



Habitat Survey

St Asaph Solar Farm

Anesco Limited

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Basis of Report

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Table of Contents

Basis of Report	i
1.0 Introduction	1
1.1 Background	1
1.2 Site Description	1
1.3 Purpose of this Report	1
1.4 Evidence of Technical Competence and Experience	1
2.0 Methods	3
2.1 Desk Study	3
2.2 Field Survey	3
2.3 Limitations	3
2.3.1 Desk Study	3
2.3.2 Field Survey	4
3.0 Results	5
3.1 Desk Study	5
3.1.1 Statutory Designated Sites	5
3.1.2 Non-Statutory Designated Sites	6
3.1.3 Ancient Woodland	8
3.1.4 Priority Habitats	8
3.1.5 Plant Species	8
4.0 Field Survey	11
4.1.1 Modified Grassland (g4)	11
4.1.2 Other Neutral Grassland (g3c)	12
4.1.3 Native Hedgerow (h2a)	13
4.1.4 Other Lowland Mixed Deciduous Woodland (w1f7)	15
4.1.5 Other Rivers and Streams (r2b)	17
4.1.6 Urban	17
4.1.7 Line of trees (w1, 33)	19
4.1.8 Other Standing Water (r1g)	20
4.1.9 Species	21
5.0 Discussion	22



Tables in Text

Table 3-1 Statutory Designated Site Descriptions	5
Table 3-2 Non-Statutory Designated Sites within 2km of the Solar Site	6
Table 3-3 Notable Plant Species Recorded within 2km of the Solar Site boundary.	8

Plates

Plate 4-1 Modified Grassland - Western Parcel.....	11
Plate 4-2 Modified Grassland - Eastern Parcel.....	12
Plate 4-3 Mature Tree - Eastern Parcel.....	12
Plate 4-4 Other Neutral Grassland at the Site.	13
Plate 4-5 Native hedgerow with the Site.....	14
Plate 4-6 Ditch Associated with Hedgerow within the Site.....	15
Plate 4-7 Other Lowland Mixed Deciduous Woodland within the Western Parcel.....	16
Plate 4-8 Other Lowland Deciduous Mixed Woodland within the Eastern Parcel.....	16
Plate 4-9 Brook /Stream within the Site.	17
Plate 4-10 Other Developed Land - Track within the Site.	18
Plate 4-11 Other Developed Land – Glascoed Road.....	18
Plate 4-12 Artificial Unvegetated - Unsealed Surface - Track within the Site.	19
Plate 4-13 Line of Trees within the Site.	20
Plate 4-14 Typical Pond within the Site.	20
Plate 4-15 Shallow Ephemeral Pond with the Site.....	21

Appendices

Appendix A	Drawing C0002452_01 Site Location
Appendix B	Drawing C0002452_02 Site Layout
Appendix C	Figure 1 Baseline Habitats
Appendix D	Locations of Non-Statutory Designated Sites
Appendix E	Records of Notable Plant Species



1.0 Introduction

In November 2024, SLR Consulting Limited (SLR) was commissioned by Anesco Limited to undertake habitat survey of a proposed solar farm located at St Asaph, Denbighshire, Wales and broadly centred on National Grid Reference (NGR) SJ 02443 72771, hereafter referred to as the 'Site'.

This report presents the findings of the UK Habitat Classification survey undertaken at the Site.

1.1 Background

SLR Consulting Limited were previously instructed to provide ecological support in relation to the proposed solar farm at St Asaph in December 2021. Since that date, extensive ecological surveys have been undertaken which have fed into the Site design and final layout.

1.2 Site Description

The Site is situated in Denbighshire, approximately 1km to the south-west of the settlement of St Asaph, and approximately 8km south of the seaside town of Rhyl. The location of the Site is shown in Drawing C0002452_01 (Appendix A) and the Site boundary is shown in Drawing C0002452_02 (Appendix B). The Site consists of the main Solar Site and the Cable Route, connecting to the St Asaph Substation.

The Solar Site is approximately 35.42ha in extent and is divided into two areas approximately 250m apart. The Western Parcel is a set of four fields approximately centred on NGR SJ 02123 72727 and the Eastern Parcel is a set of three fields approximately centred on NGR SJ 02644 72614. The fields consist of modified grassland, of a short to medium sward length used for cattle and sheep grazing. The boundaries of the fields consist of flailed hedgerows, some containing mature trees, and of semi-natural, lowland mixed deciduous woodland.

The Cable Route is limited to highways that connect the Solar Site to St Asaph Substation. This includes the track to Tyn Y Coed, Glascoed Road, and Cwttir Lane.

The wider landscape is generally farmland used for grazing or arable crops, there are also several woodlands, some of which are ancient.

1.3 Purpose of this Report

This report presents the findings of the habitat survey. The report seeks to establish baseline conditions and identify habitats that are important ecological features (irrespective of any specific faunal species they may support). The assessment of impacts resulting from the proposals is beyond the scope of this report however and will be covered in the Ecological Impact Assessment (EclA).

1.4 Evidence of Technical Competence and Experience

The survey work was undertaken by Emma Clarke, BSc, Senior Ecologist at SLR and Qualifying member of the Chartered Institute of Ecology and Environmental Management (CIEEEM), with 6 years' experience as a professional Ecologist and skilled in UK habitat classification, also holding Natural England (NE) GCN Level 1 Class Licence (2019-43874-CLS-CLS), NE Bat Level 2 Class Licence (2023-10986-CL18-BAT) and holding a NPTC Level 2 Award Tree Climbing and Rescue (units 206, 306). The report was authored by Emma.



This report has been subject to review by Andy Law CEcol, MCIEEM, a Principal Ecologist with SLR, and has been approved by Gary Oliver MCIEEM, also a Principal Ecologist with SLR.



2.0 Methods

2.1 Desk Study

Cofnod the local environmental record centre North Wales, was commissioned to conduct a search of statutory and non-statutory designated sites for nature conservation, priority habitats, phase 1 habitat survey data, ancient woodland, ancient tree and protected and notable plant species within the Solar Site and within a 2km radius of the Solar Site boundary. The data was obtained on 12th February 2025.

2.2 Field Survey

The Site was surveyed to identify the broad habitat types present in accordance with the UK Habitat Classification methodology (UKHab version 2.0)¹.

The UKHab system comprises a principal hierarchy (the Primary Habitats) which involves the identification of broad habitats and Priority habitats, as well as the use of non-hierarchical Secondary codes.

Habitats were classified up to Level 5 of the Primary Hierarchy where possible, and all mandatory secondary codes were used, along with optional secondary codes where relevant.

A Minimum Mapping Unit (MMU) of 25m² or 5m length was used for mapping habitat polygons and lines.

Plant species listed in Schedule 9 of the Wildlife and Countryside Act (WCA) 1981 (as amended), such as Japanese knotweed (*Fallopia japonica*), Himalayan balsam (*Impatiens glandulifera*) and giant hogweed (*Heracleum mantegazzianum*) were also searched for.

The survey was undertaken on 13th and 14th February 2025. A further survey was undertaken on 23rd April 2025, of the woodland, stream and ditch habitats to add to species lists, and a targeted search for bluebells and other valuable ground flora was carried out at hedgerow sections due for removal. Prior to this, several visits involving habitat recording had been undertaken as described above, encompassing some parts of the current Site, as well as surrounding habitats present within previous iterations of the Site boundary.

Previous surveys were undertaken on:

- 21st January 2022;
- 15th September 2022 (central cable route joining Eastern and Western Parcels);
- 15th December 2023; and
- 11th April 2024 (northeastern areas of the Eastern Parcel)

Notes and photographs from previous surveys have been used alongside the most recent survey to accurately classify habitats within the Site boundary as per Figure 1 – Baseline Habitats (Appendix C).

2.3 Limitations

2.3.1 Desk Study

Desk study data is unlikely to be exhaustive, especially in respect of species, and is intended mainly to set a context for the study. It is therefore possible that important habitats or

¹ UKHab Ltd (2023) UK Habitat Classification System Version 2.0. Available at: <https://www.ukhab.org>



protected species not identified during the data search do in fact occur within the vicinity of the Site. Interpretation of maps and aerial photography has been conducted in good faith, using recent imagery, but it has not been possible to verify the accuracy of any statements relating to land use and habitat context outside of the field study area.

2.3.2 Field Survey

All areas of the Site were accessible for the purposes of the UKHab survey. The timing of the survey in February 2025 was outside the main plant growing season and certain species may not have been evident. Therefore, the timing of the survey could have resulted in ground flora and invasive plant species being under-recorded within woodlands and hedgerow bases and in ditches and streams, therefore the survey was updated on 23rd April to account for this.

The main habitat recorded on Site and due to be impacted by the scheme, modified grassland, is unlikely to support any rare or notable species due to intensive grazing and other management practices, therefore no survey limitations are considered to apply.



3.0 Results

3.1 Desk Study

3.1.1 Statutory Designated Sites

The Site itself is not designated as a statutory ecological site, however, there are two sites within 2km of the main Solar Site boundary whose boundaries are coincident; Coedydd ac Ogofau Elwy a Meirchion Site of Special Scientific Interest (SSSI) and Coedwigoedd Dyffryn Elwy / Elwy Valley Woods Special Area of Conservation (SAC) and are situated 865m south-west of the Site at their nearest point. Further details are provided in Table 3-1.

Table 3-1 Statutory Designated Site Descriptions

Distance from Solar Site	Site Name, Size and Designation	Description
c.865m southwest of Site	Coedwigoedd Dyffryn Elwy / Elwy Valley Woods (82.7 ha) SAC	<i>“One of three sites selected to represent Tilio-Acerion forest across its geographic range on the carboniferous limestone of north Wales, and is an example of the habitat with an outstanding lower-plant flora. The canopy is quite varied: ash (Fraxinus excelsior) is the commonest tree, but there is also occasional small-leaved lime Tilia cordata and wild service-tree Sorbus torminalis. There is a rich, calcicolous understorey and ground flora, and rare bryophytes include Bryum canariense, Cololejeunea rossettiana, Plagiochila britannica, Platydictya confervoides and Isothecium striatulum. The woods have developed along steep valley-sides and ravines that are also important for their cave systems and Pleistocene fossil mammal assemblages.”²</i>
	Coedydd ac Ogofau Elwy a Meirchion (83.01 ha) SSSI	<i>“The site is of special interest for its semi-natural broadleaved woodland, its rare flowering plant assemblage, its scarce bryophyte assemblage and the geological and palaeontological interest of Galltfaenan, Cefn and Pontnewydd Caves... The woodlands consist largely of ash and oak Quercus petraea high forest, with other woodland communities occasionally assuming local prominence... Of particular interest are the uncommon wild service tree and small-leaved lime, both of which occur east of the River Meirchion... The diverse understorey, within which hazel Corylus avellana is dominant, is a rich mixture of species such as hawthorn Crataegus monogyna, holly Ilex aquifolium, spindle Eunonymus europaeus, privet Ligustrum vulgare, dogwood Cornus sanguinea and on the especially thin, basic soils, the uncommon spurge laurel Daphne laureola. Yew Taxus baccata also occurs frequently... In the ash-dominated woodland the herb layer is varied, with dog's mercury Mercurialis perennis and ivy Hedera helix being conspicuous components and with sanicle Sanicula europaea, enchanter's nightshade Circaea lutetiana and woodruff Galium</i>

² [Coedwigoedd Dyffryn Elwy/ Elwy Valley Woods - Special Areas of Conservation](#)



Distance from Solar Site	Site Name, Size and Designation	Description
		<p><i>odoratum</i> also present. More uncommon species include broadleaved helleborine <i>Epipactis helleborine</i>, columbine <i>Aquilegia vulgaris</i> and herb paris <i>Paris quadrifolia</i>. In the oak woodland, where the soil is base-poor, heather <i>Calluna vulgaris</i>, greater woodrush <i>Luzula sylvatica</i>, bell-heather <i>Erica cinerea</i>, wavy hair-grass <i>Deschampsia flexuosa</i> and golden-rod <i>Solidago virgaurea</i> can be found...</p> <p>Calcareous grassland occurs north of the River Elwy which together with the vegetated limestone cliffs, forms a very species-rich part of the site. Important plants to be found in the cliff-top grassland, among the more usual salad burnet <i>Sanguisorba minor</i> and common rockrose <i>Helianthemum nummularium</i>, include the nationally scarce spiked speedwell <i>Veronica spicata</i> subsp. <i>hybrida</i>, spring cinquefoil <i>Potentilla neumanniana</i>, bloody cranesbill <i>Geranium sanguineum</i> and dark mullein <i>Verbascum nigrum</i>.³</p>

3.1.2 Non-Statutory Designated Sites

There are several non-statutory sites within 2km of the Solar Site boundary, they are detailed in Table 3-2, and illustrated in Appendix D.

Table 3-2 Non-Statutory Designated Sites within 2km of the Solar Site

Distance from the Solar Site	Site Name	Description
Partly adjacent to the east of the Eastern Parcel.	Ty'n-y-Coed Rough (2 areas) Wildlife Sites for Denbighshire	Flat, lowland broadleaved woodland
Partly adjacent to the south of the Eastern Parcel	Glascoed (2 areas) Wildlife Sites for Denbighshire	Lowland, ancient broadleaved woodland
123m northwest of the Western Parcel	Coed Cord / Coed y Saeson Wildlife Sites for Denbighshire	Flat, low lying, ancient woodland including alder, ash, oak and birch communities. Hazel forms an extensive herb layer with hawthorn and ash and elm saplings. The herb-layer is varied with dog's mercury, sanicle, giant fescue, False brome and early dog-violet.
322m northeast of the Eastern Parcel	Coed Fron and Eryl Hall Wood Wildlife Sites for Denbighshire	Ancient woodland with alder, ash, oak and birch communities.
416m northwest of Site	Gwynt-y-Mor Wild Ground Nature Reserve	No details provided.
431m west of Site	Bryn Meiriadog Wildlife Sites for Denbighshire	Ancient woodland including alder, ash and oak communities, blackthorn and hazel scrub and calcareous grassland . The latter occurs on rocky outcrops within the wood. Ancient woodland flora includes black bryony, bluebell, wild strawberry, wood avens, common cow-wheat and wood melick. The limestone grassland flora in rocky areas includes sheep's fescue,

³ SSSI NOTIFICATION/RENOTIFICATION CITATIONS - FORMAT



Distance from the Solar Site	Site Name	Description
		meadow oat-grass, musk thistle, common Rock-rose, common stork's-bill and wild thyme. On deeper soils it is quite rank but species rich with sweet vernal-grass, false oat-grass, meadow oat-grass, creeping thistle, pignut, bird's-foot-trefoil, salad burnet, goat's-beard and the uncommon dropwort. This area is part of Cefn Estate, which supports a large population of fallow deer.
631m south of Site	Coed Kendrick Wildlife Sites for Denbighshire	Ancient broadleaved woodland on a gentle, south facing slope.
737m southwest of Site	Coed yr Accar (2 areas) Wildlife Sites for Denbighshire	Ancient broadleaved woodland.
1028m southeast of Site	Chapel Wood/Coed Mawr Wildlife Sites for Denbighshire	South facing ancient broadleaved woodland
1267m northwest of Site	Glascoed Wild Ground Nature Reserve	A mosaic of 14 ponds, improved grasslands, ditch and 2 planted woodland compartments, some mature trees in pre-existing hedgerows, especially along the northern boundary.
1329m southeast of Site	Rickfield Wood/Coed Ddol Fawr/Coed Llanddol/Maes Elwy Covert (R Elwy Woods) Wildlife Sites for Denbighshire	Ancient broadleaved and replanted woodland along the Elwy Valley
1556m southwest of Site	Coed Bont Newydd Wildlife Sites for Conwy	Broadleaved woodland.
1614m southwest of Site	Coed Nant-y-graig Wildlife Sites for Conwy	Broadleaved woodland.
1649m west of Site	Coed y Ddol/Coed y Fadir Wildlife Sites for Denbighshire	A south facing lowland ancient woodland on the valley side of the River Elwy. Wet, alder woodland occurs on lower slopes, ash woodland where it is drier, and silver birch woodland where soils are more acid.
1653m southwest of Site	Pwllau Graig Wildlife Sites for Conwy	Standing water.
1774m northeast of Site	Mount Road Churchyard, St Asaph Wildlife Sites for Denbighshire	This cemetery has neutral grassland, which has been left uncut during the summer. Species include cock's-foot, common knapweed, pepper saxifrage and stinking Iris. Trees around the site include ash, oak, yew and wild cherry. Various butterflies occur such as orange tip, meadow brown, small tortoiseshell and peacock and a large population of slow worm has been recorded.
1916m south of Site	Coed Pont y Trap Wildlife Sites for Conwy	Broadleaved woodland.
1973m southwest of Site	Pwllau Coed y Dafarn Wildlife Sites for Conwy	Standing water.
1976m south of Site	Nany Meirchion field Wildlife Sites for Denbighshire	Species rich neutral grassland on a valley side. Species include crested dog's-tail, Yorkshire-fog, common bent, common knapweed, cat's-ear, primrose, common century, bird's-foot-trefoil and early-purple orchid. Wetter parts have greater bird's-foot-trefoil, meadowsweet and creeping buttercup.



3.1.3 Ancient Woodland

The data received by Cofnod revealed multiple ancient woodlands within 2km of the Solar Site. Two of these ancient woodlands are adjacent to the site boundary:

- Pig-y-fran (Plantation on Ancient Woodland Site) – is adjacent to the mid-section of the Eastern Area, on its western side; and
- Tyn-y-coed Rough (Restored Ancient Woodland Site) – is adjacent to the Eastern Area, for a section on its northeastern side.

The location, and extent, of these woodlands is illustrated in Appendix D.

3.1.4 Priority Habitats

The data received by Cofnod found no priority habitats recorded within the Solar Site boundary. The closest priority habitats to the Site are two small i.e. less than 0.1ha each, traditional orchards, lying between the Eastern and Western Parcels, approximately 135m from the Solar Site at their closest point, several other small traditional orchards are found within the 2km search area further away from Site. Approximately 430m to the south of Solar Site, is a larger area of wood pasture and parkland (420ha), also containing two small areas of lowland calcareous grassland. Further wood pasture and parkland is present at Bodelwyddan Park approximately 1.75km to the northwest of the Solar Site. To the southeast limestone pavements are recorded approximately 641m away from the Site boundary. Areas to the east and south of Site, associated with the River Elwy /Afon Elwy are recorded as coastal floodplain and grazing marsh.

3.1.5 Plant Species

Cofnod returned records of numerous notable plant species occurring within 2km of the proposed development. None of these were recorded within the Solar Site boundary. Table 3-3 shows notable species within a 2km radius of the Solar Site. In addition to those listed in Table 3-3, further plant species of local importance⁴ occur and are provided in Appendix E.

Table 3-3 Notable Plant Species Recorded within 2km of the Solar Site boundary.

Scientific Name	English Name	Most Recent Record	Nearest record to the Solar Site	Status*
<i>Silene vulgaris</i>	Bladder Champion	2016	300m	Wales Red List - Near Threatened
<i>Juniperus communis subsp. communis</i>	Common Juniper	1970	394m	UK BAP, Section 7
<i>Pinus sylvestris</i>	Scots Pine	2024	406m	Red Data Book - Nationally Scarce, Rare Plant Register Denbighshire - Locally Rare
<i>Carex pseudocyperus</i>	Cyperus Sedge	2016	431m	Wales Red List - Near Threatened, Rare Plant Register Denbighshire - Locally Rare
<i>Hypericum montanum</i>	Pale St John's-wort	2017	844m	Red List - Near Threatened

⁴ As defined within the Denbighshire (VC50) Country Rare Plants Register



Scientific Name	English Name	Most Recent Record	Nearest record to the Solar Site	Status*
<i>Anacamptis morio</i>	Green-winged Orchid	2021	884m	Red List - Near Threatened, CITES-B, Rare Plant Register Denbighshire - Locally Rare
<i>Ctenidium molluscum</i>	Chalk Comb-moss	2009	949m	Wales Red List - Data Deficient
<i>Verbascum nigrum</i>	Dark Mullein	2023	954m	Wales Red List - Near Threatened
<i>Hyacinthoides non-scripta</i>	Bluebell	2021	978m	WCA 8
<i>Sagittaria sagittifolia</i>	Arrowhead	1999	996m	Wales Red List - Vulnerable
<i>Veronica spicata</i>	Spiked Speedwell	2011	1030m	WCA 8
<i>Euphorbia lathyris</i>	Caper Spurge	2024	1030m	CITES-B, Rare Plant Register Denbighshire - Locally Scarce
<i>Scabiosa columbaria</i>	Small Scabious	2021	1030m	Wales Red List - Vulnerable
<i>Helleborus foetidus</i>	Stinking Hellebore	2011	1030m	Red Data Book - Nationally Scarce
<i>Sesleria caerulea</i>	Blue Moor-grass	1982	1145m	Red Data Book - Nationally Scarce, Wales Red List - Regionally Extinct
<i>Buxus sempervirens</i>	Box	1985	1383m	Red Data Book - Nationally Rare, Rare Plant Register Denbighshire - Locally Rare
<i>Ophrys apifera</i>	Bee Orchid	2024	1384m	CITES-B
<i>Veronica spicata subsp. hybrida</i>	Western Spiked Speedwell	1999	1444m	WCA 8, Rare Plant Register Denbighshire - Locally Rare
<i>Butomus umbellatus</i>	Flowering-rush	2012	1449m	Wales Red List - Vulnerable
<i>Physcia tenella</i>	a lichen	1972	1556m	Wales Red List - Data Deficient
<i>Xanthoria ucrainica</i>	a lichen	1972	1556m	Red Data Book - Near Threatened, Rare Plant Register Denbighshire - Locally Scarce
<i>Ruscus aculeatus</i>	Butcher's-broom	1926	1556m	HDir 5, Wales Red List - Vulnerable, Rare Plant Register Denbighshire - Locally Rare
<i>Mentha arvensis</i>	Corn Mint	2024	1556m	Wales Red List - Vulnerable, Rare Plant Register Denbighshire - Locally Near Scarce
<i>Centaurea cyanus</i>	Cornflower	1850	1556m	UK BAP, Section 7, Wales Red List - Critically Endangered
<i>Potentilla tabernaemontani</i>	Spring Cinquefoil	1999	1604m	Red Data Book - Nationally Scarce
<i>Entosthodon pulchellus</i>	Pretty Cord-moss	2005	1637m	UK BAP, Red Data Book - Near Threatened, Rare Plant Register Denbighshire - Locally Near Scarce
<i>Euphorbia amygdaloides</i>	Wood Spurge	2000	1641m	CITES-B, Rare Plant Register Denbighshire - Locally Scarce



Scientific Name	English Name	Most Recent Record	Nearest record to the Solar Site	Status*
<i>Hippuris vulgaris</i>	Mare's-tail	1978	1699m	Wales Red List - Near Threatened
<i>Vicia bithynica</i>	Bithynian Vetch	2020	1835m	Red Data Book - Nationally Scarce, IUCN Red List - Vulnerable, Wales Red List - Endangered, Rare Plant Register Denbighshire - Locally Rare
<i>Spergula arvensis</i>	Corn Spurrey	2011	2296m	Red List - Vulnerable, Wales Red List - Near Threatened, Rare Plant Register Denbighshire - Locally Near Scarce

*HDir5 - Habitats Directive, Annex V - Species where population management is decided by individual countries, UK BAP - UK Biodiversity Action Plan Priority Species, CITES-B - Convention on International Trade in Endangered Species, Annex B - Species that may become extinct unless trade is closely controlled, Red Data Book - Red Data Book listing (not based on IUCN guidelines), Red List - IUCN Red List of Threatened Species, WCA 8 - Wildlife & Countryside Act 1981 Schedule 8 - Plants which are protected, Wales Red List - Red Data List for Wales

Invasive non-native (INNS)

There were 52 records of invasive non-native plant species returned by the data search listed as such under Schedule 9 of the WCA 1981:

- 36 records of Himalayan balsam (*Impatiens glandulifera*) also an Invasive Alien Species (IAS), with the nearest being 754m from the Solar Site;
- Three records of montbretia (*Crocsmia pottsii x aurea = C. x crocosmiiflora*) with the nearest being 1278m from the Solar Site;
- Two records of wall cotoneaster (*Cotoneaster horizontalis*) with the nearest being 1030m from the Solar Site;
- Two records of American skunk cabbage (*Lysichiton americanus*) also an IAS with the nearest being 1027m from the Solar Site;
- One record of few flowered garlic (*Allium paradoxum*) with the nearest being 2000m from the Solar Site;
- One record of giant hogweed (*Heracleum mantegazzianum*) also an IAS, with the nearest being 1906m from the Solar Site;
- One record of Himalayan cotoneaster (*Cotoneaster simonsii*) with the nearest being 1676m from the Solar Site;
- One record of Himalayan honeysuckle (*Leycesteria formosa*) with the nearest being 1556m from the Solar Site;
- One record of Japanese knotweed (*Fallopia japonica*) with the nearest being 1152m from the Solar Site;
- One record of Japanese rose (*Rosa rugosa*) with the nearest being 1152m from Site;
- One record of New Zealand Pygmy weed (*Crassula helmsii*) with the nearest being 1270m from the Solar Site;
- One record of small leaved cotoneaster (*Cotoneaster microphyllus*) with the nearest being 1030m from the Solar Site; and
- One record of Variegated Yellow Archangel (*Lamium galeobdolon subsp. argentatum*) with the nearest being 1944m from the Solar Site.



4.0 Field Survey

A summary of the habitats within the Site is provided below. A plan showing the habitats present within the Site boundary is provided as Figure 1 - Baseline Habitats (Appendix C).

4.1.1 Modified Grassland (g4)

The Western Parcel encompasses four fields comprised of cattle grazed (secondary code 101) modified grassland (Plate 4-1). Diversity of plant species was poor, with perennial rye grass (*Lolium perenne*) dominating the sward. Other grasses occurred occasionally including, cock's-foot (*Dactylis glomerata*), which was more prevalent at field edges, creeping bent (*Agrostis stolonifera*) and annual meadow grass (*Poa annua*).

Broadleaved plants occurred occasionally including, creeping buttercup (*Ranunculus repens*), dandelion (*Taraxacum officinale agg.*), white clover (*Trifolium repens*) and mouse-ear chickweed (*Cerastium fontanum*). Broad-leaved dock (*Rumex obtusifolius*) occurred rarely.



Plate 4-1 Modified Grassland - Western Parcel

The Eastern Parcel encompasses three fields, all of which comprised sheep grazed (secondary code 102) or cattle grazed (secondary code 101) modified grassland (Plate 4-2), species composition was similar to that of the Western Parcel with mouse-ear chickweed (*Cerastium fontanum*) occurring frequently. Meadow foxtail (*Alopecurus pratensis*) and Yorkshire fog grass (*Holcus lanatus*) were also recorded. Lesser celandine (*Ficaria verna*) was locally abundant at field edges in the northern field.





Plate 4-2 Modified Grassland - Eastern Parcel

4.1.1.1 Mature Trees (secondary code 203)

Four individual mature trees occur within the modified grassland habitats of the Eastern Parcel. These were all pedunculate oak (*Quercus robur*) trees, three of which had been subject to heavy pruning of limbs, as per Plate 4-3. One mature oak occurred within the modified grassland of the Western Parcel.



Plate 4-3 Mature Tree - Eastern Parcel

4.1.2 Other Neutral Grassland (g3c)

The Site includes a narrow strip of land between the Western and Eastern Parcels which is due to provide a cable route between them, this includes the edges of several horse grazed fields of 'Other Neutral Grassland' (Plate 4-4). The sward here was of a short to medium length, containing perennial rye grass, annual meadow grass, red fescue (*Festuca rubra*),



Yorkshire fog, locally abundant knapweed (*Centaurea nigra*), creeping buttercup, common sorrel (*Rumex acetosa*) and yarrow (*Achillea millefolium*).



Plate 4-4 Other Neutral Grassland at the Site.

4.1.3 Native Hedgerow (h2a)

The fields in both the Western and Eastern Parcels are bordered by native hedgerows (Plate 4-5). All are managed by flailing (secondary code 116), to a height usually below 2m, and generally comprised of a dominance of either hawthorn (*Crataegus monogyna*) or blackthorn (*Prunus spinosa*). Also occasionally present was bramble (*Rubus fruticosus*), hazel (*Corylus avellana*), gorse (*Ulex europaeus*), field maple (*Acer campestre*), dog rose (*Rosa canina*), and rarely holly (*Ilex aquifolium*), elder (*Sambucus nigra*), willow (*Salix sp.*) and honeysuckle (*Lonicera periclymenum*).

Many of the hedgerows contain mature oak (*Quercus sp.*) standards, and rarely ash (*Fraxinus excelsior*). Most were intact along their length, but some contained gaps of up to 12m.

Ground flora was generally in keeping with the modified grassland habitats adjacent to the hedgerow bases, and grazing occurred all the way up to the field boundaries. Ivy (*Hedera helix*) was abundant within the hedgerows, lords-and-ladies (*Arum maculatum*) occurred frequently along with nettle (*Urtica dioica*), jack by the hedge (*Alliaria petiolata*) and cleavers (*Galium aparine*); greater stitchwort (*Rabiera holostea*) occurred occasionally; primrose (*Primula vulgaris*) occurred rarely along with dog's mercury (*Mercurialis perennis*) and bluebell (*Hyacinthoides non-scripta*) in close proximity to the ancient woodland bordering the Eastern Parcel.





Plate 4-5 Native hedgerow with the Site.

Native hedgerows are a priority habitat as listed on Section 7 of the Environment (Wales) Act.

4.1.3.1 Ditches (secondary code 50)

Some of the hedgerows were associated with ditches (secondary code 50) (Plate 4-6). Ditches on Site were generally in a poor condition, holding small amounts of water. Bankside species included grasses in keeping with the modified grassland habitats adjacent, as well as broadleaved plants such as great willowherb (*Epilobium hirsutum*), nettle, creeping buttercup, wavy bittercress (*Cardamine flexuosa*), lesser celandine, primrose, bluebell, meadowsweet (*Filipendula ulmaria*), hairy St John's wort (*Hypericum hirtum*), germander speedwell (*Veronica chamaedrys*), cleavers and bitter vetch (*Lathyrus linifolius*).

Within the channels horsetail (*Equisetum sp.*) was locally abundant, soft rush (*Juncus effusus*) occurred occasionally, and grey sedge (*Carex divulsa*) was also found. In wetter areas brooklime (*Veronica beccabunga*) and common reed (*Phragmites australis*) were locally abundant and watercress (*Rorippa nasturtium-aquaticum*) occurred occasionally.





Plate 4-6 Ditch Associated with Hedgerow within the Site.

4.1.4 Other Lowland Mixed Deciduous Woodland (w1f7)

Separating two of the northerly fields in the Western Parcel, over a silty, shallow stream, is a narrow area of lowland mixed deciduous woodland (Plate 4-7). Tree species within the woodland included frequent oak, hawthorn and ash. Hazel, holly and dog rose were also present occasionally in the understorey. Ground flora included abundant nettle and cleavers, frequent lesser celandine and ivy, occasional lords and ladies, broadleaved dock (*Rumex obtusifolius*) and jack by the hedge. Also, occurring rarely, was common vetch (*Vicia sativa*) and greater stitchwort. Ancient woodland indicator species occurred occasionally, such as bluebell and wood anemone (*Anemone nemorosa*), which were locally abundant where they did occur, and moschatel (*Adoxa moschatellina*) was found in a single small area. Some waste materials such as old fencing and plastic has been discarded within the woodland.





Plate 4-7 Other Lowland Mixed Deciduous Woodland within the Western Parcel.

The Eastern Parcel is bordered on its west boundary by narrow mixed deciduous woodland over a small brook or stream (Plate 4-8). Tree species include ash, oak, hawthorn, hazel and willow. Ground flora included lesser celandine and several ancient woodland indicator species such as wood anemone, primrose, woodruff (*Galium odoratum*), bluebell, wood speedwell (*Veronica montana*), dog's mercury, scaly male fern (*Dyopteris affinis agg.*), hart's tongue fern (*Asplenium scolopendrium*) and barren strawberry (*Potentilla sterilis*).



Plate 4-8 Other Lowland Deciduous Mixed Woodland within the Eastern Parcel.

'Lowland Mixed Deciduous Woodland' is a priority habitat as listed on Section 7 of the Environment (Wales) Act, the 'Other Lowland Deciduous Mixed Woodland' habitats recorded on Site are an example of this priority habitat.



4.1.5 Other Rivers and Streams (r2b)

The brook bordering the Eastern Parcel (Plate 4-9) was shallow with gradually sloping earth banks with a silty base, the stream is heavily shaded and little vegetation is present, although horsetail was found occasionally and brooklime rarely.



Plate 4-9 Brook /Stream within the Site.

The boundary stream present in the Western Parcel was slightly sinuous, suggesting that the water might flow at times but was found at the time of the 2025 survey as standing water; the stream continues beyond the boundary of the woodland, south and runs alongside the hedgerow here, becoming much more modified and ditch-like.

Like the stream in the Eastern Parcel, aquatic plants in the channel only occurred rarely and comprised mostly of brooklime and horsetail.

Both streams within the Site join further upstream within Coed Esgob Woodland, located to the north of Site, before joining the River Elwy / Afon Elwy which flows through the settlement of St Asaph, located to the north-west of the Site.

The streams within the Site fit the broad habitat description for 'Rivers and Streams' as listed on Section 7 of the Environment (Wales) Act and are therefore Priority Habitats.

4.1.6 Urban

4.1.6.1 Other Developed Land (u1b6) 839 track, 800 road

A concrete farm track forms the northern boundary of the Western Parcel (Plate 4-10).





Plate 4-10 Other Developed Land - Track within the Site.

Connecting the Solar Site to the substation in the north, a connection Cable Route is proposed and follows roads for its entire length. Plate 4-11 shows the Glascoed Road section of the Cable Route.



Plate 4-11 Other Developed Land – Glascoed Road.



4.1.6.2 Artificial Unvegetated – Unsealed Surface (u1c) 839 track

A further gravel/hardcore track (Plate 4-12) is found to the north of the Eastern Parcel.



Plate 4-12 Artificial Unvegetated - Unsealed Surface - Track within the Site.

4.1.6.3 Built Linear Features (u1e) 612 fence

Boundary fences are found across the Site, associated with hedgerows or lines of trees. To the northern boundary of the most north easterly field of the Eastern Parcel, a wire fence forms the boundary between the field and farm track.

4.1.7 Line of trees (w1, 33)

A line of trees (Plate 4-13) is present to the southern boundary of the Eastern Parcel. Next to it is a dry ditch on the opposing side to the Site boundary. Species included oak, ash and hawthorn.





Plate 4-13 Line of Trees within the Site.

4.1.8 Other Standing Water (r1g)

4.1.8.1 Ponds (priority habitat) (secondary code 40)

There are six ponds present within the Site boundary. Generally, ponds are shallow, utilised by cattle with poached banks (Plate 4-14), floating sweet grass (*Glyceria fluitans*) and pond weed (*Potamogeton natans*) were present in some the ponds along with duckweed in others.



Plate 4-14 Typical Pond within the Site.

One of these ponds (Plate 4-15) is very small/shallow and found to be dry during each Great Crested Newt (GCN) (*Triturus cristatus*) survey season (March – June 2022 and 2024).





Plate 4-15 Shallow Ephemeral Pond with the Site.

During surveys undertaken by SLR from 2022 onwards, three of the six ponds were found to support GCN; the ponds therefore qualify as Priority Habitat.

4.1.9 Species

The majority of the Solar Site supports modified grassland; protected or notable plant species are not usually associated with this habitat type, due to its typically high levels of nutrient enrichment, and ongoing management regime.

Bluebells were noted to occur occasionally within the understorey of hedgerows, especially where they adjoin ancient woodland. The survey in April 2025 found no bluebells within areas of hedgerow to be impacted by the scheme. Bluebells are protected under the Wildlife and Countryside Act 1981, Schedule 8 (Section 2) and are protected from uprooting or picking for the purpose of sale only. Grey sedge, watercress and bitter vetch were found during the habitat survey, the Cofnod data search lists these species as occurring on local rare plant registers (see Appendix A for further detail on relevant lists). These plants were all associated with ditches and bankside habitats on Site.

No non-native invasive species were recorded within the Site.



5.0 Discussion

Of the habitats described above, the following are considered priority habitats, as listed on Section 7 of the Environment (Wales) Act:

- Native Hedgerow;
- Other Lowland Mixed Woodland;
- Other Standing Water – Ponds; and
- Other Rivers and Streams

Additionally, there are several Ancient Woodland and Local Wildlife Sites adjacent to the Site boundary, which are of ecological importance, including:

- Pig-y-fran (Plantation on Ancient Woodland Site);
- Tyn-y-coed Rough (Restored Ancient Woodland Site);
- Ty'n-y-Coed Rough (Wildlife Sites for Denbighshire); and
- Glascoed (Wildlife Sites for Denbighshire).

The priority habitats, ancient woodlands and local wildlife sites are considered to be of local ecological importance.

Several species associated with ditches on Site are included on local rare plant registers, they are considered of local importance, as an integral part of the feature concerned.

Bluebells occur in woodland and hedgerows within the Solar Site and together with other ancient woodland indicator species are considered to be of local importance, again, as an integral part of the feature concerned (for example, as part of the hedgerow they occur along).

Individual mature trees and trees found within the boundary hedgerows have intrinsic ecological importance and are likely to support nesting birds and be used as a foraging resource for protected species such as bats. They are considered to be of local importance.

Much of the Solar Site however is made up of modified grassland with low species diversity used as pasture and with little to no ecological significance.



Appendix A Drawing C0002452_01 Site Location

Habitat Survey

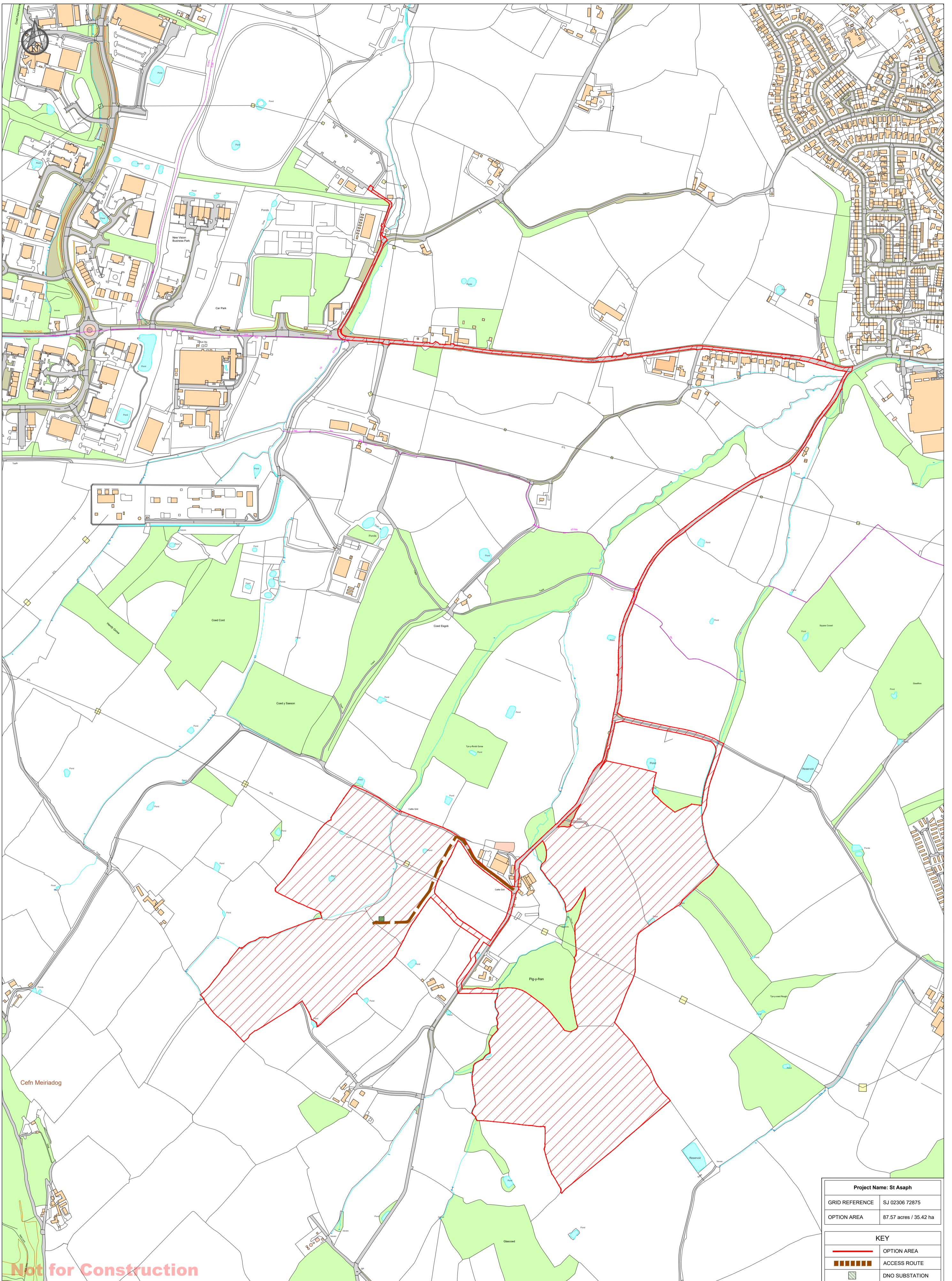
St Asaph Solar Farm

Anesco Limited

SLR Project No.: 406.065274.00001

25 April 2025





Not for Construction

Project Name: St Asaph	
GRID REFERENCE	SJ 02306 72875
OPTION AREA	87.57 acres / 35.42 ha
KEY	
	OPTION AREA
	ACCESS ROUTE
	DNO SUBSTATION

Installer Details
Anesco Ltd.
 The Green,
 Easter Park,
 Benyon Road,
 Reading,
 RG7 2PQ
 Tel: 0845 894 4444

Comments

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Revision	Description	Revised By	Date	Drawn By
A	Issued for comment	MS	20/10/2020	
B	Land reduced from the North and extended to the South	MS	05/03/2021	RD
C	Area of Land has been altered and the DNO substation moved	MS	04/05/2021	
D	Area of Land has been altered and the DNO substation moved	MS	12/05/2021	
E	Site area amended	JH	22/11/2023	
F	Red Line Boundary amended & access track added in the North	JH	12/12/2023	
G	Red Line Boundary amended	MS	10/06/2024	
H	Red Line Boundary amended	MS	13/11/2024	
J	Red Line Boundary amended	RD	26/03/2025	

Installation Address
**Cefnmeiriadog,
 St Asaph,
 Denbighshire,
 Wales,
 LL17 0HF**

Project
St Asaph

Title
Location Plan

Drawing No. **C0002452_01**

Rev. **J**

Sheet Size **A2**



Appendix B Drawing C0002452_02 Site Layout

Habitat Survey

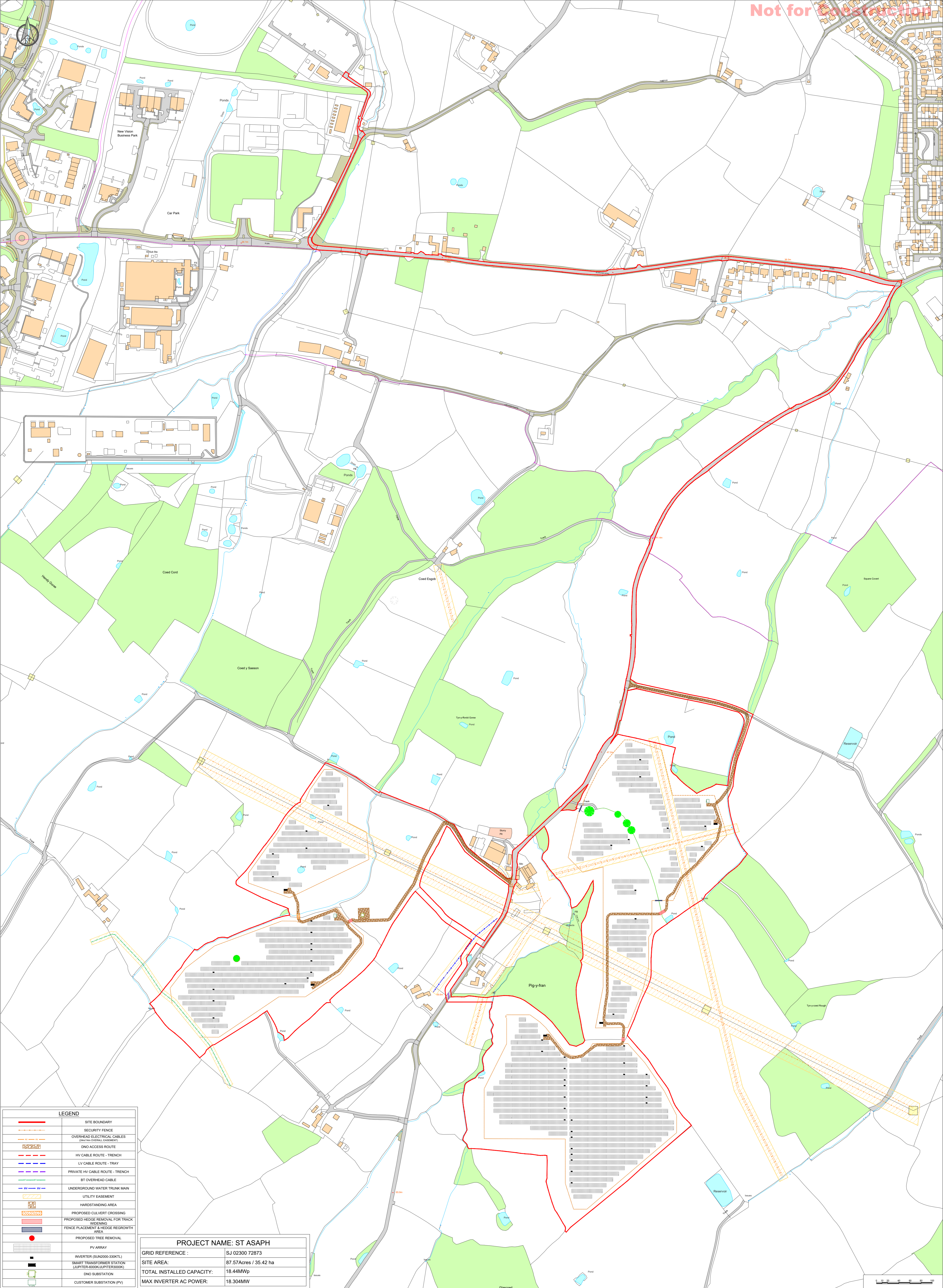
St Asaph Solar Farm

Anesco Limited

SLR Project No.: 406.065274.00001

25 April 2025





LEGEND	
	SITE BOUNDARY
	SECURITY FENCE
	OVERHEAD ELECTRICAL CABLES (SHOWS OVERALL EASEMENT)
	DNO ACCESS ROUTE
	HV CABLE ROUTE - TRENCH
	LV CABLE ROUTE - TRAY
	PRIVATE HV CABLE ROUTE - TRENCH
	BT OVERHEAD CABLE
	UNDERGROUND WATER TRUNK MAIN
	UTILITY EASEMENT
	HARDSTANDING AREA
	PROPOSED CULVERT CROSSING
	PROPOSED HEDGE REMOVAL FOR TRACK WEENING
	FENCE PLACEMENT & HEDGE REGROWTH AREA
	PROPOSED TREE REMOVAL
	PV ARRAY
	INVERTER (SUN2000-330KTL)
	SMART TRANSFORMER STATION (LUPITER-6000/LUPITER3000K)
	DNO SUBSTATION
	CUSTOMER SUBSTATION (PV)

PROJECT NAME: ST ASAPH	
GRID REFERENCE :	SJ 02300 72873
SITE AREA:	87.57 Acres / 35.42 ha
TOTAL INSTALLED CAPACITY:	18.44MWp
MAX INVERTER AC POWER:	18.304MW

Installer Details
 Anesco Ltd.
 The Green,
 Easter Park,
 Berrym Road,
 Reading,
 RG7 2PQ
 Tel: 0845 894 4444

Revision	Description	Revised By	Date	Revision	Description	Revised By	Date	Drawn By
A	Issued for comment	MS	19/11/2020	N	DNO Track Added	LD	28/11/2023	JH
B	Land reduced from the North and extended to the South	MS	05/03/2021	P	Red Line Boundary amended & access track added in the North	JH	19/12/2023	JH
C	Boundary Line Extended	MS	05/05/2021	Q	Redesign due to array relocation	JS	19/03/2024	JH
D	Boundary Line Extended and site maximised	MS	12/05/2021	R	Redesign	MS	01/08/2024	JH
E	Planning Site Layout	JH	10/11/2021	S	Access Altered	MS	20/09/2024	JH
F	Module Wattage Changed	MS	07/12/2021	T	Hedges added and panel locations amended	MS	11/11/2024	JH
G	Site resign to 21KTL & 60kV Modules	JH	02/03/2022	U	Inverters added	RD	20/01/2024	JH
H	Site redesigned due to tree shading implications	MS	18/08/2022	Y4	Topo and service searches added	RD	31/03/2025	JH
J	Red Line Boundary amended to include Private HV	JH	03/08/2022					
K	Site redesign	JH	15/05/2023					
L	Site redesign using new modules and new private HV cable	JH	08/07/2023					
M	Site area amended and module redesign	JH	22/11/2023					

Installation Address
 Cefnmeiriadog,
 St Asaph,
 Denbighshire,
 Wales,
 LL17 0HF

Project	St Asaph
Title	Site layout planning
Drawing No.	C0002452_02
Rev.	V4



Appendix C Figure 1 Baseline Habitats

Habitat Survey

St Asaph Solar Farm

Anesco Limited

SLR Project No.: 406.065274.00001

25 April 2025





LEGEND

- Site Boundary
- w1 - Broadleaved and Mixed Woodland

Primary Habitat Classification

- Urban - Built-up Areas and Gardens*
- u1e - Built Linear Feature
- Heathland and Shrub - Hedgerows*
- h2a - Hedgerow Priority Habitat
- Rivers and Lakes - Rivers and Streams*
- r2b - Other Rivers and Streams
- Grassland - Neutral Grassland*
- g3c - Other Neutral Grassland
- Grassland - Modified Grassland*
- g4 - Modified Grassland
- Rivers and Lakes - Standing Open Water and Canals*
- r1g - Other Standing Water
- Urban - Built-up Areas and Gardens*
- u1b6 - Other Developed Land
- u1c - Artificial Unvegetated, Unsealed Surface
- Woodland and Forest - Broadleaved Mixed and Yew Woodland*
- w1f7 - Other Lowland Mixed Deciduous Woodland

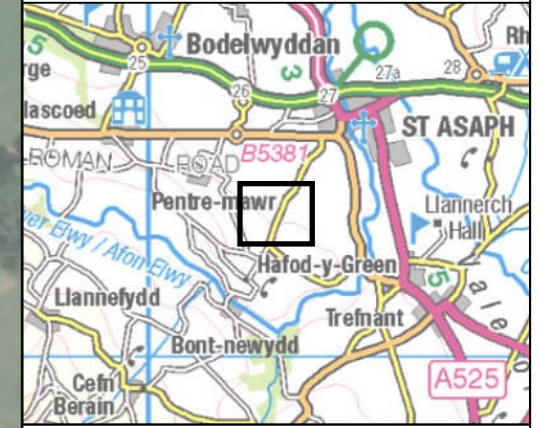
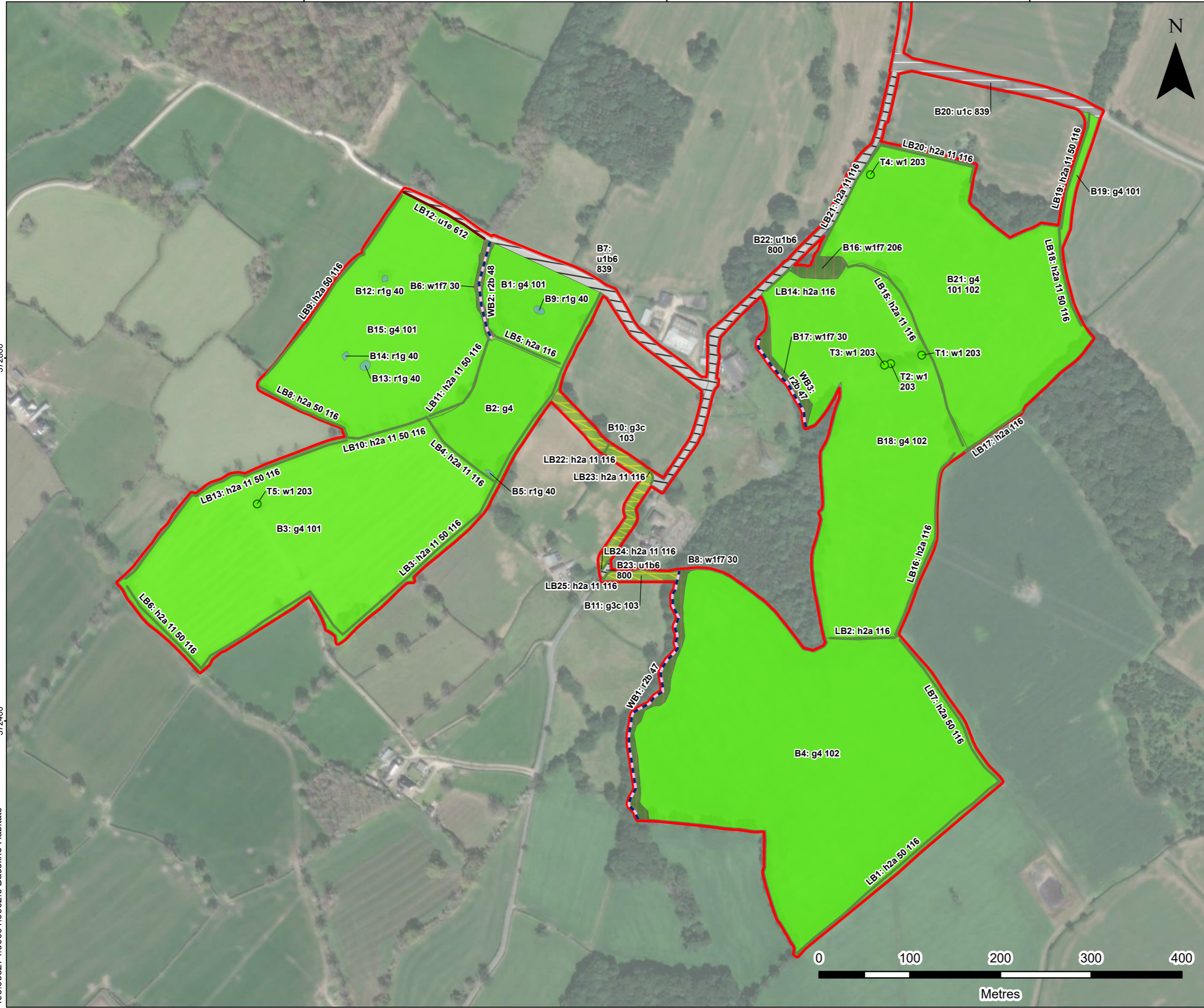
Secondary Codes:

11 - Hedgerows with trees	102 - Sheep grazed
30 - Semi-natural woodland	103 - Horse grazed
40 - Ponds (priority habitat)	116 - Failed hedgerow
47 - Freshwater -natural	203 - Mature tree
48 - Freshwater - heavily modified	206 - Felled
50 - Ditch	839 - Road
101 - Cattle grazed	839 - Track
	612 - Fence

372800

372400

406.065274.00001.0002.0 Baseline Habitats



ST ASAPH

406.065274.00001

BASELINE HABITATS

FIGURE 1

Scale 1:4,000 @ A3

Date APRIL 2025



Appendix D Locations of Non- Statutory Designated Sites

Habitat Survey

St Asaph Solar Farm

Anesco Limited

SLR Project No.: 406.065274.00001

25 April 2025





Viewing Mode
Confidential Public

Key
Species
Sites Filters

Show All Hide All Collapse Menu Options

- Historic Landscapes
 - Wild Ground Reserves
 - NEW RIGS
 - Wildlife Sites for Denbighshire
 - 1: D003 - Coed y Ddol/Coed y Fadir
 - 2: D031 - Mount Road Churchyard, St Asaph
 - 3: D032 - Coed Cord / Coed y Saeson
 - 4: D033 - Coed Fron and Eryl Hall Wood
 - 5: D034 - Ty'n-y-Coed Rough (2 areas)
 - 6: D035 - Bryn Meiriadog
 - 7: D036 - Chapel Wood/Coed Mawr
 - 8: D037 - Coed Kendrick
 - 9: D038 - Rickfield Wood/Coed Ddol Fawr/C...
 - 10: D040 - Glascoed (2 areas)
 - 11: D041 - Coed yr Accar (2 areas)
 - 12: D042 - Nany Meirchion field
 - Wildlife Sites for Conwy
 - SSSI Bats
-

Habitats
Documents



Viewing Mode

Confidential Public

Key

Species

Sites

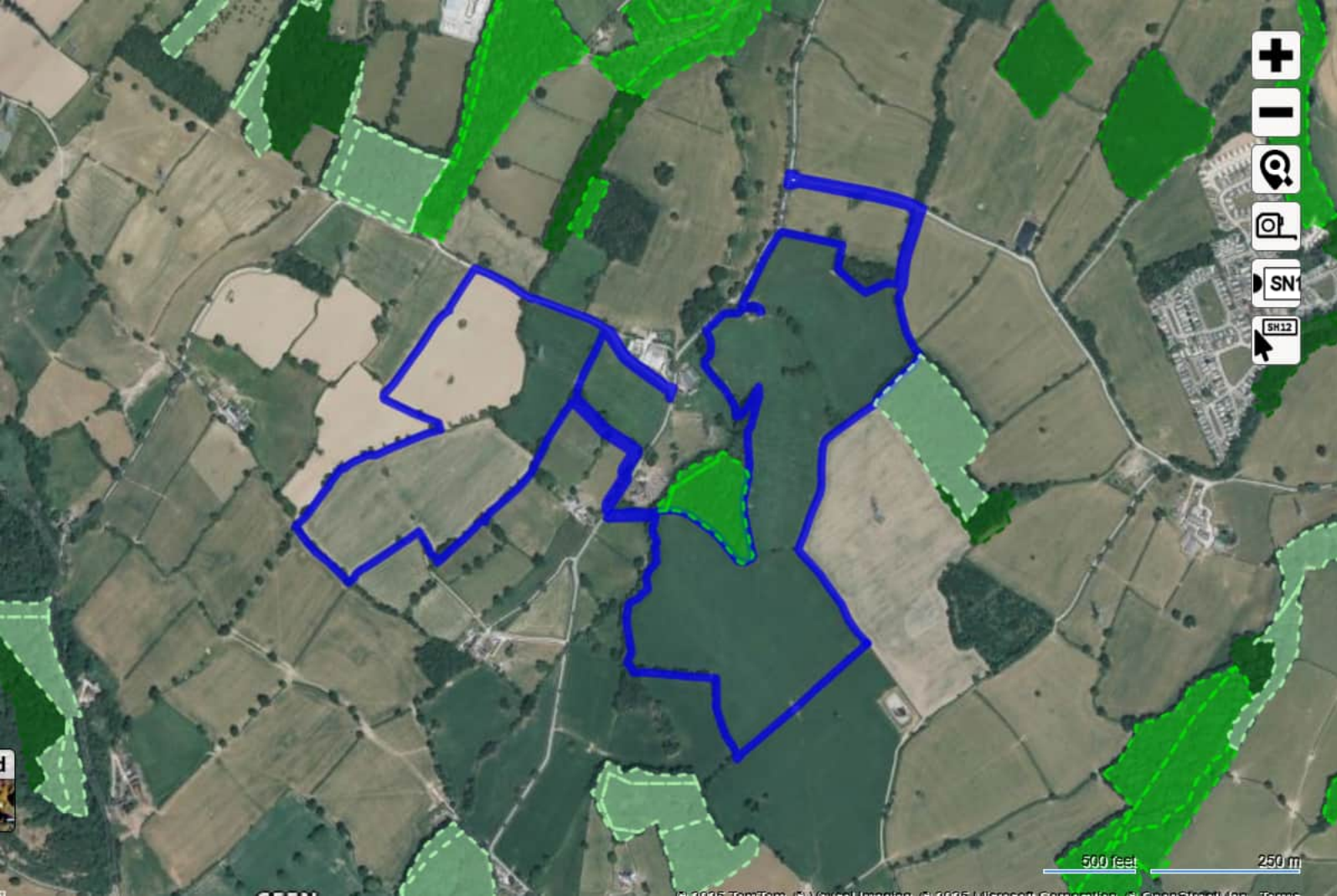
Show All Hide All Collapse Menu Options

- Sites of Special Scientific Interest
- Special Areas of Conservation
- Scheduled Ancient Monuments
- Listed Buildings
- Historic Landscapes
- Wild Ground Reserves
- Q 1: Glascoed
- Q 2: Gwynt-y-Mor
- NEW RIGS
- Wildlife Sites for Denbighshire
- Wildlife Sites for Conwy
- SSSI Bats

Habitats

Documents





Viewing Mode

Confidential Public

Key

- Search Location
- LERC Boundary
- Search Buffer (10000m)
- Search Buffer (2000m)

Species

Sites

Habitats

- Ancient Woodland
 - Ancient Semi Natural Woodland
 - Ancient Woodland Site of Unknown Category
 - Plantation on Ancient Woodland Site
 - Restored Ancient Woodland Site
- Phase 1 Habitat Survey
- Ancient Tree Inventory
- Priority Ecological Networks
- Section 7 Habitats of Principal Importance

Documents



Appendix E **Records of Notable Plant Species**

Habitat Survey

St Asaph Solar Farm

Anesco Limited

SLR Project No.: 406.065274.00001

25 April 2025

Notable plant species returned by COFNOD within 2km of the Solar Site, including those of Local Importance⁵:

Scientific Name	English Name	Distance (m)	Lists
<i>Persicaria amphibia</i>	Amphibious Bistort	11	LI-VP-48
<i>Campanula latifolia</i>	Giant Bellflower	294	LI-VP-48[LR], LI-VP-50[LNS]
<i>Polystichum aculeatum</i>	Hard Shield-fern	294	LI-VP-48, LI-VP-49[LS]
<i>Carduus nutans</i>	Musk Thistle	300	LI-VP-48[LS], LI-VP-49[LS]
<i>Polystichum setiferum</i>	Soft Shield-fern	300	LI-VP-48
<i>Silene vulgaris</i>	Bladder Campion	300	WRL-VP[NT]
<i>Smyrniolum olusatrum</i>	Alexanders	300	GBNNSIP, LI-VP-48[LS]
<i>Kickxia elatine</i>	Sharp-leaved Fluellen	367	GBNNSIP, LI-VP-48[LR], LI-VP-49[LR], LI-VP-50[LS], LI-VP-52[LS]
<i>Blackstonia perfoliata</i>	Yellow-wort	394	LI-VP-48[LR], LI-VP-49[LS], LI-VP-52[LS]
<i>Calamagrostis epigejos</i>	Wood Small-reed	394	LI-VP-48[LR], LI-VP-49[LR], LI-VP-50[LR], LI-VP-51[LR]
<i>Epilobium parviflorum</i>	Hoary Willowherb	394	LI-VP-48
<i>Glyceria notata</i>	Plicate Sweet-grass	394	LI-VP-48[LR], LI-VP-49[LS], LI-VP-50[LNS]
<i>Jacobaea erucifolia</i>	Hoary Ragwort	394	LI-VP-48[LR], LI-VP-49[LS], LI-VP-52[LS]
<i>Juniperus communis subsp. communis</i>	Common Juniper	394	BAP, LI-VP-48[LNS], LI-VP-50[LR], LI-VP-51, LI-VP-52[LR], S7
<i>Sparganium emersum</i>	Unbranched Bur-reed	394	LI-VP-49[LS], LI-VP-51[LR]
<i>Acer campestre</i>	Field Maple	406	LI-VP-48[LS], LI-VP-49[LS]
<i>Bromopsis ramosa</i>	Hairy-brome	406	LI-VP-48[LS]
<i>Elymus caninus</i>	Bearded Couch	406	LI-VP-52[LR]
<i>Pinus sylvestris</i>	Scots Pine	406	RDB-NS
<i>Hypericum hirsutum</i>	Hairy St John's-wort	426	LI-VP-48[LR], LI-VP-49[LR], LI-VP-51[LS], LI-VP-52[LR]
<i>Rorippa microphylla</i>	Narrow-fruited Water-cress	426	LI-VP-50[LS], LI-VP-51[LS]
<i>Ulmus procera</i>	English Elm	426	LI-VP-48[LS]
<i>Carex pseudocyperus</i>	Cyperus Sedge	431	LI-VP-48[LR], LI-VP-49[LR], LI-VP-51[LS], LI-VP-52[LS], WRL-VP[NT]
<i>Sedum telephium</i>	Orpine	580	LI-VP-51[LS]
<i>Genista tinctoria</i>	Dyer's Greenweed	622	LI-VP-49[LR], LI-VP-50[LR], LI-VP-51[LR], LI-VP-52[PX]
<i>Serratula tinctoria</i>	Saw-wort	646	LI-VP-48, LI-VP-50[LR], LI-VP-51[LR]
<i>Veronica scutellata</i>	Marsh Speedwell	646	LI-VP-51
<i>Galium mollugo subsp. erectum</i>	Upright Hedge Bedstraw	658	LI-VP-48[LS]
<i>Arenaria serpyllifolia</i>	Thyme-leaved Sandwort	736	LI-VP-50[LNS]
<i>Helianthemum nummularium</i>	Common Rock-rose	736	LI-VP-48[LR], LI-VP-49[LS], LI-VP-50[LNS]

⁵ As defined within the Denbighshire (VC50) Country Rare Plants Register



Scientific Name	English Name	Distance (m)	Lists
<i>Helictotrichon pratense</i>	Meadow Oat-grass	736	LI-VP-49[LS], LI-VP-50[LS], LI-VP-51[LS], LI-VP-52[LR]
<i>Primula veris</i>	Cowslip	736	LI-VP-48[LS]
<i>Stellaria neglecta</i>	Greater Chickweed	736	LI-VP-48[LS], LI-VP-51[LR]
<i>Tragopogon pratensis</i>	Goat's-beard	736	LI-VP-48[LS]
<i>Atriplex littoralis</i>	Grass-leaved Orache	742	LI-VP-48[LR], LI-VP-49[LR], LI-VP-50[LNS]
<i>Orobanche hederaceae</i>	Ivy Broomrape	742	LI-VP-48[LR], LI-VP-52[LS]
<i>Aethusa cynapium</i>	Fool's Parsley	754	LI-VP-48[LR]
<i>Barbarea vulgaris</i>	Winter-cress	754	LI-VP-48[LS]
<i>Carex spicata</i>	Spiked Sedge	754	LI-VP-48[LR], LI-VP-49[LS], LI-VP-52[PX]
<i>Cruciata laevipes</i>	Crosswort	754	LI-VP-49[LS], LI-VP-52[LS]
<i>Lepidium heterophyllum</i>	Smith's Pepperwort	754	LI-VP-51[LS]
<i>Populus tremula</i>	Aspen	754	LI-VP-52[LS]
<i>Reseda luteola</i>	Weld	754	GBNNSIP, LI-VP-48[LS]
<i>Saponaria officinalis</i>	Soapwort	754	GBNNSIP, LI-VP-50[LS], LI-VP-51[LS]
<i>Inula conyzae</i>	Ploughman's-spikenard	792	LI-VP-48[LR], LI-VP-49[LS]
<i>Juncus inflexus</i>	Hard Rush	799	LI-VP-48[LR]
<i>Matricaria chamomilla</i>	Scented Mayweed	799	GBNNSIP, LI-VP-48[LS]
<i>Papaver dubium</i>	Long Smooth-headed Poppy	799	GBNNSIP, LI-VP-52
<i>Pulicaria dysenterica</i>	Common Fleabane	799	LI-VP-48[LS]
<i>Rorippa nasturtium-aquaticum</i>	Water-cress	799	LI-VP-48
<i>Sagina apetala subsp. apetala</i>	-	799	LI-VP-51[LR]
<i>Salix cinerea subsp. oleifolia</i>	Rusty Willow	799	LI-VP-52
<i>Tripleurospermum inodorum</i>	Scentless Mayweed	799	GBNNSIP, LI-VP-48[LS]
<i>Populus nigra subsp. betulifolia</i>	Black-poplar	834	GBNNSIP, LI-VP-48[LS], LI-VP-52[LR]
<i>Hypericum montanum</i>	Pale St John's-wort	844	LI-VP-49[LS], LI-VP-50[LNS], LI-VP-51[LS], LI-VP-52[LS], RL-NT
<i>Sherardia arvensis</i>	Field Madder	873	LI-VP-48[LS]
<i>Urtica urens</i>	Small Nettle	873	GBNNSIP, LI-VP-48[LS]
<i>Anacamptis morio</i>	Green-winged Orchid	884	CITES-B, LI-VP-48[LR], LI-VP-49[LS], LI-VP-50[LS], LI-VP-51[LS], LI-VP-52[LS], RL-NT
<i>Primula veris x vulgaris = P. x polyantha</i>	False Oxlip	893	LI-VP-49[LS], LI-VP-51
<i>Cerastium diffusum</i>	Sea Mouse-ear	904	LI-VP-50[LNS]
<i>Ctenidium molluscum</i>	Chalk Comb-moss	949	WRL-BR[DD]
<i>Verbascum nigrum</i>	Dark Mullein	954	WRL-VP[NT]
<i>Lemna trisulca</i>	Ivy-leaved Duckweed	956	LI-VP-49[LR]



Scientific Name	English Name	Distance (m)	Lists
<i>Hyacinthoides non-scripta</i>	Bluebell	978	WCA8
<i>Ranunculus sceleratus</i>	Celery-leaved Buttercup	978	LI-VP-48[LS]
<i>Populus nigra</i>	Black-poplar	984	GBNNSIP, LI-VP-52
<i>Viburnum opulus</i>	Guelder-rose	985	LI-VP-48, LI-VP-52[LS]
<i>Geranium columbinum</i>	Long-stalked Crane's-bill	986	LI-VP-48[LR], LI-VP-49[LS], LI-VP-50[LNS], LI-VP-51[LR]
<i>Sagittaria sagittifolia</i>	Arrowhead	996	LI-VP-50[LR], LI-VP-51[LS], LI-VP-52[PX], WRL-VP[VU]
<i>Rumex crispus x obtusifolius = R. x pratensis</i>	-	1007	LI-VP-48[LS], LI-VP-49[LR]
<i>Anomodon viticulosus</i>	Rambling Tail-moss	1026	LI-BR-48[LR]
<i>Porella platyphylla</i>	Wall Scalewort	1026	LI-BR-49[LR]
<i>Arabis hirsuta</i>	Hairy Rock-cress	1030	LI-VP-48[LR], LI-VP-50[LNS], LI-VP-51[LR], LI-VP-52[LS]
<i>Arenaria serpyllifolia subsp. serpyllifolia</i>	Thyme-leaved Sandwort	1030	LI-VP-50[LNS]
<i>Cerastium semidecandrum</i>	Little Mouse-ear	1030	LI-VP-50[LNS]
<i>Clinopodium vulgare</i>	Wild Basil	1030	LI-VP-48[LS]
<i>Daphne laureola</i>	Spurge-laurel	1030	LI-VP-49[LS], LI-VP-50[LNS]
<i>Dipsacus fullonum</i>	Wild Teasel	1030	LI-VP-48[LR]
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	1030	LI-VP-48[LS], LI-VP-49[LS], LI-VP-52[LS]
<i>Equisetum telmateia</i>	Great Horsetail	1030	LI-VP-48[LS]
<i>Euphorbia lathyris</i>	Caper Spurge	1030	CITES-B, GBNNSIP, LI-VP-49[LS]
<i>Geranium sanguineum</i>	Bloody Crane's-bill	1030	LI-VP-48[LR], LI-VP-50[LS], LI-VP-51[LS]
<i>Helleborus foetidus</i>	Stinking Hellebore	1030	LI-VP-51[LS], RDB-NS
<i>Lathyrus linifolius</i>	Bitter-vetch	1030	LI-VP-52[LS]
<i>Myosotis ramosissima</i>	Early Forget-me-not	1030	LI-VP-48[LS]
<i>Orchis mascula</i>	Early-purple Orchid	1030	LI-VP-48[LS]
<i>Rubia peregrina</i>	Wild Madder	1030	LI-VP-48[LR], LI-VP-51[LS], LI-VP-52[LS]
<i>Scabiosa columbaria</i>	Small Scabious	1030	LI-VP-49[LS], LI-VP-50[LNS], LI-VP-51[LR], LI-VP-52[EX], WRL-VP[VU]
<i>Sorbus aria agg.</i>	Common Whitebeam	1030	LI-VP-48[LR]
<i>Stellaria pallida</i>	Lesser Chickweed	1030	LI-VP-48[LS]
<i>Veronica spicata</i>	Spiked Speedwell	1030	LI-VP-48, LI-VP-49[LS], LI-VP-50[LR], LI-VP-51, WCA8
<i>Knautia arvensis</i>	Field Scabious	1042	LI-VP-48[LS]
<i>Hygroamblystegium fluviatile</i>	Brook-side Feather-moss	1047	LI-BR-52[EX]
<i>Ranunculus penicillatus subsp. pseudofluitans</i>	-	1047	LI-VP-48[LR], LI-VP-49[LR], LI-VP-51[LS]
<i>Silaum silaus</i>	Pepper-saxifrage	1093	LI-VP-50[LS], LI-VP-51[LS]



Scientific Name	English Name	Distance (m)	Lists
<i>Rorippa sylvestris</i>	Creeping Yellow-cress	1095	LI-VP-48[LS], LI-VP-49[LR], LI-VP-51[LS], LI-VP-52[LR]
<i>Viola arvensis</i>	Field Pansy	1095	GBNNSIP, LI-VP-48[LS]
<i>Milium effusum</i>	Wood Millet	1098	LI-VP-48[LS], LI-VP-49[LS], LI-VP-52[LR]
<i>Lathraea squamaria</i>	Toothwort	1104	LI-VP-48[LR], LI-VP-49[LR], LI-VP-51[LS]
<i>Tanacetum parthenium</i>	Feverfew	1106	GBNNSIP, LI-VP-48
<i>Verbena officinalis</i>	Vervain	1106	GBNNSIP, LI-VP-49[LS], LI-VP-50[LR], LI-VP-51, LI-VP-52[LR]
<i>Bryum donianum</i>	Don's Thread-moss	1109	LI-BR-49[LR], LI-BR-50[LR], LI-BR-52[LR]
<i>Carex pendula</i>	Pendulous Sedge	1109	LI-VP-48
<i>Mnium marginatum</i> var. <i>marginatum</i>	-	1109	LI-BR-48[LR], LI-BR-49[LR], LI-BR-50[LR], LI-BR-52[EX]
<i>Oxyrrhynchium schleicheri</i>	Twist-tip Feather-moss	1109	LI-BR-50[LR]
<i>Trisetum flavescens</i>	Yellow Oat-grass	1109	LI-VP-48[LS]
<i>Prunus padus</i>	Bird Cherry	1112	LI-VP-49[LS]
<i>Nitella flexilis</i>	-	1130	LI-VP-48[LS], WRL-SW[DD]
<i>Petasites hybridus</i>	Butterbur	1135	LI-VP-48[LS]
<i>Sesleria caerulea</i>	Blue Moor-grass	1145	RDB-NS, WRL-VP[RE]
<i>Plagiochila britannica</i>	British Featherwort	1146	LI-BR-49[LR], LI-BR-50[LR], LI-BR-52[LR]
<i>Persicaria lapathifolia</i>	Pale Persicaria	1161	LI-VP-48[LS]
<i>Carex divulsa</i> subsp. <i>divulsa</i>	Grey Sedge	1163	LI-VP-48[LE], LI-VP-49[LR]
<i>Geranium pusillum</i>	Small-flowered Crane's-bill	1163	LI-VP-48[LR], LI-VP-49[LS], LI-VP-52[LS]
<i>Henediella stanfordensis</i>	Stanford Screw-moss	1279	LI-BR-50[LR]
<i>Lathyrus nissolia</i>	Grass Vetchling	1293	LI-VP-49[LR], LI-VP-51[LS]
<i>Marchesinia mackaii</i>	MacKay's Pouncewort	1297	LI-BR-51[LR]
<i>Arctium nemorosum</i>	Wood Burdock	1372	LI-VP-51[LS]
<i>Avena fatua</i>	Wild-oat	1372	GBNNSIP, LI-VP-49[LR]
<i>Fumaria bastardii</i>	Tall Ramping-fumitory	1372	LI-VP-48[LS]
<i>Salix viminalis</i> x <i>caprea</i> = <i>S. x smithiana</i>	Broad-leaved Osier	1372	GBNNSIP, LI-VP-49[LR]
<i>Sinapis arvensis</i>	Charlock	1372	GBNNSIP, WRL-VP[VU]
<i>Buxus sempervirens</i>	Box	1383	RDB-NR, RL-DD
<i>Centaurea scabiosa</i>	Greater Knapweed	1383	LI-VP-48[LR], LI-VP-49[LR], LI-VP-50[LNS]
<i>Vinca minor</i>	Lesser Periwinkle	1383	GBNNSIP, INNS-W, LI-VP-49[LS], LI-VP-51
<i>Ophrys apifera</i>	Bee Orchid	1384	CITES-B, LI-VP-48[LR], LI-VP-49[LS]
<i>Schistidium rivulare</i>	River Grimmia	1396	LI-BR-52[LR]
<i>Mesoptychia badensis</i>	Scarce Notchwort	1408	LI-BR-48[EX], LI-BR-49[LR], LI-BR-50[LR], LI-BR-51[LR], LI-BR-52[LR]
<i>Saxifraga granulata</i>	Meadow Saxifrage	1408	LI-VP-48[LR], LI-VP-49[LR], LI-VP-50[LS], LI-VP-52[LS]



Scientific Name	English Name	Distance (m)	Lists
<i>Grimmia orbicularis</i>	Round-fruited Grimmia	1426	LI-BR-48[EX], LI-BR-49[LR], LI-BR-50[LR], LI-BR-52[LR]
<i>Tortella squarrosa</i>	Side-fruited Crisp- moss	1426	LI-BR-49[LR], LI-BR-50[LR], LI-BR-51[LR]
<i>Salix cinerea subsp. cinerea</i>	Grey Willow	1436	LI-VP-52
<i>Carlina vulgaris</i>	Carline Thistle	1439	LI-VP-50[LNS]
<i>Plasteurhynchium striatulum</i>	Lesser Striated Feather-moss	1439	LI-BR-49[LR], LI-BR-50[LR], LI-BR-52[LR]
<i>Allium vineale</i>	Wild Onion	1444	LI-VP-48[LR], LI-VP-50[LNS]
<i>Veronica spicata subsp. hybrida</i>	Western Spiked Speedwell	1444	LI-VP-48[LR], LI-VP-49[LS], LI-VP-50[LR], LI-VP-51, RDB-NS, WCA8
<i>Butomus umbellatus</i>	Flowering-rush	1449	LI-VP-49[LE], LI-VP-50[LS], LI-VP-51[LR], WRL-VP[VU]
<i>Ranunculus auricomus</i>	Goldilocks Buttercup	1477	LI-VP-48[LR], LI-VP-49[LS], LI-VP-52[LS]
<i>Narcissus pseudonarcissus</i>	Daffodil	1508	LI-VP-51[LS]
<i>Onopordum acanthium</i>	Cotton Thistle	1527	GBNNSIP, LI-VP-49[LR], LI-VP-50[LR], LI- VP-51[LS]
<i>Galium mollugo</i>	Hedge Bedstraw	1530	LI-VP-48[LS]
<i>Anagallis tenella</i>	Bog Pimpernel	1556	LI-VP-51[LS]
<i>Arctium lappa</i>	Greater Burdock	1556	GBNNSIP, LI-VP-50[LNS], LI-VP-51[LS]
<i>Callitriche stagnalis</i>	Common Water- starwort	1556	LI-VP-51
<i>Centaurea cyanus</i>	Cornflower	1556	BAP, GBNNSIP, LI-VP-48[LE], LI-VP- 49[LR], LI-VP-50[LR], LI-VP-51[LR], S7, WRL-VP[CR]
<i>Epilobium tetragonum</i>	Square-stalked Willowherb	1556	LI-VP-48[LR], LI-VP-49[LR], LI-VP-50[LNS]
<i>Lithospermum officinale</i>	Common Gromwell	1556	LI-VP-49[LR], LI-VP-50[LS], LI-VP-51[LR]
<i>Medicago arabica</i>	Spotted Medick	1556	LI-VP-48[LE], LI-VP-49[LS], LI-VP-51[LR], LI-VP-52[LS]
<i>Melilotus altissimus</i>	Tall Melilot	1556	GBNNSIP, LI-VP-49[LR]
<i>Mentha arvensis</i>	Corn Mint	1556	LI-VP-51[LR], WRL-VP[VU]
<i>Persicaria hydropiper</i>	Water-pepper	1556	LI-VP-51[LS]
<i>Physcia tenella</i>	-	1556	WRL-LI[DD]
<i>Ruscus aculeatus</i>	Butcher's-broom	1556	HDir5, WRL-VP[VU]
<i>Spergularia marina</i>	Lesser Sea-spurrey	1556	LI-VP-49[LS]
<i>Stachys sylvatica x palustris = S. x ambigua</i>	Hybrid Woundwort	1556	LI-VP-48[LS], LI-VP-49[LS], LI-VP-51
<i>Tanacetum vulgare</i>	Tansy	1556	LI-VP-48[LS]
<i>Vicia sylvatica</i>	Wood Vetch	1556	LI-VP-49[LR], LI-VP-52[PX]
<i>Vicia tetrasperma</i>	Smooth Tare	1556	LI-VP-48[LS], LI-VP-49[LR], LI-VP-51, LI- VP-52[LS]
<i>Xanthoria ucrainica</i>	-	1556	RDB-NS



Scientific Name	English Name	Distance (m)	Lists
<i>Potentilla tabernaemontani</i>	Spring Cinquefoil	1604	LI-VP-49[LS], LI-VP-50[LS], LI-VP-51[LR], LI-VP-52[LR], RDB-NS
<i>Hypericum perforatum x maculatum = H. x desetangsii</i>	Des Etangs' St John's-wort	1605	LI-VP-48[LS], LI-VP-49[LR], LI-VP-51
<i>Lysimachia nummularia</i>	Creeping-Jenny	1605	LI-VP-48, LI-VP-49[LS]
<i>Malva arborea</i>	Tree-mallow	1605	LI-VP-50[LS], LI-VP-51[LR]
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	1617	LI-VP-48
<i>Sorbus torminalis</i>	Wild Service-tree	1617	LI-VP-48[LR], LI-VP-49[LR], LI-VP-50[LS], LI-VP-51[LR]
<i>Populus nigra</i>	Black-poplar	1619	GBNNSIP, LI-VP-52
<i>Entosthodon pulchellus</i>	Pretty Cord-moss	1637	BAP, LI-BR-49[LR], LI-BR-51[LR], LI-BR-52[LR], RDB-NR, RL-NT, S7
<i>Bryum canariense</i>	Canary Thread-moss	1641	LI-BR-49[LR], LI-BR-50[LR], LI-BR-52[LR]
<i>Euphorbia amygdaloides</i>	Wood Spurge	1641	CITES-B, LI-VP-48, LI-VP-50[LNS], LI-VP-51
<i>Hypericum humifusum</i>	Trailing St John's-wort	1641	LI-VP-51[LR]
<i>Plantago media</i>	Hoary Plantain	1641	LI-VP-48[LR], LI-VP-49[LR], LI-VP-52[LR]
<i>Taxiphyllum wissgrillii</i>	Depressed Feather-moss	1641	LI-BR-48[LR], LI-BR-49[LR], LI-BR-52[LR]
<i>Thuidium delicatulum</i>	Delicate Tamarisk-moss	1641	LI-BR-52[LR]
<i>Tilia cordata</i>	Small-leaved Lime	1641	LI-VP-48, LI-VP-49[LR], LI-VP-51[LR]
<i>Weissia controversa var. crispata</i>	-	1652	LI-BR-49[LR], LI-BR-50[LR], LI-BR-52[LR]
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	1664	LI-VP-48[LS], LI-VP-50[LNS]
<i>Helictotrichon pubescens</i>	Downy Oat-grass	1665	LI-VP-50[LNS]
<i>Koeleria macrantha</i>	Crested Hair-grass	1665	LI-VP-48[LR], LI-VP-50[LS]
<i>Scleropodium touretii</i>	Glass-wort Feather-moss	1672	LI-BR-48[LR], LI-BR-50[LR], LI-BR-51[LR]
<i>Carex divulsa subsp. leersii</i>	Many-leaved Sedge	1676	LI-VP-49[LS], LI-VP-50[LS]
<i>Chenopodium ficifolium</i>	Fig-leaved Goosefoot	1676	GBNNSIP, LI-VP-49[LR]
<i>Orthotrichum rivulare</i>	River Bristle-moss	1676	LI-BR-49[LR]
<i>Sedum anglicum</i>	English Stonecrop	1680	LI-VP-51[LS]
<i>Hippuris vulgaris</i>	Mare's-tail	1699	LI-VP-48[LS], LI-VP-49[LR], LI-VP-50[LR], LI-VP-51[LS], LI-VP-52[LS], WRL-VP[NT]
<i>Polypodium cambricum</i>	Southern Polypody	1712	LI-VP-48[LR], LI-VP-49[LS], LI-VP-50[LS], LI-VP-51[LR], LI-VP-52[LS]
<i>Hygroamblystegium tenax</i>	Fountain Feather-moss	1726	LI-BR-49[LR], LI-BR-52[LR]
<i>Rhamnus cathartica</i>	Buckthorn	1765	LI-VP-51[LS]



Scientific Name	English Name	Distance (m)	Lists
<i>Neottia ovata</i>	Common Twayblade	1793	LI-VP-48[LS]
<i>Persicaria bistorta</i>	Common Bistort	1793	LI-VP-48[LR], LI-VP-49[LR], LI-VP-50[LNS], LI-VP-51[LS]
<i>Ficaria verna</i> subsp. <i>verna</i>	-	1832	LI-VP-49[LS]
<i>Vicia bithynica</i>	Bithynian Vetch	1835	LI-VP-49[LE], LI-VP-50[LR], LI-VP-51, RDB-NS, RL-VU, WRL-VP[EN]
<i>Sison amomum</i>	Stone Parsley	1900	LI-VP-49[LS], LI-VP-51[LR]
<i>Echium vulgare</i>	Viper's-bugloss	1941	LI-VP-48[LS], LI-VP-49[LS], LI-VP-50[LNS], LI-VP-51[LS], LI-VP-52[LS]
<i>Carex strigosa</i>	Thin-spiked Wood-sedge	1967	LI-VP-50[LS], LI-VP-51[LR]
<i>Cystopteris fragilis</i>	Brittle Bladder-fern	1967	LI-VP-48[LS], LI-VP-50[LNS], LI-VP-51[LS], LI-VP-52[PX]
<i>Hordeum secalinum</i>	Meadow Barley	2025	LI-VP-49[LS], LI-VP-51[LS]
<i>Bryum violaceum</i>	Pill Bryum	2160	LI-BR-48[LR], LI-BR-49[LR], LI-BR-50[LR]
<i>Physcomitrium patens</i>	Spreading Earth-moss	2160	LI-BR-48[LR], LI-BR-50[LR], LI-BR-51[LR]
<i>Rosa rubiginosa</i>	Sweet-briar	2160	LI-VP-49[LS], LI-VP-50[LR]
<i>Salix alba</i>	White Willow	2160	GBNNSIP, LI-VP-49[LR]
<i>Callitriche platycarpa</i>	Various-leaved Water-starwort	2212	LI-VP-48[LS], LI-VP-49[LS], LI-VP-50[LR], LI-VP-51[LR], LI-VP-52[LR]
<i>Cichorium intybus</i>	Chicory	2212	GBNNSIP, LI-VP-49[LR], LI-VP-50[LNS], LI-VP-51[LS]
<i>Nuphar lutea</i>	Yellow Water-lily	2212	LI-VP-49[LR], LI-VP-51[LS]
<i>Sparganium natans</i>	Least Bur-reed	2212	LI-VP-49[LR], LI-VP-52[LS]
<i>Meconopsis cambrica</i>	Welsh Poppy	2296	LI-VP-48[LS], LI-VP-49[LS], RDB-NS
<i>Ranunculus penicillatus</i>	Stream Water-crowfoot	2296	LI-VP-48[LR], LI-VP-49[LR], LI-VP-51[LS], LI-VP-52
<i>Spergula arvensis</i>	Corn Spurrey	2296	LI-VP-48[LNS], LI-VP-49[NLS], RL-VU, WRL-VP[NT]
<i>Bromus racemosus</i>	Smooth Brome	2369	LI-VP-49[LR], LI-VP-50[LS], LI-VP-51[LR], LI-VP-52[LR]
<i>Silene latifolia</i>	White Campion	2369	GBNNSIP, LI-VP-48[LS]
<i>Salix cinerea</i> x <i>aurita</i> = <i>S. x multinervis</i>	-	2396	LI-VP-51
<i>Trifolium medium</i>	Zigzag Clover	2396	LI-VP-48[LS]
<i>Brassica nigra</i>	Black Mustard	2498	LI-VP-48[LR], LI-VP-50[LNS]
<i>Convolvulus arvensis</i>	Field Bindweed	2498	LI-VP-48
<i>Vulpia myuros</i>	Rat's-tail Fescue	2498	GBNNSIP, LI-VP-49[LS]
<i>Raphanus raphanistrum</i>	Radish	2588	LI-VP-49
<i>Salix caprea</i> x <i>cinerea</i> = <i>S. x reichardtii</i>	-	2588	LI-VP-52[LS]

***Abbreviations in table**

BAP: UK: Biodiversity Action Plan Priority Species

CITES-B: Convention on International Trade in Endangered Species, Annex B - Species that may become extinct unless trade is closely controlled

GBNNSIP: Great Britain Non-native Species Inventory Portal Checklist of Non-native Species



LI-BR-48: Bryophyte Rarity List for Vice-County 48: Merionethshire **[EX]** Locally extinct, **[LR]** Locally rare.
LI-BR-49: Bryophyte Rarity List for Vice-County 49: Caernarvonshire **[LR]** Locally rare
LI-BR-50: Bryophyte Rarity List for Vice-County 50: Denbighshire **[LR]** Locally rare
LI-BR-51: Bryophyte Rarity List for Vice-County 51: Flintshire **[LR]** Locally rare
LI-BR-52: Bryophyte Rarity List for Vice-County 52: Anglesey **[LR]** Locally rare **[LE]** Locally extinct
LI-VP-48: Rare Plant Register for Vice-County 48: Merionethshire **[LNS]** Locally Not Scarce **[LR]** Locally Rare **[LS]** Locally Scarce **[LE]** Locally extinct
LI-VP-49: Rare Plant Register for Vice-County 49: Caernarvonshire **[LE]** Locally Extinct **[LR]** Locally Rare **[LS]** Locally Scarce **[NLS]** (Not Locally Scarce)
LI-VP-50: Rare Plant Register for Vice-County 50: Denbighshire **[LNS]** Locally near scarce **[LR]** Locally Rare **[LS]** Locally Scarce
LI-VP-51: Rare Plant Register for Vice-County 51: Flintshire **[LR]** Locally Rare **[LS]** Locally Scarce
LI-VP-52: Rare Plant Register for Vice-County 52: Anglesey **[EX]** Extinct **[LR]** Locally Rare **[LS]** Locally Scarce **[PX]** Possibly or Probably Extinct
RDB: Red Data Book listing (not based on IUCN guidelines) – **N** Notable **NR** Nationally rare **NS** Nationally Scarce
RL-VU: IUCN Red List of Threatened Species – **VU** Vulnerable **DD** Data Deficient **EN** Endangered **NT** Near Threatened **PX** Possibly Extinct
WCA8: Wildlife & Countryside Act 1981 Schedule 8 - Plants which are protected
WRL-BR[DD]: Bryophyte Red Data List for Wales (Data Deficient)
WRL-LI[DD]: Lichen Red Data List for Wales (Data Deficient)
WRL-SW[DD]: A Red List of Stoneworts in Wales (Data Deficient)
WRL-VP: Vascular Plant Red Data List for Wales **[CR]** Critically Endangered **[EN]** Endangered **[NT]** Near Threatened **[RE]** Regionally Extinct **[VU]** Vulnerable



