale</i>	Bog Myrtle	O		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	O		
	<i>Polytrichum commune</i>	Common Haircap	O		
	<i>Potentilla erecta</i>	Tormentil	R		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	R		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	O		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	O		
	<i>Trichophorum germanicum</i>	Deergrass	R		
	<i>Viola palustris</i>	Marsh Violet	R		
25	<i>Aulacomnium palustre</i>	Bog Bead-moss	R	M6c <i>Carex echinata</i>-<i>Sphagnum fallax/auriculatum</i> mire-<i>Juncus effusus</i> sub-community with patch of M4 <i>Carex rostrata</i>-<i>Sphagnum fallax</i> mire	The M6c vegetation follows the line of the existing pylons, with some localised patches of common reed <i>Phragmites australis</i> towards the west and some bottle sedge dominated M4 mire, too small to map. Species list is for the M6c vegetation.
	<i>Blechnum spicant</i>	Hard Fern	R		
	<i>Cirsium palustre</i>	Marsh Thistle	O		
	<i>Erica tetralix</i>	Cross-leaved Heath	O		

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NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Eriophorum angustifolium</i>	Common Cottongrass	F		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		
	<i>Juncus bulbosus</i>	Bulbous Rush	A		
	<i>Juncus effusus</i>	Soft Rush	A		
	<i>Molinia caerulea</i>	Purple Moor-grass	R		
	<i>Polytrichum commune</i>	Common Haircap	F		
	<i>Potamogeton polygonifolius</i>	Bog Pondweed	O		
	<i>Potentilla erecta</i>	Tormentil	O		
	<i>Ranunculus flammula</i>	Lesser Spearwort	O		
	<i>Sphagnum auriculatum</i>	Cow-horn Bog-moss	O		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	F		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	O		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	O		
	<i>Viola palustris</i>	Marsh Violet	O		
26	NA	NA	NA	M15 <i>Trichophorum germanicum</i>-<i>Erica tetralix</i> wet heath with developing willow and birch scrub	Within the wooded area there were frequent small pools with M3 and M4 vegetation, amongst patches of heather. Typical constant M15 spp. still present with abundant heather and purple moor-grass but with only occasional/rare cross-leaved heath, tormentil and deergrass. Occasional <i>Sphagnum capillifolium</i> and <i>S. auriculatum</i> , with rare <i>S. papillosum</i> and <i>S. fallax</i> . Some crowberry <i>Empetrum nigrum</i> present (R) which is rare across entire survey area.
27	NA	NA	NA	M15 <i>Trichophorum germanicum</i>-<i>Erica tetralix</i> wet heath with less dense developing willow and birch scrub	Similar to Area 26 but further up a slope and with less scrub growth. No M3 or M4 pools present and <i>Sphagnum</i> greatly reduced.
28	NA	NA	NA	H9 <i>Calluna vulgaris</i>-<i>Avenella flexuosa</i> heath	Area 28 is near the top of a hill and has been more recently clear-felled. Dominated by pioneer and building stage heather and

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NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
					patches of wavy hair-grass, with hardly any <i>Sphagnum</i> present. Patches of bracken between the heather. Frequent self-seeded pine and spruce. Overall, very species poor. Similar to Areas 4 and 9.
29	<i>Aulacomnium palustre</i>	Bog Bead-moss	O	M17 <i>Trichophorum germanicum</i>-<i>Eriophorum vaginatum</i> blanket mire with some M2 <i>Sphagnum cuspidatum</i>/<i>fallax</i> bog pool community	A narrow strip of bog vegetation along fence to west of existing power lines, which continues westwards beyond the fence. There were small pools filled with <i>Sphagnum cuspidatum</i> within this area. Species list is for M17 mire.
	<i>Calluna vulgaris</i>	Heather	F		
	<i>Cladonia portentosa</i>	A Cladonia Lichen	F		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	R		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	A		
	<i>Molinia caerulea</i>	Purple Moor-grass	F		
	<i>Myrica gale</i>	Bog Myrtle	F		
	<i>Narthecium ossifragum</i>	Bog Asphodel	R		
	<i>Pinus sylvestris</i>	Scots pine seedlings	R		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	R		
	<i>Racomitrium lanuginosum</i>	Wooly Fringe-moss	O		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	A		
	<i>Sphagnum cuspidatum</i>	Feathery Bog-moss	O		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	R		
	<i>Sphagnum papillosum</i>	Papillose Bog-moss	O		
	<i>Sphagnum tenellum</i>	Soft Bog-moss	O		
	<i>Trichophorum germanicum</i>	Deergrass	F		

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NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
30	NA	NA	NA	Unclassified	Very recently clear-felled and very little living vegetation except for some pools/wheel ruts containing <i>Sphagnum cuspidatum</i> (M2 bog pool community).
31-34	NA	NA	NA	Unclassified	Coniferous plantation.
35	NA	NA	NA	Unclassified	Recently clear-felled and too fragmented and modified to enable NVC survey to be undertaken.
36-37	NA	NA	NA	Unclassified	Coniferous plantation.
38	<i>Calluna vulgaris</i>	Heather	O	M25 <i>Molinia caerulea</i> - <i>Potentilla erecta</i> mire	
	<i>Carex rostrata</i>	Bottle Sedge	R		
	<i>Erica tetralix</i>	Cross-leaved Heath	O		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	O		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	F		
	<i>Molinia caerulea</i>	Purple Moor-grass	D		
	<i>Myrica gale</i>	Bog Myrtle	O		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	R		
	<i>Potentilla erecta</i>	Tormentil	R		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	R		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	R		
	<i>Viola palustris</i>	Marsh Violet	R		
39	NA	NA	NA	M6c <i>Carex echinata</i> - <i>Sphagnum fallax/auriculatum</i> mire- <i>Juncus effusus</i> sub-community	Frequent bare ground beneath existing cable lines but vegetated areas dominated by rushes, with <i>Polytrichum commune</i> and <i>Sphagnum</i> below.

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
40	<i>Agrostis stolonifera</i>	Creeping Bent	O	M4 <i>Carex rostrata</i>-<i>Sphagnum fallax</i> mire	Occurred with mosaic of M6c but generally area west of watercourse was dominated by bottle sedge, which was also abundant within the watercourse.
	<i>Carex rostrata</i>	Bottle Sedge	D		
	<i>Filipendula ulmaria</i>	Meadowsweet	R		
	<i>Galium palustre</i>	Marsh Bedstraw	O		
	<i>Galium saxatile</i>	Heath Bedstraw	R		
	<i>Nardus stricta</i>	Mat Grass	R		
	<i>Polytrichum commune</i>	Common Haircap	F		
	<i>Potentilla erecta</i>	Tormentil	O		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	F		
	<i>Sphagnum subnitens</i>	Lustrous Bog-moss	R		
	<i>Viola palustris</i>	Marsh Violet	R		
41	NA	NA	NA	M6c <i>Carex echinata</i>-<i>Sphagnum fallax/auriculatum</i> mire-<i>Juncus effusus</i> sub-community	Occurred with mosaic of M4 but generally area east of watercourse was dominated by rushes.
42	NA	NA	NA	Unclassified	Developing birch and willow scrub growing over felled plantation.
43	<i>Calluna vulgaris</i>	Heather	R	M4 <i>Carex rostrata</i>-<i>Sphagnum fallax</i> mire	
	<i>Carex rostrata</i>	Bottle Sedge	D		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	R		
	<i>Juncus effusus</i>	Soft Rush	O		
	<i>Polytrichum commune</i>	Common Haircap	F		
	<i>Sphagnum auriculatum</i>	Cow-horn Bog-moss	O		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	O		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
44	<i>Cirsium palustre</i>	Marsh Thistle	O	M6c <i>Carex echinata</i>-<i>Sphagnum fallax/auriculatum</i> mire-<i>Juncus effusus</i> sub-community	
	<i>Eriophorum angustifolium</i>	Common Cottongrass	R		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		
	<i>Juncus bulbosus</i>	Bulbous Rush	A		
	<i>Juncus effusus</i>	Soft Rush	A		
	<i>Polytrichum commune</i>	Common Haircap	O		
	<i>Potentilla erecta</i>	Tormentil	O		
	<i>Sphagnum auriculatum</i>	Cow-horn Bog-moss	R		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	F		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	O		
	<i>Viola palustris</i>	Marsh Violet	O		
45-48	NA	NA	NA	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	Very species-poor.
49	<i>Aulacomnium palustre</i>	Bog Bead-moss	O	M17 <i>Trichophorum germanicum</i>-<i>Eriophorum vaginatum</i> blanket mire with some M2 <i>Sphagnum cuspidatum/fallax</i> bog pool community	A narrow strip of bog vegetation along fence to west of existing power lines, which continues westwards beyond the fence. There were small pools filled with <i>Sphagnum cuspidatum</i> within this area. Species list is for M17 mire.
	<i>Calluna vulgaris</i>	Heather	F		
	<i>Cladonia portentosa</i>	A Cladonia Lichen	F		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	A		
	<i>Molinia caerulea</i>	Purple Moor-grass	F		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Myrica gale</i>	Bog Myrtle	A		
	<i>Pinus sylvestris</i>	Scots pine seedlings	R		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	O		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	A		
	<i>Sphagnum cuspidatum</i>	Feathery Bog-moss	O		
	<i>Sphagnum papillosum</i>	Papillose Bog-moss	A		
	<i>Sphagnum tenellum</i>	Soft Bog-moss	O		
	<i>Trichophorum germanicum</i>	Deergrass	F		
50	NA	NA	NA	Unclassified	Recently clear-felled and too fragmented and modified to enable NVC survey to be undertaken.
51	NA	NA	NA	Unclassified	Coniferous plantation.
52	<i>Calluna vulgaris</i>	Heather	O	M20 <i>Eriophorum vaginatum</i> blanket and raised mire	Dominated by <i>E. vaginatum</i> , spp. poor.
	<i>Erica tetralix</i>	Cross-leaved Heath	O		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	D		
	<i>Sphagnum cuspidatum</i>	Feathery Bog-moss	O		
	<i>Sphagnum papillosum</i>	Papillose Bog-moss	R		
	<i>Trichophorum germanicum</i>	Deergrass	O		
53	NA	NA	NA	M6c <i>Carex echinata</i>-<i>Sphagnum fallax/auriculatum</i> mire-<i>Juncus effusus</i> sub-community	
54	NA	NA	NA	Unclassified	Coniferous plantation, mostly pine & spruce to west of fence with understorey of <i>Molinea</i> with patches of soft rush and scattered bog myrtle. <i>Molinea</i> continues north along both sides of fence.
55-57	NA	NA	NA	Unclassified	Coniferous plantation.

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
58	NA	NA	NA	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	Species-poor, with some <i>Juncus effusus</i> and <i>Myrica gale</i> patches.
59	NA	NA	NA	Unclassified	Coniferous plantation.
60				M6c <i>Carex echinata</i>-<i>Sphagnum fallax/auriculatum</i> mire-<i>Juncus effusus</i> sub-community	Rare <i>Sphagnum</i> , mostly carpets of jointed rush, with soft rush overtopping.
	<i>Cirsium palustre</i>	Marsh Thistle	O		
	<i>Equisetum variegatum</i>	Variegated Horsetail	R		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	R		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	R		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		
	<i>Juncus articulatus</i>	Jointed Rush	R		
	<i>Juncus bulbosus</i>	Bulbous Rush	A		
	<i>Juncus effusus</i>	Soft Rush	A		
	<i>Molinia caerulea</i>	Purple Moor-grass	O		
	<i>Polytrichum commune</i>	Common Haircap	F		
	<i>Potamogeton polygonifolius</i>	Bog Pondweed	O		
	<i>Potentilla erecta</i>	Tormentil	O		
	<i>Ranunculus flammula</i>	Lesser Spearwort	O		
	<i>Sphagnum auriculatum</i>	Cow-horn Bog-moss	R		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	R		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	R		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	R		
	<i>Viola palustris</i>	Marsh Violet	O		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
61	NA	NA	NA	M25 <i>Molinia caerulea-Potentilla erecta</i> mire	Species-poor along slopes below plantation.
62	NA	NA	NA	Unclassified	Coniferous plantation.
63	NA	NA	NA	M25 <i>Molinia caerulea-Potentilla erecta</i> mire	Species-poor
64	NA	NA	NA	M25 <i>Molinia caerulea-Potentilla erecta</i> mire	Species-poor along slopes below plantation.
65	NA	NA	NA	Unclassified	Coniferous plantation.
66	<i>Calluna vulgaris</i>	Heather	R	M25 <i>Molinia caerulea-Potentilla erecta</i> mire	Very wet.
	<i>Cirsium palustre</i>	Marsh Thistle	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	R		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		
	<i>Juncus effusus</i>	Soft Rush	O		
	<i>Molinia caerulea</i>	Purple Moor-grass	D		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	O		
	<i>Polytrichum commune</i>	Common Haircap	O		
	<i>Sphagnum auriculatum</i>	Cow-horn Bog-moss	R		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	O		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	R		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	O		
	<i>Sphagnum subnitens</i>	Lustrous Bog-moss	R		
	<i>Viola palustris</i>	Marsh Violet	R		
67	NA	NA	NA	Unclassified	Small stand of partially fallen down birch and pine.

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
68	<i>Agrostis capillaris</i>	Common Bent	O	M6c <i>Carex echinata</i>-<i>Sphagnum fallax/auriculatum</i> mire-<i>Juncus effusus</i> sub-community	
	<i>Eriophorum angustifolium</i>	Common Cottongrass	O		
	<i>Juncus bulbosus</i>	Bulbous Rush	F		
	<i>Juncus effusus</i>	Soft Rush	A		
	<i>Pohlia nutans</i>	Nodding Thread-moss	O		
	<i>Polytrichum commune</i>	Common Haircap	A		
	<i>Ranunculus flammula</i>	Lesser Spearwort	R		
	<i>Sphagnum auriculatum</i>	Cow-horn Bog-moss	R		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	O		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	O		
	<i>Viola palustris</i>	Marsh Violet	O		
69	<i>Avenella flexuosa</i>	Wavy Hair-grass	O	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	
	<i>Calluna vulgaris</i>	Heather	O		
	<i>Deschampsia cespitosa</i>	Tufted Hair-grass	R		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	O		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		
	<i>Juncus effusus</i>	Soft Rush	O		
	<i>Molinia caerulea</i>	Purple Moor-grass	D		
	<i>Nardus stricta</i>	Mat grass	R		
	<i>Polytrichum commune</i>	Common Haircap	O		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Salix repens</i>	Creeping willow	O		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	R		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	O		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	O		
70-72	NA	NA	NA	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	Similar species composition to Area 69.
73-74				M18a <i>Erica tetralix</i>-<i>Sphagnum papillosum</i> raised and blanket mire-<i>Sphagnum medium/divinum</i>-<i>Andromeda polifolia</i> sub-community	
	<i>Aulacomnium palustre</i>	Bog Bead-moss	O		
	<i>Calluna vulgaris</i>	Heather	A		
	<i>Cladonia bellidiflora</i>	Cladonia Lichen	R		
	<i>Cladonia portentosa</i>	Cladonia Lichen	A		
	<i>Cladonia uncialis</i> var. <i>biuncialis</i>	Cladonia Lichen	R		
	<i>Dicranum scoparium</i>	Broom Fork-moss	O		
	<i>Drosera rotundifolia</i>	Round-leaved Sundew	O		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	R		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	A		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	A		
	<i>Lichenomphalia umbellifera</i>	Lichen	R		
	<i>Molinia caerulea</i>	Purple Moor-grass	O		
	<i>Myrica gale</i>	Bog Myrtle	F		
	<i>Odontoschisma sphagni</i>	Bog-moss Flapwort	F		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Pinus sylvestris</i>	Scots Pine	R		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	O		
	<i>Polytrichum commune</i>	Common Haircap	R		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	A		
	<i>Sphagnum cuspidatum</i>	Feathery Bog-moss	O		
	<i>Sphagnum medium</i>	Magellanic Bog-moss	R		
	<i>Sphagnum papillosum</i>	Papillose Bog-moss	F		
	<i>Sphagnum tenellum</i>	Soft Bog-moss	O		
	<i>Trichophorum germanicum</i>	Deergrass	R		
75	NA	NA	NA	Unclassified	Coniferous plantation.
76	NA	NA	NA	Unclassified	Stand of immature conifers on top of small hill.
77	NA	NA	NA	Unclassified	Series of small mounds/hills with young conifers growing on top.
78	<i>Aulacomnium palustre</i>	Bog Bead-moss	O	M19 <i>Calluna vulgaris</i>- <i>Eriophorum vaginatum</i> blanket mire	At bottom of hill, vegetation was dominated by <i>Eriophorum vaginatum</i> .
	<i>Avenella flexuosa</i>	Wavy Hair-grass	R		
	<i>Calluna vulgaris</i>	Heather	O		
	<i>Cladonia portentosa</i>	Cladonia Lichen	F		
	<i>Cladonia uncialis</i> var. <i>biuncialis</i>	Cladonia Lichen	R		
	<i>Dactylorhiza maculata</i>	Heath Spotted-orchid	R		
	<i>Drosera rotundifolia</i>	Round-leaved Sundew	R		
	<i>Erica tetralix</i>	Cross-leaved Heath	O		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	A		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	F		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Molinia caerulea</i>	Purple Moor-grass	R		
	<i>Myrica gale</i>	Bog Myrtle	R		
	<i>Narthecium ossifragum</i>	Bog Asphodel	R		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	F		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	F		
	<i>Sphagnum papillosum</i>	Papillose Bog-moss	R		
	<i>Trichophorum germanicum</i>	Deergrass	R		
79	<i>Aulacomnium palustre</i>	Bog Bead-moss	R	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	A more species-rich area of M25.
	<i>Calluna vulgaris</i>	Heather	O		
	<i>Cladonia portentosa</i>	Cladonia Lichen	F		
	<i>Deschampsia cespitosa</i>	Tufted Hair-grass	R		
	<i>Dryopteris carthusiana</i>	Narrow Buckler-fern	O		
	<i>Erica cinerea</i>	Bell Heather	R		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	R		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	R		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		
	<i>Juncus effusus</i>	Soft Rush	R		
	<i>Molinia caerulea</i>	Purple Moor-grass	D		
	<i>Myrica gale</i>	Bog Myrtle	R		
	<i>Pedicularis palustris</i>	Marsh Lousewort	R		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	R		
	<i>Polygala serpyllifolia</i>	Heath Milkwort	R		
	<i>Potentilla erecta</i>	Tormentil	O		
	<i>Racomitrium lanuginosum</i>	Woolly Fringe-moss	O		
	<i>Rumex acetosa</i>	Common Sorrell	R		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	O		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	R		
	<i>Trichophorum germanicum</i>	Deergrass	F		
80	<i>Dryopteris carthusiana</i>	Narrow Buckler-fern	O	M6c <i>Carex echinata</i>-<i>Sphagnum fallax/auriculatum</i> mire-<i>Juncus effusus</i> sub-community	Soft rush dominated channel running from near road to Feith Osdail stream.
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	R		
	<i>Galium saxatile</i>	Heath Bedstraw	R		
	<i>Juncus effusus</i>	Soft Rush	D		
	<i>Molinia caerulea</i>	Purple Moor-grass	O		
	<i>Myrica gale</i>	Bog Myrtle	F		
	<i>Polytrichum commune</i>	Common Haircap	F		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	O		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	O		
	<i>Viola palustris</i>	Bog Violet	R		
81	<i>Avenella flexuosa</i>	Wavy Hair-grass	R	M18a <i>Erica tetralix</i>-<i>Sphagnum papillosum</i> raised and blanket mire-<i>Sphagnum</i>	Several hummocks of <i>Sphagnum austinii</i> present (a rare feature within Priority Peatlands assessment criteria).

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
				medium/divinum-Andromeda polifolia sub-community	
	<i>Calluna vulgaris</i>	Heather	A		
	<i>Carex pulicaris</i>	Flea Sedge	R		
	<i>Cladonia portentosa</i>	Cladonia Lichen	A		
	<i>Cladonia uncialis</i> var. <i>biuncialis</i>	Cladonia Lichen	O		
	<i>Drosera rotundifolia</i>	Round-leaved Sundew	F		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	R		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	A		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		
	<i>Molinia caerulea</i>	Purple Moor-grass	R		
	<i>Myrica gale</i>	Bog Myrtle	R		
	<i>Narthecium ossifragum</i>	Bog Asphodel	F		
	<i>Odontoschisma sphagni</i>	Bog-moss Flapwort	F		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	F		
	<i>Polygala serpyllifolia</i>	Heath Milkwort	R		
	<i>Potentilla erecta</i>	Tormentil	R		
	<i>Racomitrium lanuginosum</i>	Wooly Fringe-moss	F		
	<i>Sphagnum auriculatum</i>	Cow-horn Bog-moss	R		
	<i>Sphagnum austinii</i>	Austin's Bog-moss	R		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	F		
	<i>Sphagnum cuspidatum</i>	Feathery Bog-moss	O		
	<i>Sphagnum medium</i>	Magellanic Bog-moss	F		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Sphagnum papillosum</i>	Papillose Bog-moss	F		
	<i>Sphagnum subnitens</i>	Lustrous Bog-moss	O		
	<i>Sphagnum tenellum</i>	Soft Bog-moss	O		
	<i>Trichophorum germanicum</i>	Deergrass	R		
82	<i>Carex rostrata</i>	Bottle Sedge	D	M4 <i>Carex rostrata</i>-<i>Sphagnum fallax</i> mire	
	<i>Eriophorum angustifolium</i>	Common Cottongrass	O		
	<i>Juncus effusus</i>	Soft Rush	F		
	<i>Myrica gale</i>	Bog Myrtle	R		
	<i>Polytrichum commune</i>	Common Haircap	F		
	<i>Potentilla erecta</i>	Tormentil	R		
	<i>Sphagnum fallax</i>	Flat-topped Bog-moss	O		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	O		
	<i>Succisa pratensis</i>	Devil's-bit Scabious	O		
	<i>Viola palustris</i>	Marsh Violet	R		
83	<i>Calluna vulgaris</i>	Heather	A	M19 <i>Calluna vulgaris</i>-<i>Eriophorum vaginatum</i> blanket mire	
	<i>Cladonia portentosa</i>	Cladonia Lichen	F		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	F		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	A		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Hylocomium splendens</i>	Glittering Wood-moss	F		
	<i>Molinia caerulea</i>	Purple Moor-grass	R		
	<i>Myrica gale</i>	Bog Myrtle	R		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	F		
	<i>Polygala serpyllifolia</i>	Heath Milkwort	R		
	<i>Potentilla erecta</i>	Tormentil	O		
	<i>Racomitrium lanuginosum</i>	Woolly Fringe-moss	R		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	F		
	<i>Sphagnum cuspidatum</i>	Feathery Bog-moss	O		
	<i>Trichophorum germanicum</i>	Deergrass	F		
84	NA	NA	NA	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	Large expanse similar spp. to 79, with scattered <i>E. vaginatum</i> , <i>M. gale</i> and conifer seedlings.
85-86	NA	NA	NA	Unclassified	Coniferous plantation.
87	NA	NA	NA	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	Similar to previous with scattered <i>M. gale</i> and <i>Calluna</i> .
88				U4 <i>Festuca ovina</i>-<i>Agrostis capillaris</i>-<i>Galium saxatile</i> grassland	Narrow strip around <i>Sorbus</i> stand. No <i>Molinia</i> present.
	<i>Agrostis capillaris</i>	Common Bent	A		
	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	F		
	<i>Calluna vulgaris</i>	Heather	R		
	<i>Carex flacca</i>	Glaucous Sedge	R		
	<i>Festuca ovina</i>	Sheep's Fescue	F		
	<i>Galium saxatile</i>	Heath Bedstraw	F		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Potentilla erecta</i>	Tormentil	O		
	<i>Rhytidiadelphus squarrosus</i>	Springy Turf-moss	F		
89	<i>Sorbus aucuparia</i>	Rowan	R	Unclassified	Small stand of <i>Sorbus</i> .
	<i>Sorbus sp.</i>	Whitebeam	D		
90	NA	NA	NA	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	<i>Molinia</i> dominated with some scattered <i>Deschampsia cespitosa</i> , <i>Juncus effusus</i> , <i>Myrica gale</i> and <i>E. vaginatum</i> . Small patches of rush dominated vegetation with <i>Sphagnum palustre</i> , <i>S. fallax</i> and <i>Polytrichum commune</i> (M6c) but too small to map separately.
91	NA	NA	NA	Unclassified	Coniferous plantation.
92	NA	NA	NA	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	Small patch dominated by <i>Molinia</i> .
93	NA	NA	NA	Unclassified	Coniferous plantation.
94	<i>Calluna vulgaris</i>	Heather	F	M17 <i>Trichophorum germanicum</i>-<i>Eriophorum vaginatum</i> blanket mire	Close match to M18a (<i>S. medium</i> present) but abundant <i>Trichophorum</i> present.
	<i>Carex pulicaris</i>	Flea Sedge	R		
	<i>Cladonia portentosa</i>	Cladonia Lichen	A		
	<i>Cladonia uncialis</i> var. <i>biuncialis</i>	Cladonia Lichen	O		
	<i>Drosera anglica</i>	Great Sundew	R		
	<i>Drosera rotundifolia</i>	Round-leaved Sundew	F		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	O		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	F		
	<i>Melampyrum pratense</i>	Common Cow-wheat	O		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Myrica gale</i>	Bog Myrtle	O		
	<i>Narthecium ossifragum</i>	Bog Asphodel	F		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	F		
	<i>Sphagnum cuspidatum</i>	Feathery Bog-moss	O		
	<i>Sphagnum medium</i>	Magellanic Bog-moss	R		
	<i>Sphagnum papillosum</i>	Papillose Bog-moss	A		
	<i>Sphagnum tenellum</i>	Soft Bog-moss	F		
	<i>Trichophorum germanicum</i>	Deergrass	A		
95	NA	NA	NA	Unclassified	Coniferous plantation.
96	NA	NA	NA	Unclassified	Farm buildings, hard standing and amenity grassland.
97	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	R	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	Narrow strip of <i>Molinia</i> dominated vegetation to south of Dalchork Power Station.
	<i>Calluna vulgaris</i>	Heather	O		
	<i>Erica tetralix</i>	Cross-leaved Heath	O		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	O		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		
	<i>Molinia caerulea</i>	Purple Moor-grass	D		
	<i>Myrica gale</i>	Bog Myrtle	F		
	<i>Polytrichum commune</i>	Common Haircap	O		
	<i>Potentilla erecta</i>	Tormentil	O		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	R		
	<i>Viola palustris</i>	Bog Violet	R		
98	NA	NA	NA	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	Narrow strip of <i>Molinia</i> dominated vegetation along western side of access road to Dalchork Power Station.

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
99	<i>Achillea millefolium</i>	Yarrow	O	Unclassified	Neutral grassland dominated by <i>Agrostis stolonifera</i> .
	<i>Agrostis stolonifera</i>	Creeping Bent	D		
	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	R		
	<i>Cirsium palustre</i>	Marsh Thistle	O		
	<i>Cynosurus cristatus</i>	Crested Dog-s-tail	O		
	<i>Deschampsia cespitosa</i>	Tufted Hair-grass	R		
	<i>Digitalis purpurea</i>	Foxglove	O		
	<i>Echium vulgare</i>	Viper's Bugloss	R		
	<i>Festuca rubra</i>	Red Fescue	A		
	<i>Holcus lanatus</i>	Yorkshire-fog	R		
	<i>Hypochaeris radicata</i>	Cat's-ear	O		
	<i>Leucanthemum vulgare</i>	Oxeye Daisy	R		
	<i>Lotus pedunculatus</i>	Greater Bird's-foot Trefoil	R		
	<i>Plantago lanceolata</i>	Ribwort Plantain	R		
	<i>Potentilla erecta</i>	Tormentil	R		
	<i>Prunella vulgaris</i>	Selfheal	R		
	<i>Ranunculus acris</i>	Meadow Buttercup	R		
	<i>Ranunculus repens</i>	Creeping Buttercup	R		
	<i>Rhinanthus minor</i>	Yellow Rattle	R		
	<i>Rumex obtusifolius</i>	Broad-leaved Dock	O		
	<i>Trifolium pratense</i>	Red Clover	R		
	<i>Trifolium repens</i>	White Clover	O		
	<i>Ulex europaeus</i>	Gorse	R		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
100	NA	NA	NA	Unclassified	Recently planted broad-leaved woodland.
101	<i>Aulacomnium palustre</i>	Bog Bead-moss	R	M18a <i>Erica tetralix</i> - <i>Sphagnum papillosum</i> raised and blanket mire- <i>Sphagnum</i> <i>medium/divinum</i> - <i>Andromeda</i> <i>polifolia</i> sub-community	
	<i>Calluna vulgaris</i>	Heather	F		
	<i>Carex pulicaris</i>	Flea Sedge	R		
	<i>Cladonia portentosa</i>	Cladonia Lichen	A		
	<i>Cladonia uncialis</i> var. <i>biuncialis</i>	Cladonia Lichen	O		
	<i>Drosera anglica</i>	Great Sundew	R		
	<i>Drosera rotundifolia</i>	Round-leaved Sundew	F		
	<i>Empetrum nigrum</i>	Crowberry	R		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	R		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	D		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		
	<i>Lichenomphalia umbellifera</i>	A Lichen	R		
	<i>Myrica gale</i>	Bog Myrtle	O		
	<i>Narthecium ossifragum</i>	Bog Asphodel	F		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	O		
	<i>Racomitrium lanuginosum</i>	Wooly Fringe-moss	R		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	A		
	<i>Sphagnum cuspidatum</i>	Feathery Bog-moss	O		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Sphagnum cuspidatum</i>	Feathery Bog-moss	O		
	<i>Sphagnum medium</i>	Magellanic Bog-moss	F		
	<i>Sphagnum papillosum</i>	Papillose Bog-moss	F		
	<i>Sphagnum tenellum</i>	Soft Bog-moss	O		
	<i>Trichophorum germanicum</i>	Deergrass	O		
102	<i>Calluna vulgaris</i>	Heather	R	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	Large expanse of species-poor <i>Molinia</i> dominated mire.
	<i>Carex echinata</i>	Star Sedge	O		
	<i>Dactylorhiza maculata</i>	Heath Spotted-orchid	R		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	R		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	R		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	F		
	<i>Juncus effusus</i>	Soft Rush	O		
	<i>Molinia caerulea</i>	Purple Moor-grass	D		
	<i>Myrica gale</i>	Bog Myrtle	O		
	<i>Narthecium ossifragum</i>	Bog Asphodel	R		
	<i>Polytrichum commune</i>	Common Haircap	R		
	<i>Potentilla erecta</i>	Tormentil	F		
	<i>Sphagnum palustre</i>	Blunt-leaved Bog-moss	F		
	<i>Succisa pratensis</i>	Devil's-bit Scabious	O		
103-104	NA	NA	NA	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	Similar species to Area 102.

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
105	<i>Agrostis capillaris</i>	Common Bent	A	U4 <i>Festuca ovina</i>-<i>Agrostis capillaris</i>-<i>Galium saxatile</i> grassland	Narrow strip along watercourse.
	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	O		
	<i>Festuca ovina</i>	Sheep's Fescue	F		
	<i>Galium saxatile</i>	Heath Bedstraw	F		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	F		
	<i>Hypochaeris radicata</i>	Cat's-ear	O		
	<i>Nardus stricta</i>	Mat Grass	O		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	O		
	<i>Polygala serpyllifolia</i>	Heath Milkwort	R		
	<i>Polytrichum juniperinum</i>	Juniper Haircap	R		
	<i>Potentilla erecta</i>	Tormentil	F		
	<i>Rumex acetosella</i>	Sheep's Sorrell	O		
106	<i>Avenella flexuosa</i>	Wavy Hair-grass	F	H9 <i>Calluna vulgaris</i>-<i>Avenella flexuosa</i> heath	Narrow strip along watercourse.
	<i>Calluna vulgaris</i>	Heather	D		
	<i>Chamaenerion angustifolium</i>	Rosebay Willowherb	O		
	<i>Digitalis purpurea</i>	Foxglove	R		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	O		
	<i>Hypnum jutlandicum</i>	Heath Plait-moss	F		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	R		
	<i>Polytrichum juniperinum</i>	Juniper Haircap	R		
	<i>Potentilla erecta</i>	Tormentil	F		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
107				M23b <i>Juncus effusus/acutiflorus-Galium palustre</i> rush pasture-<i>Juncus effusus</i> sub-community	
	<i>Agrostis stolonifera</i>	Creeping Bent	O		
	<i>Cirsium palustre</i>	Marsh Thistle	O		
	<i>Galium palustre</i>	Marsh Bedstraw	O		
	<i>Holcus lanatus</i>	Yorkshire-fog	F		
	<i>Juncus effusus</i>	Soft Rush	D		
	<i>Lotus pedunculatus</i>	Greater Bird's-foot Trefoil	O		
	<i>Poa trivialis</i>	Rough Meadow-grass	F		
	<i>Potentilla erecta</i>	Tormentil	R		
	<i>Ranunculus acris</i>	Meadow Buttercup	F		
108				MG6 <i>Lolium perenne-Cynosurus cristatus</i> grassland	
	<i>Agrostis capillaris</i>	Common Bent	O		
	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	R		
	<i>Cerastium fontanum</i>	Common Mouse-ear	F		
	<i>Cirsium vulgare</i>	Spear Thistle	O		
	<i>Cynosurus cristatus</i>	Crested Dog's-tail	A		
	<i>Festuca rubra</i>	Red fescue	F		
	<i>Holcus lanatus</i>	Yorkshire-fog	O		
	<i>Hypochaeris radicata</i>	Cat's-ear	R		
	<i>Lolium perenne</i>	Perennial Rye-grass	A		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Poa annua</i>	Annual Meadow-grass	R		
	<i>Ranunculus repens</i>	Creeping Buttercup	F		
	<i>Trifolium repens</i>	White Clover	A		
	<i>Urtica dioica</i>	Common Nettle	R		
109	<i>Calluna vulgaris</i>	Heather	O	M15 <i>Trichophorum germanicum</i>-<i>Erica tetralix</i> wet heath	
	<i>Cladonia portentosa</i>	Cladonia Lichen	O		
	<i>Cladonia uncialis</i> var. <i>biuncialis</i>	Cladonia Lichen	R		
	<i>Dactylorhiza maculata</i>	Heath Spotted-orchid	R		
	<i>Empetrum nigrum</i>	Crowberry	R		
	<i>Erica cinerea</i>	Bell Heather	R		
	<i>Erica tetralix</i>	Cross-leaved heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	O		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	R		
	<i>Hylocomium splendens</i>	Glittering Wood-moss	R		
	<i>Juncus squarrosus</i>	Heath Rush	O		
	<i>Luzula multiflora</i>	Heath Woodrush			
	<i>Molinia caerulea</i>	Purple Moor-grass	F		
	<i>Myrica gale</i>	Bog Myrtle	O		
	<i>Narthecium ossifragum</i>	Bog Asphodel	F		
	<i>Pinguicula vulgaris</i>	Common Butterwort	R		
	<i>Pleurozia purpurea</i>	Purple Spoonwort	R		
	<i>Potentilla erecta</i>	Tormentil	O		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Racomitrium lanuginosum</i>	Woolly Fringe-moss	R		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	F		
	<i>Sphagnum cuspidatum</i>	Feathery Bog-moss	O		
	<i>Sphagnum papillosum</i>	Papillose Bog-moss	R		
	<i>Sphagnum tenellum</i>	Soft Bog-moss	R		
	<i>Trichophorum germanicum</i>	Deergrass	A		
	<i>Vaccinium myrtillus</i>	Bilberry	R		
110	NA	NA	NA	M25 <i>Molinia caerulea</i>-<i>Potentilla erecta</i> mire	Species-poor Molinia dominated area.
111				M17 <i>Trichophorum germanicum</i>-<i>Eriophorum vaginatum</i> blanket mire	
	<i>Aulacomnium palustre</i>	Bog Bead-moss	O		
	<i>Calluna vulgaris</i>	Heather	O		
	<i>Cladonia portentosa</i>	A Cladonia Lichen	F		
	<i>Erica tetralix</i>	Cross-leaved Heath	F		
	<i>Eriophorum angustifolium</i>	Common Cottongrass	R		
	<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	A		
	<i>Molinia caerulea</i>	Purple Moor-grass	O		
	<i>Myrica gale</i>	Bog Myrtle	O		
	<i>Narthecium ossifragum</i>	Bog Asphodel	F		
	<i>Pleurozium schreberi</i>	Red-stemmed Feather-moss	O		
	<i>Potentilla erecta</i>	Tormentil	O		
	<i>Sphagnum capillifolium</i>	Acute-leaved Bog-moss	A		
	<i>Sphagnum cuspidatum</i>	Feathery Bog-moss	O		

TRANSMISSION

NVC Area	Latin Name	English Name	DAFOR	NVC Code	Notes
	<i>Sphagnum papillosum</i>	Papillose Bog-moss	A		
	<i>Sphagnum tenellum</i>	Soft Bog-moss	O		
	<i>Trichophorum germanicum</i>	Deergrass	A		
112				M15 <i>Trichophorum germanicum</i>-<i>Erica tetralix</i> wet heath	Similar species composition to Area 109.

Annex C NatureScot Priority Peatlands Template

Advising on carbon rich soils, deep peat and priority peatland habitats in development management - guidance for staff - 2023

				ASSESSMENT CRITERIA - Within a 250m of development footprint															
				Peat Depth (cm)		Criteria 1 Raised bog	Criteria 2 Montane bog	Criteria 3 Blanket bog											
Chleainsaid				as shown in ES	as measured during NaturScot site visit	Raised bog present supporting typical bog vegetation	Montane bog present supporting typical bog vegetation	Within a continous unit of blanket bog (>25ha)	Blanket bog support vegetation capable of peat forming	Few drains/pea t cutting?	Peat forming spp/low disurbanc e?	Natural surface pattern?	absence of invasion by woodland/ scrub?	Abundant Sphag- rich ridges	Sphagnum- B.nana ridges	S.fuscum or S.austini hummocks ?* Rare features. Yes is very good. No is neutral. One or more yes = possible national interest	Peat Mounds?	Rhynch fusca?	
				depth >50 cm = carbon rich soil	Yes is good Likely national interest	Yes is good Possible national interest	Yes is good	Yes is good	Yes is good Two or more yes = possible national interest				Rare features. Yes is very good. No is neutral. One or more yes = possible national interest						
NVC Area	Easting	Northing	NVC		No -> check for other type of bog	No -> check for other type of bog	No -> advise on mitigation measures		No -> check rare features				No -> advise on mitigation measures					assessment result	
3			U4			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
4			H9			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
5			U20			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
6			U4			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
7			H9			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
8			U4			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
9			H9			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
10			H9			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
12			M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
13			M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
14			M6c/M3			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest

TRANSMISSION

15		M25/M6c			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
16		M25/M6c			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
17		M15/M3/M6c			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
18		M15/M3/M6c			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
19		M15/M3/M6c			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
20		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
22		M15/M4			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
24		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
25		M6c/M4			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
26		M15			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
27		M15			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
28		H9			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
29		M17/M2			No	No	No	Yes	No	No	No	No	No	No	No	No	No	Good
38		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
39		M6c			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
40		M4			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
41		M6c			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
43		M4			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
44		M6c			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
45		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
46		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
47		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
48		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
49		M17/M2			No	No	No	Yes	No	No	No	No	No	No	No	No	No	Good
52		M20			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
53		M6c			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
58		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
60		M6c			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
61		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
63		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
64		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
66		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
68		M6c			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
69		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
70		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
71		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
72		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
73		M18a			No	No	No	Yes	No	No	No	No	No	No	No	No	No	Good
74		M18a			No	No	No	Yes	No	No	No	No	No	No	No	No	No	Good
78		M19			No	No	No	Yes	No	No	No	No	No	No	No	No	No	Good
79		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
80		M6c			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
81		M18a			No	No	No	Yes	No	No	No	No	No	No	Yes	No	No	Possible National Interest
82		M4			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
83		M19			No	No	No	Yes	No	No	No	No	No	No	No	No	No	Good
84		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
87		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
88		U4			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
90		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
92		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
94		M17			No	No	No	Yes	No	No	No	No	No	No	No	No	No	Good
97		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
98		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
101		M18a			No	No	No	Yes	No	No	No	No	No	No	No	No	No	Good
102		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
103		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
104		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
105		U4			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
106		H9			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
107		M23b			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
108		MG6			No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest

TRANSMISSION

109		M15			No	No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
110		M25			No	No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest
111		M17			No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	Good
112		M15			No	No	No	No	No	No	No	No	No	No	No	No	No	No	Not a national interest