

Wylfa Newydd Project

Volume 8: Other Documents (Part 9/19)

8.16 Landscape and Habitat Management Strategy (Part 2/2)

PINS Reference Number: EN010007

Application Reference Number: 8.16

June 2018

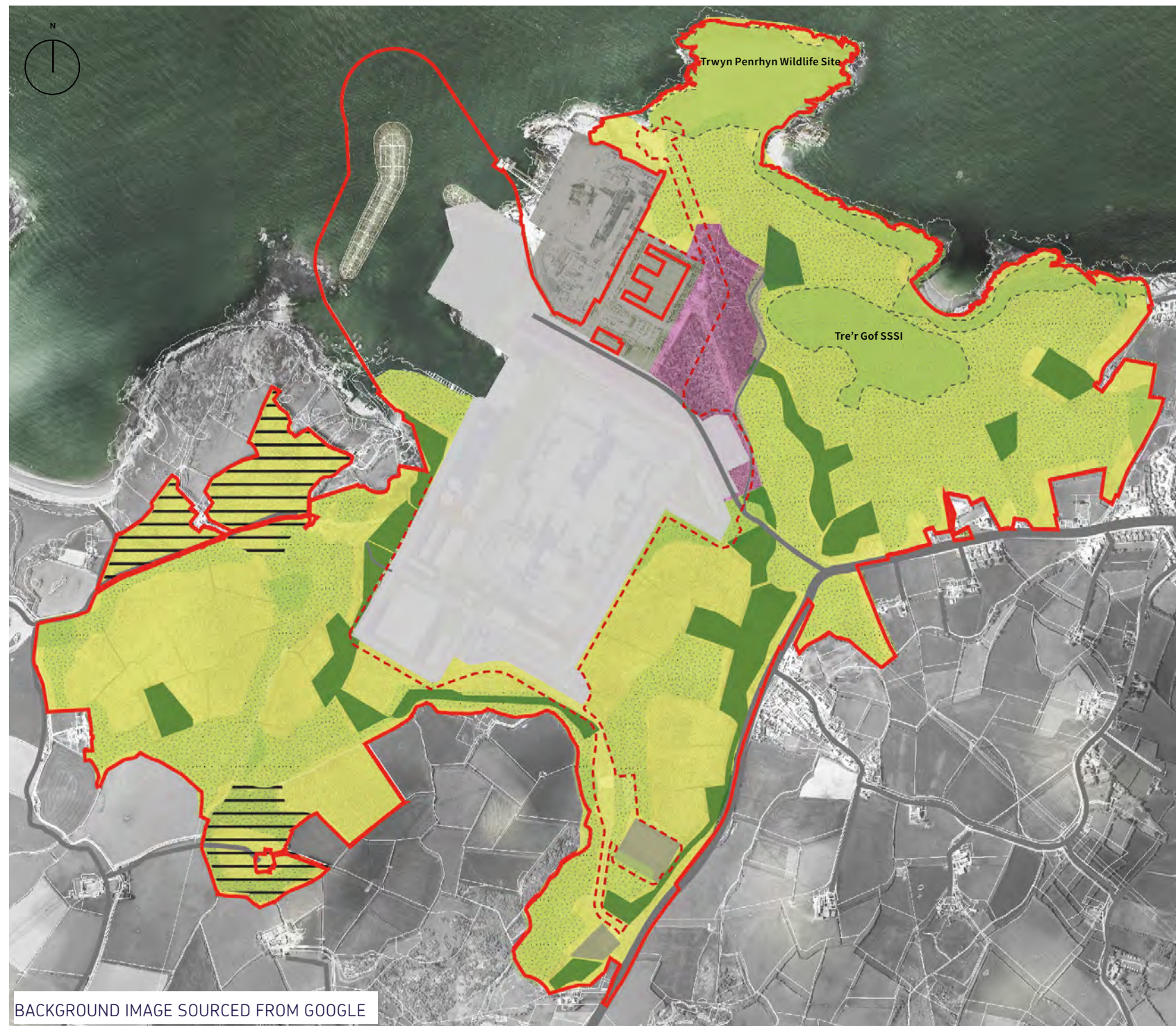
Revision 1.0

Regulation Number: 5(2)(q)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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**Legend**

	Wylfa Newydd Development Area		Dame Sylvia Crowe Woodland
	Power Station Site		Grazing land managed primarily for biodiversity
	Roads		Sympathetically managed agricultural land
	Existing Power Station		Managed woodland
	Proposed Power Station		Protected Site
	Area no longer under Horizon's control at this stage		

Figure 6-18 Proposed land use

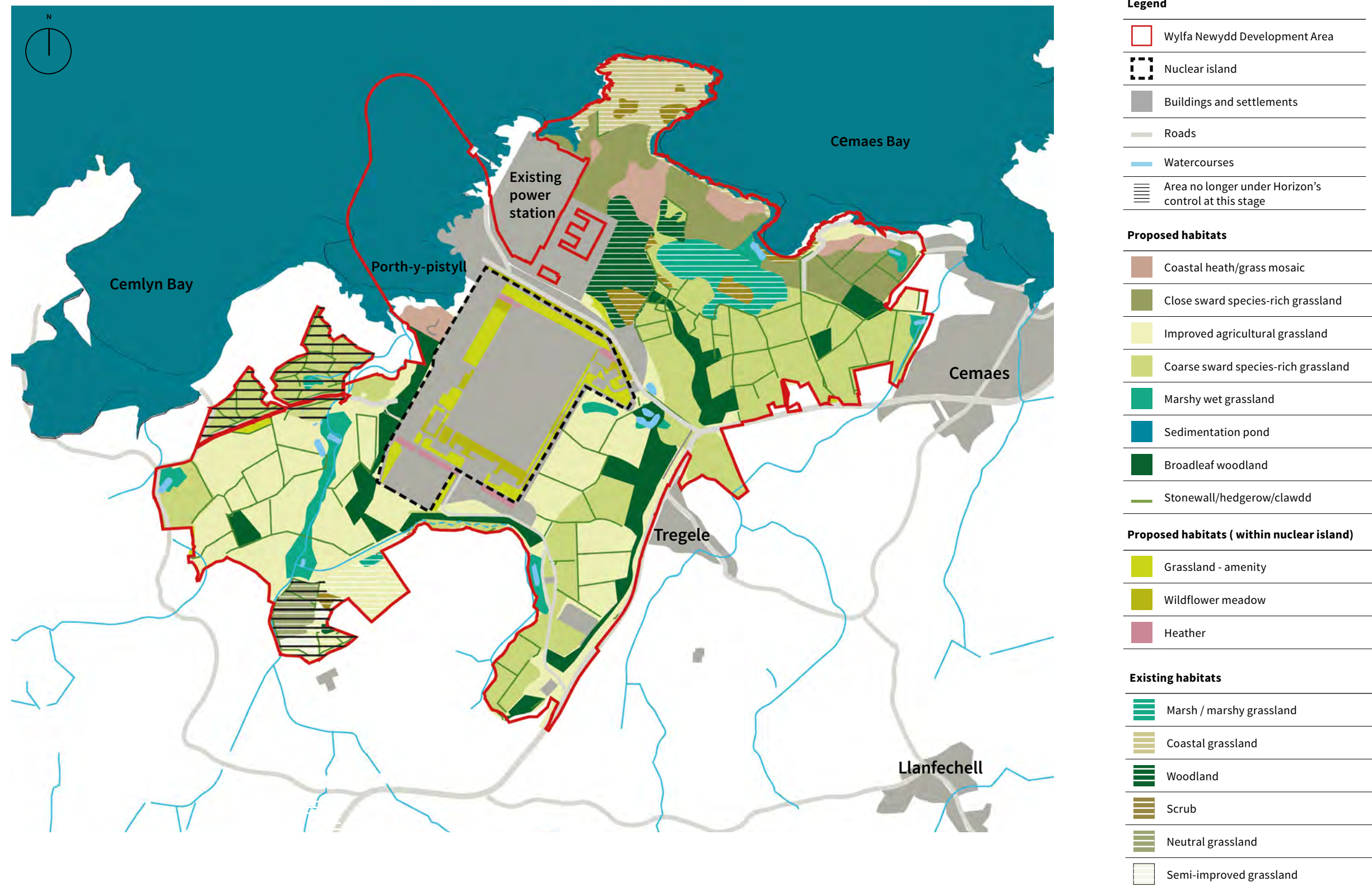


Figure 6-19 Proposed habitats



Figure 6-20 Proposed ecological mitigation features



Figure 6-21 Illustrative Bat corridors during operation



Figure 6-22 Illustrative grassland species corridors during operation



Figure 6-23 Illustrative woodland species corridors during operation

6.6 PUBLIC ACCESS, RECREATION AND VISITOR FACILITIES

- 6.6.1 As part of the restoration landscape proposals a comprehensive network of new foot paths will be created across the restored landscape linking to the Wales Coast Path and existing PRow network to provide linkages between Cemlyn Bay, Wylfa Head, Porth yr Ogof and Porth Wylfa beach and Cemaes, enabling public access to substantial parts of the WNDA. These are shown on figure 6-26.
- 6.6.2 The Wales Coast Path would be diverted to its final route to create a shorter route than that necessary during the construction period. The Copper Trail would remain in the alignment it was diverted to during construction.
- 6.6.3 Vehicular access will be provided off the Existing Power Station Access Road with re-opening of the existing Fisherman's Car Park to provide easy access to the coastline and Wylfa Head;
- 6.6.4 A picnic area with bilingual interpretation boards would be provided above Porth yr Ogof; this area would be accessible by wheelchair from the new car park at a similar location to the existing Fisherman's car park.
- 6.6.5 A nature trail will be provided outside of the Power Station Site, comprising a route along various replacement PROWs. The trail should include interest points and information boards suitable for all ages in Welsh and English, with digital and paper-based maps of the trail made available.
- 6.6.6 The design of footpaths and cycle paths would range from simple, grass paths, to bound gravel tracks where a more durable surface is required, as illustrated on Figure 6-24.
- 6.6.7 In conjunction with the provision of new footpaths and cycle paths, there would be a need for a variety of street furniture, for example, way-marker posts, wayfinding and interpretative signage, stiles, kissing gates, seats and occasional picnic tables. An illustrative view of a footpath in the WNDA looking south from the north of Tre'r Gof SSSI is shown on Figure 6-25.

- 6.6.8 The following recreational facilities would be provided as illustrated on figure 6-25:
- A new wildlife watching shelter will be provided in the location of the coastguard lookout (which has been demolished) along with interpretation boards, providing details of the wildlife that can be seen from the shelter (including birds, marine mammals, sharks and plants). The design of the shelter should be simple to blend in with the naturalistic setting with internal dimensions of approximately 2 m by 2 m; and
 - Interpretation boards would be provided at Porth Wnal which would reference the GeoMôn Geopark and the specific geology of this area, these interpretation boards will set out the information in Welsh and English.
- 6.6.9 In addition to the access and recreation provision outlined above Horizon intends to apply for a separate planning permission under the Town and Country Planning Act 1990 to permit the development of a permanent Visitor and Media Reception Centre at the Power Station Site for the operational phase post-2025.
- 6.6.10 The design of the centre and facilities contained within it will be subject to discussion with key stakeholders in advance of planning permission being submitted. There is an opportunity for this centre to provide facilities for tourists and local visitors to gain a greater understanding of the Wylfa Newydd DCO Project and for the centre to act as a community and educational resource. This centre would provide a focal point in the north of the island for tourists to visit and potentially for communities to gather. The likely site is at the proposed junction of the A5025 and new Power Station Access Road, just under a kilometre south of Tregelle, which is considered to be a prominent and accessible location for members of the public.



Grass path



Self-binding gravel path

Figure 6-24 Footpath materials



Timber bench



Litter bins



Directional signage



Timber gate



Picnic Table and seats



Way finding posts



Stile gate



Kissing gate



Interpretation boards



Illustrative view from a proposed footpath near Tre'r Gof SSSI



Wildlife watching shelter

Figure 6-25 Street furniture, signage and wildlife watching shelter

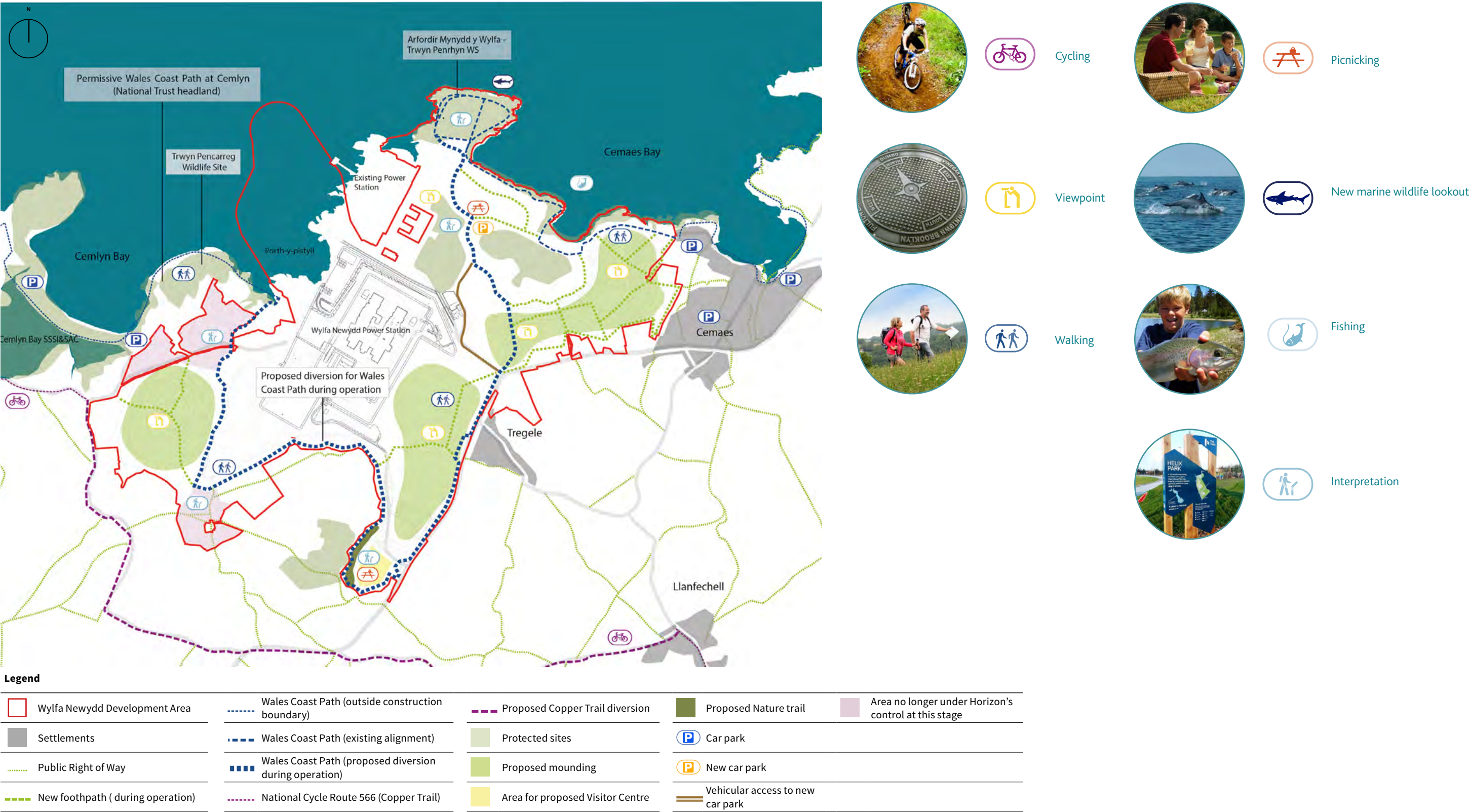


Figure 6-26 Public access and recreational facilities during site operation

6.7 PLANTING STRATEGY

OVERVIEW

- 6.7.1 The planting strategy for the WNDA has been developed in line with the principles established in section 4 and would aim to:
- Reflect local landscape character and species typically found in the surrounding local area to knit the new landscape into its local context;
 - Provide screening and visual mitigation;
 - Increase biodiversity through both the reinstatement and creation of a mosaic of habitat types to meet the habitat mitigation requirements of the ES including;
 - Woodland and scrub,
 - Planted hedgerows and cloddiau,
 - Species rich grassland both close and coarse sward,
 - New coastal heath/ grass mosaic,
 - Marshy grassland,
 - Sympathetically managed agricultural grassland;
 - Provide wildlife corridors and habitat connectivity across the WNDA in accordance with the requirements of the ES.
 - Reflect the local microclimate of the WNDA by using species tolerant of the exposed coastal conditions along with plant establishment techniques which have regard to these conditions;
 - Use species tolerant of the existing soil type (typically a medium clay loam);
 - Protect soils on the newly created landforms from erosion using techniques that accelerate plant establishment;
 - Reflect the newly installed drainage patterns to optimise opportunities to create diversity of habitat types;
 - Provide variety and seasonal interest;
 - Avoid conflicts with operational, security and maintenance requirements of the Power Station;
 - Provide planting typologies designed with regard to the intended management, maintenance and level of public access according to their location; and
 - Use plants and seeds from regional or local provenance with no invasive non-native species of plant.
- 6.7.2 Details of how these could be created and managed are illustrated below.

PROPOSED WOODLAND, HEDGEROW AND SCRUB SPECIES

- 6.7.3 It is proposed that new tree and shrub planting would be of predominantly native broadleaved species, which are characteristic of the area (see section 2.1.33 to 2.1.37) and/or suitable for the local conditions. These would be supplemented by conifer species that are relatively fast growing, tolerant of exposure to sea winds and would also add to the visual screening/amenity properties and habitat quality of the planting.
- 6.7.4 The following broadleaved species are proposed for woodland planting, with those species marked with an asterisk favoured for the more exposed coastal locations:
- Sessile oak* – main canopy species;
 - Blackthorn*;
 - Buckthorn (*Rhamnus cathartica*);
 - Common lime
 - Crab apple (*Malus sylvestris*);
 - Dog rose (*Rosa canina*);
 - Elder* (*Sambucus nigra*);
 - Field maple (*Acer campestre*)
 - Guelder rose (*Viburnum opulus*);
 - Hawthorn*;
 - Hazel (*Corylus avellana*);
 - Holly (*Ilex aquifolium*);
 - Rowan (*Sorbus aucuparia*);
 - Silver birch (*Betula pendula*);
 - Wild cherry (*Prunus avium*); and
 - Wych Elm (*Ulmus glabra*).
- 6.7.5 Conifer species would reflect those proposed by Dame Sylvia Crowe for the landscape design of the Existing Power Station, comprising:
- Corsican pine (*Pinus nigra*);
 - Lodgepole pine (*Pinus contorta*); and
 - Monterey pine (*Pinus radiata*).
- 6.7.6 In wetter areas, woodland and scrub planting would primarily comprise:
- Alder (*Alnus glutinosa*);
 - Aspen (*Populus tremula*);
 - Bird cherry (*Prunus padus*);

- Goat willow (*Salix caprea*); and
- Grey willow (*Salix cinerea*).

- 6.7.7 Hedgerow and scrub planting would primarily be a mix of hawthorn and blackthorn, interspersed with a diverse mix of the above broadleaved woodland species.
- 6.7.8 It is not proposed to plant gorse, which is a highly invasive species and prone to combustion in hot dry conditions.

SPECIFICATION OF PLANTS

- 6.7.9 Plants would be specified at appropriate sizes for the intended planting objectives – whether for visual screening, habitat creation, landscape character or grazing stock management. For tree and shrub planting, smaller stock sizes establish more readily and tend to be more tolerant of exposure to coastal winds, so these would form the bulk of proposed group planting. Shrub and hedgerow planting could include cell grown or bare root whips, ranging from 40-60cm to 100-125cm height. A variety of tree sizes would be specified, ranging from 150cm height feathered trees to 20-25cm girth standard trees. Some larger trees may be required for particularly sensitive locations, including early screen planting along the A5025 road, where a mix of tree sizes could include larger stock for initial visual impact. Plant density would be appropriate to the species and planted size.
- 6.7.10 Appropriate ground preparation, topsoil, staking, mulching and protection from pests and salt-laden coastal winds would be specified to aid establishment of the new planting in the challenging coastal conditions.

MANAGEMENT OF NEW WOODLAND, SCRUB AND HEDGEROWS

- 6.7.11 The newly created woodland scrub and hedgerow will be actively managed by Horizon to maximise their habitat value and in the case of hedgerows to ensure they are stock proof. Thinning and felling of new planting and some retained areas will be used to establish and to maintain the desired 10-20% open areas within the woodland. Thinning and felling will target less healthy or less desirable trees and give the remaining trees more space to establish. It will also allow light through to aid the development of an appropriate woodland field layer. Pruning and cutting back of the shrub edge species in retained areas and, later in the management programme, areas of new planting will be undertaken to maintain a graded woodland edge and to ensure a good age structure to the woodland edge as it develops.
- 6.7.12 Figure 6-27 below identifies a variety of species which are tolerant of exposure to sea winds, and are considered suitable for planting in the WNDA:

GRASSLAND AND HEATHLAND PLANT SPECIES, ESTABLISHMENT AND MANAGEMENT

- 6.7.13 Plant species lists for the different grassland and heathland habitats would be based on the species characteristic of the habitats elsewhere in the locality as shown in figure 6-28. Pasture and species rich grassland would be established from seed of UK provenance. Vegetation establishment on the new mounds may be accelerated through the implementation of appropriate surface binding techniques, such as hydroseeding, or impregnated matting, thereby reducing the likelihood sediment runoff from un-vegetated surfaces.
- 6.7.14 New coastal heathland would be established from a combination of seed or brush harvestings from the local area. Wet grassland would be established either via a combination of natural regeneration, seeding or planting grown from locally harvested seed where ever possible.
- 6.7.15 Coastal heath and grassland swards will need to be maintained once they have become established to prevent them succeeding to scrub. This will be undertaken primarily by the implementation of suitable grazing regimes.

WOODLAND TREES/UNDERSTOREY (WET AREAS):



Common Alder



Goat Willow



Grey Willow



Bird Cherry



Aspen

Figure 6-27 Proposed woodland, scrub and hedgerow species

WOODLAND TREES/UNDERSTOREY (DRY AREAS):



Sessile Oak *main canopy species



Blackthorn



Holly



Elder



Dog Rose



Corsican Pine



Wych Elm



Hawthorn



Roan



Hazel



Common Lime



Silver Birch



Guelder Rose



Monterey Pine



Hawthorn



Buckthorn



Crabapple



Wild Cherry



Field Maple



Lodgepole Pine

HEDGEROWS



Blackthorn



Figure 6-28 Grassland and heathland habitats to be re-created

PART C: IMPLEMENTATION AND LONG TERM MANAGEMENT

7 IMPLEMENTATION & LONG TERM MANAGEMENT

7.1 IMPLEMENTATION

7.2 MANAGEMENT PRINCIPLES

Implementation and long term management

7.1 IMPLEMENTATION

- 7.1.1 Detailed implementation and management schemes will be prepared for the new landscape and habitats by Horizon or its contractors in consultation with key stakeholders as appropriate, following the design principles in section 4 and management principles established in this chapter. Key stakeholders may include Isle of Anglesey County Council (IACC), Natural Resources Wales, North Wales Wildlife Trust, the National Trust and the Royal Society for the Protection of Birds.
- 7.1.2 Detailed implementation schemes will provide the information required in Schedule 3 of the Development Consent Order (Application Reference Number: 3.1).

7.2 MANAGEMENT PRINCIPLES

- 7.2.1 Management schemes will seek to ensure:

- That the design principles set out in Chapter 4 of this document are delivered for the lifetime of the Power Station.
- The enhancement and long-term viability of retained semi-natural habitats at Tre'r Gof SSSI, Arfordir Mynydd y Wylfa – Trwyn Penrhyn Wildlife Site, Dame Sylvia Crowe woodland and the northern block of ancient woodland.
- The notable wildlife habitat enhancement site and the reptile receptor site provide suitable habitats for reptiles and other notable wildlife which have been displaced/translocated until new habitats have been created on the new landform surrounding the Power Station Site;
- The WNDA is managed following Site Preparation and Clearance works in a given area to minimise the likelihood of colonisation by species which could constrain construction works in that area.
- The successful establishment of new landscape and habitats and their long-term viability.
- The planting will be maintained and enhanced during operation of the Power Station to mitigate the visual and noise impacts of the Power Station Site with respect to neighbouring sensitive receptors as well as enhancing the landscape and ecological environment surrounding the Power Station as a whole;
- The continued vitality of existing retained planting, including existing hedgerows on the Wylfa Newydd Development Area boundary;
- The strengthening of the landscape character and restoration of the field boundary pattern wherever practicable, including hedgerows, cloddiau and dry-stone walls.

- The provision of effective visual screening.
- The re-establishment of high quality coastal grassland at Wylfa Head, which will support foraging through natural regeneration within the cooling outfall work area. If required, natural regeneration will be supported by the control of undesirable plant species and/or reseeded the area with seed harvested from Wylfa Head.
- That the WNDA (including marine structures) is free of Invasive Non-native Species as far as reasonably practicable.
- That grazing regimes within a given area are appropriate to the target habitat type(s), using appropriate livestock at appropriate densities at appropriate times of year;
- That there are no fertilizer inputs to any areas except those identified for sympathetically managed agricultural grassland and that, even in these areas, inputs and application methods are restricted to prevent enrichment of adjacent habitats, in particular ditches and watercourses.
- That use of other agrichemicals (including herbicides, pesticides and worming treatments) is limited to the absolute minimum requirements and does not adversely affect the target habitats for a given area, the notable species it supports, or adjacent habitats and species.
- That buffer zones measuring at least 1m wide are maintained around all fields identified as sympathetically managed agricultural grassland and that these buffer zones are clearly delineated and managed as coarse-sward species-rich grassland.
- That cover of injurious agricultural weeds is below 5% for all habitats.
- That bare ground cover is less than 10% for all areas identified as some form of grassland.
- That wildflower and sedge cover is greater than 20% for all areas identified as some form of species-rich grassland.
- That sward height in areas identified as close-sward species-rich grassland is generally no greater than 50mm.
- That areas identified as coastal heath/grassland mosaic comprise greater than 25% cover of heather and other dwarf shrubs, less than 20% coarse grasses, less than 10% bracken and less than 10% scrub.
- That cover of large sedges, rushes and reeds is greater than 30% for all areas identified as marshy grassland.
- That riparian tree cover is less than 10% along watercourses and ditches and watercourses.
- That areas identified as woodland will include 10-20% open areas (e.g. glades, rides and recent coppice).
- That selective thinning and coppicing is undertaken in woodland areas to maintain tree health and create a diverse woodland structure.
- That management works use appropriate methods at appropriate times of

year to avoid harming legally protected and other notable species.

- That new planting is monitored throughout the establishment period, quarterly for a 5-year period after implementation, followed by annual inspections for second 5-year period (total 10 years) to ensure the landscape planting scheme successfully establishes and achieves the intended mitigation. In the event that these inspections identify that planting has not established, replacement planting on a like for like basis will be undertaken at the first available planting season;
- That the landscape and habitats are regularly monitored to assess efficacy of management and inform management reviews.
- That monitoring will be undertaken of species translocations and work undertaken as part of a protected species licences to assess the efficacy of mitigation provided. Monitoring commitments will be undertaken in line with the requirements of the relevant protected species licence.
- That the management regimes are regularly reviewed (at least once every five years – more frequently where monitoring identifies the need for change) and updated as required.
- Appropriate maintenance of public access infrastructure to allow and ensure the safe and convenient passage of members of the public through and within the WNDA.
- The maintenance of other landscape features, including dry-stone walls and cloddiau in good condition.

ECOLOGICAL COMPENSATION SITES

- Horizon would be responsible for the long-term management of all three sites and would assign a project officer, to be employed directly by Horizon or through a third party, to co-ordinate and oversee the management works.
- During construction, a process of adaptive management will be employed to ensure the success of habitat creation and enhancement proposal at Cae Canol-dydd and Cors Gwawr and avoid adverse effects to designated sites or neighbouring farmland.
- Habitat Management Schemes will include adaptive management measures to control any adverse effects that could arise following completion of the works. This will be informed by ongoing hydrological monitoring, allowing any issues identified by Horizon or its contractors to be dealt with as and when they arise.
- Habitat creation areas will be managed differently from other areas during habitat establishment, with stock excluded for at least the first five years to prevent grazing. Management infrastructure to support this will be installed as part of construction works. Any management that may be required during this period would be identified by the project officer and undertaken on an ad hoc basis, (e.g. control of weeds or other species by cutting). The point at which habitat creation areas would be incorporated with the wider site grazing management would be determined by the monitoring, assessment and review process.
- Habitat enhancement works in established vegetation will be detailed in the Habitat Management Schemes and will include a combination of the following activities, as appropriate: manual cutting and raking of vegetation to improve condition of coarser vegetation; introduction of hay or other plant propagules to areas in order to diversify existing vegetation; and instigation of grazing management.
- Grazing will be low intensity, using appropriate livestock such as cattle and/or ponies. Livestock densities will be appropriate to the target habitat for a given area.
- The Habitat Management Schemes will set out a water management plan for each site, to include targets for water levels and flows across site and their management in order to support key vegetation types and avoid adverse effects on adjacent land, and a programme of maintenance of water infrastructure.
- Long-term hydrological and habitat monitoring will be undertaken to determine the success of the habitat creation and enhancement proposal and of subsequent management.
- Footpaths, boardwalks and bridges will be managed to maintain public access routes.

MANAGEMENT SCHEMES

- 7.2.2 Management schemes for specific areas will be submitted to the determining authority (IACC) following grant of the DCO alongside the detailed design for that area. Management schemes will be developed in accordance with the principles in the LHMS which will aim to secure the establishment and long term viability of these landscapes and habitats. These will be prepared for the locations identified in Schedule 3 of the Development Consent Order (Application Reference Number: 3.1).
- 7.2.3 Management schemes will contain the following information:
- Introduction: Identify the terms of reference, the spatial and temporal scope of the document, and responsibilities;
 - Site information: concise background information relevant to the management of the site, including location plan, climate, geology, soils, hydrology and ecology (including identification of any protected/notable habitats or species);
 - Factors influencing management: concise details of any factors that have an influence on how the site is managed, including PRow, other legal rights of access, potential management access routes as well as health, safety, security and environmental hazards;
 - Management aim(s): identification of the overall purpose of management; a clear vision of what the management will achieve in accordance with the principles in the LHMS;
 - Management objectives: concise, specific, measurable, achievable, relevant targets for realisation of the identified management aim(s) in accordance with the principles established in this document;
 - Management prescriptions: clear, detailed descriptions of the management measures required to meet the management objectives in accordance with the principles established in this document
 - Monitoring: clear, concise details of any monitoring (and reporting) requirements to identify if objectives are being met and if management requires amendment; and,
 - Management programme: in tabular form

8 REFERENCES

References

ID	REFERENCE
RD1	Section 2.1, Planning Policy Wales – Technical Advice Note 5: Nature and Conservation Planning (September 2009) – Section 2. Key Principles of Positive Planning for Nature Conservation (http://gov.wales/docs/desh/policy/100730tan5en.pdf)
RD2	Anglesey and Gwynedd Joint Local Development Plan (July 2017) – Section 6.5: Natural and Built Environment (http://www.anglesey.gov.uk/planning-and-waste/planning-policy/joint-local-development-plan-anglesey-and-gwynedd/)
RD3	New Nuclear Build at Wylfa: Supplementary Planning Guidance (July 2014) – Section 4.10: Natural Environment (http://www.anglesey.gov.uk/Journals/2014/08/11/q/k/h/Wylfa-NNB-SPG-Adopted-July-2014.pdf)
RD4	Section 5.3.15, Overarching National Policy Statement for Energy (EN-1) (July 2011) – Section 5.3. Biodiversity and geological conservation (https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/47854/1938-overarching-nps-for-energy-en1.pdf)
RD5	Section 5.3.18, Overarching National Policy Statement for Energy (EN-1) (July 2011) – Section 5.3. Biodiversity and geological conservation (https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/47854/1938-overarching-nps-for-energy-en1.pdf)
RD6	Appraisal of Site Sustainability: Site Report for Wylfa (EN-6 Revised Draft National Policy Statement for Nuclear Power Generation) (October 2010) – Section 5.16. Biodiversity and ecosystems
RD7	Anglesey Local Biodiversity Action Plan (undated) (http://www.anglesey.gov.uk/planning-and-waste/countryside/biodiversity-and-conservation/what-are-we-doing-to-help-biodiversity-on-anglesey/)
RD8	Horizon Nuclear Power (Wylfa) Ltd (November 2013). Consultancy Report: A Phase 1 Habitat Survey. (Document Number: B1496000/WP6-2/R001) (Horizon Ref: W202.01-S5-PAC-REP-00015).
RD9	Jacobs UK Ltd (2017). Wylfa Newydd Project - Ecological Enhancement Options for the Marine Structures. (Document Number: 60P08077/AQE/TM/005) (Horizon Ref: WN0902-JAC-OS-REP-00011)
RD10	Rodwell, J.S. (ed.) (1992). British Plant Communities. Volume 3. Grassland and montane communities. Cambridge University Press.

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A HABITATS REQUIREMENTS TABLE

Common Name	Scientific Name	Nature Conservation Status*	Typical Habitats	Other Requirements	
				Breeding/Shelter	Hibernation
Brown hare	<i>Lepus europaeus</i>	EWA-S7 LBAP	Grassland, woodland edges, heathland, hedgerows, scrub	Shallow depression in ground or grass ('form')	Does not hibernate
Brown long-eared bat	<i>Plecotus auritus</i>	CHSR-S2 WCA-S5 EWA-S7	Open woodland, parkland and orchards	Roost in older buildings, barns, churches and trees	Hibernates in caves, tunnels, mines and occasionally buildings and trees
Common pipistrelle	<i>Pipistrellus pipistrellus</i>	CHSR-S2 WCA-S5 EWA-S7 LBAP	Woodland, grassland, hedgerows and gardens	Roost in crevices in buildings and trees	Crevices in buildings and trees
Grey seal	<i>Halichoerus grypus</i>	HD-A2	Spend most of the year at sea, coming ashore in autumn to form breeding colonies	Rocky shores, beaches and caves	Does not hibernate
Hedgehog	<i>Erinaceus europaeus</i>	EWA-S7	Woodland, hedgerows, scrub, grassland, parkland, gardens	Nest under piles of logs/brash and leaves	Hibernate under piles of logs/brash and leaves
Nathusius' pipistrelle	<i>Pipistrellus nathusii</i>	CHSR-S2 WCA-S5	Near water, marshland and woodland edges	Roost in crevices in buildings and trees, usually near open water	Crevices in trees, cliffs, walls and caves
Natterer's bat	<i>Myotis nattereri</i>	CHSR-S2 WCA-S5	Broadleaved woodland, grassland, tree-lined watercourses and ponds	Roost in old stone buildings with large timbers and under bridges	Caves, mines and tunnels
Noctule	<i>Nyctalus noctula</i>	CHSR-S2 WCA-S5 EWA-S7 LBAP	Woodland and pasture, often near water	Roost in trees	Trees
Otter	<i>Lutra lutra</i>	HD-A2 CHSR-S2 WCA-S5 EWA-S7	Sea shore and banks of rivers, streams and lakes	Den in riverbank ('holt')	Does not hibernate

Common Name	Scientific Name	Nature Conservation Status*	Typical Habitats	Other Requirements	
				Breeding/Shelter	Hibernation
		LBAP			
Polecat	<i>Mustela putorius</i>	EWA-S7	Marshland, woodland, grassland, river banks, sea cliffs, sand dunes, farm buildings, drystone walls	May dig a den, but prefers existing sites such as rabbit burrows, hay stacks and log piles	Does not hibernate
Red squirrel	<i>Sciurus vulgaris</i>	WCA-S5 EWA-S7 LBAP	Woodland	Dense ball of twigs ('drey') located in tree canopy	Does not hibernate
Soprano pipistrelle	<i>Pipistrellus pygmaeus</i>	CHSR-S2 WCA-S5 EWA-S7	Wetlands, woodland edges, hedgerows and gardens	Roost in crevices in buildings and trees	Crevices in buildings and trees
Water vole	<i>Arvicola amphibius</i>	WCA-S5 EWA-S7 LBAP	Marshland and vegetated banks of rivers, streams, ditches and ponds	Burrow in banks of rivers, streams, ditches and ponds	Do not hibernate in winter, but spend more time in burrows
Whiskered/Brandt's bat	<i>Myotis mystacinus/brandtii</i>	CHSR-S2 WCA-S5	Woodland, pasture with hedgerows and riparian habitats; Brandt's bat favouring woodland and whiskered bat favouring riparian and open habitats	Roost in crevices in buildings	Caves and tunnels
Barn owl	<i>Tyto alba</i>	WCA-S1 LBAP	Rough grassland	Nest and roost in old barns and tree cavities	Does not hibernate
Black-headed gull	<i>Chroicocephalus ridibundus</i>	EWA-S7 Also notable for its commensal relationship with the terns at Cemlyn Lagoon (part of Anglesey Terns Special Protection Area)	Coastal marshland, wetlands, arable fields, grassland, playing fields and rubbish tips	Nest on ground adjacent to coastal and inland waterbodies	Does not hibernate

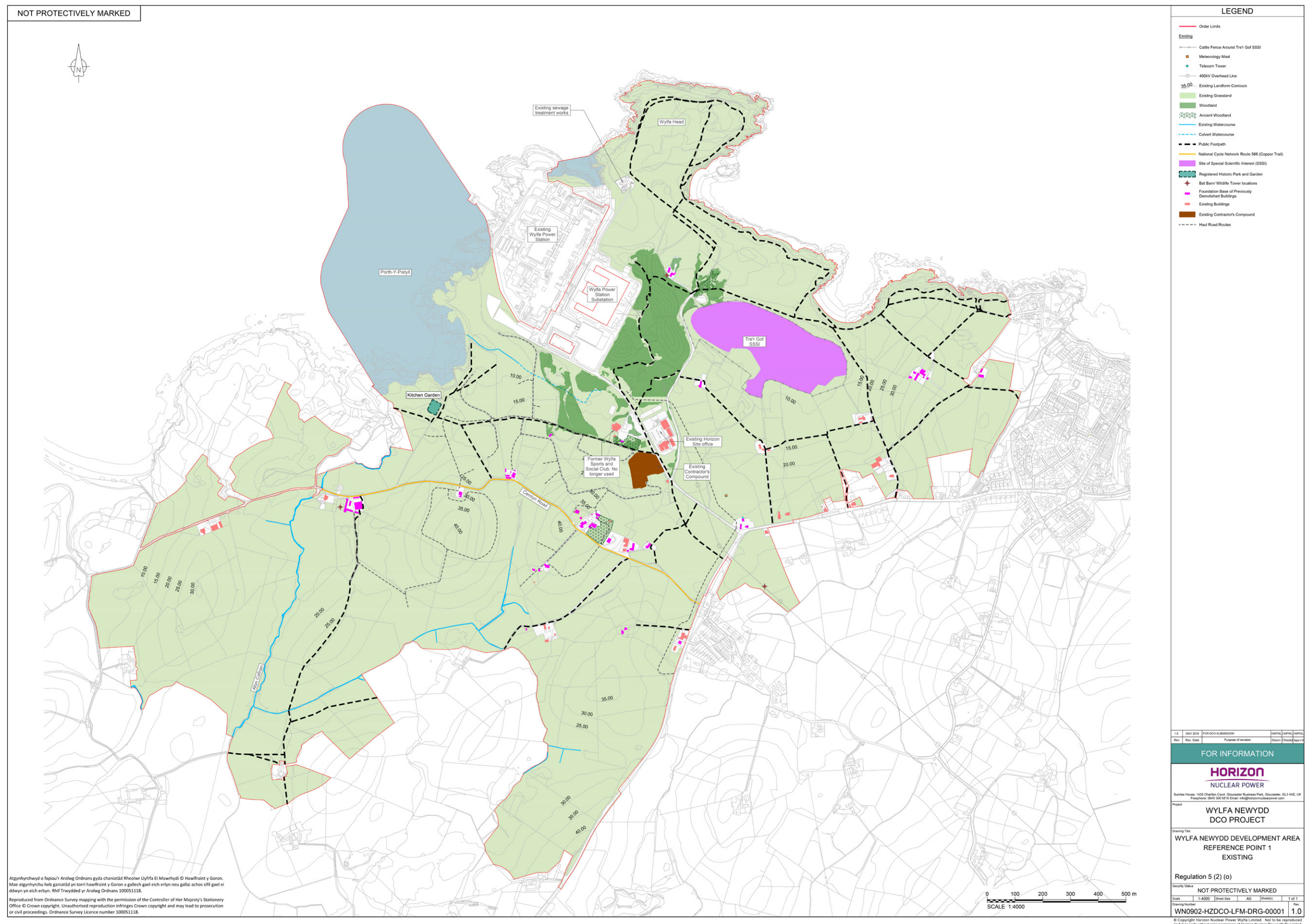
Common Name	Scientific Name	Nature Conservation Status*	Typical Habitats	Other Requirements	
				Breeding/Shelter	Hibernation
Bullfinch	<i>Pyrrhula pyrrhula</i>	EWA-S7	Woodland, scrub, orchards, hedgerows and gardens	Nest in dense vegetation 1-2m above ground	Does not hibernate
Chough	<i>Pyrrhocorax pyrrhocorax</i>	BD-A1 WCA-S1 EWA-S7 LBAP	Rocky coasts with short grassland (mainly within 300m of nest site during breeding season)	Nest in crevices or on ledges on sea cliffs or in caves	Does not hibernate
Dunnock	<i>Prunella modularis</i>	EWA-S7	Woodland, scrub, hedgerows, parkland and gardens	Nest in dense shrubs and hedges	Does not hibernate
Grasshopper warbler	<i>Locustella naevia</i>	EWA-S7 BoCC-Red	Scrub, rough grassland, marshy grassland, reedbed edge and new woodland plantation	Nest in hollow in dense ground vegetation near to bushes and small trees	Does not hibernate
Herring gull	<i>Larus argentatus</i>	EWA-S7 BoCC-Red	Coastal habitats, arable fields, grassland, playing fields, gardens and rubbish tips	Nest on rocky coastline, shingle banks and building rooftops	Does not hibernate
House sparrow	<i>Passer domesticus</i>	EWA-S7 BoCC-Red	Hedgerows, gardens and built up areas – always in the vicinity of people	Nest in holes in buildings and in thick hedges or conifers	Does not hibernate
Kestrel	<i>Falco tinnunculus</i>	EWA-S7	Grassland, heathland and urban areas	Nest in tree holes, disused nests of crows and ledges on cliffs and buildings	Does not hibernate
Lesser redpoll	<i>Carduelis cabaret</i>	EWA-S7 BoCC-Red	Mixed woodland, birch scrub and wet woodland	Nest in tree or shrub, typically in birch scrub or mixed conifer and birch woodland	Does not hibernate
Linnet	<i>Carduelis cannabina</i>	EWA-S7 BoCC-Red	Heathland, scrub, rough ground, winter stubble fields hedgerows, saltmarsh, parkland and gardens	Nest in thick, thorny hedges and scrub	Does not hibernate

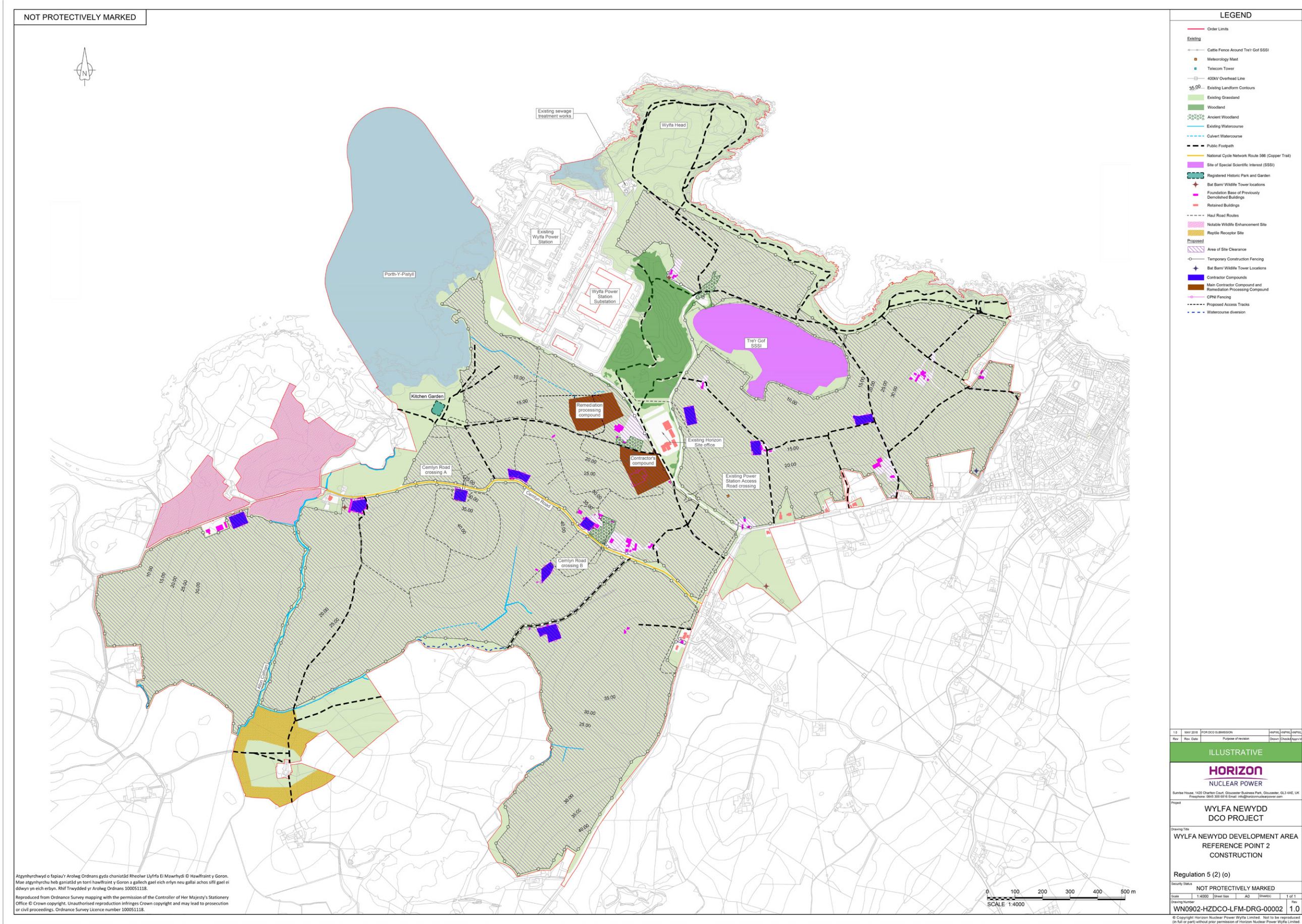
Common Name	Scientific Name	Nature Conservation Status*	Typical Habitats	Other Requirements	
				Breeding/Shelter	Hibernation
Reed bunting	<i>Emberiza schoeniclus</i>	EWA-S7	Reedbeds, conifer plantation, hedgerows and arable fields	Nest on ground among reeds or grasses in a wet or marshy place	Does not hibernate
Skylark	<i>Alauda arvensis</i>	EWA-S7 LBAP BoCC-Red	Grassland, arable fields and heathland	Nest on open ground in vegetation 20-50cm high (e.g. spring-sown cereals)	Does not hibernate
Song thrush	<i>Turdus philomelos</i>	EWA-S7 LBAP BoCC-Red	Woodland, hedgerows, scrub, grassland, parkland and gardens	Nest low down on trees and shrubs or on the ground amongst thick vegetation	Does not hibernate
Starling	<i>Sturnus vulgaris</i>	EWA-S7 BoCC-Red	Grassland, arable fields, playing fields, parkland and gardens	Nest in holes in trees and buildings	Does not hibernate
Adder	<i>Vipera berus</i>	WCA-S5 EWA-S7	Woodland edges, scrub, heathland, moorland, coastal dunes and rough grassland with combination of sunny basking sites and dense cover	Give birth to live young in well-protected hollows, e.g. under tree stumps	Well-protected hollows on high, dry ground, e.g. abandoned burrows of small mammals or in overgrown root systems of fallen trees
Common lizard	<i>Zootoca vivipara</i>	WCA-S5 EWA-S7	Woodland edges, scrub moorland, heathland, marshland, rough grassland, sea cliffs, gardens, dry stone walls and embankments with combination of sunny basking sites and dense cover	Female needs warm basking sites to incubate eggs inside her before giving birth to live young	Sheltered places among rocks or dead wood

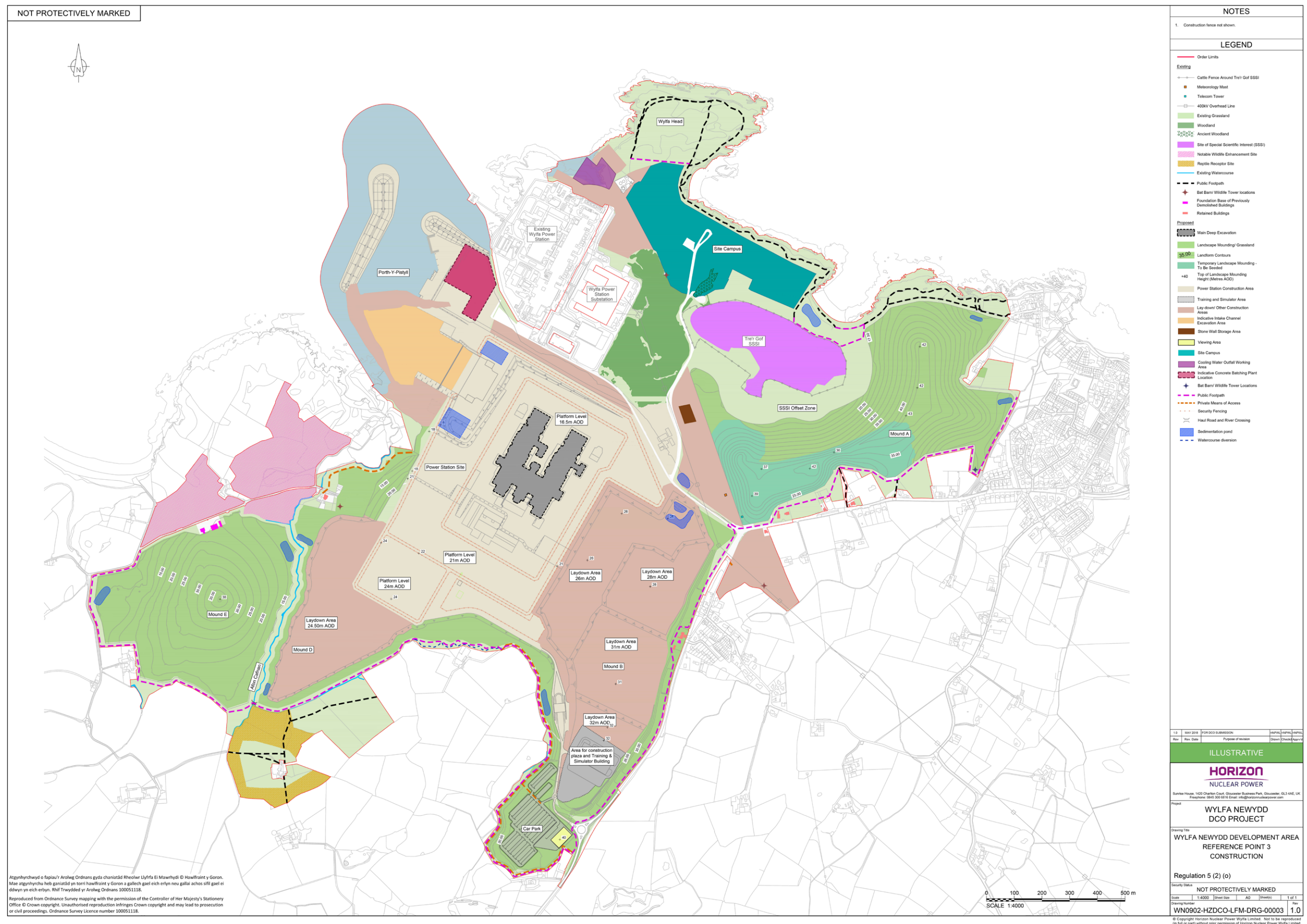
Common Name	Scientific Name	Nature Conservation Status*	Typical Habitats	Other Requirements	
				Breeding/Shelter	Hibernation
Common toad	<i>Bufo bufo</i>	EWA-S7	Woodland, scrub, hedgerows, marshland and rough grassland	Large ponds needed for breeding and larval development	Do not hibernate, but spend much of winter sheltering under deep leaf litter and log piles, as well as mammal burrows
Great crested newt	<i>Triturus cristatus</i>	HD-A2 CHSR-S2 WCA-S5 EWA-S7 LBAP	Woodland, scrub, hedgerows, marshland and rough grassland, usually within 500m of breeding ponds	Large, vegetated ponds needed for breeding and larval development	Underground crevice (e.g. void in tree stump or bank) or under rocks or dead wood
Brown trout	<i>Salmo trutta</i>	EWA-S7	Fast-flowing, stony and gravelly rivers		Does not hibernate
European eel	<i>Anguilla anguilla</i>	EWA-S7	Breed in sea, migrate up freshwater streams to grow and return to sea to spawn. May travel over land on dark nights.	Sargasso Sea (North Atlantic)	Does not hibernate
Cinnabar moth	<i>Tyria jacobaeae</i>	EWA-S7	Well-drained, rabbit-grazed grassland, sand-dunes and heathland containing common ragwort (<i>Senecio jacobaea</i>)		Does not hibernate
Grayling butterfly	<i>Hipparchia semele</i>	EWA-S7	Well-drained, open, short grassland and heathland with fine grasses and patches of bare ground		Does not hibernate
Small heath butterfly	<i>Coenonympha pamphilus</i>	EWA-S7	Well-drained, short, sparse grassland and heathland with fine grasses		Does not hibernate
Wall brown butterfly	<i>Lasiommata megera</i>	EWA-S7	Short, open grassland where turf is broken or stony		Does not hibernate
Minute moss beetle	<i>Hydraena palustris</i>	Red-NT	Pond margins		Does not hibernate
Mud snail	<i>Omphiscola glabra</i>	Red-NT	Waterbodies of poor water quality and fluctuating conditions, such as marshes, ditches, ephemeral pools and seepages within unimproved grasslands and heathland		Does not hibernate

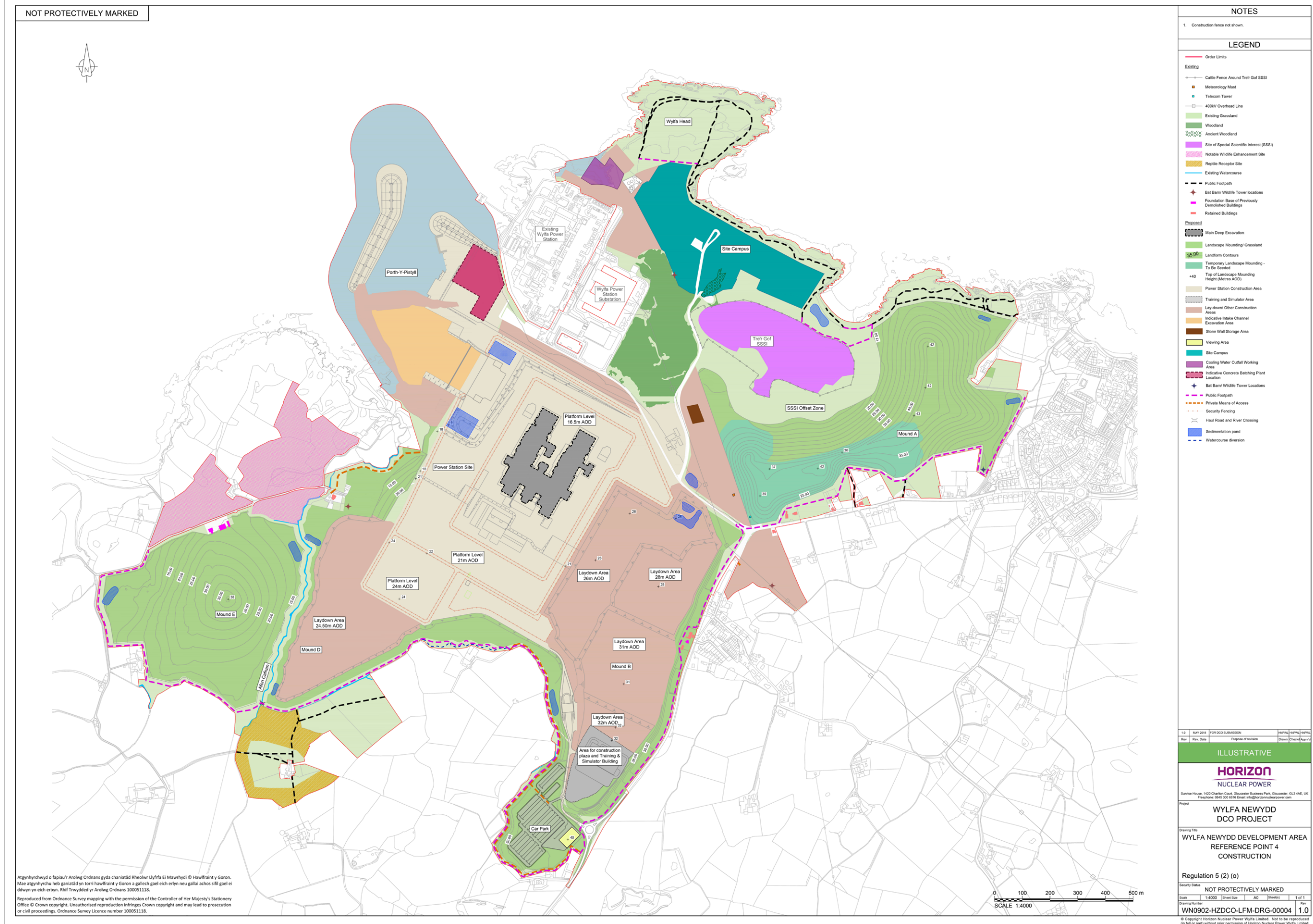
Common Name	Scientific Name	Nature Conservation Status*	Typical Habitats	Other Requirements	
				Breeding/Shelter	Hibernation
*Key to Nature Conservation Status: <ul style="list-style-type: none">• BD-A1 – Bird species listed on Annex I of Directive 2009/147/EC (Birds Directive) requiring protection via designation of core habitat areas• HD-A2 – Animal species listed on Annex II of Council Directive 92/43/EEC (Habitats Directive) requiring protection via designation of core habitat areas• CHSR-S2 – European protected species of animal listed on Schedule 2 of the Conservation of Habitats and Species Regulations 2017• WCA-S1 – Specially protected bird species listed on Schedule 1 of the Wildlife & Countryside Act 1981• WCA-S5 – Protected animal species listed on Schedule 5 of the Wildlife & Countryside Act 1981• EWA-S7 – Species of principal importance for conservation of biodiversity in Wales, listed in accordance with Section 7 of the Environment (Wales) Act 2016• LBAP – Species with Species Action Plans or listed as locally significant species in the Anglesey Biodiversity Action Plan• BoCC-Red – Red List Birds of Conservation Concern• Red-NT – Invertebrate species categorised as Near Threatened on the Red List for Great Britain					

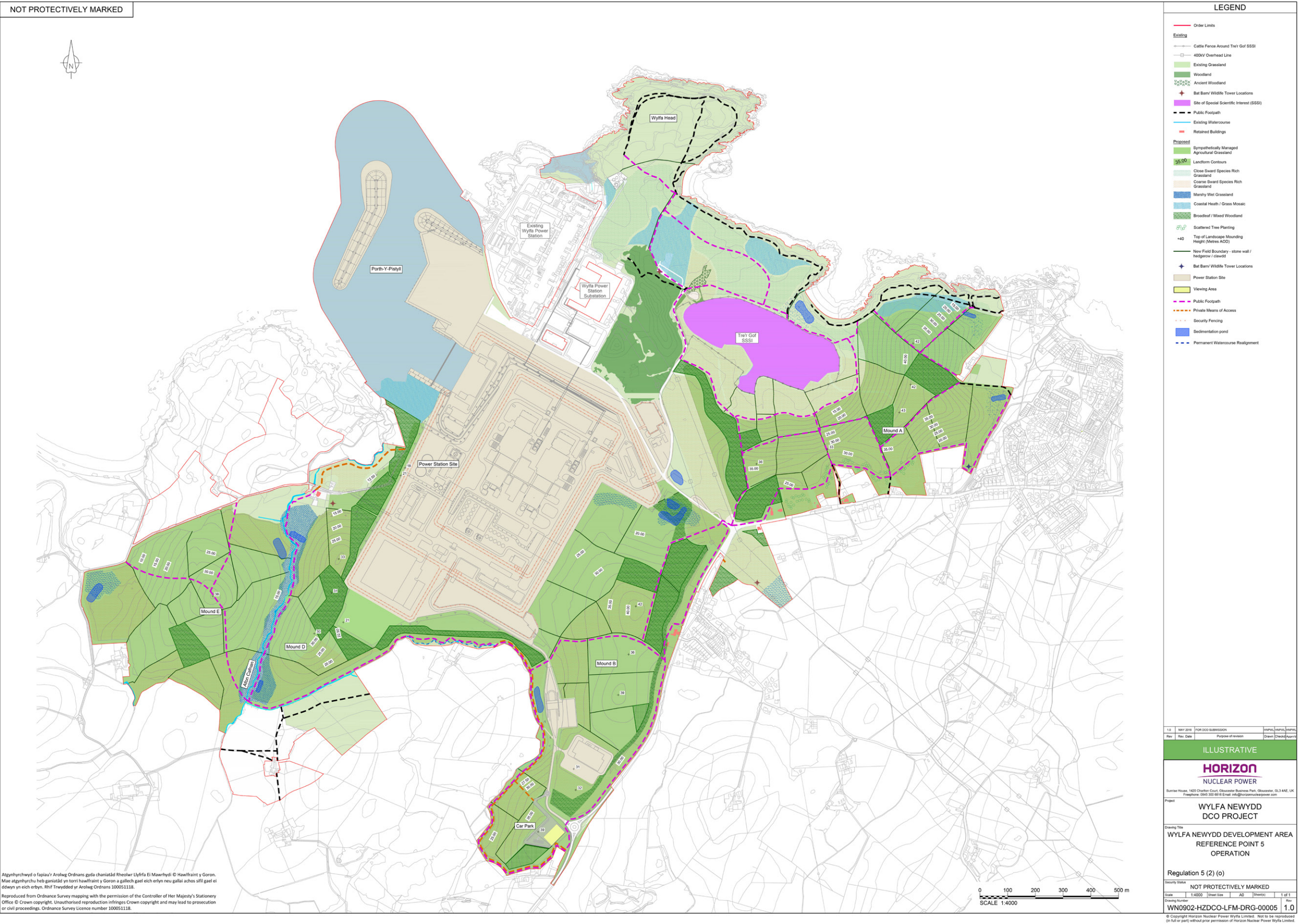
B REFERENCE POINT DRAWINGS











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C TREE SURVEY



Tree Survey Schedule (2015-16 combined) –
Wylfa Newydd Development Area

Horizon Nuclear Power
Jacobs Project Ref. 60PO8028



Tree Survey Schedule (2015-16 combined) – Wylfa
Newydd Development Area



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Document No.: 01
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Date: 22 March 2017
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Client No:
Project Manager: Alexia Rogers-Wright
Author: Mark Watson
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schedule 2015-16 combined data_revised_SK.docx

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Document history and status

Revision	Date	Description	By	Review	Approved
3	22/03/2017	Tree Survey Schedule	Mark Watson	Peter Small	Alexia Rogers-Wright

Tree Survey Schedule (2015-16 combined) – Wylfa
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- Appendix B. - Schedule Key
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Tree Survey Schedule (2015-16 combined) – Wylfa
Newydd Development Area



1. Overview

- 1. This schedule presents the findings of the tree survey data undertaken in 2015 and 2016 in accordance with *BS5837:2012 Trees in relation to design, demolition and construction* (BSI, 2012), for the Wylfa Newydd Development Area..
- 2. The requirements of the survey were to:
 - record information about the trees and hedges that may be impacted upon by the proposed development; and
 - provide a tree survey plan.

2. Scope of tree Survey

- 3. The survey relates to trees with a stem diameter of 75mm or more (measured at 1.5m above ground level) located within the area highlighted on the General Arrangement Layout (drawing nos. WN012-JAC-OS-DRG-00085 owned/leased land key plan and WN012-JAC-OS-DRG-00086 option land key plan).
- 4. Trees and hedges included in the survey are those in close proximity to/within the footprint of the proposed development as well as any trees within a 15-metre buffer of the site which were considered to be potentially impacted by any works associated with the proposed development.
- 5. Results of the tree survey are provided within the associated plan produced (drawing nos. 60PO8028-LSC-D-00014/15/17/18/19/20/22/23 Rev3).

3. References

Mattheck, C., 1994. *The Body Language of Trees*, Research for Amenity Trees No 4. London: TSO.

British Standards Institute, 2012. *British Standard 5837: 2012 Trees in relation to design, demolition and construction – Recommendations*. London: BSI Ltd.

Appendix A. - Cascade Chart for Tree Quality Assessment

Category and definition	Criteria (including subcategories where appropriate)		
Trees unsuitable for retention (see note)			
Category U			
Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)		
	Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline		
	Trees infected with pathogens of significance to health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality. NOTE: Category U trees can have existing or potential conservation value which it might be desirable to preserve.		
Trees to be considered for retention			
	1 Mainly arboricultural qualities		
Category A		2 Mainly landscape qualities	
Trees of high quality with a remaining estimated life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	
Category B		Trees with material conservation or other cultural value	
Trees of moderate quality with a remaining estimated life expectancy of at least 20 years	Trees that might be included in Category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such as they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	
Category C		Trees with no material conservation or other cultural value	
Trees of low quality with a remaining estimated life expectancy of at least 10 years, or younger trees with a stem diameter below 150mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	

Appendix B. - Schedule Key – BS5837

Age Class		
Young (Y) - A tree in the first quarter of its life span.		
Semi Mature (SM) - A tree in the latter stages of its first quarter, well established.		
Early Mature (EM) - A tree half way through its life span significant further growth potential.		
Mature (M) - A tree at or near its potential maximum size which is still growing vigorously in its third quarter of life span.		
Over Mature (OM) - A tree in decline in its final quarter of life span.		
Veteran (V) - A tree that by recognised criteria shows features of biological, cultural or aesthetic value that are characteristic of, but not exclusive to, individuals surviving beyond the typical age range for the species concerned.		
Physiological Condition (P)	Structural Condition (S)	
Good – Showing no adverse risk of failure/defects.	Good – No signs of decay or structural weakness.	
Fair – Showing minor signs of deterioration.	Fair – Minor defects not causing structural weakness.	
Poor – Unlikely to recover to a good condition.	Poor – severe decay in the main stem or branches/structurally weak.	
Dead		
Estimated Remaining Contribution	Bat Roost Potential (Not surveyed by Arboricultural team)	
<10 - Less than 10 years of normal life expectancy remaining.	Negligible – Saplings or semi-mature trees with a small girth. No ivy cover, loose bark, cracks or fissures.	
10+ - Between 10 and 20 years of normal life expectancy remaining.	Moderate – Small or semi-mature trees. May have small amounts of ivy present, stems of small diameter. Trees may have some loose bark but no obvious cracks, fissures or holes.	
20+ - Between 20 and 40 years of normal life expectancy remaining.	High – Trees with large crack, crevices or disused woodpecker holes that can provide refuge for bats. Trees may support dense ivy with multiple stems.	
40+ - Tree would normally expect to live for more than 40 more years.		



Appendix C. - Tree Survey Schedule (combined 2015 and 2016 data)

Root Protection Areas have been calculated using the formulae within British Standard 5837:2012

Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G1	Sycamore	7	150			Early mature	Dense group around boundary; surveyed from G6 location	10+	C2	1.8
H2	Hawthorn	2	75			Early mature	Field boundary hedge, gorse understory	20+	B1	0.9
G3	Hawthorn, rowan, pine	4	150			Early mature	4 x rowan; 2 x pine with shrubby hawthorn in-between main trees	10+	C2	1.8
H4	Fuchsia	2	75			Early mature	1.5m wide shrubby fuchsia growing as hedge	20+	B1	0.9
H5	Fuchsia	2	75			Early mature	1.5m wide shrubby fuchsia growing as hedge	20+	B1	0.9
T6	Sycamore	9	400			Early mature	Bifurcate at 1.5m; a few dead braches in top canopy; biased crown to north	10+	C1	4.8

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Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
T7	Common Ash	8	450			Early mature	Canopy to ground; vastly stunted and deformed by weather conditions; wounds from failed branches; crossing branches; small cavity in trunk	20+	B1	5.4
H8	Hawthorn, Elder	4	75			Early mature	4m wide; dense and shrubby form	10+	C1	0.9
H9	Hawthorn, Sycamore, Elder	4	75			Early mature	4m wide; dense; some tall slender form sycamore	10+	C1	0.9
H10	Hawthorn	4	75			Early mature	Predominantly gorse with one multi-stemmed hawthorn; 2m wide	10+	C1	0.9
H11	Cypress	3	80			Mature	(S) Fair. (P)Good. Maintained garden hedge, major dead wood?	20+	B2	1.0
T12	Common Ash	6	150			Early mature	Good form and condition; few crossing branches; potential to be a good specimen tree.	20+	B1	1.8

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Tree Survey Schedule (2015-16 combined) – Wylfa
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Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G13	Sycamore, Hawthorn	8	150			Early mature	Road track boundary group; multi-stemmed; crossing branches; some tight unions on sycamore	10+	C2	1.8
G14	Sycamore	10	200			Early mature	Multi-stemmed at base; growing against dry stone wall; crossing branches; good condition	20+	B2	2.4
G15	Leyland Cypress, sycamore	9	150			Early mature	Multi-stemmed; garden boundary group; linear feature of Leyland cypress	20+	B2	1.8
T16	Goat Willow	6		300, 250, 250		Mature	(S) Fair. (P) Good. Multi-stemmed at base. Private tree, unable to carry out full visual tree inspection.	20+	B1	5.6
H17	Hawthorn	2	80			Mature	(S) Fair. (P) Good. remnant of old field boundary.	10+	C2	1.0
G18	Hawthorn, Elder	4	100			Early mature	Linear boundary group, multi-stem, crossed stems and branches.	10+	C2	1.2
H19	Hawthorn	4	75			Early mature	field boundary hedge	10+	C2	0.9
T20	Hawthorn	2		80,75		Mature	(S) Fair. (P) Good. next to stone wall, multi-base.	10+	C1	1.3

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Tree Survey Schedule (2015-16 combined) – Wylfa
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Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
T21	Hawthorn	3		80, 80, 75		Mature	(S) Fair. (P) Good. multi-stem at 1.2m, next to stone wall.	10+	C2	1.6
T22	Hawthorn	2		110, 80,80		Mature	(S) Fair. (P) Good. multi-stem, next to stone wall.	10+	C2	1.9
T23	Hawthorn	2		130, 110		Mature	(S) Fair. (P) Good. multi-stem, next to stone wall.	10+	C2	2.0
T24	Hawthorn	3		310, 110		Mature	(S) Fair. (P) Good. multi-stem, next to stone wall.	10+	C2	3.9
T25	Hawthorn	3		80, 110		Mature	(S) Fair. (P) Good. multi-stem, next to stone wall.	10+	C2	1.6
H26	Hawthorn	4	75			Early mature	2m wide; field boundary hedge.	10+	C1	0.9
H27	Hawthorn	3	75			Early mature	1.5m wide; roadside hedgerow; multi-stemmed shrubby form; well maintained.	20+	B1	0.9
T28	Apple	3		110, 110		Early mature	(S) Fair. (P) Good. multi-stem.	10+	C1	1.9
T29	Sycamore	6	360			Mature	(S) Good. (P) Good. multi-stem, Dense undergrowth - preventing full visual tree assessment.	20+	B1	4.3

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Tree Survey Schedule (2015-16 combined) – Wylfa
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Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
T30	Sycamore	6	435			Mature	(S) Fair. (P) Good. Major deadwood in crown. Stem abutting boundary wall..	20+	B1	5.2
H31	Sycamore, Ash, Hawthorn	6	200			Early mature	(S) Fair. (P) Good. Trees forming boundary hedge.	20+	B2	2.4
T32	Sycamore	6	300			Early mature	(S) Fair. (P) Good. Crown suppressed by adjacent tree. Dense undergrowth preventing full visual tree inspection.	10+	C1	3.6
T33	Elm	16	755			Mature	(S) Fair. (P) Good. Major deadwood in crown.	20+	B1	9.1
T34	Sycamore	12	470			Mature	(S) Fair. (P) Good. Previously pruned back from building.	20+	B1	5.6
T35	Elm	5	210			Early mature	(S) Good. (P) Good. Tree suppressed by adjacent tree. Natural lean in stem towards north.	10+	C1	2.5
T36	Elm	6	335			Mature	(S) Fair. (P) Good. Epicormic growth on stem and branches.	10+	C1	4.0
T37	Sycamore	8	620			Mature	(S) Fair. (P) Good. Stem abutting boundary wall. Small cavity in stem at 2.5m.	20+	B1	7.4
G38	Sycamore, pine, ash	7	250			Early mature	(S) Fair. (P) Good. Understorey of hawthorn, gorse. Close planting spaces compromising form of trees.	20+	B2	3.0

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Tree Survey Schedule (2015-16 combined) – Wylfa
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Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G39	Sorbus spp.	4	75			Young	(S) . (P) . Single stemmed young planted trees; dense canopies.	10+	C2	0.9
G40	Sycamore	6	260			Early mature	(S) Good. (P) Good. No signs of ill health or significant structural defect.	20+	B1	3.1
T41	Sycamore	7	240			Early mature	(S) Good. (P) Good. No signs of ill health or significant structural defect.	20+	B1	2.9
G42	Sycamore	8	200			Mature	(S) Fair. (P) Good. Close planting compromising tree form.	20+	B2	2.4
T43	Sycamore	8	500			Mature	(S) Fair. (P) Good. Major deadwood in crown.	20+	B1	6.0
T44	Ash	16	640			Mature	(S) Fair. (P) Good. Major deadwood in upper crown.	20+	B1	7.7
T45	Sycamore	14		380, 300		Mature	(S) Fair. (P) Good. Twin stemmed at 1.5m. Major deadwood in upper crown.	20+	B1	5.8
G46	Sycamore, ash, elm, pine, holly	15	500			Mature	(S) Fair. (P) Good. Major deadwood in crown. Understorey of hawthorn	20+	B2	6.0
T47	Sycamore	16	400			Mature	(S) Fair. (P) Good. Major deadwood in upper crown.	20+	B1	4.8
T48	Sycamore	16	570			Mature	(S) Fair. (P) Good. Major deadwood in upper crown.	20+	B1	6.8

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G49	Sycamore	10	270			Mature	(S) Fair. (P) Good. Large cavity inn stem at 2m on west side with decay column from 1.5m to 2.5m. Not compromising structural integrity at present.	10+	C1	3.2
G50	Sycamore, common ash, wych elm	11	450			Early mature	22 sycamore, 6 ash and 4 elms; self set and coppiced sycamores; elms with suckering growth, ivy on some stems; moderate deadwood.	20+	B1,2	5.4
G51	Sycamore, hawthorn, privet, common ash, cosican pine, layland cypress, elder	11	350			Early mature	Dense group of trees; approx. 16 middle aged to mature sycamore with many young self set sycamore; shrubby hawthorn, elder and privet understorey; ivy on some trunks; poor form cypress	20+	B1,2	4.2
T52	Common ash	12	710			Mature	Bifurcate at 2.5m; holes and crevices in branches; moderate deadwood; wounds from failed branches.	20+	B1,2	8.5

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

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Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G63	Sycamore, ash, beech, white poplar	15	600			Mature	(S) Good. (P) Good. Major deadwood in upper crowns of sycamore trees.	20+	B2	7.2
T54	Holly	7	340			Early mature	(S) Good. (P) Good. No signs of ill health or significant structural defect.	20+	B2	4.1
T55	Horse chestnut	7	550			Early mature	(S) Fair. (P) Good. Previously crown lifted over field.	20+	B1	6.6
T56	Copper beech	10	670			Mature	(S) Good. (P) Good. No signs of ill health or significant structural defects.	40+	A1	8.0
T57	Holly	6	380			Mature	(S) Fair. (P) Good. Small cavity in stem at 2.5m on north side.	20+	B2	4.6
T58	Sycamore	15	665			Mature	(S) Fair. (P) Good. Previously crown lifted.	20+	B1	8.0
T59	Sycamore	7	395			Mature	(S) Fair. (P) Good. Previously crown lifted.	20+	B1	4.7
T60	Sycamore	5	175			Early mature	(S) Good. (P) Good. Natural sweep in stem at 1.5m.	20+	B1	2.1
T61	Silver birch	6	280			Early mature	(S) Fair. (P) Good. Twin stemmed at 1.8m.	20+	B1	3.4

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T62	Silver birch	5		125,120		Early mature	(S) Fair. (P) Poor. Twin stemmed at 1.2m. Witches broom in crown. Tree suppressed by adjacent tree. Epicormic growth on stem and branches.	<10	U	Nil
T63	Silver birch	5		130,120		Early mature	(S) Fair. (P) Fair. Twin stemmed at 0.5m. Crown suppressed by adjacent tree. Epicormic growth on stem.	10+	C1	2.1
T64	sycamore	8		380,355		Mature	(S) Fair. (P) Good. Twin stemmed at 1.2m.	20+	B1	6.2
G65	Alder, Sycamore	7	250			Early mature	(S) Fair. (P) Good. Close planting spaces compromising form of trees.	20+	B2	3.0
G66	Willow	18	500			Mature	(S) Fair. (P) Good. Major deadwood in crowns.	20+	B2	6.0
T67	Sycamore	5		300,280		Early mature	(S) Fair. (P) Good. Twin stemmed. Dense undergrowth preventing full visual tree inspection.	20+	B1	4.9
T68	Sycamore	7	385			Early mature	(S) Fair. (P) Good. Small cavity in stem at base on north west side. Natural lean in stem towards south.	10+	C1	4.6
T69	Pine	7	540			Mature	(S) Fair. (P) Good. Previously crown lifted. Major deadwood in crown.	20+	B1	6.5

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Tree Survey Schedule (2015-16 combined) – Wylfa
Newydd Development Area



Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
T70	Sycamore	6	430			Mature	(S) Fair. (P) Good. Natural sweep in stem at 1.5m. Major deadwood in crown.	20+	B1	5.2
T71	Pine	12	680			Mature	(S) Fair. (P) Good. Natural sweep in stem at 1.5m. Major deadwood in crown.	20+	B1	8.2
T72	Sycamore	5	285			Early mature	(S) Fair. (P) Good. Small cavity in stem at 1.5m Tree suppressed by adjacent tree.	10+	C1	3.4
T73	Pine	12	530			Mature	(S) Fair. (P) Good. Natural lean in stem towards south. Barbed wire occluded in to stem at 1m. Major deadwood in crown.	20+	B1	6.4
T74	Sycamore	4	210			Early mature	(S) Poor. (P) Fair. Wind swept tree. Decay column in stem from 1.5m to 2m.	10+	C1	2.5
T75	Pine	6	590			Mature	(S) Fair. (P) Good. Natural lean in stem towards south. Major deadwood in crown.	20+	B1	7.1
T76	Pine	8	355			Mature	(S) Fair. (P) Good. Natural lean in stem towards south. Major deadwood in crown.	20+	B1	4.3

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Tree Survey Schedule (2015-16 combined) – Wylfa
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T77	Pine	12	730			Mature	(S) Fair. (P) Good. Natural lean in stem towards south. Major deadwood in crown.	20+	B1	8.8
T78	Pine	12	390			Mature	(S) Fair. (P) Good. Natural lean in stem towards south. Major deadwood in crown.	20+	B1	4.7
T79	Pine	8	505			Mature	(S) Fair. (P) Good. Natural lean in stem towards south. Major deadwood in crown.	20+	B1	6.1
G80	Sycamore	5	400			Mature	(S) Fair. (P) Good. Major deadwood in crown.	20+	B1	4.8
T81	Sycamore	12		310, 290		Mature	(S) Fair. (P) Good. Barbed wire occluded in to stem at 1.5m. Major deadwood in crown.	20+	B1	5.1
T82	Sycamore	12	510			Mature	(S) Fair. (P) Good. Natural lean in stem towards south. Major deadwood in crown.	20+	B1	6.1
T83	Sycamore	6	360			Mature	(S) Fair. (P) Poor. Major deadwood in crown. 40% crown dieback.	<10	U	Nil

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Tree Survey Schedule (2015-16 combined) – Wylfa
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T84	Sycamore	10	680			Mature	(S) Fair. (P) Good. Acute lean in stem towards east. Stem abutting stone wall. Denser undergrowth preventing full visual tree inspection. Major deadwood in crown.	10+	C1	8.2
G85	Sycamore	7	350			Early mature	Both beginning to retrench; growing adjacent to wall	10+	C2	4.2
T86	Pine	14	380			Mature	(S) Fair. (P) Good. Major deadwood in crown.	20+	B1	4.6
T87	Pine	7	290			Mature	(S) Fair. (P) Good. Major deadwood in crown. 30% crown dieback.	<10	U	Nil
T88	Corsican pine	12	350			Early mature	Bifurcate at 7m; previous failure at 8m to south	10+	C1	4.2
T89	Corsican pine	9	300			Early mature	Only 2 small living branches to north and east	<10	U	Nil
T90	Sycamore	6		240, 230		Mature	(S) Fair. (P) Good. Twin stemmed at 1.4m.	20+	B1	4.0
T91	Apple	3		240,230		Mature	(S) Fair. (P) Good. Twin stemmed at 0.5m.	20+	B1	4.0
W92	Sycamore, white poplar, pine	10	300			Mature	(S) Fair. (P) Good. Close planting compromising tree form.	20+	B2	3.6

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Tree Survey Schedule (2015-16 combined) – Wylfa
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W93	Pine	18	300			Mature	(S) Poor. (P) Good. No understorey due to dense canopy cover. Close planting spaces compromising form of trees. Trees potential of wind throw along recently felled sections.	20+	B2	3.6
W94	Sycamore, ash	15	300			Early mature	(S) Good. (P) Good. Understorey of hawthorn, gorse. Close planting spaces compromising form of trees. Potential of wind throw along recently felled sections.	20+	B2	3.6
W95	stump	1	-			Dead	Sections of recently felled trees		U	Nil
W96	stump	1	-			Dead	Sections of recently felled trees		U	Nil
W97	stump	1	-			Dead	(S) . (P) . Sections of recently felled trees		U	Nil
G98	Pine	6	350						C2	4.2
G99	Pine	8	330						B2	4.0
T100	Pine	6	340						B1	4.1
G101	Pine	12	420						C2	5.0
H102	Cypress, pine	18	350						C2	4.2
G103	Willow	18	500			Mature	(S) poor. (P) Good. Large decay cavities in both trees at base.	<10	U	Nil

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Tree Survey Schedule (2015-16 combined) – Wylfa
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G104	Hawthorn, willow, Blackthorn	5	250			Mature	(S) fair. (P) Good. Dense undergrowth preventing full visual tree inspection.	20+	B	3.0
G105	Sycamore, apple palm	14	500			Early mature	Within walled garden; single stemmed; tall slender form sycamore; some with cavities at base; minor bark wounds; some with low growing canopies; shrubby hawthorn around outer edge; some growing up against wall	20+	B2	6.0
G106	Common Ash, sycamore, hawthorn	14	550			Early mature	Single stemmed; some leaning; 1 mature ash in good condition and form; small shrubby hawthorn; some young self set sycamore	20+	B2	6.6
G107	Sycamore, wych elm	12	600			Early mature	Single stemmed; many bifurcate; low growing canopies; some recently heavily pruned and left as habitat poles; suckering at base; poor form elm; failed main leader on elm	20+	B1,2	7.2

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

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Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G108	Sycamore, wych elm	13	450			Early mature	Single stemmed; many bifurcate; poor form elm with epicormic on trunk; some stems leaning north-east	20+	B1	5.4
T109	Corsican pine	14	1000			Mature	Bifurcate at 6m; wounds from previous branch removals; slight lean north-east; high canopy	20+	B1.2	12.0
G110	Sycamore, hawthorn, Turkey oak, corsican pine, wych elm	12	500			Early mature	Linear row along dry stone wall; some bifurcate; minor deadwood; shrubby hawthorn; low growing canopies; recent branch removal on some	20+	B1	6.0
T111	Corsican pine	14	790			Mature	Bifurcate at 5m; recent branch removal; high canopy; minor deadwood	10+	C2	9.5

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

JACOBS

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G112	Sycamore, malus spp, holly, wych elm, elder, palm, rowan, common ash, white poplar	10	600			Early mature	Multi-stemmed; some growing against wall; minor deadwood; sycamore suckering at base	20+	B1.2	7.2
T113	Common ash	10	790			Mature	Growing in wall; bark wounds; bifurcate at base; branches previously reduced; moderate deadwood; few crossing branches	20+	B1.2	9.5
T114	Common ash	8	550			Early mature	Large bark wounds to west side at 1.5m; branches failed to west; decay in stems; crossing branches; wounds from rubbing branches; moderate deadwood; epicormic on trunk to south and east; splits in branches; asymmetric crown	10+	C1	6.6

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Tree Survey Schedule (2015-16 combined) – Wylfa
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W115	Pine	13	370			Mature	Close planting compromising tree form.	20+	B2	4.4
G116	Silver birch, pine, rowan	2.5	75			Young	(S) Good. (P) Good. Newly planted trees.	10+	C2	0.9
G117	Sycamore	6	380			Mature	(S) Good. (P) Good. Close planting compromising tree form.	20+	B2	4.6
T118	Sycamore	7		365, 270		Mature	(S) Fair. (P) Good. Low crown over road.	20+	B1	5.4
G119	Pine	13	350			Mature	(S) Fair. (P) Good. Close planting compromising tree form.	20+	B2	4.2
G120	Maritime pine, sycamore, elder	14	450			Early mature	Some dieback or northern most tree; surveyed from Pennant (*on drawing) reasonable form	10+	C2	5.4
H121	Goat willow, hawthorn		75			Early mature	4m wide; outgrown hawthorn trees	10+	C1	0.9
G122	Maritime pine	14	300			Early mature	Dense group, surveyed from Pennant (*on drawing) good form	20+	B2	3.6

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Tree Survey Schedule (2015-16 combined) – Wylfa
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H123	Cank willow, hawthorn, elder	4	75			Early mature	5m wide; grown out and sporadic hedge; dense	10+	C1	0.9
H124	Hawthorn, gorse	1	75			Early mature	1.5m wide; one hawthorn outgrown to 2m	20+	B1	0.9
H125	Hawthorn, elder	1	75			Early mature	2m wide; mainly gorse with a couple of multi-stemmed hawthorn; dry stone wall	20+	B1	0.9
H126	Fuchsia, juniper, buddleia, guelder rose, silver fir, privet, dog rose	2	75			Early Mature	2.5m wide	10+	C1	0.9
T127	Cherry spp.	6	135			Early mature	Multi-stemmed at base; growing in dense vegetation; crossing branches; minor bark wounds	10+	C1	1.6

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

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H128	Hawthorn, dog rose, sea buckthorn	2	75			Early mature	1.5m wide; dry stone wall within	20+	B1	0.9
H129	Hawthorn	2	75			Early mature	2m wide; multi-stemmed shrubby hawthorn	20+	B1	0.9
H130	Hawthorn, sycamore	5	75			Early mature	4m wide; multi-stemmed shrubby trees; dense	10+	C1	0.9
H131	Hawthorn, goat willow	4	75			Early mature	5m wide; outgrown hedge	10+	C1	0.9
T132	Sycamore	5	193			Early mature	Multi-stemmed at base; growing on side of road in vegetation; crossing stems and branches	10+	C1	2.3
G133	Sycamore, hawthorn	10	350			Early mature	All sycamore multi-stemmed, precluded from growing over road by neighbouring group	10+	C2	4.2

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

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G134	Sycamore, wych elm, cypress, common ash	10	350			Early mature	Mainly single stemmed sycamore; dieback in top canopy of sycamore; bifurcate, cypress almost dead with only small canopies remaining at top; young low growing elm	10+	C2	4.2
G135	Sycamore, common ash	10	350			Early mature	Single and multi-stemmed sycamore; dieback in top canopies; suckering at base on some; ash in decline; dry stone wall running through group	10+	C2	4.2
G136	Hawthorn, sycamore, crack willow, sessile oak, bullace	9	150			Early mature	Small group of mixed vitality; poor condition oak with dieback in canopy; dieback in top canopy of willow; dense shrubby bullace	10+	C2	1.8
T137	Sycamore	8	282			Early mature	Bifurcate at base; stems fused together; retrenching; moderate deadwood	10+	C2	3.4

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Tree Survey Schedule (2015-16 combined) – Wylfa
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H138	Hawthorn, gorse	2	75			Early mature	Mainly gorse with multi-stemmed shrubby hawthorn at various spacing s; 2m wide; busier to northern end	20+	B1	0.9
H139	Hawthorn, sycamore	5	75			Early mature	4m wide; multi-stemmed shrubby trees; dense	20+	B1	0.9
T140	Scots pine	8	230			Early mature	(S) Fair. (P) Good. One sided crown. Dense undergrowth preventing full visual tree inspection.	10+	C1	2.8
T141	Sycamore	6	600			Mature	(S) Fair. (P) Good. Major deadwood in crown. Dense undergrowth preventing full visual tree inspection.	20+	B1	7.2
T142	Scots pine	8	200			Early mature	(S) Fair. (P) Good. One sided crown. Dense undergrowth preventing full visual tree inspection.	10+	C1	2.4
T143	Sycamore	9	620			Mature	(S) Fair. (P) Good. Dense undergrowth preventing full visual tree inspection.	20+	B1	7.4

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Tree Survey Schedule (2015-16 combined) – Wylfa
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T144	Sycamore	7		280, 220, 110		Mature	(S) Fair. (P) Good. Multi-stemmed at base.	20+	B1	4.5
T145	Ash	13	775			Mature	(S) Fair. (P) Good. Major deadwood in crown.	20+	B1	9.3
T146	Sycamore	4	165			Early mature	(S) fair. (P) Good. Crown suppressed by adjacent tree.	10+	C1	2.0
W147	Sycamore, Ash, horse chestnut	16	350			Mature	(S) Good. (P) Good. Understory of hawthorn. Major deadwood in upper crowns of sycamore trees. Close planting spaces compromising form of trees.	20+	B2	4.2
H148	Cypress	7	200			Mature	(S) Good. (P) Good. Unmaintained boundary hedge.	20+	B1	2.0
H149	Cypress, Sycamore	8	300			Mature	(S) Good. (P) Good. Unmaintained boundary hedge.	20+	B1	3.6
H150	Blackthorn, Gorse	3	100			Mature	(S) Good. (P) Good. Unmaintained field boundary hedge.	20+	B1	1.2
T151	Sycamore	12		550, 500		Mature	(S) Good. (P) Good. Twin stemmed at base. Major deadwood in crown. Dense undergrowth preventing full visual tree inspection.	20+	B1	4.2

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Tree Survey Schedule (2015-16 combined) – Wylfa
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T152	Sycamore	8	680			Mature	(S) fair. (P) Good. Dense undergrowth preventing full visual tree inspection.	20+	B1	8.2
G153	Sycamore, Hawthorn	4	250			Early mature	(S) fair. (P) Good. Dense undergrowth preventing full visual tree inspection.	20+	B2	3.0
H154	Hawthorn	2	75			Early mature	1.5m wide; roadside hedge	20+	B1	2.4
H155	Hawthorn	2	75			Early mature	1.5m wide; roadside hedge	20+	B1	3.6
G156	Sycamore, Hawthorn	6	300			Early mature	(S) Fair. (P) Good. Overhead utility cables running through crowns.	20+	B2	1.2
G157	Hawthorn	6	300			Early mature	(S) Fair. (P) Good. Trees forming field boundary hedge.	20+	B2	3.6
G158	Sycamore	7	315			Early mature	(S) Fair. (P) Good. Middle tree of group suppressed by adjacent trees.	20+	B2	8.2
T159	Sycamore	7	385			Early mature	(S) Fair. (P) Good. Small decay cavity at base and 1.5m. Natural sweep in stem at base.	10+	C1	3.0
H160	Hawthorn	4	150			Early mature	(S) Fair. (P) Good. Unmaintained boundary hedge.	20+	B2	0.9

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T161	Sycamore	12		550, 420, 210		Mature	(S) Fair. (P) Good. Multi-stemmed at 1.3m.	20+	B1	0.9
T162	Sycamore	12	700			Mature	(S) Fair. (P) Good. Dense undergrowth preventing full visual tree inspection.	20+	B1	3.6
T163	Sycamore	5	425			Mature	(S) Fair. (P) Good. Large cavity at 1.5m. Suppressed by adjacent trees.	10+	C1	3.6
T164	Sycamore	12	655			Mature	(S) Fair. (P) Good. Major deadwood in crown.	20+	B1	3.8
H165	Cypress	4	150			Early mature	(S) Fair. (P) Good. Unmaintained garden hedge.	20+	B2	4.6
T166	Sycamore	9	550			Mature	(S) Fair. (P) Good. Dense undergrowth preventing full visual tree inspection.	20+	B1	1.8
G167	Sycamore	10	550			Mature	(S) Fair. (P) Good. Natural sweep in stems at base.	20+	B2	6.6
T168	Sycamore	7	470			Mature	(S) Poor. (P) Poor. Large decay cavity at base. Small cavity at 2.5m. Major deadwood in crown.	<10	U	Nil

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T169	Sycamore	8	720			Mature	(S) Fair. (P) Good. Tree late into leaf. Small cavity at 2m.	10+	C1	5.1
T170	Elder	3	90			Early mature	(S) Poor. (P) Poor. 40% crown dieback.	<10	U	Nil
T171	Sycamore	6	760			Mature	(S)Poor. (P) Fair. Large decay cavity at base. 2 large tear out wounds at 2m with small cavities.	<10	U	Nil
T172	Sycamore	8		510, 220		Mature	(S) Fair. (P) Good. Twin stemmed at 1.4m. Major deadwood in crown.	20+	B1	6.6
T173	Sycamore	10		555, 370		Mature	(S) Fair. (P) Good. Twin stemmed at 1.4m.	20+	B1	6.6
T174	Sycamore	7		335, 315		Mature	(S) Fair. (P) Good. Twin stemmed at 1.4m.	20+	B1	5.6
T175	Sycamore	7		310, 140		Mature	(S) Fair. (P) Good. Twin stemmed at 1.4m. Crown suppressed by adjacent trees	10+	C1	8.6
T176	Cherry	2.5	260			Middle Aged	(S) Fair. (P) Good. Ornamental tree with poor graft union at 1.4m.	10+	C1	1.1

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G177	Hawthorn, holly, cypress	3	150			Middle aged	(S) Fair. (P) Fair. Dense undergrowth preventing full visual tree inspection. Sparse crown on holly tree on south west side.	10+	C2	9.1
T178		2.5	150			Dead	(S) Fair. (P) Dead. Dead monolith.	<10	U	Nil
T179	Rowan	3.5	150			Young	(S) Fair. (P) Fair. Sparse crown on west side.	10+	C1	1.8
T180	Sycamore	5	185			Young	(S) Fair. (P) Good. Natural sweep in stem at base.	20+	B2	2.2
T181	Poplar	3		195, 185		Early mature	(S) Fair. (P) Good. Previously reduced 2m. Twin stemmed at 1m.	10+	C1	3.2
T182	Sycamore	10	650			Mature	(S) Fair. (P) Good. Crown touching building. Twin stemmed at 1.7m.	20+	B1	7.8
G183	Sycamore x 2	7	400			Mature	(S) Fair. (P) Good. Trees forming boundary hedge.	20+	B2	4.8
T184	Sycamore	7		620, 250, 100		Mature	(S) Fair. (P) Good. Multi-stemmed at base. Dense undergrowth preventing full visual inspection.	20+	B1	8.1
H185	Hawthorn, sycamore	3	100			Early mature	(S) Fair. (P) Good. Trees forming boundary hedge.	20+	B2	1.2

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H186	Hawthorn, sycamore, elder	3	100			Early mature	(S) Fair. (P) Good. Trees forming boundary hedge.	20+	B2	1.2
T187	Sycamore	8	630			Mature	(S) Fair. (P) Good. Sparse upper crown. Major deadwood in crown.	10+	C1	7.6
G188	Elm x 2, hawthorn x 2	5	250			Early mature	(S) Fair. (P) Good. Dense undergrowth preventing full visual tree inspection.	20+	B2	3.0
T189	Ash	7	750			Mature	(S) Fair. (P) Good. Wind swept tree. Dense ivy and undergrowth preventing full visual tree inspection.	10+	C1	9.0
G190	Hawthorn	2	100			Early mature	Shrubby boundary trees. Multi-stemmed with crossing branches.		C2	1.2
T191	Hawthorn	3	100			Early mature	Multi-stemmed at base, stems lean east, biased canopy east, poor form.		C1	1.2
H192	Hawthorn	3	100			Early mature	3m wide, poor overgrown hedgerow with dry stone wall, leaning stems, crossing stems, some decay.		C1	1.2
H193	Hawthorn	2	100			Early mature	Sporadic hedge abd dry stone wall, 2m wide.		C1	1.2
H194	Hawthorn	2	100			Mature	(S) Fair. (P) Good. Maintained boundary hedge.	20+	B2	1.2

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Tree Survey Schedule (2015-16 combined) – Wylfa
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Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G195	Sycamore x 26, ash x 5, alder x 1	12	600			Mature	(S) Fair. (P) Good. Group following water course. Major deadwood in sycamore trees.	20+	B2	7.2
T196	Sycamore	5	485			Mature	(S) Fair. (P) Good. Ivy on stem hiding any possible defects.	20+	B1	5.8
T197	Sycamore	5		210, 170		Early mature	(S) Fair. (P) Good. Twin stemmed at 1.5m.	20+	B1	3.2
T198	Sycamore	5	565			Mature	(S) Fair. (P) Good. Ivy on stem hiding any possible defects.	20+	B1	6.8
T199	Sycamore	8	410			Mature	(S) Fair. (P) Fair. Large pruning wound at 1.5m on north side (flush cut), poor occlusion. Crown suppressed on west side by adjacent trees.	10+	C1	4.9
T200	Sycamore	10	485			Mature	(S) Fair. (P) Good. Previously crown lifted. Stem abutting boundary wall.	20+	B1	5.8
T201	Horse chestnut	10	760			Mature	(S) Fair. (P) Good. Major deadwood in crown with woodpecker hole at 4m. Snapped hung up branch at 4m. Ivy on stem hiding any possible defects	10+	C1	9.1
G202	Sycamore x 16, horse chestnut x 1	10	450			Mature	(S) Fair. (P) Good. Major deadwood in sycamore trees.	20+	B1	5.4

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Tree Survey Schedule (2015-16 combined) – Wylfa
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T203	Sycamore	7	260			Early mature	(S) Fair. (P) Good. Natural sweep in stem at 1.6m. One sided crown.	10+	C1	3.1
T204	Sycamore	7	280			Early mature	(S) Fair. (P) Good. Natural sweep in stem at 1.6m. One sided crown.	10+	C1	3.4
T205	Sycamore	3.5	360			Early mature	(S) Fair. (P) Good. Previously monolithed at 3m.	10+	C1	4.3
T206	Sycamore	7	310			Mature	(S) Fair. (P) Good. Previously crown lifted.	20+	B1	3.7
T207	Beech	13		425, 400, 270		Mature	(S) Fair. (P) Good. Multi-stemmed at 1.5m. Large burr on stem at 1m. Crown suppressed on west side by adjacent trees.	10+	C1	7.7
T208	Sycamore	12	280			Early mature	(S) Fair. (P) Good. Previously crown lifted. Natural sweep in stem at 1.5m.	20+	B1	3.4
T209	Sycamore	10	310			Early mature	(S) Fair. (P) Good. Previously crown lifted. Natural sweep in stem at 1.5m and 2.5m.	20+	B1	3.7
T210	Oak	3	310			Early mature	(S) Fair. (P) Good. Main stem leader topped at 3m.	10+	C1	3.7
T211	Whitebeam	3	320			Mature	(S) Fair. (P) Good. Main stem leader topped at 3m. Natural sweep in stem at 1m.	10+	C1	3.8
T212	Cherry	4	275			Early mature	(S) Fair. (P) Good. Previously crown lifted.	20+	B1	3.3

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T213	Horse chestnut	3	305			Early mature	(S) Fair. (P) Good. Previously pollarded at 2.5m.	10+	C1	3.7
T214	Horse chestnut	4	320			Early mature	(S) Fair. (P) Good. Small cavity at 2m on north side. Dense undergrowth preventing full visual inspection.	10+	C1	3.8
T215	Sycamore	8	260			Early mature	(S) Fair. (P) Good. Previously crown lifted.	20+	B1	3.1
T216	Sycamore	7	250			Early mature	(S) Fair. (P) Good. Previously crown lifted. Stem abutting boundary wall.	20+	B1	3.0
T217	Sycamore	7	240			Early mature	(S) Fair. (P) Good. Previously crown lifted. Stem abutting boundary wall.	20+	B1	2.9
T218	Hawthorn	3	325			Mature	(S) Fair. (P) Good. Previously crown lifted.	20+	B1	3.9
T219	Ash	8		395, 185		Mature	(S) Fair. (P) Good. Twin stemmed at 1.5m. Ivy on stem and branches hiding any possible defects. Crown suppressed on west side by adjacent trees.	10+	C1	5.2
T220	Ash	10	570			Mature	(S) Fair. (P) Good. Previously crown lifted. Compost build up around base of tree. Stem abutting boundary wall.	20+	B1	6.8
T221	Pine	13	335			Mature	(S) Fair. (P) Good.M inor bark damage at base and 1m with exposed wood.	20+	B1	4.0

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

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T222	Pine	16	540			Mature	(S) Fair. (P) Good. Major deadwood in crown.	20+	B1	6.5
T223	Pine	16	600			Mature	(S) Fair. (P) Good. Major deadwood in crown.	20+	B1	7.2
T224	Sycamore	4	395			Mature	(S) Fair. (P) Good. Previously pollarded at 2.5m.	10+	C1	4.7
T225	Ash	12	460			Mature	(S) Fair. (P) Fair. Small cavities at 2m & 2.5m. Bacterial cankers on stem and branches.	10+	C1	5.5
T226	Elder	2.5		75, 75, 50		Young	(S) Fair. (P) Good. Multi-stemmed at base.	10+	C1	1.4
T227	Sycamore	6	350			Early mature	(S) Fair. (P) Good. Natural sweep in stem at 1m.	20+	B1	4.2
T228	Apple	3		80, 80, 75		Mature	(S) Poor. (P) Fair. Large decay cavity at base.	<10	U	Nil
T229	Apple	2.5	120			Mature	(S) Fair. (P) Good. Acute lean in stem towards east.	10+	C1	1.4
G230	Sycamore x 1, ash x 1	4	150			Early mature	(S) Fair. (P) Good. Dense undergrowth preventing full visual tree inspection.	20+	B2	1.8
T231	Unknown	3		100, 80		Dead	(S) Poor. (P) Dead. Dead tree.	<10	U	Nil
G232	Sycamore x 2	7	320			Early mature	(S) Fair. (P) Good. Previously pruned away from overhead utility cables. Ivy on stems hiding any possible defects.	20+	B2	3.8

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T233	Beech	13	665			Mature	(S) Fair. (P) Good. Major deadwood in crown.	20+	B1	8.0
G234	Sycamore x 15, ash x 2, hawthorn x 1	8	200			Early mature	(S) Fair. (P) Good. Previously pruned away from overhead utility cables. Ivy on stems hiding any possible defects.	20+	B2	2.4
T235	Ash	2		200, 170		Early mature	(S) Fair. (P) Good. Twin stemmed at base.	20+	B1	3.1
G236	Sycamore x 4, ash x 2, hawthorn x 1	3	600			Mature	(S) Fair. (P) Good. Livestock in fields preventing full visual tree inspection. Tree surveyed from nearest safe vantage point.	20+	B2	7.2
T237	Hawthorn	3	250			Early mature	(S) Fair. (P) Good. Livestock in fields preventing full visual tree inspection. Tree surveyed from nearest safe vantage point.	20+	B1	3.0
T238	Hawthorn	3	150			Early mature	(S) Fair. (P) Good. Livestock in fields preventing full visual tree inspection. Tree surveyed from nearest safe vantage point.	20+	B1	1.8
T239	Pine	3	150			Early mature	(S) Fair. (P) Good. Livestock in fields preventing full visual tree inspection. Tree surveyed from nearest safe vantage point.	20+	B1	1.8

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Tree Survey Schedule (2015-16 combined) – Wylfa
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G240	Cypress x 7, eucalyptus x 3, pine x 1, cabbage palm x 1, hawthorn x 1	4	200			Mature	(S) Fair. (P) Good. Ornamental trees forming group. Close planting comprising tree form.	20+	B2	2.4
G241	Pine	12	400			Mature	(S) Fair. (P) Fair.	20+	B2	4.8
W242	Mixed conifer species, pinus spp., sycamore	10	350			Mature	(S) Good. (P) Good.	20+	B2	4.2
G243	Birch, pine, ash, hazel, sycamore	6	75			Young	(S) Good. (P) Good.	10+	C2	0.9
W244	Mixed conifer and ornamental species, pinus spp., lime, ash	12	400			Mature	(S) Good. (P) Good.	20+	B2	4.8
G245	Hawthorn, maritime pine	4	100			Mature	(S) Good. (P) Good. Unmaintained boundary group, bramble, bracken and gorse understorey.	10+	C2	1.2

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T246	Maritime pine	6		180, 180		Early mature	(S) Good. (P) Good. Unable to access fully assess, multi stem.	10+	C2	3.1
T247	Sycamore	6		200, 150		Early mature	(S) Good. (P) Good. Unable to access fully assess, multi stem.	10+	C2	3.0
G248	Elder	3	130			Early mature	(S) Fair. (P) Good. Jews ear on minor deadwood, some small wounds and occluding cavities	10+	C2	1.6
T249	Maritime pine	8	300			Early mature	(S) Fair. (P) Fair. Minor detail, crown thinning, next to steep slope down to beach, wounds on stem, past limb tear outs.	10+	C2	3.6
G250	Hawthorn	4	240			Mature	(S) Poor. (P) Poor. Moderate dieback and deadwood, past limb tear outs, field boundary group.	<10	U	Nil
G251	Hawthorn, goat willow	6	280			Mature	(S) Fair. (P) Good. Minor deadwood, field boundary group, ivy on some stems.	10+	C2	3.4
G252	Goat willow	6	150			Early mature	(S) Good. (P) Good. Field boundary group, bramble understorey.	10+	C2	1.8

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

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G253	Goat willow, hawthorn, elder	7	150			Mature	(S) Good. (P) Good. Field boundary group, unmaintained, on marshland next to ditch, minor deadwood.	10+	C2	1.8
G254	Hawthorn, elder x 1	4	230			Mature	(S) Fair. (P) Fair. Minor to moderate deadwood and minor dieback, past limb tear outs, field boundary group next to small stone wall.	10+	C2	2.8
G255	Hawthorn	2	120			Mature	(S) Good. (P) Fair. Minor dieback at the canopy tops, next to stone wall.	10+	C2	1.4
T256	Elder	3	120			Mature	(S) Good. (P) Good. Overgrown tree with ivy, gorse and bramble understorey, next to ditch at field boundary.	10+	C2	1.4
G257	Hawthorn x 1, goat willow x 2	4	240			Mature	(S) Fair. (P) Poor. Willow has moderate dieback and deadwood, hawthorn overgrown with ivy, unmaintained field boundary group next to ditch.	<10	U	Nil

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G258	Hawthorn, goat willow, elder	6	200			Mature	(S) Good. (P) Good. Unmaintained field boundary group next to marsh land, unable to access to fully assess.	10+	C2	2.4
G259	Stone pine, Douglas fir, common larch, hawthorn	8	350			Early mature	(S) Fair. (P) Good. Unable to access area to fully assess, fallen trees within group, past limb tear outs and stem snapping, unmaintained field boundary group, bramble understorey, remaining trees have minor deadwood.	10+	C2,3	4.2
T260	Hawthorn	3	150			Mature	(S) Good. (P) Fair. Minor dieback at top of canopy	10+	C2	1.8
G261	Blackthorn, hawthorn	3	150			Mature	(S) Good. (P) Good. Minor deadwood, bramble and gorse understorey, roadside group at field boundary, unmaintained.	10+	C2	1.8
G262	Hawthorn, elder, blackthorn	5	120			Mature	(S) Good. (P) Good. Unmaintained field boundary group with bramble and gorse understorey.	10+	C2	1.4
G263	Hawthorn, blackthorn	3	150			Mature	(S) Good. (P) Good. Unmaintained field boundary group with bramble and gorse understorey.	10+	C2	1.8

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G275	Hawthorn x 2	5	150			Mature	(S) Poor. (P) Poor. 1 dead and 1 has major dieback and deadwood, ivy covering set and canopy preventing full Visual tree assessment.	<10	U	Nil
G276	Hawthorn, blackthorn	7	180			Mature	(S) Fair. (P) Fair. Moderate to major dieback and minor to moderate deadwood, field boundary group, occluding wounds on stems.	10+	C2	2.2
G277	Sycamore x 3, hawthorn x 1	9	420			Mature	(S) Fair. (P) Good. Hawthorn has major dieback and deadwood for tree size, sycamores have moderate deadwood. Barbed wire fence occluding into stem of smallest sycamore, minor past limb tear outs, occluding wounds and cavities.	10+	C2	5.0
G278	Hawthorn, blackthorn	4	120			Mature	(S) Good. (P) Fair. Minor dieback and deadwood, field boundary group, gorse and bramble incorporated in group.	10+	C2	1.4
T279	Hawthorn	2	100			Mature	(S) Good. (P) Good. On field boundary.	10+	C2	1.2

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T280	Hawthorn	3	120			Mature	(S) Poor. (P) Fair. On field boundary, moderate dieback and deadwood for tree size.	<10	U	Nil
T281	Hawthorn	2	100			Mature	(S) Fair. (P) Fair. Windswept tree that grows to the east due to a north westerly prevailing wind, minor dieback in canopy.	10+	C2	1.2
T282	Ash	8	350			Mature	(S) Good. (P) Fair. Asymmetrical canopy, minor dieback and deadwood. Private garden tree preventing further inspection.	10+	C2	4.2
G283	Hawthorn	3	120			Mature	(S) Good. (P) Good. Hawthorns growing under canopy of G40, private garden group preventing full Visual tree assessment.	10+	C2	1.4
G284	Sycamore	12	210			Mature	(S) Good. (P) Good. Minor regeneration of sycamore under G40 canopy, minor occluded wounds from previous pruning, private garden group preventing full Visual tree assessment.	20+	B2	2.5

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T285	Ash	13		420, 200		Mature	(S) Good. (P) Good. Slight lean to south east, multi stem, minor dieback at top of canopy, private garden tree preventing full Visual tree assessment.	20+	B2	5.6
T286	Sycamore	15		500, 250, 400, 320		Mature	(S) Good. (P) Good. Large multi stem, minor deadwood, good form, private garden tree preventing full Visual tree assessment.	20+	B1.2	9.1
G287	Ash x 2, sycamore x 1	12	410			Mature	(S) Good. (P) Fair. Minor deadwood and minor dieback in group, group next to telegraph pole and wires, ivy covered stem of largest ash, private garden group preventing full Visual tree assessment.	20+	B2	4.9
H288	Hawthorn, blackthorn	3	100			Mature	(S) Good. (P) Good. Lapsed field boundary hedge.	10+	C2	1.2
G289	Hawthorn	3	100			Mature	(S) Fair. (P) Fair. Minor deadwood and moderate dieback.	10+	C2	1.2
G290	Blackthorn, damson	6	100			Mature	(S) Fair. (P) Fair. Small patch of dead in group.	10+	C2	1.2

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G291	Hawthorn, elder	4	120			Mature	(S) Good. (P) Fair. Minor dieback, field boundary group, patches of gorse and bramble in group.	10+	C2	1.4
G292	Goat willow	8	200			Mature	(S) Good. (P) Good. Unable to access due to undergrowth, no full Visual tree assessment carried out.	10+	C2	2.4
T293	Hawthorn	3	100			Mature	(S) Good. (P) Good. Unable to access due to undergrowth, no full Visual tree assessment carried out.	10+	C2	1.2
G294	Goat willow, hawthorn, elder	6	220			Mature	(S) Good. (P) Fair. Minor dieback and deadwood, bramble and bracken understorey.	10+	C2	2.6
G295	Elder, hawthorn, damson	6	120			Mature	(S) Good. (P) Good. Patches of bramble and gorse in group, power pole and wires in group x 2.	10+	C2	1.4
G296	Hawthorn, elder	6	130			Mature	(S) Good. (P) Good. Patches of gorse, bramble and ivy in group, next to lay-by.	10+	C2	1.6

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G297	Hawthorn, blackthorn	2	90			Mature	(S) Good. (P) Good. Patches of gorse, bramble, wildflower in group, field boundary group on bund.	10+	C2	1.1
T298	Hawthorn	2	100			Mature	(S) Fair. (P) Good. Minor deadwood.	10+	C2	1.2
G299	Hawthorn	4	100			Mature	(S) Fair. (P) Fair. Minor dieback, moderate dead wood, field boundary group, bramble and wild flower understory	10+	C2	1.2
T300	Goat willow	10			200 x 4, 250 x 4	Mature	(S) Good. (P) Good. Large multi stem, minor past limb tear outs, minor dead wood, unable to access due to under growth preventing full Visual tree assessment	20+	B2	7.6
G301	Hawthorn	4	85			Mature	(S) Good. (P) Fair. Minor deadwood.	10+	C2	1.0
G302	Goat willow, elder, hawthorn	7	200			Mature	(S) Good. (P) Fair. Wild flower and gorse understory, small patch of dead, power line s running over group.	10+	C2	2.4

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G303	Elder, hawthorn,	6	100			Mature	(S) Good. (P) Fair. Minor deadwood at canopy tops and power line, group over grown with ivy, wild flower, bracken and bramble understory.	10+	C2	1.2
G304	Hawthorn, goat willow, elder, white poplar, prunus spp.	11	250			Mature	(S) Good. (P) Fair. Limited access due to fencing and Japanese knot weed, minor dieback in tops and crown.	10+	C2	3.0
G305	Hawthorn	5	180			Mature	(S) Fair. (P) Fair. Moderate deadwood, minor die back, ivy covering gorse understory, over grown wall in places.	10+	C2	2.2
T306	Sycamore	11		170, 290,25 0		Mature	(S) Good. (P) Good. Epicormics growth, some ivy on stem.	20+	B2	5.0
G307	Hawthorn	4	150			Mature	(S) Good. (P) Fair. Some past limb tear out on largest, some minor deadwood and die back.	10+	C2	1.8

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G308	Elder	4	120			Mature	(S) Good. (P) Good. Understory of wild flowers , surrounded by goose.	10+	C2	1.4
G309	Elder	6			220,90 ,120,1 30,100 ,190,1 10,110	Over mature	(S) Fair. (P) Fair. Moderate deadwood, minor die back, past limb tear outs.	10+	C2	4.5
G310	Elder, hawthorn	8		340,29 0,290		Mature	(S) Fair. (P) Good. Moderate dead wood, past level my tear outs, ivy covering stems and Canopies.	10+	C2	6.4
T311	Hawthorn	8		110,23 0,130, 320		Over mature	(S) Good. (P) Good. Thick ivy preventing full Visual tree assessment	10+	C2	5.2
G312	Hawthorn	6		180,19 0		Mature	(S) Good. (P) Good. Small amount of ivy on stem and in canopy, small amount of deadwood.	10+	C2	3.1
T313	Sycamore	6	75			Early mature	(S) Good. (P) Good. Minor regeneration at base	10+	C2	0.9
T314	Sycamore	12	470			Mature	(S) Good. (P) Good. Ivy on stem, minor dead wood, good form	20+	B1.2	5.6

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Tree Survey Schedule (2015-16 combined) – Wylfa
Newydd Development Area



Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
T315	Sycamore	12	380			Mature	(S) Good. (P) Good. Minor regeneration at base, suppressed on west due to T16 minor ivy on stem	20+	B1.2	4.6
T316	Goat willow	7			120X6	Mature	(S) Fair. (P) Good. Unable to access due to undergrowth and ditch, multi stem minor dead wood	10+	C2	3.5
T317	Ash	10		280, 210, 190		Mature	(S) Good. (P) Good. Unable to access due to terrain, gates, undergrowth preventing full Visual tree assessment	10+	C2	4.8
G318	Hawthorn	3	100			Mature	(S) Good. (P) Fair. Minor die back at tops, telegraph pole in group, small stream next to group, over grown wall	10+	C2	1.2
G319	Sycamore, ash	8	550			Mature	(S) Fair. (P) Fair. Trees topped, and pruned heavily, on bund/stone wall, private garden group preventing full Visual tree assessment	10+	C2	6.6
G320	Sycamore	6	240			Early mature	(S) Good. (P) Good. Private garden group preventing full Visual tree assessment	10+	C2	2.9

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

JACOBS

Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G321	Blackthorn, hawthorn, elder	4	100			Mature	(S) Good. (P) Fair. Over grown stone wall boundary, minor die back at top of canopy, small patch of dead, patches of gorse, some areas over grown with bramble	10+	C2	1.2
T322	Ash	6	120			Early mature	(S) Good. (P) Good. Within G23 near fence	10+	C2	1.4
H323	Hawthorn	4	100			Mature	(S) Good. (P) Fair. Small amount of die back at top	10+	C2	1.2
G324	Corsican pine	12	450			Mature	(S) Fair. (P) Good. Some occluded pruning wounds, moderate dead wood, within private garden group preventing full Visual tree assessment	20+	B2	5.4
G325	Prunus spp., holly, rowan, oak	6	200			Mature	(S) Good. (P) Fair. Minor die back at tops of Canopus, private garden group preventing full Visual tree assessment	10+	C2	2.4
T326	Hawthorn	3	100			Mature	(S) Good. (P) Fair. Minor die back at top of canopy, next to/within stone wall	10+	C2	1.2

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

JACOBS

Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G327	Hawthorn	4	120			Mature	(S) Good. (P) Good. Next to dry stone wall, ivy on stems, roadside group	10+	C2	1.4
T328	Elder	4	120			Mature	(S) Good. (P) Good. Growing in/ on dry stone wall, understorey of bramble and blackthorn	10+	C2	1.4
G329	Hawthorn, blackthorn	4	100			Mature	(S) Good. (P) Good. Next to stone wall, over grown with bramble and ivy, patches of gorse next to ditch	10+	C2	1.2
T330	Hawthorn	1	75			Mature	(S) Good. (P) Good. Between stone wall and fence	10+	C2	0.9
G331	Hawthorn, elder	3	120			Mature	(S) Good. (P) Good. Some trees growing in Alan easterly direction due to prevailing wind	10+	C2	1.4
G332	Hawthorn	5	100			Mature	(S) Good. (P) Fair. Minor dieback in canopy s, next to ditch, gorse, bramble wildflower understorey	10+	C2	1.2
G333	Hawthorn, elder	6	130			Mature	(S) Good. (P) Good. Next to ditch, on slight bund, wildflower nod bramble understorey	10+	C2	1.6

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area



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T334	Hawthorn	2	80			Mature	(S) Fair. (P) Fair. Minor dead wood, minor dieback, on bund, next to ditch	10+	C2	1.0
T335	Hawthorn	3	140			Mature	(S) Good. (P) Fair. Minor dieback in the canopy	10+	C2	1.7
T336	Hawthorn	1	80			Early mature	(S) Good. (P) Good. Next to ditch	10+	C2	1.0
H337	Hawthorn, elder	4	100			Mature	(S) Good. (P) Fair. Minor dieback, next to stone wall, small amount of ivy on stems	10+	C2	1.2
G338	Hawthorn	3	110			Mature	(S) Good. (P) Good. Lapsed hedge, on dry stone wall	10+	C2	1.3
T339	Sycamore	10	350			Mature	(S) Good. (P) Good. On stone bund,	20+	B2	4.2
T340	Sycamore	12	410			Mature	(S) Good. (P) Good. On stone bund slightly wind swept	20+	B2	4.9
T341	Sycamore	6	250			Mature	(S) Fair. (P) Good. On stone bund, was multi stem - torn out, minor regrow the from remaining stump	10+	C2	3.0
G342	Hawthorn	2	80			Early mature	(S) Fair. (P) Fair. Patches of dead, minor dead wood, lapsed hedge- sporadic, patches of gorse, on stone bund	10+	C2	1.0

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area



Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G343	Hawthorn	2	100			Mature	(S) Fair. (P) Fair. Overgrown with brambles, patch s of gorse within group	10+	C2	1.2
G344	Prunus spp., blackthorn, hawthorn	3	90			Mature	(S) Good. (P) Good. Very minor dieback in canopy, on stone bund	10+	C2	1.1
T345	Prunus spp.	4	150			Mature	(S) Good. (P) Good. On stone bund, bramble, wildflower understorey	10+	C2	1.8
G346	Prunes sap, Hawthorn	4	100			Mature	(S) Good. (P) Fair. Minor die back at canopy tops, patches of dead some ivy on stems	10+	C2	1.2
T347	Goat willow	5		130,110,110		Mature	(S) Good. (P) Good. Within G48, bramble understorey	10+	C2	2.4
T348	Hawthorn	6	400			Mature	(S) Good. (P) Good. Old multi stem, now fused together, next to stream, unable to access	10+	C2	4.8
G349	Hawthorn	2	100			Mature	(S) Good. (P) Good. Next to ditch unable to access	10+	C2	1.2

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

JACOBS

Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G350	Sycamore	14	300			Mature	(S) Good. (P) Good. Next to stone wall, unable to access preventing full Visual tree assessment	20+	B2	3.6
G351	Sycamore	16	450			Mature	(S) Good. (P) Good. Canopus merge, next to stone wall, private garden so unable to access preventing full Visual tree assessment	20+	B1,2	5.4
T352	Ash	12	350			Mature	(S) Poor. (P) Poor. Major die back and dead wood at crown, dying, within G53, thick Lowe canopy	<10	U	Nil
T353	Ash	11	750			Over mature	(S) Fair. (P) Poor. Heavily pruned and top d little foliage remaining, occluding/end wounds and cavities on stem, bark damage from pruning wounds throughout, private garden tree unable to access preventing full Visual tree assessment	10+	C2,3	9.0

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

JACOBS

Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G354	Sycamore	9	500			Mature	(S) Fair. (P) Poor. Heavily pruned and top d little foliage remaining, private garden tree unable to access preventing full Visual tree assessment	10+	C2	6.0
G355	Sycamore	6	500			over Mature	(S) Fair. (P) Poor. Heavily pruned and top d little foliage remaining, occluding/end wounds and cavities on stem, bark damage from pruning wounds throughout, private garden tree unable to access preventing full Visual tree assessment	10+	C2,3	
T356	Ash	11	750			Mature	(S) Good. (P) Good. Next to stone wall raised up next to house	10+	C2	3.0
H357	Loral	2	75			Mature	(S) Good. (P) Good. Overgrown hedge and next to wall and house bramble rowing threw	10+	C2	0.9
G358	Hawthorn	2	75			Mature	(S) Good. (P) Fair. Next to wall, overgrown with bramble	10+	C2	0.9

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Tree Survey Schedule (2015-16 combined) – Wylfa
Newydd Development Area



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T359	Grey alder	4	100			Early mature	(S) Good. (P) Good. Bramble understorey, edge of parking area	10+	C2	1.2
G360	Hawthorn	3		100, 100		Mature	(S) Good. (P) Good. On small stone bund, nettle understorey	10+	C2	1.7
T361	White willow	5		75, 75		Mature	(S) Good. (P) Good. Near building and in field, bramble understorey	10+	C2	1.3
T362	Grey alder	5	100			Early mature	(S) Good. (P) Good. Field boundary, some regen at base	10+	C2	1.2
G363	Hawthorn	4	100			Mature	(S) Good. (P) Fair. Some die back in canopy, some patches of gorse, next to stone wall	10+	C2	1.2
G364	Elder	3	180			Mature	(S) Good. (P) Good. On stone bund, over grown with ivy, bramble understorey	10+	C2	2.2
G365	Hawthorn	4	150			Mature	(S) Fair. (P) Fair. One fallen, physiologically still going, on field boundary, patchy gorse, bramble understorey	10+	C2	1.8

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Tree Survey Schedule (2015-16 combined) – Wylfa
Newydd Development Area



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G366	Sycamore	8		240, 350		Mature	(S) Good. (P) Good. Some ivy on stem, bramble understorey, on field boundary, fencing occluding into trees	10+	C2	5.1
T367	Sycamore	8		200, 350, 600		Mature	(S) Good. (P) Good. Some ivy on stem, bramble understorey, on field boundary, fencing occluding into trees	10+	C2	8.7
G368	Hawthorn	3		75, 75, 75		Mature	(S) Good. (P) Good. Along boundary between two fields	10+	C2	1.6
T369	Hawthorn	5		180, 150		Mature	(S) Dead. (P) Dead. Within G71	<10	U	Nil
G370	Hawthorn, elder	6	150			Mature	(S) Fair. (P) Fair. Minor dead wood, minor die back, field boundary	10+	C2	1.8
T371	Hawthorn	2	100			Mature	(S) Good. (P) Good. On field boundary.	10+	C2	1.2
G372	Silver birch, goat willow	9	250			Mature	(S) Good. (P) Good. Garden field boundary, bramble and wildflower understorey, private garden group preventing full Visual tree assessment	10+	C2	3.0

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

JACOBS

Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
T373	Goat willow	10		250, 220, 220, 250, 350		Mature	(S) Good. (P) Good. Garden field boundary, bramble and wildflower understorey, small amount of ivy on stem, private garden group preventing full Visual tree assessment	20+	B2	7.0
G374	Goat willow, sycamore	8	250			Early mature	(S) Good. (P) Good. Garden field boundary, bramble and wildflower understorey, small amount of ivy on stem, private garden group preventing full Visual tree assessment	10+	C2	3.0
G375	Elder, sycamore, hawthorn	9	350			Mature	(S) Good. (P) Good. Garden field boundary, bramble and wildflower understorey, small amount of ivy on stem, private garden group preventing full Visual tree assessment	10+	C2	4.2
T376	Sycamore	10		400, 200, 220, 0, 280		Mature	(S) Good. (P) Good. Garden field boundary, bramble and wildflower understorey, small amount of ivy on stem, private garden group preventing full Visual tree assessment	20+	B2	6.3

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

JACOBS

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G377	Hawthorn	4	120			Mature	(S) Good. (P) Good. Field boundary next to concrete wall, bramble understorey	10+	C2	1.4
H378	Leyland cypress	5	150			Mature	(S) Good. (P) Fair. 3/4 of group topped, some of the lower canopy dying back, private garden group preventing full Visual tree assessment	10+	C2	1.8
G379	Hawthorn, sycamore	3	100			Mature	(S) Good. (P) Good. On stone bund, roadside, bramble understorey, minor die back in canopy,	10+	C2	1.2
G380	Hawthorn	4	130			Mature	(S) Good. (P) Good. Within gorse and bramble hedge along two field boundary	10+	C2	1.6
G381	Hawthorn	3	150			Mature	(S) Fair. (P) Fair. Along dh, ditch side, wildflower understorey, minor dead wood, one dead tree	10+	C2	1.8
G382	Hawthorn	5		200, 100		Mature	(S) Good. (P) Good. Minor dead wood, bramble understorey, power lines within group	10+	C2	2.7

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area



Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G383	Hawthorn	4	100			Mature	(S) Good. (P) Fair. On stone bund with a bramble understory, field boundary	10+	C2	1.2
T384	Hawthorn	5	140			Mature	(S) Poor. (P) Fair. On stone bund, bramble understory, lots of die back almost dead	<10	U	Nil
T385	Hawthorn	2	100			Mature	(S) Dead. (P) Dead. On stone bund, bramble understory, dead	<10	U	Nil
G386	Hawthorn	4	100			Mature	(S) Good. (P) Good. on stone bund, edge of SSSI, minor die back in canopy tops	10+	C2	1.2
G387	Sycamore, Elder, Hawthorn	10	500			Mature	(S) Good. (P) Good. Garden/ field boundary, bramble understory	20+	B2	6.0
G388	Silver birch	4	150			Early mature	(S) Good. (P) Good. Private garden group preventing full Visual tree assessment	10+	C2	1.8
G389	Sycamore	8	210			Mature	(S) Good. (P) Good. One was multi stem - previous snap out, now single stem - wound occluding - some decay - minor dead wood and die back	10+	C2	2.5

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area



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G390	Holly, Prunes, copper beech	6	110			Mature	(S) Good. (P) Good. Private garden group preventing full Visual tree assessment	10+	C2	1.3
G391	Goat willow	8	280			Mature	(S) Fair. (P) Good. minor dead wood some die back	10+	C2	3.4
G392	Sycamore	9	250			Mature	(S) Good. (P) Good. Private garden group preventing full Visual tree assessment	10+	C2	3.0
T393	Hawthorn	2		100, 100, 100		Mature	(S) Good. (P) Good. Field boundary, next to stone wall	10+	C2	2.1
G394	Hawthorn	3	120			Mature	(S) Fair. (P) Fair. overgrown hedge, large amounts of bramble, patches of gorse, patches of dead and die back	10+	C2	1.4
T395	Hawthorn	2	120			Mature	(S) Good. (P) Good. surrounding telegraph pole, next to ditch, minor die back	10+	C2	1.4
G396	Hawthorn, Elder	3	90			Mature	(S) Good. (P) Good. on bund next to ditch, bramble and gorse understory	10+	C2	1.1

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

JACOBS

Ref No	Species	Height (m)	Single stem dia (mm)	<=5 no. stems dia (mm)	>5 no. stems dia (mm)	Age class	General Observations (Structural (S) and Physiological (P) Conditions, Comments and Management Recommendations).	Est remaining contribution (yrs)	BS5837 category grade	RPA radius (m)
G397	White willow	7	189			Mature	(S) Good. (P) Good. some on stone bund, along a field boundary, near the corner of a ditch	10+	C2	2.3
G398	Hawthorn, elder, Willow	6	150			Mature	(S) Good. (P) Good. unable to access due to cows preventing full VTA, along hedge line, close to ditch	10+	C2	1.8
G399	Sycamore	7	180			Mature	(S) Good. (P) Good. On bank next to a track, within a private garden, ivy on stems, minor dead wood	10+	C2	2.2
G400	Sycamore	4	100			Mature	(S) Good. (P) Good. On bank next to track, field boundary with track, some ivy on stems, minor dead wood	10+	C2	1.2
G401	Hawthorn X2	3	100			Mature	(S) Good. (P) Good. Field done form desk top study due to lack of access or livestock	10+	C2	1.2
G402	Sycamore	10	300			Mature	(S) Good. (P) Good. Field done form desk top study due to lack of access or livestock	10+	C2	3.6

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Tree Survey Schedule (2015-16 combined) – Wylfa Newydd Development Area

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G403	Hawthorn, prunes	7	130			Mature	(S) Good. (P) Good. Field done form desk top study due to lack of access or livestock, patches of gorse, filed boundary/ possible lapsed hedge	10+	C2	1.6
G404	Hawthorn	4	100			Mature	(S) Good. (P) Good. Field done form desk top study due to lack of access or livestock, along field boundary, patches of gorse	10+	C2	1.2
G405	Hawthorn, Willow, Sycamore	6	120			Mature	(S) Good. (P) Good. Field done form desk top study due to lack of access or livestock, on boundary with large section of gorse	10+	C2	1.4
G406	Hawthorn	3	100			Mature	(S) Good. (P) Good. Field done form desk top study due to lack of access or livestock, on field boundary of 3 fields	10+	C2	1.2
G407	Hawthorn	5	100			Mature	(S) Good. (P) Good. Field done form desk top study due to lack of access or livestock, bramble understorey, along field boundary	10+	C2	1.2

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Tree Survey Schedule (2015-16 combined) – Wylfa
Newydd Development Area

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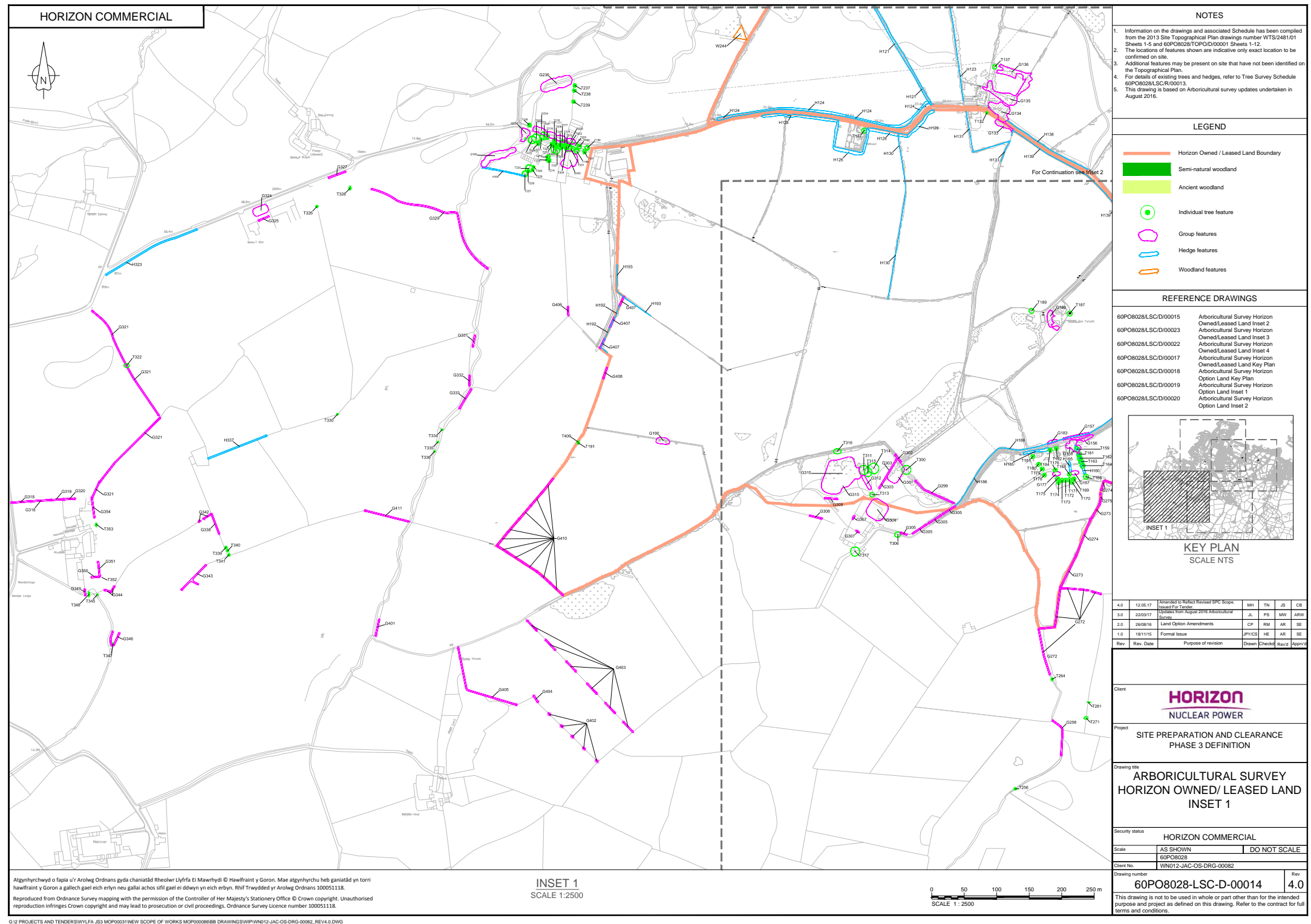
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G408	Sycamore	8	200			Mature	(S) Good, (P) Good. Field done form desk top study due to lack of access or livestock, lone tree on field boundary	10+	C2	2.4
T409	Hawthorn	4	120			Mature	(S) Good, (P) Good. Field done form desk top study due to lack of access or livestock, field boundary location	10+	C2	1.4
G410	Hawthorn	3	130			Mature	(S) Good, (P) Good. Field done form desk top study due to lack of access or livestock, bramble, bracken and gorse understorey	10+	C2	1.6
G411	Hawthorn	3	120			Mature	(S) Good, (P) Good. Field done form desk top study due to lack of access or livestock, along field boundary possibly lapsed hedge, patches of gorse	10+	C2	1.4
G412	Hawthorn	2	100			Mature	(S) Good, (P) Good. Field done form desk top study due to lack of access or livestock, along ditch, patchy old field boundary with patches of gorse and brambles	10+	C2	1.2

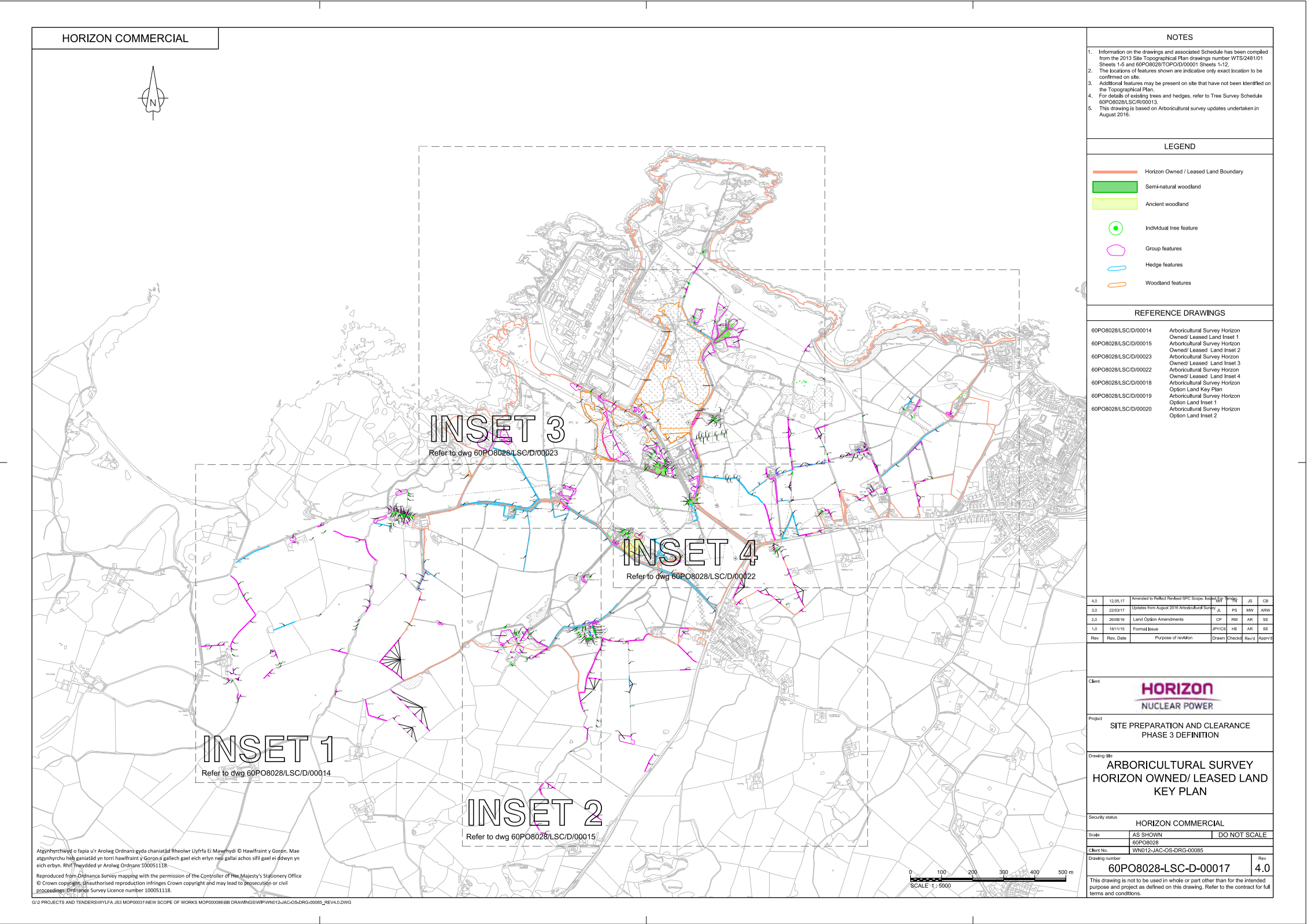
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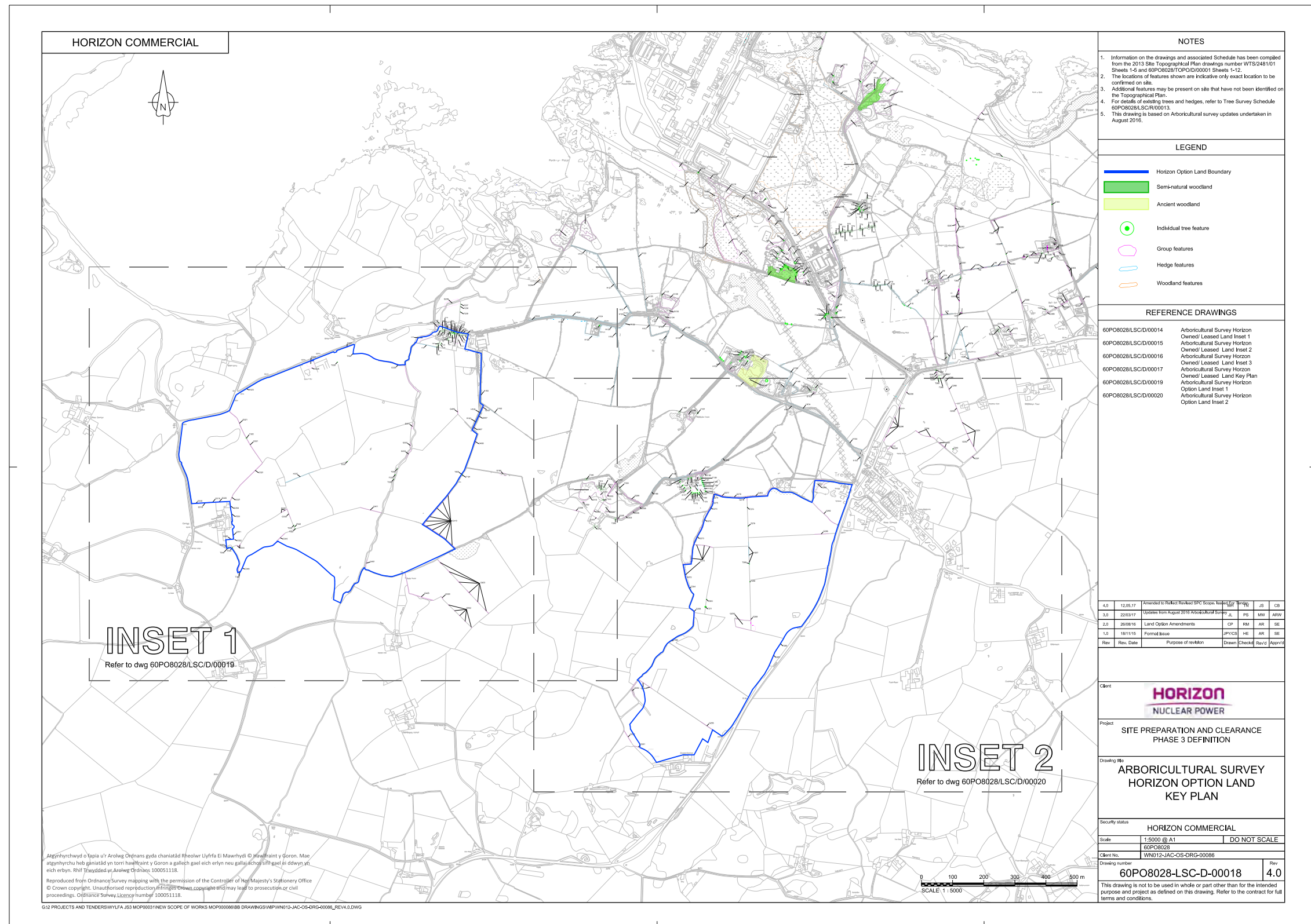
Tree Survey Schedule (2015-16 combined) – Wylfa
Newydd Development Area

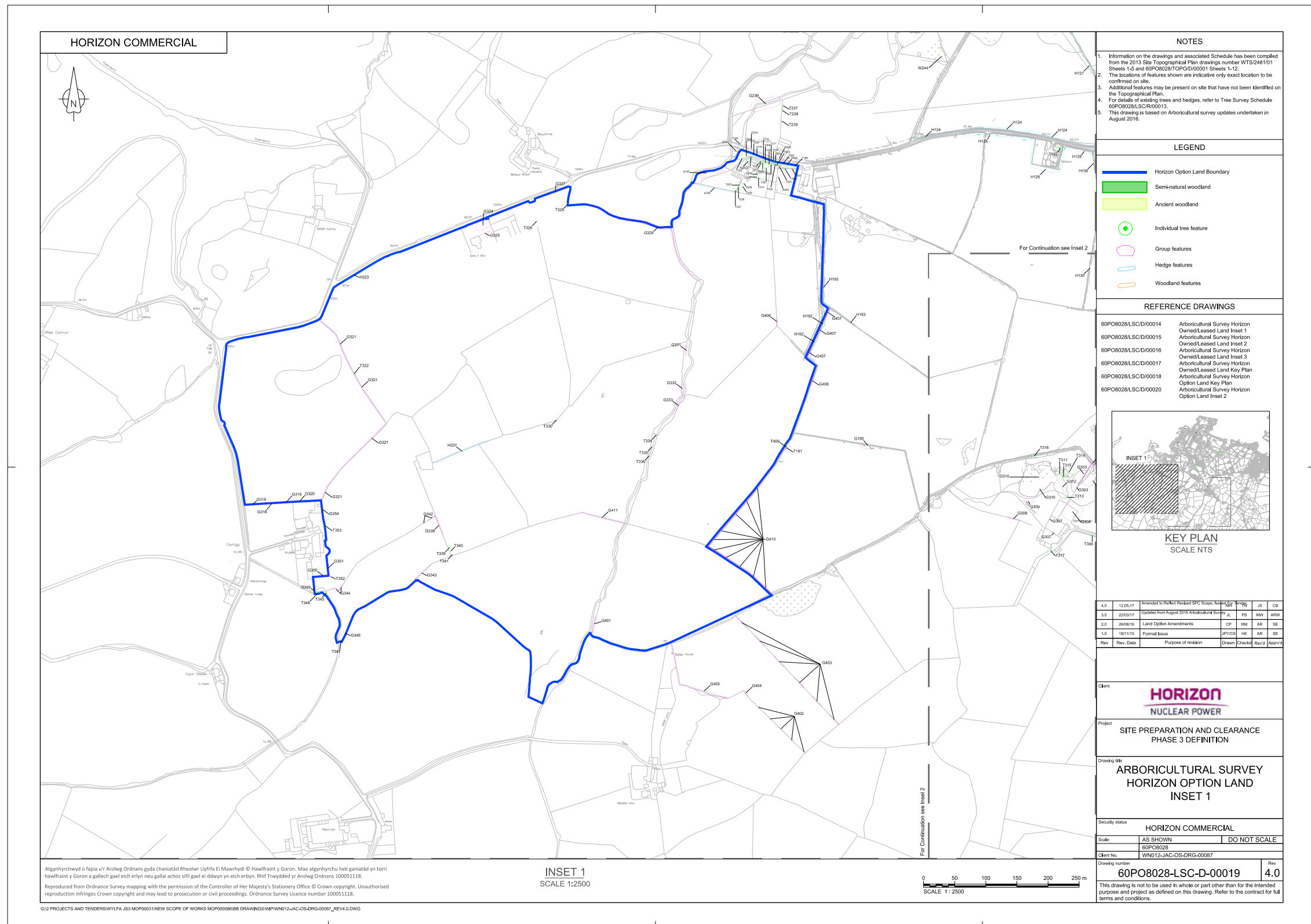
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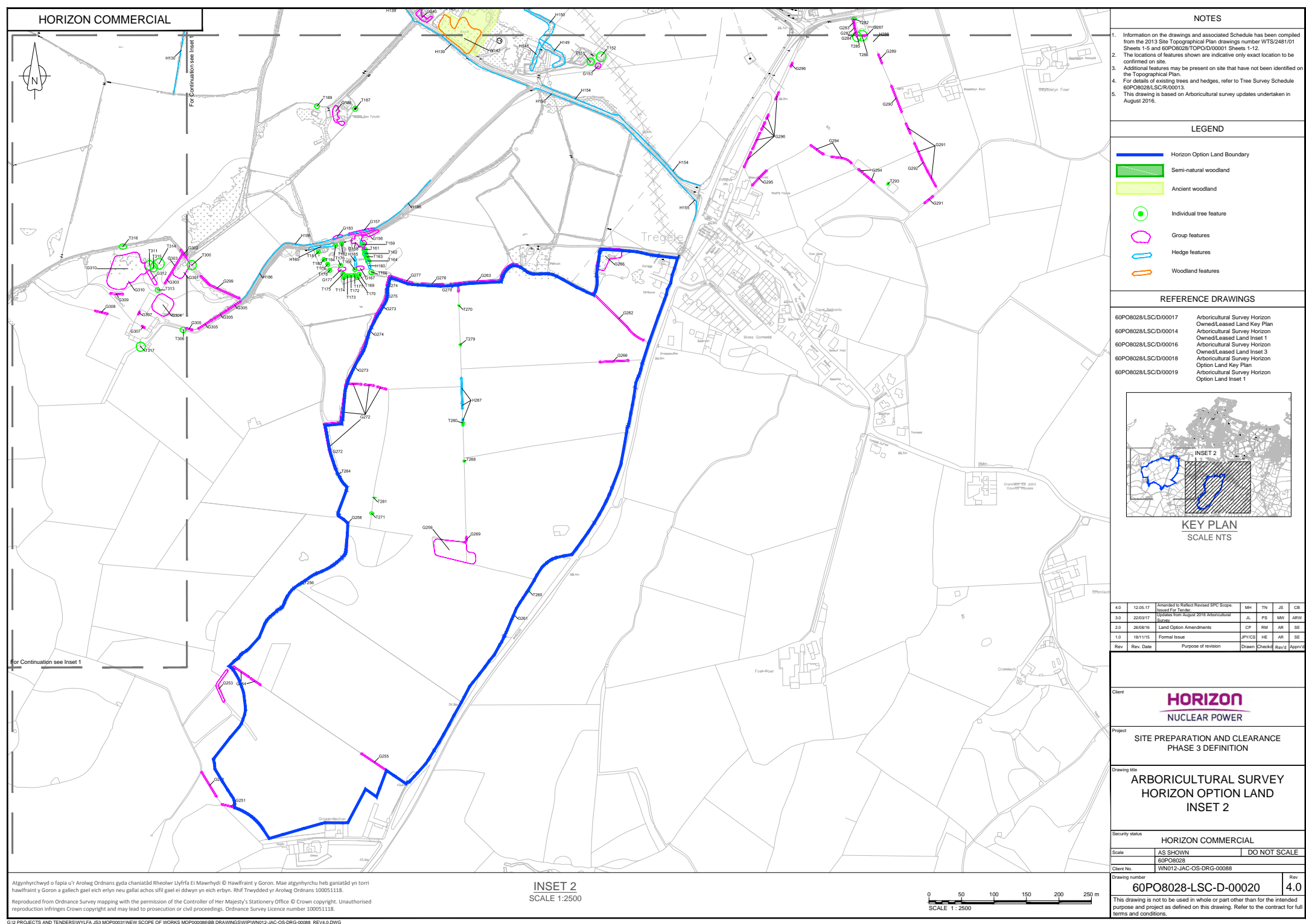
LANDSCAPE AND HABITAT MANAGEMENT STRATEGY













CONTACT US:

If you have any questions or feedback regarding the Wylfa Newydd DCO Project you can contact us on our dedicated Wylfa Newydd freephone hotline and email address, by calling on **0800 954 9516** or emailing **wylfaenquiries@horizonnuclearpower.com**

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