04 March 2024

Kate Turner
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Parkside,
Chart Way,
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West Sussex
RH12 1RL

By email only

Thank you for requesting advice on this outline application from Place Services' ecological advice service. This service provides advice to planning officers to inform Horsham District Council planning decisions with regard to potential ecological impacts from development. Any additional information, queries or comments on this advice that the applicant or other interested parties may have, must be directed to the Planning Officer who will seek further advice from us where appropriate and necessary.

Dear Kate

Application: **DC/24/0104**
Location: **Dendrons Kithurst Lane Storrington West Sussex RH20 4LP**
Proposal: **Outline Application for the erection of 1No. chalet dwelling with all matters reserved except access**

Thank you for consulting Place Services on the above outline application.

a) No ecological harm/No objection	
b) Requires further information	
c) Recommend grant permission subject to conditions	Yes
d) Recommend refusal	
e) Subject to Natural England's formal comments on the conclusion of the Water Neutrality Appropriate Assessment	Yes
f) Subject to Natural England's formal comments on the conclusion of the Bat Appropriate Assessment	Yes
g) Discharge of condition	

Please note that following receipt of Natural England's position statement on developments in the Sussex North Water Supply Zone, decisions on planning applications should await the completion of a Sussex North water neutrality strategy unless they can demonstrate water neutrality.

Summary
We have reviewed the Ecological Impact Assessment Revision 01 (Lizard Landscape Design and Ecology, December 2023), supplied by the applicant, relating to the likely impacts of development on protected & Priority species and habitats, and identification of proportionate mitigation.

We note from Section 4.3.6 of the Ecological Impact Assessment Revision 01 (Lizard Landscape Design and Ecology, December 2023) that no works are proposed to Buildings B01 and B02 and the carport (Building B03) has negligible bat roost potential. We therefore agree that no further surveys for bats are needed in buildings.

We also note from Section 4.3.7 of the Ecological Impact Assessment Revision 01 (Lizard Landscape Design and Ecology, December 2023) that the all of the trees on site have negligible bat roost potential. We therefore agree that no further surveys for bats are needed for trees.

The site lies approximately 9.5km southeast of The Men's Special Area of Conservation (SAC) and is therefore within the 12km Wider Conservation Area (Sussex Bat Special Area of Conservation Planning and Landscape Scale Enhancement Protocol). One of the qualifying features for the SAC is Barbastelle bats and there is one record of this species approximately 200m to the east of the site (Sussex Biodiversity Information Centre – accessed under licence). There are numerous records for bats, including Natterer's, Serotine, Common Pipistrelle, Soprano Pipistrelle, Noctule and Brown Long-eared bat within 2km of the site (Ecological Impact Assessment (Lizard Landscape Design and Ecology, February 2023). European Protected Species Mitigation Licences have been granted for Brown Long-eared bat, Common Pipistrelle and Serotine 267m to the south of the site (2015), Common Pipistrelle, Soprano Pipistrelle, Brown Long-eared and Whiskered bat 1.9km to the west of the site (2017) and Barbastelle, Brandts, Brown Long-eared, Common Pipistrelle and Whiskered bat 1.9km to the southeast of the site (2015) (MAGIC maps https://magic.defra.gov.uk/MagicMap.aspx). The site lies 15.2km from the Ebernoe Common SAC and therefore outside the the 12km Wider Conservation Area.

The site comprises a residential plot with ornamental and native hedgerows, scattered trees and modified grassland (Ecological Impact Assessment Revision 01 (Lizard Landscape Design and Ecology, December 2023)). Two ornamental hedgerows will be removed, together with the trimming of a group of holly (TG16) and the partial removal of an Oak tree (TG17) (Arboricultral Impact Assessment and Method Statement (Lizard Landscape Design and Ecology, December 2023)). Ten scattered trees will be retained, together with two groups of trees and four ornamental hedgerows (Arboricultral Impact Assessment and Method Statement (Lizard Landscape Design and Ecology, December 2023)). In addition, a planting plan with native hedgerow and shrub species will be implemented (Section 5.2.2 Ecological Impact Assessment Revision 01 (Lizard Landscape Design and Ecology, December 2023)).

As Barbastelle bats may use this habitat, and if external lighting is required, we support the recommendation that a Wildlife Friendly Lighting Strategy is implemented for this application (Ecological Impact Assessment Revision 01 (Lizard Landscape Design and Ecology, December 2023)) to avoid impacts from light disturbance. This should be secured by a condition of any consent and implemented in full. Therefore, technical specification should be submitted prior to occupation, which demonstrates measures to avoid lighting impacts to foraging / commuting bats, which are likely to be present within the local area. This should summarise the following measures recommended by GN:08/23 (Institute of Lighting Professionals) will be implemented:

- Do not provide excessive lighting. Light levels should be as low as possible as required to fulfil the lighting need.
- All luminaires should lack UV elements when manufactured. Metal halide, compact fluorescent sources should not be used.
- Warm White lights should be used at <2700k. This is necessary as lighting which emits an ultraviolet component or that has a blue spectral content has a high attraction effect on insects. This may lead in a reduction in prey availability for some light sensitive bat species.
- Where appropriate, external security lighting should be set on motion-sensors and set to as short a possible a timer as the risk assessment will allow.
- Luminaires should always be mounted horizontally, with no light output above 90° and/or no upward tilt.
- Only if all other options have been explored, accessories such as baffles, hoods or louvres can be used to reduce light spill and direct it only to where it is needed. However, due to the lensing and fine cut-off control of the beam inherent in modern LED luminaires, the effect of cowls and baffles is often far less than anticipated and so should not be relied upon solely.

We therefore consider that with mitigation, there will be no Adverse Effect on Integrity of the The Men's SAC, either alone or in combination with other plans and projects. We advise the LPA to prepare a project level HRA Appropriate Assessment to record its decision and consult Natural England on the conclusion.

We are satisfied that there is sufficient ecological information available for determination. We have no objections on ecological matters excluding Great Crested Newt as we have been instructed to leave comments on this European Protected Species to the NatureSpace Partnership.

This provides certainty for the LPA of the likely impacts on protected and Priority species and, with appropriate mitigation measures secured, the development can be made acceptable.

This will enable the LPA to demonstrate its compliance with its statutory duties including its biodiversity duty under s40 NERC Act 2006.

The mitigation measures identified in the Ecological Impact Assessment Revision 01 (Lizard Landscape Design and Ecology, December 2023)) should be secured by a condition of any consent and implemented in full. This is necessary to conserve and enhance protected and Priority species.

We also support the proposed reasonable biodiversity enhancements, which have been recommended to secure net gains for biodiversity, as outlined under Paragraph 180[d] of the National Planning Policy Framework (December 2023). The enhancement measures should be outlined within a Biodiversity Enhancement Layout and secured by a condition of any consent for discharge prior to slab level.

Impacts will be minimised such that the proposal is acceptable subject to the conditions below based on BS42020:2013. In terms of biodiversity net gain, the enhancements proposed will contribute to this aim.

Submission for approval and implementation of the details below should be a condition of any planning consent:

Recommended conditions

1. **ACTION REQUIRED IN ACCORDANCE WITH ECOLOGICAL APPRAISAL RECOMMENDATIONS**
   "All mitigation and enhancement measures and/or works shall be carried out in accordance with the details contained in the Ecological Impact Assessment Revision 01 (Lizard Landscape Design and Ecology, December 2023)), as already submitted with the planning application and agreed in principle with the local planning authority prior to determination.

   This may include the appointment of an appropriately competent person e.g. an ecological clerk of works (ECoW) to provide on-site ecological expertise during construction. The appointed person shall undertake all activities, and works shall be carried out, in accordance with the approved details."

   Reason*:* To conserve and enhance protected and Priority species and allow the LPA to discharge its duties under the Conservation of Habitats and Species Regulations 2017 (as amended), the Wildlife & Countryside Act 1981 as amended and s40 of the NERC Act 2006 (Priority habitats & species) and Policy 31 of the Horsham Development Framework.

2. **CONCURRENT WITH RESERVED MATTERS PRIOR TO WORKS ABOVE SLAB LEVEL: BIODIVERSITY ENHANCEMENT LAYOUT**
   "A Biodiversity Enhancement Layout, providing the finalised details and locations of the enhancement measures contained within the Ecological Impact Assessment Revision 01 (Lizard Landscape Design and Ecology, December 2023)), shall be submitted to and approved in writing by the local planning authority.

   The enhancement measures shall be implemented in accordance with the approved details prior to occupation and all features shall be retained in that manner thereafter."

   Reason: To enhance protected and Priority species and allow the LPA to discharge its duties under the s40 of the NERC Act 2006 (Priority habitats & species).

If external lighting is required:

3. **CONCURRENT WITH RESERVED MATTERS PRIOR TO OCCUPATION: WILDLIFE SENSITIVE LIGHTING DESIGN SCHEME**
   "*A lighting design scheme for biodiversity based on GN: 08/23 shall be submitted to and approved in writing by the local planning authority. The scheme shall identify those features on site that are particularly sensitive for bats and that are likely to cause disturbance along important routes used for foraging; and show how and where external lighting will be installed (through the provision of appropriate lighting contour plans and*

   technical specifications) so that it can be clearly demonstrated that areas to be lit will not disturb or prevent bats using their territory.

All external lighting shall be installed in accordance with the specifications and locations set out in the scheme and maintained thereafter in accordance with the scheme. Under no circumstances should any other external lighting be installed without prior consent from the local planning authority."

Reason: To allow the LPA to discharge its duties under the Conservation of Habitats and Species Regulations 2017 (as amended), the Wildlife & Countryside Act 1981 as amended and s40 of the NERC Act 2006 (Priority habitats & species).

Please contact us with any queries.

Yours sincerely

Genevieve Broad MCIEEM MSc BSc (Hons)
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Place Services provide ecological advice on behalf of Horsham District Council
Please note: This letter is advisory and should only be considered as the opinion formed by specialist staff in relation to this particular matter.

Horsham District Council
Habitats Regulations Assessment Appropriate Assessment Record

Plan/project: DC/24/0104 | Outline Application for the erection of 1No. chalet dwelling with all matters reserved except access | Dendrons Kithurst Lane Storrington West Sussex RH20 4LP

The purpose of this screening record is to assess the need for appropriate assessment in relation to the plan/project detailed above.

The Conservation of Habitats and Species Regulations 2017 (as amended) requires that a Habitats Regulations Assessment screening is carried out in relation to any plan or project which is likely to have a significant effect on Habitats (European) sites, either alone or in combination with other plans or projects. European sites are Special Protection Areas and Special Areas of Conservation. Ramsar sites should also be given the same level of protection, as stated within the National Planning Policy Framework.
In line with the Court judgement (CJEU People Over Wind v Coillte Teoranta C-323/17), mitigation measures cannot be taken into account when carrying out a screening assessment to decide whether a development is likely to result in significant effects on a Habitats site. HRA screening concluded that it is not possible to rule out likely significant effects without mitigation in place. **This report is therefore an Appropriate Assessment under the Conservation of Habitats and Species Regulations 2017 (as amended).**

Where an Appropriate Assessment is carried out a project may only be authorised after having ascertained that it will not adversely affect the integrity of the site(s) concerned.

Table 1: Screening matrix

Stage 1 HRA screening	
Brief description of the Plan/Project	**Application:** DC/24/0104 **Planning Application:** Outline Application for the erection of 1No. chalet dwelling with all matters reserved except access **Location:** Dendrons Kithurst Lane Storrington West Sussex RH20 4LP
Brief description of the Habitats sites within scope of this assessment	The Mens SAC (Sussex bat SAC) and Ebernoe Common SAC lie within West Sussex and the Impact Risk Zones identified by Natural England includes Horsham District. The Mens Special Area of Conservation (SAC) is located approximately 9.5km to the northwest of the site and lists Barbastelle bats as a qualifying feature. A long and varied history of management has seen The Mens move from an open, wood pasture system with huge, spreading parkland trees and pollards to a high forest with closely spaced trees with narrow crowns. A lack of management in recent years has added to this silvicultural diversity. Ebernoe Common SAC is located approximately 15.2km northwest of the site and lists Barbastelle and Bechstein's bats as qualifying features. Ebernoe Common is dominated by old wood pasture where Commoners would have turned out their cattle or pigs to graze and browse on young trees and scrub, beech mast and acorns, or on the grassy meadows in glades and clearings. Grazing stopped by the middle of the 20th century and the wood pasture became more and more overgrown. Great effort has been put into opening up glades and rides and restoring grazing to this SAC. Arun Valley SAC, SPA and Ramsar is approximately 3.4km to the west, and lists rare and diverse plant, invertebrate and bird assemblages as qualifying features. It consists of low-lying grazing marsh, largely on alluvial soils, but with an area of peat derived from a relict raised bog. Variation in soils and water supply lead to a wide range of ecological conditions and hence a rich flora and fauna.
Qualifying Features for SPA/SAC	**The Mens SAC**

Annex I habitats that are a primary reason for selection of the site:

*9120 Atlantic acidophilous beech forests with Ilex and sometimes also Taxus i*n the shrub layer (Quercion robori-petraeae or Ilici-Fagenion)

The Mens is an extensive area of mature Beech Fagus sylvatica woodland rich in lichens, bryophytes, fungi and saproxylic invertebrates, and is one of the largest tracts of Atlantic acidophilous beech forests in the south-eastern part of the habitat's UK range. It is developing a near-natural high forest structure, in response to only limited silvicultural intervention over the 20th century, combined with the effects of natural events such as the 1987 great storm.

Annex II species present as a qualifying feature, but not a primary reason for site selection:

1308 Barbastelle *Barbastella barbastellus*

Ebernoe Common SAC

Annex I habitats that are a primary reason for selection of this site

9120 Atlantic acidophilous Beech forests with Ilex and sometimes also Taxus in the shrub layer (Quercion robori-petraeae or Ilici-Fagenion).

Ebernoe Common has an extensive block of Beech high forest and former wood-pasture over dense Holly *Ilex aquifolium*, and has a very rich epiphytic lichen flora, including *Agonimia octospora* and *Catillaria atropurpurea.* It represents Atlantic acidophilous Beech forests in the south-eastern part of the habitat's UK range. The Beech woodland is associated with other woodland types, open glades and pools, which contribute to a high overall diversity. The woods are important for a number of bat species, in particular 1323 Bechstein's bat *Myotis bechsteinii* and 1308 Barbastelle.

Annex II species that are a primary reason for selection of this site:

1308 Barbastelle *Barbastella barbastellus*

A maternity colony of Barbastelles utilises a range of tree roosts in this area of 91A0 old sessile Oak woods with Ilex and *Blechnum* in the British Isles, which has a dense understorey of holly as well as open glades and open water. Maternity roost sites are usually in dead tree stumps, but the species appears to be present throughout the year, with individuals utilising a range of roost sites in tree holes and under bark.

1323 Bechstein`s bat *Myotis bechsteinii*

A maternity colony of Bechstein's bat is associated with this area of 91A0 Old sessile Oak woods with *Ilex* and *Blechnum* in the British Isles. Roosts are mainly i*n old woodpecker holes in the stems of live mature oak* Quercus petraea trees.

Arun Valley SPA
A037 Bewick's swan, *Cygnus columbianus bewickii* (non-breeding).

During the time of site notification, the SPA supported 115 individuals representing at least 1.6% of the wintering population in Great Britain (5 year peak mean 1992/93 - 1996/97).

During the non-breeding season, the SPA regularly supports an assemblage of waterfowl with the area regularly supporting 27,241 individual waterfowl (5 year peak mean for 1992/93 to 1996/97) including: Shoveler *Anas clypeata*, Teal *Anas crecca*, Wigeon *Anas penelope,* Bewick's Swan *Cygnus columbianus bewickii.*

Arun Valley SAC
4056 Little Whirlpool Ramshorn snail *Anisus vorticulus*

	Anisus vorticulus occurs across a range of sites in southern and eastern England. The Arun valley is one of the three main population centres for this species in the UK. This proposed site includes two of its core sites in the wash lands of the Arun floodplain (Pulborough Brooks and Amberley Wild Brooks SSSIs.
Qualifying Features for Ramsar	**Arun Valley Ramsar** **Ramsar criterion 2** The site holds seven wetland invertebrate species listed in the British Red Data Book as threatened. One of these, *Pseudamnicola confusa*, is considered to be endangered. The site also supports four nationally rare and four nationally scarce plant species **Ramsar criterion 3** In addition to the Red Data Book invertebrate and plant species, the ditches intersecting the site have a particularly diverse and rich flora. All five British duckweed (*Lemna* species), all five water-cress (*Rorippa* species), and all three British water milfoils (*Myriophyllum* species), all but one of the seven British water dropworts (*Oenanthe* species), and two-thirds of the British pondweeds (*Potamogeton* species) can be found on site. **Ramsar criterion 5** Assemblages of international importance: Species with peak counts in winter: 13774 waterfowl (5 year peak mean 1998/99-2002/2003).
Conservation Status of the relevant Qualifying Features	**The Mens SAC** The Barbastelle is one of the UK's rarest mammals. Few maternity roost sites are known in the UK. While the SAC series makes a contribution to securing favourable conservation status for this Annex II species, wider measures are also necessary to support its conservation in the UK. These are outlined in the Species Biodiversity Action Plan (DEFRA website). *It is likely that its low population density and slow population growth make it particularly vulnerable to:* *• further loss and fragmentation of ancient deciduous woodland habitat;* *• loss, destruction and disturbance of roosts in buildings, trees and underground sites;* *• a reduction in numbers of insect prey due to habitat simplification acting through factors such as fertiliser use and intensive grazing.* **Ebernoe Common SAC** Barbastelle as outlined for The Mens SAC. Bechstein's Bat Species Biodiversity Action Plan (DEFRA website): *The rarity of this species means that it is poorly understood, but according to the national species action plan, its low population density, exacting habitat requirements and low rates of reproduction make it particularly vulnerable to factors such as:* *• Further loss and fragmentation of open ancient deciduous woodland habitat.* *• Loss, destruction and disturbance of roosts or potential roosts (particularly in old trees)* **Arun Valley SAC, SPA and Ramsar** In line with the national trend, the number of Bewick's swans wintering in the Arun Valley has declined since the time of designation and is now typically fewer than 50 birds. This may reflect an overall decline in the population of the species and/or be due to the effects of a milder climate in which more are able to winter in continental Europe (The Birds of Sussex, 2014). The waterfowl assemblage numbers fluctuate depending upon conditions in the valley but over the past five years have averaged 40,311, an increase from the five year mean of 27,241 at the time of designation. The Arun Valley is one of the remaining strongholds for the Little Whirlpool Ramshorn Snail.

Conservation Objectives (Only Relevant for SPA/SAC)	**The Mens SAC** Ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the Favourable Conservation Status of its Qualifying Features, by maintaining or restoring; • The extent and distribution of qualifying natural habitats and habitats of qualifying species • The structure and function (including typical species) of qualifying natural habitats • The structure and function of the habitats of qualifying species • The supporting processes on which qualifying natural habitats and the habitats of qualifying species rely • The populations of qualifying species, and, • The distribution of qualifying species within the site. **Ebernoe Common SAC** Ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the Favourable Conservation Status of its Qualifying Features, by maintaining or restoring; • The extent and distribution of qualifying natural habitats and habitats of qualifying species • The structure and function (including typical species) of qualifying natural habitats • The structure and function of the habitats of qualifying species • The supporting processes on which qualifying natural habitats and the habitats of qualifying species rely • The populations of qualifying species, and, • The distribution of qualifying species within the site. **Arun Valley SAC & SPA** Ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the aims of the Wild Birds Directive, by maintaining or restoring; • The extent and distribution of the habitats of the qualifying features • The structure and function of the habitats of the qualifying features • The supporting processes on which the habitats of the qualifying features rely • The population of each of the qualifying features, and, • The distribution of the qualifying features within the site.
Key vulnerabilities / factors affecting site integrity	Issues listed in the relevant Site Improvement Plan (SIP) are: **The Mens SAC** • Forestry and woodland management; • Habitat connectivity for barbastelle bats; • Invasive species; • Changes in land management, with reference to foraging and commuting routes; • Air pollution, risk of atmospheric nitrogen deposition; • Public access / disturbance, with regards to light levels. The mechanism for addressing these issues within the SIP is investigation, research and monitoring; with the exception of appropriate management, and removal of, rhododendron, within The Mens SAC. **Ebernoe Common SAC** • Forestry and woodland management; • Off-site habitat availability / management; • Habitat fragmentation; • Change in land management, with reference to foraging and commuting routes for Barbastelles; • Hydrological changes; • Air pollution, risk of atmospheric nitrogen deposition; • Public access / disturbance, with regards to light levels.

	Again, the mechanism for addressing all of these issues within the SIP is investigation, research, monitoring at this stage. **Arun Valley SAC and SPA** • Inappropriate water levels • Water pollution • Inappropriate ditch management • Disturbance Again, the mechanism for addressing all of these issues within the SIP is investigation, research, monitoring at this stage. However, for applications where increased demand for water resources is the only pathway for impacts, Natural England's substantive advice (Position Statement Interim Approach, September 2021) is that such applications - without mitigation - will result in a likely significant effect on the Arun Valley SAC/SPA/Ramsar site in combination with other developments in the Sussex North WSZ. As it cannot be concluded that the existing abstraction within Sussex North Water Supply Zone is not having an impact on the Arun Valley sites, developments within this zone must not add to this impact. Therefore, such applications, even where mitigation is proposed, must progress to Appropriate Assessment (AA). Natural England's substantive advice (September 2021) is that the Sussex North Water Supply Zone includes supplies from a groundwater abstraction which cannot, with certainty, conclude no adverse effect on the integrity of; • Arun Valley Special Area Conservation (SAC) • Arun Valley Special Protection Area (SPA) • Arun Valley Ramsar Site
Assessment Criteria	
The individual elements of the project (either alone or in combination with other plans or projects) likely to give rise to impacts on the Habitats site	Barbastelle bat has been recorded 1.9km to the southeast of the site (MAGIC maps https://magic.defra.gov.uk/MagicMap.aspx). The Sussex Bat Special Area of Conservation Planning and Landscape Scale Enhancement Protocol provides advice for developers and local Councils when assessing applications which fall within an identified 12 km Impact Zone for The Men's SAC, Ebernoe Common SAC. In line with this Protocol, this application is located within the wider Conservation Area of The Men's SAC, and significant impacts or severance to flightlines need to be considered. This development does not occur along one of the identified flightlines. Based on the threats listed in the SIPs, the following potential impact pathways are considered with reference to the development proposals regarding the need for further assessment: **Direct land take** - The proposed development will not result in any direct land take from any designated sites. Direct land take does not therefore have the potential to result in likely significant effects (LSE), and can be screened out and will not be considered further. **Forestry and woodland management** - This threat / issue is of relevance to the habitats within the designated sites themselves. There is no pathway for woodland management at these locations to be affected by the proposals. There is no potential for forestry and woodland management to be impacted by the proposals, so they have been screened out and will not be considered further. **Habitat connectivity and availability for foraging and commuting Barbastelle bats –** Barbastelle bats are qualifying features for both SACs, and threats and issues relating to this species in the wider area have been identified in the relevant SIPs as: • Off-site habitat availability / management;

- Habitat fragmentation / Habitat connectivity for barbastelle bats;
- Changes in land management, with reference to foraging and commuting routes.

Barbastelle bats have been recorded within 2km of the site ((MAGIC maps https://magic.defra.gov.uk/MagicMap.aspx) and there is potential for changes in vegetation structure with the removal of scattered trees and habitat loss to alter the availability of foraging and commuting routes for Barbastelle around the site, and to impact commuting routes across the wider area. The removal or fragmentation of commuting routes for this species e.g. treelines, may result in increased energy expenditure and consequently reduced survival. This would be in conflict with the conservation objectives for both SACs which include 'maintaining or restoring the population of qualifying species'.

Further assessment is therefore screened in regarding habitat connectivity for commuting and foraging Barbastelle bats, as there is potential for LSE on this qualifying feature of The Men's SAC as a result of the proposed development.

Bechstein's bats are a qualifying feature for Ebernoe Common SAC. The site lies outside the Ebernoe Common Impact Risk Zone and the species is considered most likely to remain within 1.5km of their roosts. As such, Bechstein's bats from Ebernoe Common SAC are considered likely to be absent, and as such, the potential for LSE is screened out, and they will not be considered further.

Invasive species
This threat concerns invasive rhododendron within The Mens SAC, and, as such there is no pathway for impacts due to the proposals. There is no potential for invasive species in The Men's to be impacted by the proposals, so they have been screened out and will not be considered further.

Hydrological changes
This threat / issue is of no relevance to The Men's SAC and Ebernoe Common SAC.

The nearest area which would be affected by hydrological changes is the Arun Valley SAC/ SPA/ Ramsar site.

Therefore, there is a predicted Likely Significant Effects due to hydrological changes in combination with other plans and projects, so these have been screened in. **This is considered under a separate HRA Appropriate Assessment for water neutrality.**

Air pollution
The proposal will result in an increase in local residents and use of the SACs and Arun Valley SPA, and Ramsar are currently above their critical load for nitrogen deposition as noted in the HRA Screening Statement for Petworth Neighbourhood Development Plan (South Downs National Park Authority, 2017). Natural England Advice to Local Authorities when Considering Air Quality Impacts at HRA poses that air pollution impacts are predominantly considered within 200m of a road. As the development is >200m from any Habitats site, the potential for LSE on the Habitats sites due to air pollution can be screened out and will not be considered further.

Public access / disturbance, with regards to light levels.
The HRA Screening Statement for Petworth Neighbourhood Development Plan (South Downs National Park Authority, 2017) notes that most visits to The Men's and Ebernoe Common SACs take place during daylight, with low levels of recreation at night. As such, they conclude that significant adverse effects due to lighting are unlikely. Recreation itself (i.e. during daylight hours) is not listed as threat within the SIPs.

Whilst there is potential for disturbance to local flightlines from increased light levels, light spill is not anticipated to extend into the wider landscape.

	Therefore there is no potential for disturbance effects to the habitat or Barbastelle within the designated site. This impact pathway therefore needs to be screened out. **In combination effects** There is no potential for LSE from direct land take, forestry and woodland management, invasive species, hydrological connections, or air pollution there is no potential for the development proposals to contribute to any likely significant effects along these pathways, in combination with other plans and projects. However, impacts from disturbance with regards to increased levels of lighting and loss of connectivity on foraging and commuting Barbastelle bats, as qualifying feature of The Men's SAC has already been screened in for further assessment from the development alone. In combination effects will be considered at stage 2 Appropriate Assessment.
Test 1 the significant test:	As the development may result in new lighting of commuting and foraging habitat within the Impact Risk Zone of the SACs, mitigation will be required in terms of new planting and a sensitive lighting scheme. The LPA therefore anticipates that, without mitigation, it is not possible to conclude no 'likely significant effect' (LSE) to The Men's SAC in terms of **disturbance impacts from lighting and loss of habitat connectivity** when considered from the development alone. The effects due to changes to lighting, in-combination with other plans and projects, are also possible pathways for LSE so these will be assessed further in Stage 2: Appropriate Assessment. Therefore, in accordance with the Sussex Bat SAC planning and landscape scale enhancement protocol, this assessment needs to proceed to HRA Stage 2: Appropriate Assessment. This will consider, with mitigation, the impacts of disturbance from lighting on Barbastelle bats from the above designated site, either alone or in combination with other plans and projects. After mitigation has been embedded into the project design, Test 2 – the integrity test then needs to be applied.
Stage 2 Appropriate Assessment	
The above Stage 1 HRA screening has determined that LSE are possible at The Men's SAC as a result of impacts on habitat connectivity and availability for foraging and commuting Barbastelle bats. These pathways have been screened in, and the potential for adverse effects on site integrity, either alone, or in-combination will be assessed. Therefore, this section of the report to inform HRA Stage 2 only discusses the potential for impacts from new lighting as a result of the proposed development.	
Potential for Adverse Effects On the Integrity (AEOI) of a Habitats site from the development alone.	Barbastelle may commute and forage along the treelines onsite and therefore the site could be important for Barbastelle bats within the bat sustenance zone of a bat SAC designated for this Appendix II species. Based on published data[1] Natural England recommends that the Zone of Influence of 12km (as detailed on Defra's MAGIC map 2022) is used for the wider conservation area for the Sussex Bat SACs and all impacts are assessed. This development is within the 12km "wider conservation area" for The Men's SAC and lying within a 'bat sustenance zone' for Barbastelle bats, a designated feature of the SACs as identified in the Sussex Bat Special Area of Conservation Planning and Landscape Scale Enhancement Protocol.

	From the submitted documents, it appears that the and new areas of native species planting is proposed. Therefore there will be no overall loss of hedgerow or woodland on the site.
Potential for Adverse Effects On the Integrity (AEOI) of a Habitats site from the development in combination with other plans and projects.	Based on the scale of the proposed development, and the conclusions of the HDC Local Plan HRA, any further search using data from surrounding LPA planning portals for other projects was not considered necessary. Horsham District Planning Framework (HDPF, 2015), Section 9.34 within Policy 31 states: In the case of The Men's, development must not impact on bat flight paths in the district. As recommended in the Council's Habitat Regulations Assessment of this plan, a 'bat sustenance zone' has been identified and is shown on the Policies Map (see Appendix B). Within this area, it may be necessary for compensatory measures such as hedgerow enhancement to be undertaken prior to any development. The HRA for the Chichester Local Plan Review (ACOM, 2018), considers disturbance of bat flight lines from both The Men's and Ebernoe Common SACs. With regards to The Men's, they conclude that *"Along with implementation of the Sussex Bat Special Area of Conservation Planning and Landscape Scale Enhancement Protocol' (2017), the Chichester Local Plan policies provide a protective framework for the SAC and the Local Plan Review will not result in an adverse effect in integrity on this SAC".* The HRA Appropriate Assessment for development in the locality which could act in combination relates to Land at Wiltshire Farm, Pickhurst Lane, Codmore Hill, Pulborough (DC/19/0591) for redevelopment of Wiltshire Farm, Pulborough (Place Services, August 2019). The site comprises a number of outbuildings and grassland fields. The proposals entail the demolition of barn on site and construction of a replacement residential accommodation, concluded with mitigation secured, no adverse effect on site integrity of The Men's SAC or Ebernoe Common either alone or in combination with other plans and projects and Natural England agreed with this decision. Other developments within the wider conservation zone for The Men's SAC include the HRA Appropriate Assessment (Place Services, May 2020) for Land at Lyons Farm Lyons Road Slinfold (DC/19/1723) for an outline application for the erection of a continuing care retirement community, concluded with mitigation secured, no adverse effect on site integrity of The Men's SAC either alone or in combination with other plans and projects and Natural England agreed with this decision. This was refused consent and a decision of appeal APP/Z3825/W/20/3265874 is still awaited as the Hearing is in progress. The HRA Appropriate Assessment (Place Services, June 2020) for Land at Wellcross Farm Broadbridge Heath (DC/19/1897) which was allowed at appeal (APP/Z3825/W/20/3262938) also for an outline application for the erection of a continuing care retirement community, concluded with mitigation secured, no adverse effect on site integrity of The Men's SAC or Ebernoe Common either alone or in combination with other plans and projects and Natural England agreed with this decision. The HRA Appropriate Assessment (Place Services, Feb 2021) for Land at Duckmoor East of Billingshurst (DC/20/2607) for an Outline Application for the development of 83 residential units, landscaping, access, parking and associated infrastructure on land at Duckmoor, East Billingshurst concluded that with mitigation secured the project will avoid an Adverse Effect on the Integrity of the Habitats sites listed in this assessment, either alone or in combination with other plan and projects. The application was refused consent but allowed at appeal (APP/Z3825/W/21/3283823). Natural England has confirmed that it has no objection to the development, providing all relevant mitigation is secured in any planning permission which the Inspector has included in the decision notice.

	Additional HRA Appropriate Assessment for development in the locality which have been deemed to have, with mitigation secured, no adverse effect on site integrity of The Men's SAC or Ebernoe Common either alone or in combination with other plans and projects include: DC/22/0141 (Cattlestone Farm, Pulborough), SDNP/20/05831/FUL (Pulborough Garden Centre), DC/21/2530 (Land South of East Street Billingshurst), DC/20/2567 (Billhook Farm West, Billinghurst), DC/19/02952 (Land at Platts Roundabout, Billinghurst) and DC/22/0141 (Cattlestone Farm, West Chiltington). Other developments nearby over the past 6 years have comprised of smaller developments such as extensions and building conversions. No in - combination effects are therefore considered likely to result from the on-site proposals and these small-scale developments. Any development proposals in the wider area around Broadbridge Heath will need to be assessed within the Horsham Local Plan HRA Appropriate Assessment or bespoke assessments at application stage. Given the above, and once the mitigation and compensation measures have been incorporated and secured, there is no potential for significant impacts from the proposals, it is considered that there is no potential for the development proposals to contribute to any adverse effects on integrity, in combination with other plans and projects.
Proposed mitigation for the project to secure the mitigation as a condition of any consent	**Summary of mitigation package** If external lighting is required, the implementation of an ecologically sensitive lighting scheme which specifies that lighting should comply with Bat Conservation Trust and the Institution of Lighting Professionals, including the measures recommended by GN:08/23 (ILP) (Ecological Impact Assessment Revision 01 (Lizard Landscape Design and Ecology, December 2023)). Retention of ten scattered trees, two groups of trees and four ornamental hedgerows (Ecological Impact Assessment Revision 01 (Lizard Landscape Design and Ecology, December 2023)). The implementation of a planting plan with native hedgerow and shrub species (Ecological Impact Assessment Revision 01 (Lizard Landscape Design and Ecology, December 2023)). The avoidance and mitigation measures are considered appropriate to avoid adverse effects on the integrity of the interest features (Barbastelles) of The Men's SAC likely to occur within the site. The measures will be secured by a condition of any consent.
Test 2 – the integrity test	**Conclusion:** Having considered the proposed avoidance and mitigation measures above, Horsham District Council concludes that, the project will avoid an Adverse Effect on the Integrity of the Habitats sites listed in this assessment, either alone or in combination with other plan and projects. Having made this appropriate assessment of the implications of the project for the sites in view of those sites' conservation objectives and having consulted Natural England and fully considered any representation received where necessary, the authority may now agree to the project under regulation 63 of the Conservation of Habitats and Species Regulations 2017 (as amended). As the mitigation has been considered after HRA screening, this HRA Appropriate Assessment is in line with the People over Wind CJEU Court ruling.

Approving Ecologist: Genevieve Broad, Ecological Consultant - Place Services

Date: 4th March 2024

DISCLAIMER: This information has been produced by Place Services's Ecology Team on behalf of Horsham District Council, at their request.