

Habitats Regulations Assessment of the Epsom and Ewell Local Plan

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Interim Habitats Regulations Assessment Report

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LEPUS CONSULTING
LANDSCAPE, ECOLOGY, PLANNING & URBAN SUSTAINABILITY

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Publication Plan Regulation 19 Interim Habitats Regulations Assessment Report

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Acronyms & Abbreviations

AA	Appropriate Assessment
AADT	Annual Average Daily Traffic
A-dep	Acid deposition
ALS	Abstraction License Strategy
APIS	Air Pollution Information System
CAMS	Catchment Abstraction Strategy
CIEEM	Chartered Institute of Ecology and Environmental Management
CJEU	Court of Justice of the European Union
CSZ	Core Sustenance Zone
DfT	Department for Transport
DMRB	Design Manual for Roads and Bridges
DTA	David Tyldesley and Associates
EA	Environment Agency
EP	Environmental Permits
FLL	Functionally Linked Land
GCN	Great Crested Newt
GIS	Geographic Information System
HDV	Heavy Duty Vehicle
HRA	Habitats Regulations Assessment
IAQM	Institute of Air Quality Management
IROPI	Imperative Reasons of Overriding Public Interest
IRZ	Impact Risk Zone
IUCN	International Union for Conservation of Nature
JNCC	Joint Nature Conservation Committee
LDF	Local Development Framework
LGW	London Gatwick
LPA	Local Planning Authority
LSE	Likely Significant Effect
N-dep	Nitrogen deposition
NH ₃	Ammonia
NOx	Nitrogen oxides
NPPF	National Planning Policy Framework
PEBR	Planning Evidence Base Review
ppSPA	Possible Potential Special Protection Area
PRoW	Public Right of Way

pSAC	Potential Special Area of Conservation
RBMP	River Basin Management Plan
SAC	Special Area of Conservation
SAMMS	Strategic Access Management and Monitoring Strategy
SES	Sutton and East Surrey
SIP	Site Improvement Plan
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
STW	Sewerage Treatment Works
SuDS	Sustainable Urban Drainage
SWMC	Surface Water Management Catchment
TW	Thames Water
UK	United Kingdom
WFD	Water Framework Directive
WRMP	Water Resource Management Plan
WRSE	Water Resources South East
WRZ	Water Resource Zone
WwTW	Wastewater Treatment Works
ZOI	Zone of Influence

Executive Summary

Introduction

- E1. Lepus Consulting has been appointed, on behalf of Epsom and Ewell Council to undertake a Habitats Regulations Assessment (HRA) in compliance with the Habitats Regulations (as amended)¹ of the Publication Epsom and Ewell Local Plan at Regulation 19.
- E2. This interim Regulation 19 report provides the outputs of the HRA process which has been undertaken alongside preparation of the Local Plan.

Screening Outcomes (HRA Stage 1)

- E3. The Local Plan is not directly connected with or necessary to the management of any European site. Consideration was therefore given to potential links or causal connections between the effects of the Local Plan and European sites within the study area to identify Likely Significant Effects (LSEs). This exercise was undertaken through the collation of information for each European site and application of a 'source-pathway-receptor' model.
- E4. Taking no account of mitigation measures, the screening stage concluded that the Local Plan has the potential to have LSEs at the following European sites:
- Mole Gap to Reigate Escarpment SAC – air quality and recreational pressure LSEs;
 - South West London Waterbodies SPA – water quantity LSEs;
 - South West London Waterbodies Ramsar – water quantity LSEs; and
 - Wimbledon Common SAC – water quantity LSEs.
- E5. The identification of LSEs at the screening stage triggered the requirement for an Appropriate Assessment (AA), stage 2 of the HRA process.

Appropriate Assessment Outcomes (HRA Stage 2)

Air Quality Appropriate Assessment

- E6. At the time of writing air quality modelling was not available to evaluate air quality impacts associated with the Local Plan at the Mole Gap to Reigate Escarpment SAC. It is therefore not possible to conclude whether the Local Plan will have an adverse impact upon the integrity of the Mole Gap to Reigate Escarpment SAC. Further work in the form of air quality modelling is currently being scoped by the Council, in consultation with Natural England, and will inform a full AA of air quality impacts in due course. Once air quality modelling has been evaluated, this interim HRA report will be finalised and a conclusion of adverse impacts reached.

¹ The Conservation of Habitats and Species Regulations 2017 SI No. 2017/1012, TSO (The Stationery Office), London. Available at: <https://www.legislation.gov.uk/uksi/2017/1012/contents> [Accessed: 14/12/22] as amended by The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019. Available at: <https://www.legislation.gov.uk/ukdsi/2019/9780111176573> [Accessed: 12/07/24].

Water Quality and Water Quantity Appropriate Assessment

- E7. The potential effects of a change in water quantity due to Local Plan development on the South West London Waterbodies SPA, South West London Waterbodies Ramsar and Wimbledon Common SAC were evaluated as part of the appropriate assessment. This took into account the high-level regulatory water quantity protective frameworks which address Local Plan and in-combination growth in neighbouring areas such as Water Resource Management Plans and Drought Plans. It also took into consideration Local Plan requirements for new development set out in policy wording. This information was analysed in the context of the conservation objectives for each European site. It was concluded that no adverse impacts on the site integrity at any European site due to a change in water quantity will arise as a result of the Local Plan either alone or in-combination.

Recreation Pressure Appropriate Assessment

- E8. The effects of increased recreational pressure upon the Mole Gap to Reigate Escarpment SAC due to Local Plan growth were evaluated as part of the appropriate assessment. This took into consideration the availability of alternative recreational space locally, barriers to movement and Local Plan policy requirements in terms of open spaces. Taking these factors into consideration it was concluded that no adverse impacts on the site integrity at any European site due to an increase in recreational pressure as a result of the Local Plan either alone or in-combination.

Conclusions

- E9. The AA has concluded no adverse impacts on the site integrity of any European site due to a change in water quality, or quantity or an increase in recreational pressure, as a result of the Local Plan either alone or in-combination.
- E10. This report has however not been able to reach a conclusion regarding potential adverse air quality impacts upon the site integrity of Mole Gap to Reigate Escarpment SAC. Further air quality modelling work, to be commissioned by the Council, will be evaluated to further inform the appropriate assessment. Once the result of the air quality modelling has been evaluated, this interim HRA report can be completed.
- E11. The final Regulation 19 HRA report will then be submitted to Natural England, the statutory nature conservation body, for formal consultation as part of the Regulation 19 consultation. Epsom and Ewell Council must 'have regard' to their representations under the provisions of Habitats Regulations prior to making a final decision as to whether they will 'adopt' the conclusions set out within this report as their own.

1 Introduction

1.1 Background

1.1.1 Epsom and Ewell Borough Council (the Council) is currently preparing the Epsom and Ewell Local Plan, hereafter referred to as the 'Local Plan'. The Local Plan will contain strategic and non-strategic planning policies and site allocations intended to support growth in Epsom and Ewell over the plan period to 2040. The Local Plan contains a Vision for Epsom and Ewell which is underpinned by strategic objectives and priorities. Planning policies set out in the Local Plan will guide land use and development across the Borough and set standards for growth and transformation.

1.1.2 The Local Plan will cover the Council's administrative area including the main conurbations of Epsom and Ewell. This area is hereafter referred to as the 'Plan area' and is illustrated in **Figure 1.1**.

1.1.3 Once adopted, the Local Plan will replace and update the following:

- Epsom and Ewell Core Strategy (adopted 2007)²
- Plan E – An Area Action Plan for Epsom Town Centre (adopted 2011)³
- Development Management Policies (adopted 2015)⁴

1.1.4 From February to March 2023, the Council consulted on the Regulation 18 Draft Local Plan: Preferred Options⁵ as part of the plan making process. The responses to this consultation have informed the Regulation 19 Version of the Local Plan⁶.

² Epsom and Ewell Borough Council (2007) Core Strategy 2007. Available at: <https://www.epsom-ewell.gov.uk/sites/default/files/documents/residents/planning/planning-policy/Core%20Strategy%202007.pdf> [Accessed 11/09/24].

³ Epsom and Ewell Borough Council (April 2011) Plan E Epsom Town Centre Area Action Plan. Available at: <https://www.epsom-ewell.gov.uk/sites/default/files/documents/residents/planning/planning-policy/Plan%20E%20final%20version.pdf> [Accessed 11/09/24].

⁴ Epsom and Ewell Borough Council (September 2015) Development Management Policies Document. Available at: <https://www.epsom-ewell.gov.uk/sites/default/files/documents/residents/planning/planning-policy/Development%20Management%20Policies%20Document%20Final%20Version.pdf> [Accessed 11/09/24].

⁵ Epsom and Ewell Borough Council (February 2023) Epsom and Ewell Local Plan 2022-2040 – Draft Local Plan Regulation 18 Consultation. Available at: <https://epsom-ewell.gov.uk/sites/default/files/documents/residents/planning/planning-policy/epsom-and-ewell-local-plan/EPSON%20AND%20EWELL%20DRAFT%20LOCAL%20PLAN%20V2.pdf> [Accessed 11/09/24].

⁶ Epsom and Ewell Borough Council. Draft Local Plan: Preferred Options (2022-2040_). Available at: <https://www.epsom-ewell.gov.uk/local-plan> [Accessed 11/09/24].

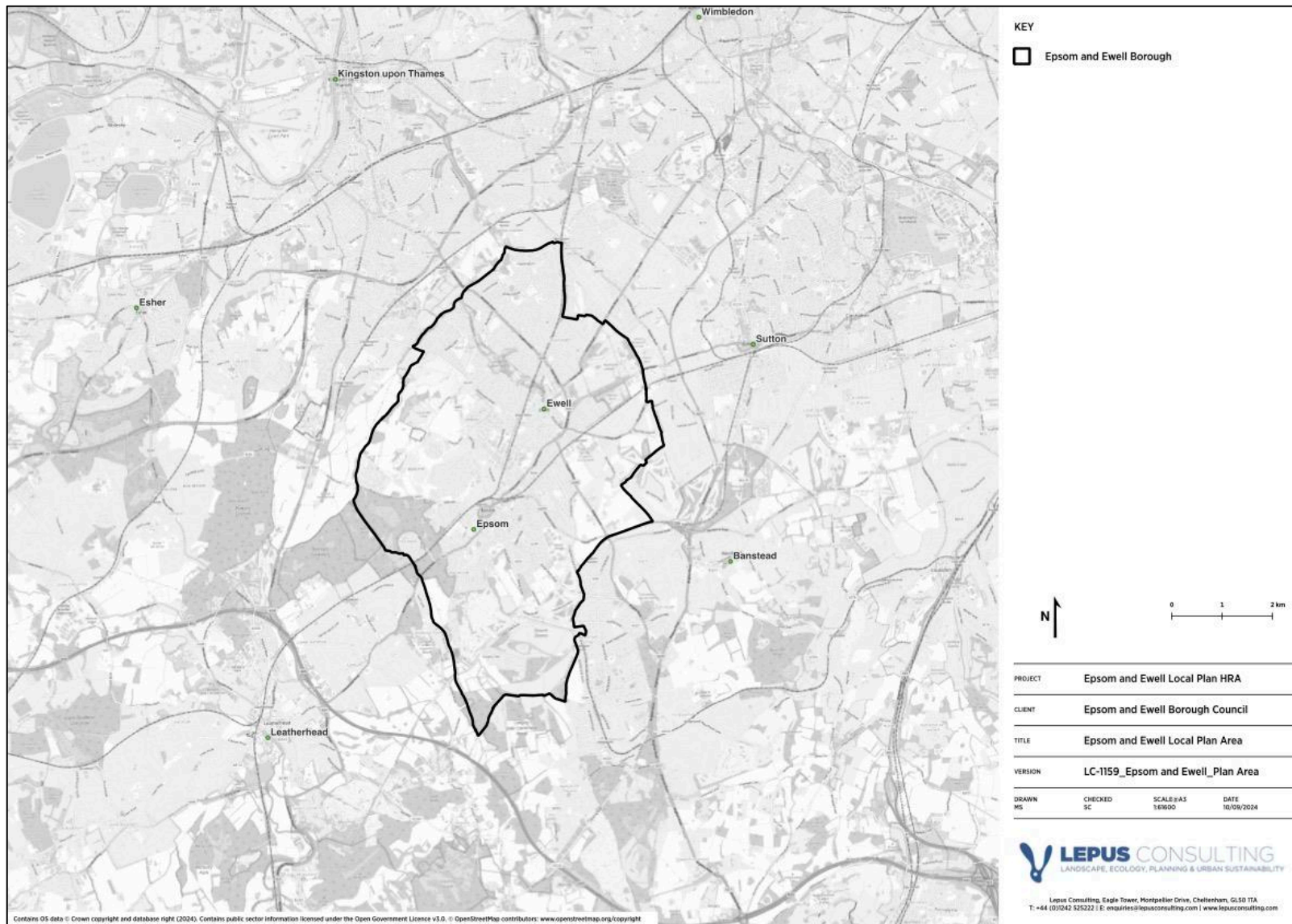


Figure 1.1: Epsom and Ewell Local Plan Area

1.2 Habitats Regulations Assessment

1.2.1 The application of HRA to land-use plans is a requirement of the Conservation of Habitats and Species Regulations 2017 (as amended)⁷. HRA applies to plans and projects, including all Local Development Documents in England and Wales.

1.2.2 Where a plan is likely to have a significant effect on a European site (either alone or in combination) and is not directly connected with or necessary to the management of the European site, Regulation 105 of the Habitats Regulations notes that the plan making authority for that plan must, before the plan is given effect, make an Appropriate Assessment (AA) of the implications for the site in view of that site's conservation objectives. These tests are referred to collectively as a Habitats Regulations Assessment (HRA).

1.2.3 The Habitats Regulations⁸ provide a definition of a European site at Regulation 8. These sites include Special Areas of Conservation (SAC), Sites of Community Importance, Special Protection Areas (SPA) and sites proposed to the European Commission in accordance with Article 4(1) of the Habitats Directive. In addition, policy in England and Wales notes that the following sites should also be given the same level of protection as a European site⁹:

- A potential SPA (pSPA)
- A possible / proposed SAC (pSAC)
- Listed and proposed Ramsar Sites (wetland of international importance)
- In England, sites identified or required as compensation measures for adverse effects on statutory European sites, pSPA, pSAC, and listed or proposed Ramsar sites.

1.3 Previous HRA work

1.3.1 In January 2023, Lepus Consulting prepared an HRA¹⁰ of the Draft Local Plan: Preferred Options at Regulation 18. This included a scoping assessment of European sites and an initial screening assessment of Local Plan policies. It identified LSEs at the following European sites:

- Mole Gap to Reigate Escarpment SAC – air quality, impacts on functionally linked land and recreational pressures;
- Thames Basin Heaths SPA – air quality; and
- Wimbledon Common SAC – air quality and hydrology.

⁷ The Conservation of Habitats and Species Regulations 2017 SI No. 2017/1012, TSO (The Stationery Office), London, as amended by The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019.

⁸ Conservation of Habitats and Species Regulations 2017 SI No. 2017/1012, TSO (The Stationery Office), London, as amended by The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019.

⁹ Department for Levelling up, Housing and Communities & Local Government (2023). National Planning Policy Framework. Para 187.

¹⁰ Lepus Consulting (January 2023) Habitats Regulations Assessment of the Epsom and Ewell Draft Local Plan. Public Consultation: Regulation 18.

1.3.2 These initial findings provide useful baseline information for the HRA at Regulation 19.

1.4 Purpose of this report

1.4.1 Lepus Consulting has prepared this interim report to inform the HRA of the Regulation 19 Local Plan on behalf of Epsom and Ewell Borough Council (the Council). Once air quality modelling is available and can be evaluated, this interim HRA report will be finalised. The Council, as the Competent Authority, will have responsibility to make the Integrity Test. This can be undertaken in light of the conclusions set out in the final Regulation 19 HRA report, having regard to representations made by Natural England under the provisions of the Habitats Regulations.

1.4.2 This HRA report has been prepared in accordance with the Habitats Regulations and has been informed by the following guidance:

- Planning Practice Guidance: Appropriate Assessment¹¹; and
- The Habitat Regulations Assessment Handbook - David Tyldesley and Associates (referred to hereafter as the DTA Handbook), 2013 (in particular Part F: 'Practical Guidance for the Assessment of Plans under the Regulations')¹².

¹¹ Department for Levelling Up, Housing and Communities (July 2019) Planning Practice Guidance Note, Appropriate Assessment, Guidance on the use of Habitats Regulations Assessment.

¹² Tyldesley, D., and Chapman, C. (2013) The Habitats Regulations Assessment Handbook (June) (2024) edition UK: DTA Publications Limited.

2 Methodology

2.1 Overview

2.1.1 HRA is a rigorous precautionary process centred around the conservation objectives of a European site's qualifying interests. It is intended to ensure that European sites are protected from impacts that could adversely affect their integrity. A step-by-step guide to the methodology followed for the HRA is illustrated in **Figure 2.1**. This HRA report provides outputs from Stage 1 and Stage 2 of the HRA process.



Figure 2.1: Stages in the Habitats Regulations Assessment process¹³

¹³ Tyldesley, D., and Chapman, C. (2013) The Habitats Regulations Assessment Handbook (January) (2021) edition UK: DTA Publications Limited.

2.2 Stage 1: Screening for Likely Significant Effects

- 2.2.1 The first stage in the HRA process comprises the screening stage (see **Figure 2.1**). The purpose of the screening process is to firstly determine whether a plan is either (1) exempt (because it is directly connected with or necessary to the management of a European site), (2) whether it can be excluded (because it is not a plan), or (3) eliminated (because there would be no conceivable effects), from the HRA process. If none of these conditions apply, it is next necessary to identify whether there are any aspects of the plan which may lead to an LSE at a European site, either alone or in-combination with other plans or projects.
- 2.2.2 Screening was undertaken of the Draft Local Plan at Regulation 18 which indicated that it had the potential to have LSEs on a number of European sites. It therefore concluded that the Local Plan would be screened into the HRA process, and an AA would be required (Stage 2 - **Figure 2.1**).
- 2.2.3 Where elements of the Local Plan have been updated in response to the Regulation 18 consultation, these components have been re-screened to determine whether the Publication Local Plan is likely to have an LSE alone or in-combination. The codes set out in **Table 2.1** are used to inform the formal screening decision (Column 2). The results of this re-screening exercise are presented in **Chapter 4** of this report.

Table 2.1: Screening evaluation categories from Part F of the DTA Handbook¹⁴

Screening evaluation and reasoning categories from Chapter F of the Habitats Regulations Assessment Handbook (DTA Publications, 2013):	Screen in / screen out
A. General statements of policy / general aspirations	Screen Out
B. Policies listing general criteria for testing the acceptability / sustainability of proposals.	Screen Out
C. Proposal referred to but not proposed by the Plan.	Screen Out
D. General plan-wide environmental protection / designated site safeguarding / threshold policies.	Screen Out
E. Policies or proposals that steer change in such a way as to protect European sites from adverse effects.	Screen Out
F. Policies or proposals that cannot lead to development or other change.	Screen Out
G. Policies or proposals that could not have any conceivable or adverse effect on a site.	Screen Out
H. Policies or proposals the (actual or theoretical) effects of which cannot undermine the conservation objectives (either alone or in-combination with other aspects of this or other plans or projects).	Screen Out
I. Policies or proposals with a Likely Significant Effect on a site alone.	Screen In
J. Policies or proposals unlikely to have a significant effect alone.	Screen Out
K. Policies or proposals unlikely to have a significant effect either alone or in-combination.	Screen Out

¹⁴ Tyldesley, D., and Chapman, C. (2013) The Habitats Regulations Assessment Handbook (December) (2019) edition UK: DTA Publications Limited. Available at: <http://www.dtapublications.co.uk/> [Accessed: 10/01/24].

Screening evaluation and reasoning categories from Chapter F of the Habitats Regulations Assessment Handbook (DTA Publications, 2013):	Screen in / screen out
L. Policies or proposals which might be likely to have a significant effect in-combination.	Screen In
M. Bespoke area, site or case-specific policies or proposals intended to avoid or reduce harmful effects on a European site.	Screen In

2.2.4 The judgement by the European Court of Justice on the interpretation of the Habitats Directive in the case of *People Over Wind and Sweetman vs Coillte Teoranta* (Case C-323/17¹⁵) determined that mitigation measures are only permitted to be considered as part of the AA stage of the HRA process. The HRA screening process has therefore taken no account of incorporated mitigation or avoidance measures that are intended to avoid or reduce harmful effects on a European site when assessing the LSEs of the Local Plan on European sites. These are measures which, if removed (i.e. should they no longer be required for the benefit of a European site), would still allow the lawful and practical implementation of a plan.

2.3 In-combination effects

2.3.1 If the conclusion of the screening exercise indicates that there are no LSEs from the Local Plan alone, it is necessary to then consider whether the effects of the Local Plan in-combination with other plans and projects would combine to result in an LSE on any European site. It may be that the Local Plan alone will not have an LSE but could have a residual effect which may contribute to in-combination LSEs on a European site. The in-combination assessment that has been prepared in this report is compliant with the *Wealden Judgement* (2017)¹⁶.

2.3.2 Plans and projects which are considered to be of most relevance to the in-combination assessment of the Local Plan include those that have similar impact pathways (see **Appendix A**). These include those plans and projects which have the potential to increase development in the HRA study area including the following Local Planning Authority (LPA) local development plans:

- Croydon Council¹⁷
- Elmbridge Borough Council¹⁸
- Guildford Borough Council¹⁹
- Lambeth Council²⁰

¹⁵ InfoCuria (2018) Case C-323/17. Available at:

<http://curia.europa.eu/juris/document/document.jsf?docid=200970&doclang=EN> [Accessed: 10/01/24].

¹⁶ Wealden District Council & Lewes District Council before Mr Justice Jay. Available at:

<http://www.bailii.org/ew/cases/EWHC/Admin/2017/351.html> [Accessed: 17/06/24].

¹⁷ Croydon Council. Croydon Local Plan review. Available at: <https://www.croydon.gov.uk/planning-and-regeneration/planning-policy/local-plan-review/croydon-local-plan-review> [Accessed 20/09/24].

¹⁸ Elmbridge Borough Council. New Local Plan. Available at: <https://www.elmbridge.gov.uk/planning/new-local-plan> [Accessed 10/09/24].

¹⁹ Guildford Borough. Local Plan. Available at: <https://www.guildford.gov.uk/localplan> [Accessed 10/09/24].

²⁰ Lambeth Council. Lambeth Local Plan 2021. Available at: <https://www.lambeth.gov.uk/planning-building-control/planning-policy-guidance/lambeth-local-plan-2021> [Accessed 10/09/24].

- London Borough of Richmond upon Thames²¹
- Merton Council²²
- Mole Valley District Council²³
- Reigate and Banstead Council²⁴
- Spelthorne Borough Council²⁵
- Sutton Council²⁶
- Tandridge District Council²⁷
- The Royal Borough of Kingston upon Thames²⁸
- Wandsworth Borough Council²⁹

2.3.3 In addition, other plans and projects with the potential to increase traffic across the study area have the potential to act in-combination with the Local Plan such as the Surrey County Council development plans³⁰ which includes waste, mineral and transport plans. Plans which allocate water resources or are likely to influence water quality in the study area have also been considered, including the Thames River Basin Management Plan (RBMP)³¹, Thames Water Resources Management Plan (WRMP)³² and Sutton and East Surrey Water (SES) WRMP³³ (**Appendix A**).

²¹ London Borough of Richmond upon Thames. Local Plan. Available at: https://www.richmond.gov.uk/local_plan [Accessed 10/09/24].

²² London Borough of Merton. New Local Plan. Available at: <https://www.merton.gov.uk/planning-and-buildings/planning/local-plan/newlocalplan> [Accessed 10/09/24].

²³ Mole Valley District Council. Future Mole Valley (Local Plan 2020-2037). Available at: <https://www.molevalley.gov.uk/planning-building/future-mole-valley-local-plan-2020-2037/> [Accessed 10/09/24].

²⁴ Reigate and Banstead Council. Local Plan. Available at: https://www.reigate-banstead.gov.uk/info/20271/local_plan [Accessed 10/09/24].

²⁵ Spelthorne Borough Council. Emerging Local Plan 2022-2037. Available at: <https://www.spelthorne.gov.uk/article/17619/Emerging-Local-Plan-2022-2037> [Accessed 10/09/24].

²⁶ Sutton Council. The Local Plan. Available at: <https://www.sutton.gov.uk/w/the-local-plan> [Accessed 10/09/24].

²⁷ Tandridge District Council. Emerging policies. Available at: <https://www.tandridge.gov.uk/Planning-and-building/Planning-strategies-and-policies/Emerging-policies> [Accessed 10/09/24].

²⁸ The Royal Borough of Kingston upon Thames. Local Plan. Available at: <https://www.kingston.gov.uk/policy/new-local-plan> [Accessed 10/09/24].

²⁹ Wandsworth Borough Council. The Local Plan. Available at: <https://www.wandsworth.gov.uk/localplan> [Accessed 10/09/24].

³⁰ Surrey County Council. Development plans. Available at: <https://www.surreycc.gov.uk/land-planning-and-development/planning/introduction-to-planning/development-plans> [Accessed 10/09/24].

³¹ Environment Agency (2022) Thames river basin district river basin management plan: updated 2022. Available at: <https://www.gov.uk/guidance/thames-river-basin-district-river-basin-management-plan-updated-2022> [Accessed 08/07/24].

³² Thames Water (April 2020) Shape your future: Our Water Resources Management Plan 2020-2100. Available at: <https://www.thameswater.co.uk/media-library/home/about-us/regulation/water-resources/water-resources-management-plan-overview.pdf> [Accessed 10/07/24].

³³ SES Water (2022) Our Water Resources Management Plan. Available at: <https://seswater.co.uk/about-us/publications/our-water-resources-management-plan> [Accessed 10/09/24].

2.4 Stage 2: Appropriate Assessment and Integrity Test

2.4.1 Stage 2 of the HRA process comprises the AA and Integrity Test. The purpose of the AA is to undertake an assessment of the implications of a plan for a European site in light of its conservation objectives³⁴.

2.4.2 As part of this process, plan makers should take account of the potential consequences of no action, the uncertainties inherent in scientific evaluation and they should consult interested parties on the possible ways of managing the risk, for instance, through the adoption of mitigation measures. Mitigation measures should aim to avoid, minimise or reduce significant effects on European sites. Mitigation measures may take the form of policies within the Local Plan, or mitigation proposed through other plans or regulatory mechanisms. All mitigation measures must be deliverable and able to mitigate the adverse effects for which they are targeted.

2.4.3 The AA aims to present information in respect of all aspects of the Local Plan and ways in which it could, either alone or in-combination with other plans and projects, impact a European site. The plan making body (as the Competent Authority) must then ascertain, based on the findings of the AA, whether the Publication Local Plan will adversely affect the integrity of a European site either alone or in-combination with other plans and projects. This is referred to as the Integrity Test.

2.5 Dealing with uncertainty

2.5.1 Uncertainty is an inherent characteristic of an HRA, and decisions can be made using currently available and relevant information. This concept is reinforced in the 7th September 2004 'Waddenzee' ruling³⁵:

2.5.2 'However, the necessary certainty cannot be construed as meaning absolute certainty since that is almost impossible to attain. Instead, it is clear from the second sentence of Article 6(3) of the Habitats Directive that the competent authorities must take a decision having assessed all the relevant information which is set out in particular in the AA. The conclusion of this assessment is, of necessity, subjective in nature. Therefore, the competent authorities can, from their point of view, be certain that there will be no adverse effects even though, from an objective point of view, there is no absolute certainty.'

2.6 The Precautionary Principle

2.6.1 The HRA process is characterised by the Precautionary Principle which is embedded in the Integrity Test. The Precautionary Principle aims to ensure a higher level of environmental protection through preventative decision-taking in the case of risk³⁶.

³⁴ Department of Levelling Up, Housing and Communities (July 2019) Planning Practice Guidance Note, Appropriate Assessment, Guidance on the use of Habitats Regulations Assessment.

³⁵ EC Case C-127/02 Reference for a Preliminary Ruling 'Waddenzee' 7th September 2004 Advocate General's Opinion (para 107).

³⁶ EUR-Lex. The Precautionary Principle. Available at: <https://eur-lex.europa.eu/EN/legal-content/summary/the-precautionary-principle.html> [Accessed: 07/03/24].

3 Scoping of threats and pressures at European sites

3.1 Introduction

3.1.1 An important initial stage of the screening process is gathering information on European sites which may be affected by the Local Plan. This is informally known as scoping and provides an understanding of potential impact pathways from the Local Plan and connections to European sites and their vulnerabilities. This information is then used to inform the screening assessment (**Chapter 4**). A scoping exercise was undertaken at Regulation 18 as part of the Draft Local Plan: Preferred Options HRA. This chapter therefore presents an update to baseline information for each European site and their associated threats and pressures in the context of potential impacts from the Publication Local Plan at Regulation 19.

3.2 Identification of a HRA study area

3.2.1 Each European site has its own intrinsic qualities, besides the habitats or species for which it has been designated, that enables the site to support its particular ecosystems. An important aspect of this is that the ecological integrity of each site can be vulnerable to change from natural and human induced activities in the surrounding environment (known as pressures and threats). For example, sites can be affected by land use plans in a number of different ways, including the direct land take of new development, the type of use the land will be put to (for example, an extractive or noise-emitting use), or the pollution / threat a development generates (air pollution, water pollution or increased recreational pressure), and the resources used (for example water abstraction).

3.2.2 An intrinsic quality of any European site is its functionality at the landscape ecology scale. This refers to how the site interacts with its immediate surroundings as well as the wider area. This is particularly the case where there is potential for development resulting from a plan to generate water or air-borne pollutants, use water resources or otherwise affect water levels. Adverse effects may also occur via impacts to mobile species occurring outside a designated site boundary, but which are qualifying features of the site. For example, there may be effects on protected birds, bats and fish which use land outside a designated site for foraging, feeding, roosting, breeding or other activities.

3.2.3 There is no guidance that defines the study area for inclusion in an HRA. Planning Practice Guidance for AA³⁷ indicates that: 'The scope and content of an appropriate assessment will depend on the nature, location, duration and scale of the proposed plan or project and the interest features of the relevant site. 'Appropriate' is not a technical term. It indicates that an assessment needs to be proportionate and sufficient to support the task of the competent authority in determining whether the plan or project will adversely affect the integrity of the site'.

³⁷ Department for Levelling Up, Housing and Communities (July 2019) Planning Practice Guidance Note, Appropriate Assessment, Guidance on the use of Habitats Regulations Assessment.

3.2.4 This scoping exercise will help to determine the HRA study area and therefore which European sites will be considered in the HRA process.

3.3 Scoping impact pathways

3.3.1 Threats and pressures to which European sites are vulnerable have been identified through reference to data held by the JNCC and Natural England and through reference to Ramsar Information Sheets and Site Improvement Plans (SIPs). This information provides current and predicted issues at each European site and is summarised in **Appendix B**.

3.3.2 Supplementary advice notices prepared by Natural England often provide more recent information on threats and pressures upon European sites than SIPs and have therefore also been reviewed. A number of threats and pressures are unlikely to be exacerbated by the Local Plan and have therefore not been considered.

3.3.3 Sites of Special Scientific Interest (SSSIs) are protected areas in the United Kingdom designated for conservation. SSSIs are the building blocks of site-based nature conservation in the UK. A SSSI will be designated based on the characteristics of its fauna, flora, geology and/or geomorphology. Whilst typically analogous in ecological function, the reasons for its designation can be entirely different to those for which the same area is designated as a SAC, SPA or Ramsar.

3.3.4 Natural England periodically assesses the conservation conditions of each SSSI unit, assigning it a status. The conservation status of each SSSI highlights any European site that is currently particularly vulnerable to threats/pressures. Conservation status is defined as follows:

- Favourable;
- Unfavourable – recovering;
- Unfavourable – no change; or
- Unfavourable – declining.

3.3.5 SSSI units in either an 'Unfavourable – no change' or 'Unfavourable – declining' condition indicate that the European site may be particularly vulnerable to certain threats or pressures. It is important to remember that the SSSI may be in an unfavourable state due to the condition of features unrelated to its designation. However, it is considered that the conservation status of SSSI units that overlap with European sites offer a useful indicator of habitat / species health at a particular location.

3.3.6 Natural England defines zones around each SSSI which may be at risk from specific types of development, known as Impact Risk Zones (IRZ). IRZs are 'a GIS tool developed by Natural England to make a rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts. The IRZs also cover the interest features and sensitivities of European sites, which are underpinned by the SSSI designation and "Compensation Sites", which have been secured as compensation for impacts on Natura 2000/Ramsar sites'³⁸. The location of IRZs has been taken into consideration in this assessment as they provide a useful guide as to the location of functionally linked land (defined in **paragraph 3.3.7**) and likely vulnerabilities to development proposed within the Local Plan.

3.3.7 Based on the previous HRA work undertaken at Regulation 18, the following potential impact pathways are considered to be within the scope of influence of the Local Plan. Land use planning also has the potential to result in impacts upon qualifying features when located outside a designation boundary, known as functionally linked land (FLL)³⁹. This HRA therefore also considers effects upon FLL or mobile species within the following topic assessments:

- **Air pollution:** Land use planning has the potential to increase atmospheric emissions of pollutants to the air. These can result in adverse effects at European sites such as eutrophication (nitrogen), acidification (nitrogen and sulphur) and direct toxicity (ozone, ammonia and nitrogen oxides)⁴⁰.
- **Water resources and water levels:** Urban development can change run off rates from urbanised areas to European sites or watercourses which run through them. An increase in housing provision can also influence supply and demand for water within the region which may impact water levels.
- **Water quality:** Surface water run-off from urban areas has the potential to reduce the quality of water entering a catchment. Water quality may also be reduced through point source effluent discharges from new development at Wastewater Treatment Works (WwTWs) and other controlled discharge sources. Changes in water quality also have the potential to affect functionally linked land (land or watercourses outside a designated site boundary).
- **Recreational pressure:** New housing development has the potential to increase recreational pressure upon European sites which are accessible to the public.

³⁸ Natural England (2019) Natural England's Impact Risk Zones for Sites of Special Scientific Interest User Guidance. Available at: https://magic.defra.gov.uk/Metadata_for_magic/SSSI%20IRZ%20User%20Guidance%20MAGIC.pdf [Accessed: 14/06/24]

³⁹ "The term 'functional linkage' refers to the role or 'function' that land or sea beyond the boundary of a European site might fulfil in terms of ecologically supporting the populations for which the site was designated or classified. Such land is therefore 'linked' to the European site in question because it provides an important role in maintaining or restoring the population of qualifying species at favourable conservation status". Source: Natural England (2016) Commissioned Report. NECR207. Functional linkage: How areas that are functionally linked to European sites have been considered when they may be affected by plans and projects - a review of authoritative decisions.

⁴⁰ APIS (2016) Ecosystem Services and air pollution impacts.

- **Urbanisation effects:** Urban development has the potential to result in disturbing activities (such as noise, lighting, cat predation and visual disturbance). Disturbance effects may impact upon European sites themselves and also their qualifying features when outside a designated site boundary. It may also result in the fragmentation of connecting habitats and corridors which could hinder the movement of mobile qualifying species when located outside a designated site boundary.

3.4 Air quality

3.4.1 Natural England has developed a standard methodology for the assessment of traffic related air quality impacts under the Habitats Regulations which is relevant to the HRA of land use plans⁴¹. This guidance sets a methodology and thresholds for screening of Likely Significant (air quality) Effects at the HRA screening stage (Stage 1 of the HRA process).

3.4.2 Natural England's guidance (in the form of a series of questions below) has been applied to determine potential air quality impact pathways to European sites:

- Does the Local Plan give rise to emissions which are likely to reach a European site?
- Are the qualifying features of sites within 200m of a road sensitive to air pollution?
- Could the sensitive qualifying features of the site be exposed to emissions?
- Application of screening thresholds (alone and then, if necessary, in-combination).

Does the Local Plan give rise to emissions which are likely to reach a European site?

3.4.3 The Local Plan will trigger housing and employment development and consequently increase traffic-related emissions. Air quality impacts have been shown to typically affect European sites within 10km of a plan boundary⁴². Campman and Kite (2021) note that 'this zone is based on professional judgment recognising that the effects of growth from development beyond 10km will have been accounted for in the Nitrogen Futures modelling work business as usual scenario'⁴³. This 10km distance threshold can be a useful guide to identify the broad areas that may be impacted by air quality. However, it is noted that consideration should also be given to larger residential or commercial allocations and their wider potential for air quality impacts in the context of the local and regional road network.

⁴¹ Natural England (2018) Natural England's approach to advising competent authorities on the assessment of road traffic emissions under the Habitats Regulations (NEA001). Available at: <http://publications.naturalengland.org.uk/publication/4720542048845824> [Accessed: 07/06/24].

⁴² Chapman, C and Kite, B. (2021) Main Report. Guidance on Decision-making Thresholds for Air Pollution. JNCC Report No. 696. Available at: <https://hub.jncc.gov.uk/assets/6cce4f2e-e481-4ec2-b369-2b4026c88447> [Accessed 11/06/24].

⁴³ JNCC. Nitrogen Future. Available at: <https://jncc.gov.uk/our-work/nitrogen-futures/> [Accessed 11/06/24].

- 3.4.4 Data has therefore also been obtained from the Office for National Statistics. This data highlights the most common destinations for journeys to work undertaken by car or van arising from and finishing in the Plan area⁴⁴. The key traffic destinations / origins include neighbouring authority areas such as Sutton, Reigate and Banstead, Mole Valley and Kingston upon Thames.
- 3.4.5 European sites beyond 10km of the Plan area, but within the key commuting areas outlined in **paragraph 3.4.4**, are therefore also considered within this HRA where they are linked to the Plan area via key strategic road links. Key strategic road links provide a clear route linking residential and employment areas to / from the Plan area.

Are the qualifying features of sites within 200m of a road sensitive to air pollution? And could the sensitive qualifying features of the site be exposed to emissions?

- 3.4.6 It is widely accepted that air quality impacts are greatest within 200m of a road source, decreasing with distance^{45,46,47}. Baseline mapping data has been used to determine the proximity of European sites, and their qualifying features, to roads (within 200m) which may result in an exceedance of Natural England's screening thresholds (in particular A and B roads and motorways) within a 10km buffer from the Plan area and within the key commuting area⁴⁸ (**paragraphs 3.4.3 and 3.4.4**). As noted above, the Local Plan will trigger housing and employment development and therefore has the potential to increase traffic related emissions along road links.
- 3.4.7 The UK Air Pollution Information System (APIS) provides information on all European sites and the sensitivity of their qualifying features (habitats and / or species) to air pollution. This data has been interrogated, alongside a desk-based review of site-based data (**Appendix B**) and distribution of qualifying habitat to determine whether there may be impact pathways from the Local Plan to any European site through a change in atmospheric emissions. Consideration has also been given to the location of each European site and connectivity of road links to the Plan area (as set out in **paragraph 3.4.5**).

⁴⁴ Office for National Statistics (2011) Location of usual residence and place of work by method of travel to work (2011 census data). Travel by car or van only. Available at:
<https://www.nomisweb.co.uk/census/2011/WU03UK/chart/1132462281> [Accessed: 17/06/24].

⁴⁵ The Highways Agency, Transport Scotland, Welsh Assembly Government, The Department for Regional Development Northern Ireland (2007) Design Manual for Roads and Bridges, Volume 11, Section 3, Part 1: Air Quality.

⁴⁶ Natural England (2016) The ecological effects of air pollution from road transport: an updated review. Natural England Commissioned Report NECR 199.

⁴⁷ Bignal, K., Ashmore, M. & Power, S. (2004) The ecological effects of diffuse air pollution from road transport. English Nature Research Report No. 580, Peterborough.

⁴⁸ As per Nitrogen Futures Modelling Work – see Paragraph 5.4.8.

Mole Gap to Reigate Escarpment SAC

- 3.4.8 Mole Gap to Reigate Escarpment SAC is located wholly within 10km of the Plan area and within the key commuting area. The SAC is located within 200m of the A24, A25, M25, B2033, B2209, B2032 and A217 as illustrated on **Figure 3.1**.

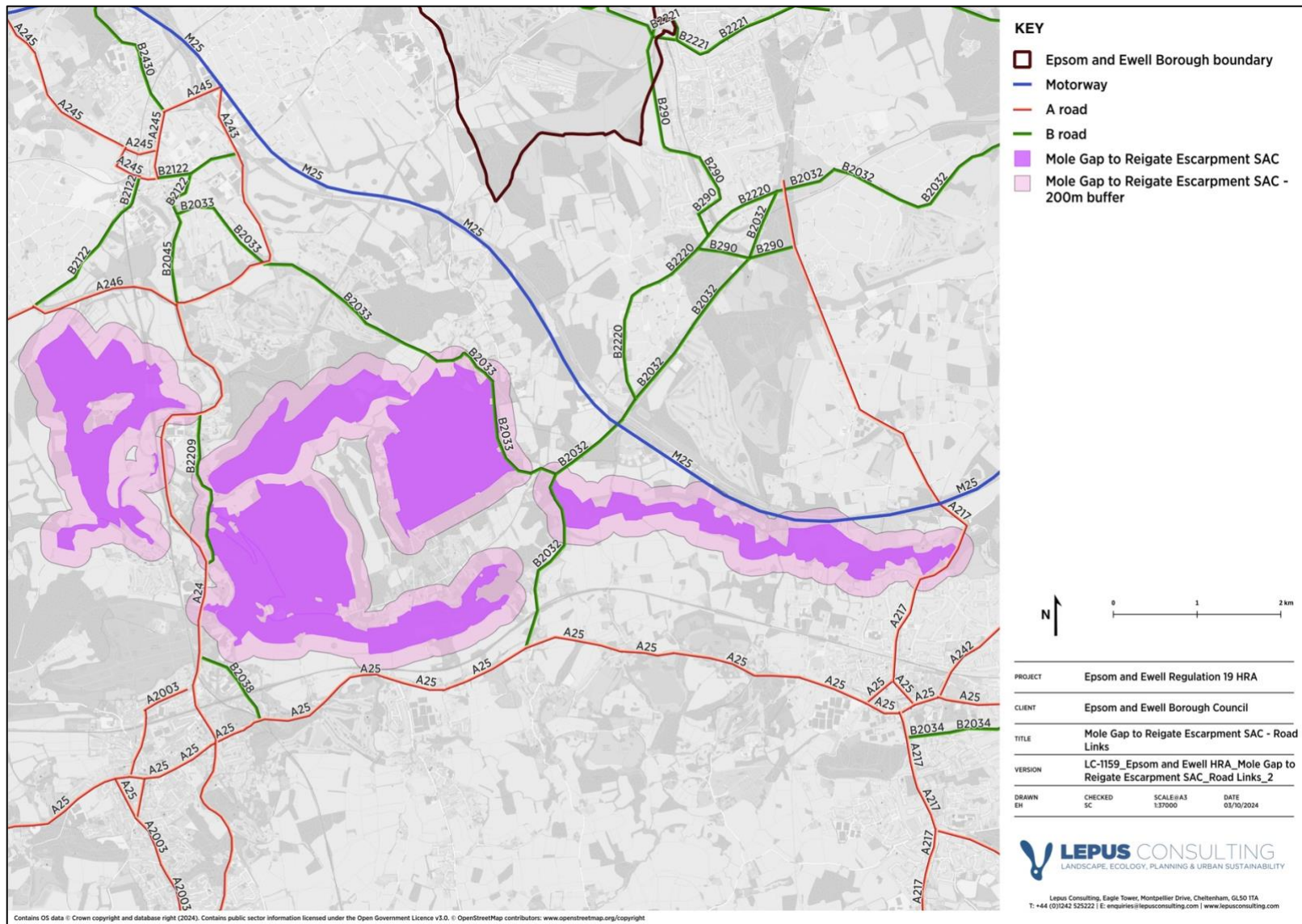


Figure 3.1: Strategic road links within 200m of the Mole Gap to Reigate Escarpment SAC component

- 3.4.9 The qualifying features of the SAC include a number of habitats (listed below) and two species which include Great Crested Newts (GCN, *Triturus cristatus*) and Bechstein's Bat (*Myotis bechsteinii*).
- *Stable xerothermophilous* formations with *Buxus sempervirens* on rock slopes (*Berberidion p.p.*) *Sclerophyllous scrub* (matorral);
 - Semi-natural dry grasslands and scrubland facies on calcareous substrates (*Festuco-Brometalia*) (this includes the priority feature "important orchid rich sites");
 - *Taxus baccata* woods of the British Isles;
 - European dry heaths; and
 - *Asperulo-Fagetum* beech forests.
- 3.4.10 At its nearest point, the M25 is located within 67m of the SAC, with an area of approx. 5.5ha of the SAC located within 200m (the SAC covers approx. 892.3ha in size in total⁴⁹) located in SSSI management units 24 and 23. SSSI unit condition data indicates that unit 24 is dominated by deciduous woodland, and unit 23 by lowland calcareous grassland. RPS undertook an HRA screening assessment for the Gatwick Runway 2 project⁵⁰. This drew on the findings of an ecological survey that was undertaken to determine the presence or absence of priority habitat within 200m of the M25 by directly examining the distribution of the priority habitat in that area. It concluded that "*the grassland within 200 m of the M25 is of a condition unlikely to support SAC quality orchidaceous rich grasslands. There are no plans to change the management of the area in the foreseeable future. Therefore, there is no potential for an increase in traffic on the M25, as a result of LGW-2R, to have a significant effect with respect to the Annex 1 priority habitat calcareous grasslands with 'important orchid sites'.*" The report also notes that correspondence with Natural England has confirmed that box scrub and Yew-woodland does not occur within 200m of the M25 (within management Unit 23). This was used as a basis to screen out air quality impacts of traffic growth on the M25 on the qualifying features of the SAC. Taking into consideration the distribution of SAC features, habitats within 200m of the M25, it is not considered that traffic growth from the Local Plan, alone or in-combination, will have an adverse effect on the integrity of the SAC at this location and therefore the M25 can be screened out.
- 3.4.11 The A25 is located on the immediate edge of the 200m buffer and is therefore scoped out of any assessment due to its distance from the SAC.
- 3.4.12 A review of priority habitat mapping data indicates that habitat within 200m of the A24, B2033, B2209, B2032 and A217 comprises a mixture of broadleaved woodland, deciduous woodland, lowland heathland and calcareous grassland. APIS data indicates that the qualifying habitats (listed in **paragraph 3.2.9**) are sensitive to changes in levels of ammonia, nitrogen oxides, nitrogen deposition and acid deposition⁵¹.

⁴⁹ JNCC. Mole Gap to Reigate Escarpment SAC. Available at: <https://sac.jncc.gov.uk/site/UK0012804> [Date Accessed 29/10/24].

⁵⁰ RPS. 2017. Gatwick Runway 2. Mole Gap to Reigate Escarpment SAC and Ashdown Forest SPA/SAC. Revised Habitats Regulations Assessment Report Stage 1 (Screening).

⁵¹ APIS <https://www.apis.ac.uk/app>

- 3.4.13 The SAC is underpinned by the Mole Gap to Reigate Escarpment SSSI. This is comprised of 37 SSSI units, of which 22 are in a 'favourable' condition, 13 are in an 'unfavourable – recovering' condition, one is in an 'unfavourable – no change' condition and one in an 'unfavourable – declining' condition.
- 3.4.14 The target for air quality for all habitat types (with the exception of natural box scrub) is to 'maintain or restore as necessary the concentrations and deposition of air pollutants to 'at or below' the site-relevant critical load or level values given for the qualifying features of the site on the APIS'. For natural box scrub the target is to 'restore as necessary the concentrations and deposition of air pollutants to at or below the site-relevant Critical Load or Level values given for this feature of the site on the APIS'.
- 3.4.15 The critical load for nitrogen deposition for all qualifying features (with the exception of heath) is 10-20kg/N/ha/yr. For heaths the critical load range is 5-15kg/N/ha/yr. Current average levels of nitrogen deposition across the SAC are 13.503kg/N/ha/yr⁵². This exceeds the lower range for nitrogen deposition for all features. Data taken from APIS indicates that current levels of acid deposition are within or below the lower critical load range for the SAC.
- 3.4.16 Given the location of the SAC within 10km of the Plan area, within the key commuting area and the presence of qualifying habitat within 200m of strategic road links it can be concluded that there is potential for qualifying features of the SAC to be exposed to traffic emissions associated with the Local Plan. The next stage of the screening process is to apply screening thresholds to changes in traffic flows on the A24, B2033, B2209, B2032 and A217 (see **Table 3.2**).

Richmond Park SAC

- 3.4.17 Whilst Richmond Park SAC is located within 10km of the Plan area, no current threats or pressures were identified in the SIP for Richmond Park SAC (**Appendix B**) or on the Natura 2000 data form for this SAC. In addition, data taken from APIS concludes that, whilst woodland which support the Stag Beetle (*Lucanus cervus*) for which the SAC is designated, is vulnerable to nitrogen deposition, the Stag Beetle itself is not sensitive to nitrogen impacts on broad habitat types. This European site has therefore been scoped out of the assessment.

South West London Waterbodies SPA and Ramsar

- 3.4.18 The Kempton Park Reservoir SSSI and Knight & Bessborough Reservoir SSSI components of the South West London Waterbodies SPA and Ramsar are located within 10km of the Plan area and with the key commuting area.
- 3.4.19 There is no strategic road link located within 200m of Kempton Park Reservoir. The A3050 and B369 lie within 200m of the Knight & Bessborough Reservoir SSSI component as illustrated on **Figure 3.2**.

⁵² Nitrogen deposition levels area taken for moorland short vegetation from APIS.

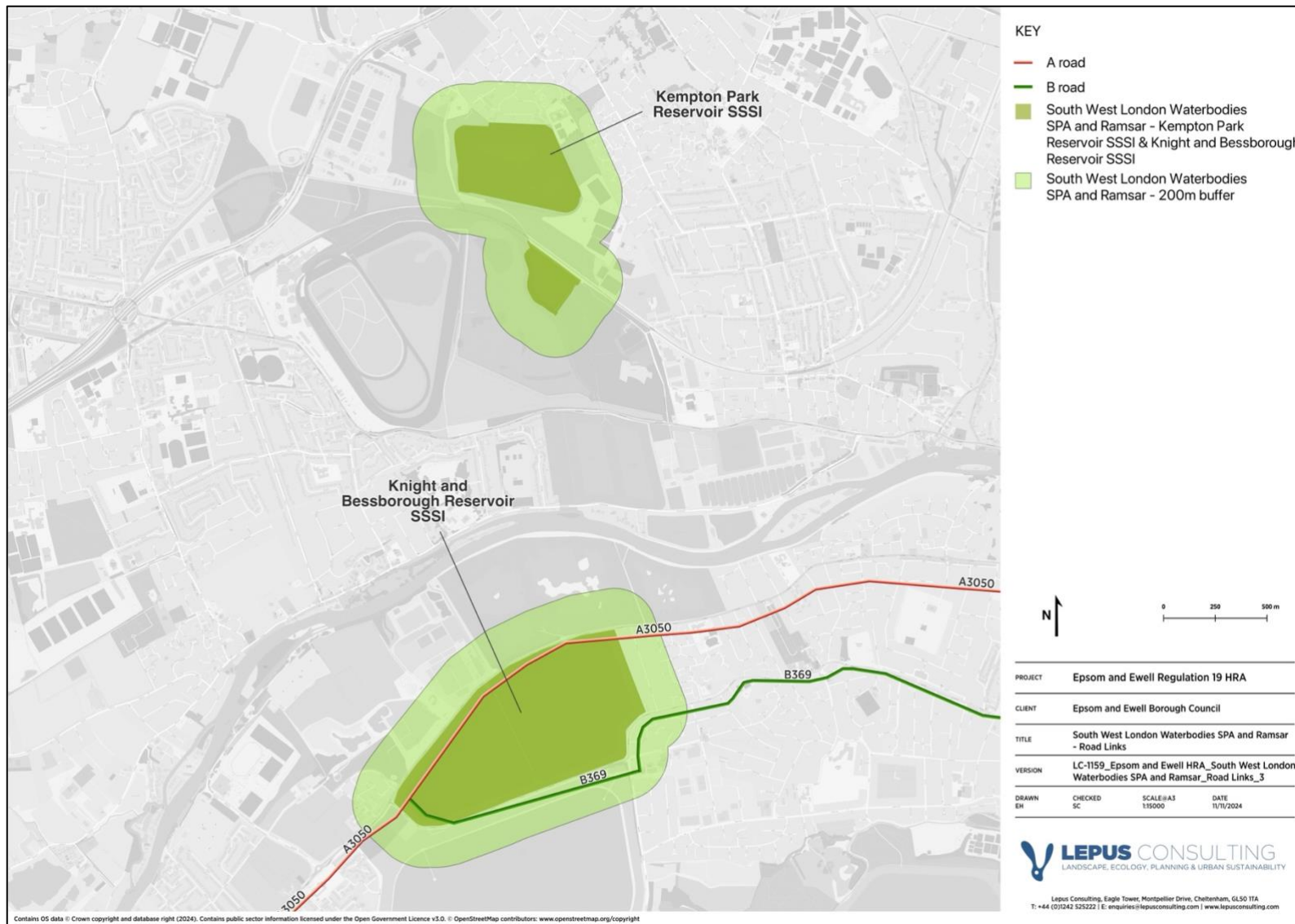


Figure 3.2: Strategic road links within 200m of the South West London Waterbodies SPA and Ramsar

- 3.4.20 The qualifying features of the South West London Waterbodies SPA and Ramsar designations are non-breeding Gadwall (*Anas strepera*) and Northern Shoveler (*Anas clypeata*). The waterbodies which support these species of bird are located within 200m of the A3050 and B369.
- 3.4.21 Given the location of the SPA and Ramsar within 10km of the Plan area, within the key commuting area and the presence of qualifying habitat within 200m of strategic road links it can be concluded that there is potential for qualifying features of the SPA and Ramsar to be exposed to traffic emissions associated with the Local Plan. The next stage of the screening process is to apply screening thresholds to changes in traffic flows on the A3050 and B369 (see **Table 3.2**).

Thames Basin Heaths SPA

- 3.4.22 Only one component of the Thames Basin Heaths SPA is located within 10km of the Plan area and within the key commuting area. This is the component which is underpinned by Ockham and Wisley Commons SSSI. Only a very small portion of eastern section of this SSSI is located within 10km of the Plan area (**Figure 3.3**). The remaining area of this SSSI is beyond the air quality study area for this HRA. Only the northern section of the A3 (where it is not located within 200m of the SPA) and the eastern section of the M25, are located within 10km of the Plan area (**Figure 3.3**). The southern section of the A3 and the western section of the M25 sit outside a 10km buffer zone from the Plan area
- 3.4.23 This component of the SPA is located at Junction 10 of the M25 and A3, as illustrated on **Figure 3.3**. The M25 provides an east to west strategic route to the south west of the Plan area but does not connect directly to it. The A3 runs through Ockham and Wisley Commons SSSI, providing a north to south strategic route to the north west of the Plan area but does not connect directly to it.

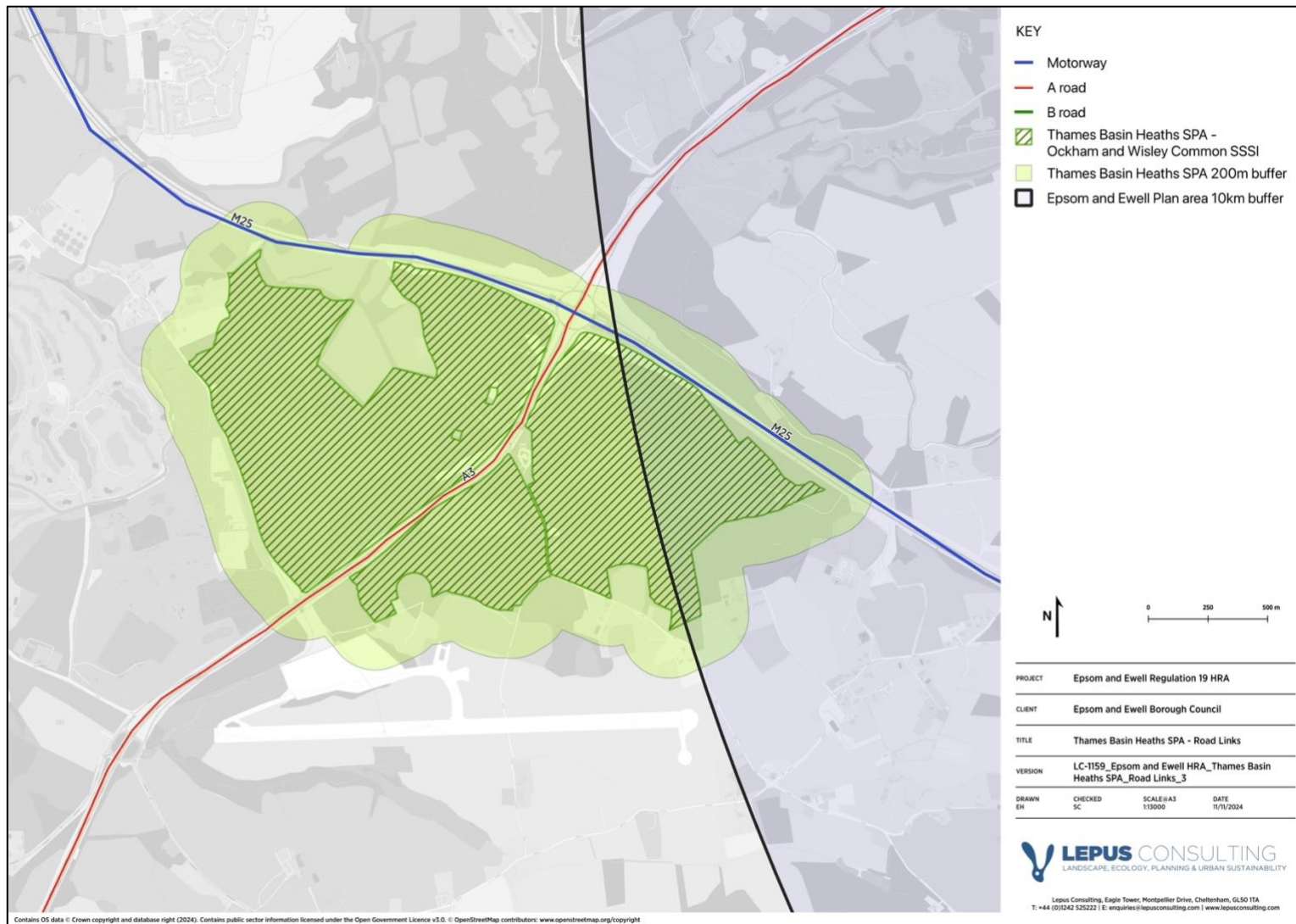


Figure 3.3: Strategic road links within 200m of the Thames Basin Heaths SPA (Ockham and Wisley Commons SSSI component)

3.4.24 The Thames Basin Heaths SPA is designated for European Nightjar (*Caprimulgus europaeus*), Woodlark (*Lullula arborea*) and Dartford Warbler (*Sylvia undata*). These species rely on broad habitat types as set out in **Table 3.1**.

Table 3.1: Thames Basin Heaths SPA qualifying features and their suitable habitats

Species	Habitat
European nightjar (<i>Caprimulgus europaeus</i>)	<p>The Nightjar is a ground-nesting summer migrant which feeds on moths and other flying insects at night, mainly at dusk and dawn. They predominantly feed over heathland and along forest rides but are most successful at feeding when there is range of food-rich habitats present⁵³. Nightjars' nests are usually located within gaps in dry lowland heathland, coppice woods or forest clearings with limited tree canopy cover. During the day the nightjar is found on open ground habitats and often use trees as song or lookout posts⁵⁴. They require an open mosaic of habitats to meet all lifecycle stages. The height, cover, variation and composition of vegetation and characteristics of habitat are important to support breeding and successful nesting, rearing of young, concealment from predators and movement along flight lines and roosting. Nightjar feed primarily on flying insects, such as moths and beetles. Requirements for a nightjar include⁵⁵:</p> <ul style="list-style-type: none"> • Heathland; • Open woodland; • Clearings; • Recently felled conifer plantations; and • Heterogenous and semi-open natural habitats.
Woodlark (<i>Lullula arborea</i>)	<p>Woodlarks are a ground nesting bird which feeds predominantly on beetles, caterpillars and spiders foraged from the soil or from short turf⁵⁶. During the winter, they change their diet to feed on seeds and often join flocks of finches, skylarks and buntings on stubbles and set-aside fields and therefore agricultural fields may become an important habitat type at this time of the year. Similarly to nightjar, woodlark require an open mosaic structure of habitat to support all life cycle stages. Occasional trees around woodland edges or scattered trees provide song and lookout posts. Their habitat requirements include:</p> <ul style="list-style-type: none"> • Lowland heathland with short, sparse, natural developed turf interspersed with tussocky vegetation; • A high abundance of invertebrate prey on bare ground; • Winter fields (stubbles and set-aside); and • Heterogeneous land type with two to four land cover types suitable for foraging and nesting.
Dartford warbler (<i>Sylvia undata</i>)	<p>The Dartford Warbler is a ground nesting bird associated with lowland heathland⁵⁷. This species favours dense, homogenous scrub, that is dominated by species such as gorse (<i>Ulex</i>), heath (<i>Erica</i>), brooms (<i>Cytisus scoparius</i>) and oak (<i>Quercus</i>). These species provide safe nesting places, hunting ground and signing platforms⁵⁸. The Dartford Warbler feeds on a diet mainly of beetles, spider, caterpillars and bugs.</p>

⁵³ RSPB. All about Nightjars. Available at: <https://www.rspb.org.uk/whats-happening/news/all-about-nightjars> [Accessed 19/09/24].

⁵⁴ Cornish, C., Lowe, A., Wilkinson, C., Lucas, E and Wotton, S. 2018. A report by RSPB for the Sherwood Habitats Strategy Group.

⁵⁵ Sierro, Antoine, et al. "Habitat use and foraging ecology of the nightjar (*Caprimulgus europaeus*) in the Swiss Alps: towards a conservation scheme." *Biological conservation* 98.3 (2001): 325-331.

⁵⁶ RSPB (2021) The woodlark... January's joy. Available at: <https://community.rspb.org.uk/placestovisit/pulboroughbrooks/b/pulboroughbrooks-blog/posts/the-woodlark-january-s-joy> [Accessed 19/09/24].

⁵⁷ The Wildlife Trusts. Dartford warbler. Available at: <https://www.wildlifetrusts.org/wildlife-explorer/birds/tits-crests-and-warblers/dartford-warbler> [Accessed 19/09/24].

⁵⁸ RSPB. Dartford Warbler. Available at: <https://www.rspb.org.uk/birds-and-wildlife/dartford-warbler> [Accessed 19/09/24].

- 3.4.25 Whilst these species of bird and supporting habitats are not sensitive to changes in levels of nitrogen oxides, ammonia or acid deposition, they may be sensitive to changes in nitrogen deposition due to potential negative impacts upon heathland and rotationally managed coniferous woodland. Current levels of nitrogen deposition (maximum deposition of 21.3kg/N/ha/yr to woodland and 11.3kg/N/ha/yr to short vegetation⁵⁹) exceed the lower critical load range for the SPA for both heathland and woodland habitat (nitrogen critical load ranges from 5–15kg/N/ha/yr)⁶⁰.
- 3.4.26 Ockham and Wisley Common SSSI is comprised of nine SSSI units, of which six are in a 'favourable' condition and three are in an 'unfavourable – recovering' condition. Monitoring of key bird species indicates that the SSSI provides very good supporting habitat conditions for its qualifying bird species when compared to previous survey results⁶¹.
- 3.4.27 The air quality objective for Nightjar is to 'restore as necessary the concentrations and deposition of air pollutants to at or below the site-relevant Critical Load or Level values given for this feature of the site on the APIS'. The air quality objective for both Woodlark and Dartford Warbler is to 'maintain or restore as necessary concentrations and deposition of air pollutants to at or below the site-relevant Critical Load or Level values given for this feature of the site on the APIS'⁶².

⁵⁹ Data taken from APIS. <https://www.apis.ac.uk/src/> [Date Accessed: 08/10/24].

⁶⁰ Air Pollution Information System (2024) <https://www.apis.ac.uk/src/>

⁶¹ Natural England Designated Site Viewer.

<https://designatedsites.naturalengland.org.uk/SiteUnitList.aspx?SiteCode=S1001052&SiteName=Thames%20Basin%20Heaths&countyCode=&responsiblePerson=&unitId=&SeaArea=&IFCAArea=>

⁶² Natural England (2016) European Site Conservation Objectives: Supplementary advice on conserving and restoring site features Thames Basin Heaths Special Protection Area (SPA) Site Code: UK901214.

- 3.4.28 The M25 Junction 10 / A3 Wisley interchange is currently subject to a Highways England major infrastructure project which involves construction of four new slip roads at Junction 10 of the M25, increasing the capacity of the roundabout and widening of the A3 to four lanes either side of the junction. These road works coincide with the Thames Basin Heaths SPA where it is underpinned by the Ockham and Wisley Common SSSI and require land take from the SPA. This scheme has been granted consent under the provisions of the Habitats Regulations; because it has demonstrated that no alternative solutions exist, imperative reasons of overriding public interest (IROPI) and compensation measures have been secured. The scheme will result in the permanent loss of 5.9ha of the SPA and temporary loss of 8.7ha which will be confined to the woodland edge of the SPA. The scheme will provide 8.1ha of SPA compensation land immediately adjacent to the Ockham and Wisley Common SSSI component of the SPA⁶³ and enhancement across 47.4ha of the SPA to benefit the qualifying species⁶⁴. Compensation Area 1 will not be located within 200m of the M25 or A3. Compensation Area 2 at Wisley is located within 200m of the M25⁶⁵ but outside of the 10km buffer from the Plan area and outside the key commuting area.
- 3.4.29 Surveys were undertaken across Ockham and Wisley Common SSSI to support the HRA for the road works project⁶⁶. The outputs from these surveys indicate that heathland habitats occur at a distance of 150m or greater from the M25 and A3, and any points closer than 150m fall within a 'woodland buffer' which does not provide nesting or roosting habitat for any of the qualifying bird species. The survey data also indicates that there are no areas of rotationally felled and replanted woodland within the woodland buffer area and that it comprises mature woodland several decades in age. The work undertaken in support of the HRA for the road works does however note the importance of this buffer area, which is within the SPA designation boundary, for providing invertebrate food resource, specifically for Nightjar. Data provided on the APIS website notes that Nightjar are not sensitive to impacts on species broad habitat type as identified as coniferous woodland.
- 3.4.30 The traffic modelling used to support the M25 Junction 10 / A3 Wisley interchange sets out major land use developments from neighbouring LPA local plans⁶⁷. It is noted that development within the Epsom and Ewell administrative area has been scoped out as it is not considered to be within the influence of the scheme.

⁶³ Old Lane SPA compensation land and Wisley SPA compensation land.

⁶⁴ Highways England (2020) 5.3 HABITATS REGULATIONS ASSESSMENT STAGES 3-5: ASSESSMENT OF ALTERNATIVES, CONSIDERATION OF IMPERATIVE REASONS OF OVERRIDING PUBLIC INTEREST (IROPI) AND COMPENSATORY MEASURES.

⁶⁵ Highways England (2023) M25 junction 10/A3 Wisley Interchange Improvement. Environmental Management Plan. RHS Wisley HE551522-BBA-EGN-SCC_LR_WISLEY-RP-LM-000001

⁶⁶ Secretary of State for Transport (2022) HABITATS REGULATIONS ASSESSMENT FOR AN APPLICATION UNDER THE PLANNING ACT 2008 M25 Junction 10/A3 Wisley Interchange

⁶⁷ Highways England (2019) M25 junction 10/A3 Wisley interchange TR010030 9.13 Traffic Forecasting Report Rule 8(1)(c)(i) Infrastructure Planning (Examination Procedure) Rules 2010 Planning Act 2008.

- 3.4.31 A Strategic Transport Model Assessment Report⁶⁸ has been undertaken to support the plan-making process. This notes that changes in flows on the strategic road network (which includes the A3 and M25) are largely a result of rerouting and displacement of existing trips rather than trips generated by the Local Plan itself. The Strategic Transport Model Assessment also notes that a considerable volume of trips made by residents in Epsom and Ewell use existing public transport services which reflects the proximity of the Plan area to London and connectivity via railway.
- 3.4.32 On the basis of the above information, it is considered unlikely that qualifying habitat within 200m of the M25 and A3 will be exposed to traffic emissions associated with the Local Plan. The SPA can therefore be scoped out and not be considered further in the HRA process. This approach is consistent with neighbouring LPAs which are located closer to the SPA, such as Mole Valley⁶⁹.
- Wimbledon Common SAC*
- 3.4.33 Wimbledon Common SAC is located within 10km of the Plan area and within the key commuting area. Wimbledon Common is located within 200m of the A3, A219 and B281 as illustrated on **Figure 3.4**. The A3 runs adjacent to the north of the SAC providing a north to south strategic route. The A219 abuts the east boundary of the SAC, forming a north to south route. However, the A219 does not connect to the Plan area but connects to the A24, a strategic route into the centre of the Plan area. In addition, a number of smaller roads that form part of the minor road network lie within 200m of the SAC including the B281, B351 and B321 – these are not connected directly to the Plan area.
- 3.4.34 The two qualifying habitats of Wimbledon Common SAC, European dry heaths and Northern Atlantic wet heaths with *Erica tetralix*, are both sensitive to atmospheric pollution. In terms of the qualifying species, Stag Beetle, APIS indicates that there is 'no expected negative impact on species due to impacts on the species' broad habitat'. The nitrogen deposition critical load for both dry and wet heaths is 5–15kg/N/ha/yr and 10–15kg/N/ha/yr for Stag Beetle. Current average levels of nitrogen deposition are 11.831kg/N/ha/yr⁷⁰. These levels do not exceed the maximum critical load for these habitat types or the Stag Beetle but exceed the lower range. APIS data also shows that current levels of acid deposition are within the critical load range for both habitats.
- 3.4.35 Wimbledon Common SAC is underpinned by Wimbledon Common SSSI. This SSSI is comprised of five SSSI units, of which four are in an 'unfavourable – recovering' condition and one in an 'unfavourable – no change' condition. The A219 falls within 200m of Units 001 (Putney Heath) and 002 (Hookhamslade).

⁶⁸ Surrey County Council (2024) Strategic Transport Model Assessment Report.

⁶⁹ AECOM (2019) Habitat Regulations Assessment of the Mole Valley Draft Local Plan. Mole Valley District Council.

⁷⁰ Data taken from APIS as a grid average. <https://www.apis.ac.uk/src/> [Date Accessed: 08/10/24].

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- 3.4.36 A review of the Land Management Plan for Wimbledon and Putney Commons⁷¹ indicates that a small area of heathland is located within 200m of the A219, with none located within 200m of the A3. The majority of the heathland habitat at the SAC is therefore located outside a 200m buffer from both road links. This is reflected in neighbouring LPA HRA work, such as that prepared for the Croydon Council Local Plan⁷².
- 3.4.37 Given the location of the SAC within 10km of the Plan area, within the key commuting area and the presence of small areas of qualifying habitat within 200m of strategic road links it can be concluded that there is potential for qualifying features of the SAC to be exposed to traffic emissions associated with the Local Plan. Changes in traffic flows on the A3 and A219 are compared to screening thresholds in **Table 3.2**.

⁷¹ Wimbledon and Putney Commons Board of Conservators (2024) Conserving the Commons A Land Management Plan for Wimbledon and Putney Commons 2024 to 2034. Available at: <https://www.wpcc.org.uk/downloads/land-management-plan/land-management-plan-final---february-2024-final-for-website.pdf> [Date Accessed: 01/11/24].

⁷² AECOM (2021) Habitats Regulations Assessment of the Croydon Local Plan Review.

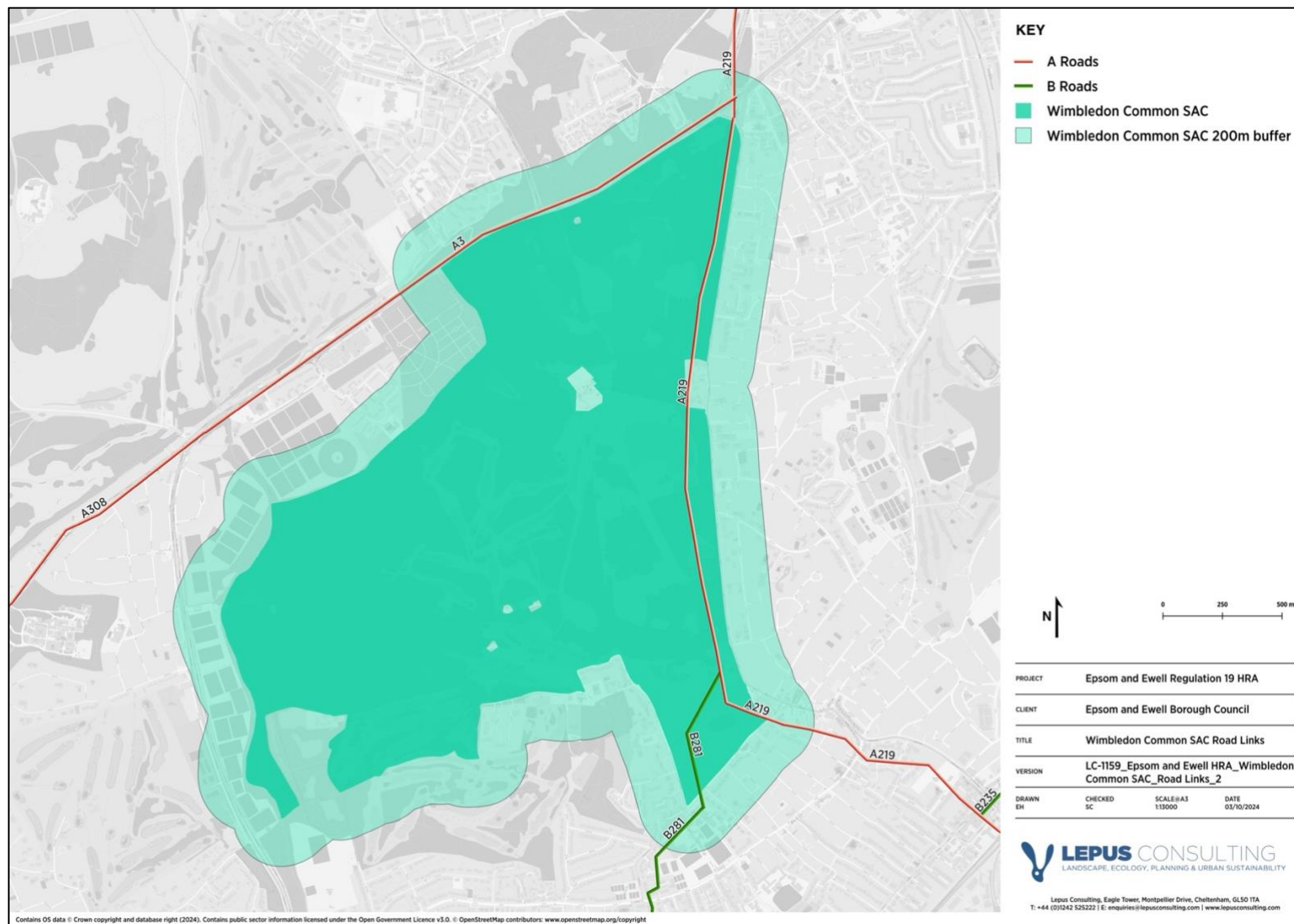


Figure 3.4: Strategic road links within 200m of Wimbledon Common SAC

Application of screening thresholds (alone and then if necessary in-combination)

- 3.4.38 Natural England's advice on the assessment of air quality impacts under the Habitats Regulations states that consideration should be given to the risk of road traffic emissions associated with a Local Plan⁷³. This advice states that an assessment of the risks from road traffic emissions can be expressed in terms of the average annual daily traffic flow (AADT) (as a proxy for emissions)). The use of the AADT screening threshold is advocated by Highways England in their Design Manual for Roads and Bridges (DMRB). This screening threshold is intended to be used as a guide to determine whether a more detailed assessment of the impact of emissions from road traffic is required. This non-statutory or guideline threshold is based on a predicted change of daily traffic flows of 1,000 AADT or more (or heavy-duty vehicle (HDV) flows on motorways change by 200 AADT or more).
- 3.4.39 The AADT thresholds do not themselves imply any intrinsic environmental effects and are used solely as a trigger for further investigation. Widely accepted environmental benchmarks for imperceptible impacts are set at 1% of the critical load or level, which is considered to be roughly equivalent to DMRB thresholds for changes in traffic flow of 1,000 AADT and for HDV of 200 AADT. This has been confirmed by modelling using the DMRB Screening Tool that used average traffic flow and speed figures from the Department for Transport (DfT) data to calculate whether the nitrogen oxides (NOx) outputs could result in a change of >1% of critical load / level on different road types. A change of >1,000 AADT on a road was found to equate to a change in traffic flow which might increase emissions by 1% of the Critical Load or Level and might consequentially result in an environmental effect nearby (e.g. within 10 metres of roadside).
- 3.4.40 The AADT thresholds and 1% of critical load/level are considered by Natural England to be suitably precautionary as any emissions below this level are widely considered to be imperceptible and, in the case of AADT, undetectable through the DMRB model. There can, therefore, be a high degree of confidence in its application to screen for risks of an effect.
- 3.4.41 This traffic data was derived from the SINTRAM74 Transport model. This is an OmniTRANS based variable demand model. Traffic data was provided as AADT movement for the following three scenarios which allowed consideration of both alone and in-combination effects:
- 2019 Base year
 - 2040 Do Minimum. This includes completions and commitments within the borough since 2019, significant recent completions and commitments outside of the borough, and natural traffic growth.

⁷³ Natural England (2018) Natural England's approach to advising competent authorities on the assessment of road traffic emissions under the Habitats Regulations (NEA001). Available at: <http://publications.naturalengland.org.uk/publication/4720542048845824> [Accessed: 12/06/24].

- 2040 Do Something. This is a copy of the 2040 Do Minimum scenario plus Local Plan development sites and windfalls.

3.4.42 Further details can be found in the Strategic Transport Model Assessment⁷⁴.

3.4.43 The L1 (inner) model comprises the master model covering all of Surrey, and the L2 (outer) model is a smaller cordoned model of the study area which comprises Epsom and Ewell Borough plus a buffer.

3.4.44 The results for the Do-Minimum and Do-Something scenarios were compared against one-another to show the impacts of the Local Plan in-isolation (alone). The in-combination assessment was completed by comparing the results of the Base and the Do-Something scenarios. The traffic modelling takes into consideration commitments outside of the borough alongside natural traffic growth. This allows the impact of the Local Plan in-combination with all neighbouring LPA and wider growth to be taken into consideration accurately.

3.4.45 An average AADT has been calculated for all road links that comprise each strategic road where it falls within 200m of each European site, **Table 3.2**. This data was assessed against Natural England's 1,000 AADT screening threshold for LSEs. Where the 1,000 AADT for the Local Plan alone or the Local Plan in-combination is exceeded, this is highlighted in red.

Table 3.2: Summary of average change in AADT from the Local Plan alone and the Local Plan in-combination with other plans and projects for road links within 200m of European sites

Road Name / Number	Local Plan Change in AADT (alone)	Local Plan Change in AADT (In-combination)	Does the change in AADTs exceed NE screening threshold? i.e. 1,000 AADT
Mole Gap to Reigate Escarpment SAC			
B2033	50	353	No
B2032	235	3,729	Yes
A217	-127	4,276	No. As there is a reduction in flows from Epsom & Ewell Local Plan alone.
A24	-56	1,235	No. As there is a reduction in flows from Epsom & Ewell Local Plan alone.
B2209	38	534	Screen out
South West London Waterbodies SPA and Ramsar			
A3050	8	692	No
B369	61	990	No
Wimbledon Common SAC			

⁷⁴ Surrey County Council (2024) Strategic Transport Model Assessment Report.

Road Name / Number	Local Plan Change in AADT (alone)	Local Plan Change in AADT (In-combination)	Does the change in AADTs exceed NE screening threshold? i.e. 1,000 AADT
A3	-247	3,924	No. As there is a reduction in flows from Epsom & Ewell Local Plan alone.
A219	115	8,632	Yes
B281	-103	3,019	No. As there is a reduction in flows from Epsom & Ewell Local Plan alone.

Mole Gap to Reigate Escarpment SAC

3.4.46 Traffic modelling for the A24, B2033, B2209, B2032 and A217 shows no exceedances of the 1,000 AADT screening thresholds for a Local Plan alone scenario along any of these road links.

3.4.47 Given there is no alone exceedance of thresholds, it is necessary to next consider effects in-combination results. Whilst there are in-combination exceedances of the screening threshold along the B2033, A24 and A217, the contribution to these flows from the Epsom and Ewell Local Plan is negative, showing a reduction of traffic from the Local Plan on these links where they run within 200m of the SAC. These links can therefore be screened out. There are however in-combination exceedances of the 1,000 AADT screening thresholds on the B2032 within 200m of the SAC. It can therefore be concluded that the Local Plan has the potential to have likely air quality effects upon the Mole Gap to Reigate Escarpment SAC and this will be considered further in an AA.

Wimbledon Common SAC

3.4.48 Traffic modelling for the A3 and B281 shows no exceedances of the 1,000 AADT screening thresholds for a Local Plan alone scenario along any of these road links.

3.4.49 Given there is no exceedance of thresholds for the Local Plan alone, it is next necessary to consider effects from the Local Plan in-combination with other plans and projects. Whilst there are in-combination exceedances of the screening threshold along the A3 and B281, the contribution to these flows from the Epsom and Ewell Local Plan is negative. This shows a reduction of traffic from the Local Plan on the A3 and B281 where they run within 200m of Wimbledon Common SAC. These road links can therefore be screened out.

3.4.50 There are however in-combination exceedances of the 1,000 AADT screening threshold on the A219 road link within 200m of the SAC. The A219 connects the Harrow Road in Harlesdon to the A24 in South Wimbledon. A219 does not link strategically to Plan area. As shown in **Table 3.2**, contributions of traffic flows from the Epsom and Ewell Local Plan are very low (on average across this link a change of 115 AADT from the Local Plan alone in comparison to an in-combination change in AADT of 3,924). This small contribution from Epsom and Ewell is considered to be 'de minimus' (no significant) when taking into consideration the location of strategic road link connectivity to the Plan area and the location of the SAC on the edge of the traffic model area.

3.4.51 It can therefore be concluded that the Local Plan is unlikely to have an air quality LSE upon Wimbledon Common SAC and can be scoped out of the assessment process.

South West London Waterbodies SPA and Ramsar

3.4.52 Traffic modelling shows that there are no exceedances of the 1,000 AADT screening threshold for a Local Plan alone scenario along either the A3050 or B369.

3.4.53 Given there is no alone exceedance of thresholds, it is next necessary to consider effects from the Local Plan in-combination with other plans and projects. The traffic modelling data (**Table 3.2**) shows no exceedance of the 1,000 AADT screening threshold in-combination on either road link when considered in combination with other plans and projects.

3.4.54 The qualifying features of the SPA and Ramsar, Gadwall and Northern Shoveler, will not be directly affected by changes in air quality. However, atmospheric pollution has the potential to impact upon their broad habitat type which is open water. Data available on APIS indicates that decisions on sensitive are to be taken at a site-specific level since habitat sensitivity depends on N or P limitation. APIS does not provide a nitrogen Critical Level for open, standing water, which is the habitat present in the South West London Waterbodies SPA / Ramsar.

3.4.55 As emissions from traffic generated from the Local Plan alone and in-combination with other plans and projects will not affect phosphate availability within this component waterbody (as this does not derive from atmosphere), and as the 1,000 AADT screening threshold (alone or in-combination) is not exceeded, it can be concluded that no LSEs will arise through atmospheric pollution either alone or in combination with other projects and plans. The SPA and Ramsar can therefore be screened out of any further assessment in the HRA process.

3.5 Water quality and water quantity

3.5.1 Development proposals associated with the Local Plan have the ability to affect water-dependent European sites through a number of impacts as listed below. These impacts have the potential to change the water balance (levels) and quality of water entering European sites:

- Change in surface permeability and run off rates
- Increased water demand to supply new homes and businesses
- Reduce quality of surface water run off
- Increased effluent discharge for treatment

3.5.2 There are no European sites located within the Plan area. Water sensitive European sites located outside the Plan area can however also be affected by changes in water supply and quality where they are hydrologically linked to development in the Local Plan.

3.5.3 Decisions relating to water abstraction for supply and disposal of water are controlled through a number of licensing mechanisms and a high-level water planning framework which is subject to HRA. This ensures the protection of the water environment and compliance with the Water Framework Directive (WFD).

- 3.5.4 The WFD provides an indication of the health of the water environment and whether a water body is at good status or potential. This is determined through an assessment of a range of elements relating to the biology and chemical quality of surface waters and quantitative and chemical quality of groundwater. To achieve good ecological status or potential, good chemical status or good groundwater status every single element assessed must be at good status or better. If one element is below its threshold for good status, then the whole water body's status is classed below good. Surface water bodies can be classed as high, good, moderate, poor or bad status. Natural England considers that Good Ecological Status under the WFD is an appropriate standard for functionally linked watercourses⁷⁵.
- 3.5.5 The Hogsmill River rises in Ewell and flows through the centre of the Plan area in a northerly direction. It leaves Epsom and Ewell to the north west before joining the River Thames at Kingston upon Thames. The River Thames ultimately flows into the Thames Estuary.
- 3.5.6 The Plan area is located within the Thames River Basin District. The Thames River RBMP⁷⁶ provides a framework for protecting and enhancing the benefits provided by the water environment (see **Appendix A**). To achieve this, and because water and land resources are closely linked, it also informs decisions on land-use planning. RBMPs provide strategic level policy guidance in relation to baseline classification of water bodies, statutory objectives for protected areas and water bodies, and a summary of measures to achieve statutory protection. The Thames RBMP sets out the priority management issues within the catchment, including the poor water quality due to diffuse pollution from road run-off, point source pollution from misconnected pipes, and phosphate from the Hogsmill Sewage Treatment Works (STW) to which the majority of the Plan area drains.
- 3.5.7 River basin districts are managed through division into Surface Water Management Catchments (SWMCs). SWMCs outline the preferred surface water management strategy alongside establishing a long-term action plan for surface water. The Plan area predominantly coincides with the London SWMC, with a small section to the south-west of the Plan area within the Mole SWMC, as illustrated in **Figure 3.5**.

⁷⁵ Defra (2014) Water Framework Directive implementation in England and Wales: new and updated standards to protect the water environment (publishing.service.gov.uk). Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/307788/river-basin-planning-standards.pdf [Accessed 10/06/24].

⁷⁶ Environment Agency (2022) Thames river basin district river basin management plan: updated 2022. Available at: <https://www.gov.uk/guidance/thames-river-basin-district-river-basin-management-plan-updated-2022> [Accessed 08/07/24].

3.5.8 Thames Water is the statutory sewerage undertaker for Epsom and Ewell. The role of the sewerage undertaker includes the collection and treatment of wastewater from domestic and commercial premises, and in some areas, it also includes the drainage of surface water from building curtilages to combined or surface water sewers. The Hogsmill STW discharges into the Hogsmill River. In 2019 the Hogsmill catchment was classed as being of an overall moderate ecological quality⁷⁷. Consultation with Thames Water has indicated that a project is proposed in the eight Asset Management Period (AMP8) to quadruple storm tank capacity by 2031. This will reduce spills from the STW and would also reduce the effect of new development on discharges from the works. The Thames Water Drainage and Wastewater Management Plan⁷⁸ sets out how Thames Water will maintain, improve and extend robust and resilient drainage wastewater systems over a 25-year period. The Plan area falls within the Beddington and Hogsmill System Catchment Strategic Plan⁷⁹, which sets out a preferred plan to address the challenges each area faces and a mix of high-level solutions and approximate costs to address these.

⁷⁷ Environment Agency. Catchment Data Search. Available at: <https://environment.data.gov.uk/catchment-planning/WaterBody/GB106039017440> [Accessed: 17/10/24].

⁷⁸ Thames Water (2023) Shaping our wastewater future Our Drainage and Wastewater Management Plan 2025 – 2050.

⁷⁹ Thames Water (2023) Catchment Strategic Plan Part of our Drainage and Wastewater Management Plan (DWMP). Co-creating resilient wastewater catchment. A long-term Strategic Plan for the Beddington and Hogsmill System.

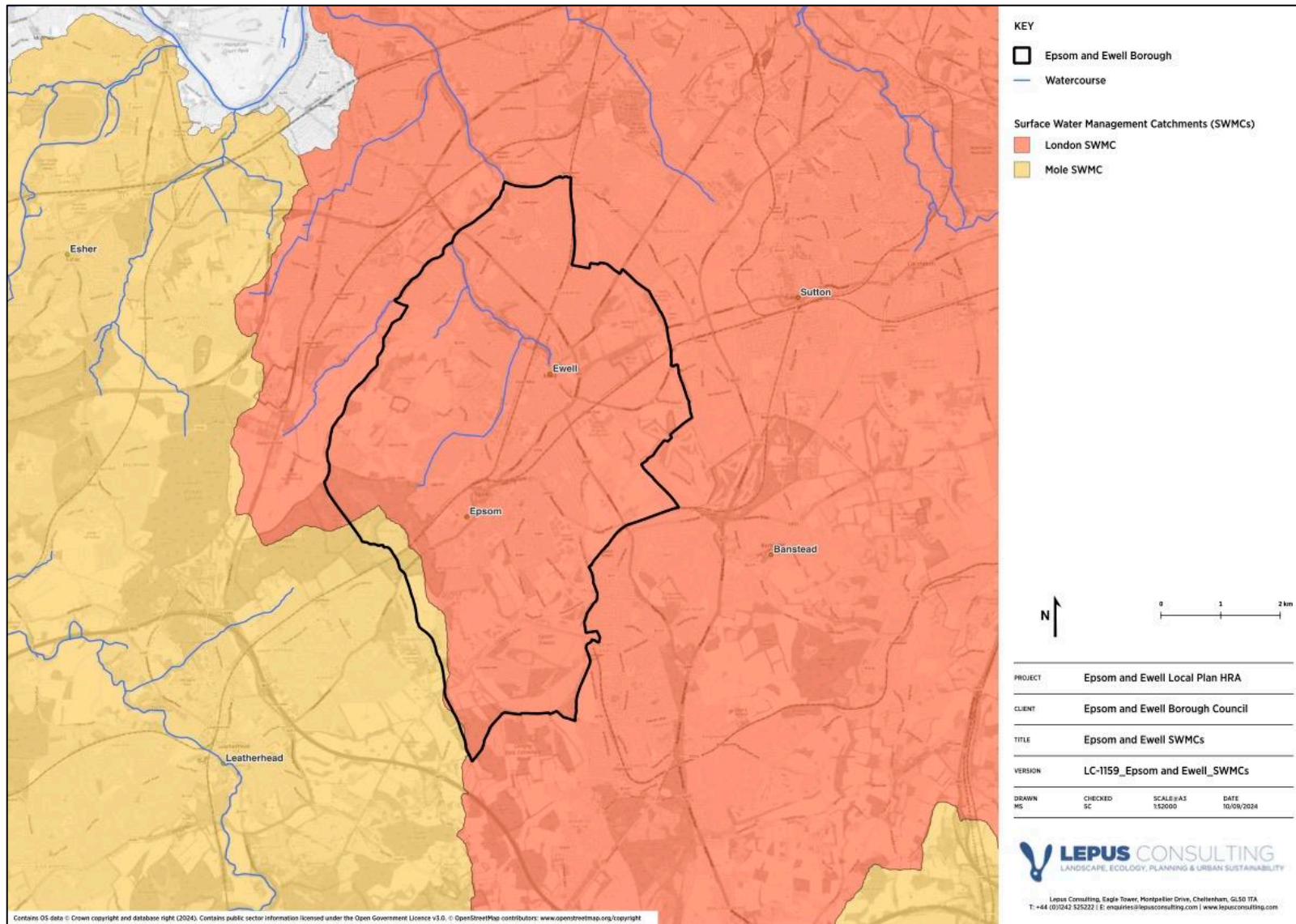


Figure 3.5: Surface Water Management Catchments (SWMCs) within the Plan area

3.5.9 For the purposes of water resource planning, the area is divided into Water Resource Zones (WRZs). WRZs are defined by the EA as the 'largest possible zone in which customers share the same risk of a resource shortfall'⁸⁰. These WRZs have been amalgamated into larger sub-regional supply areas. The Plan area is served by the SES Water Company Wide Zone WRZ as supplied by SES Water and the London WRZ as supplied by Thames Water (see **Figure 3.6**). Water abstraction occurs within these WRZs and therefore any hydrologically sensitive European sites within the same WRZ as the Plan area have the potential to be affected by changes in water levels due to water abstraction.

⁸⁰ Severn Trent. A1 Water Resource Zones. Available at:

https://www.google.com/url?sa=t&source=web&rct=j&opi=89978449&url=https://www.severntrent.com/content/dam/stw/ST_Corporate/About_us/Docs/Appendix-A-How-much-water-do-we-have-available.pdf&ved=2ahUKEwiY8ei5gu2GAxXkZ0EAHUC5D_kQFnoECB0QAQ&usg=AOvVaw3uO8-LrFuwwJ2kHu2ixaCT
[Available at: 21/06/24].

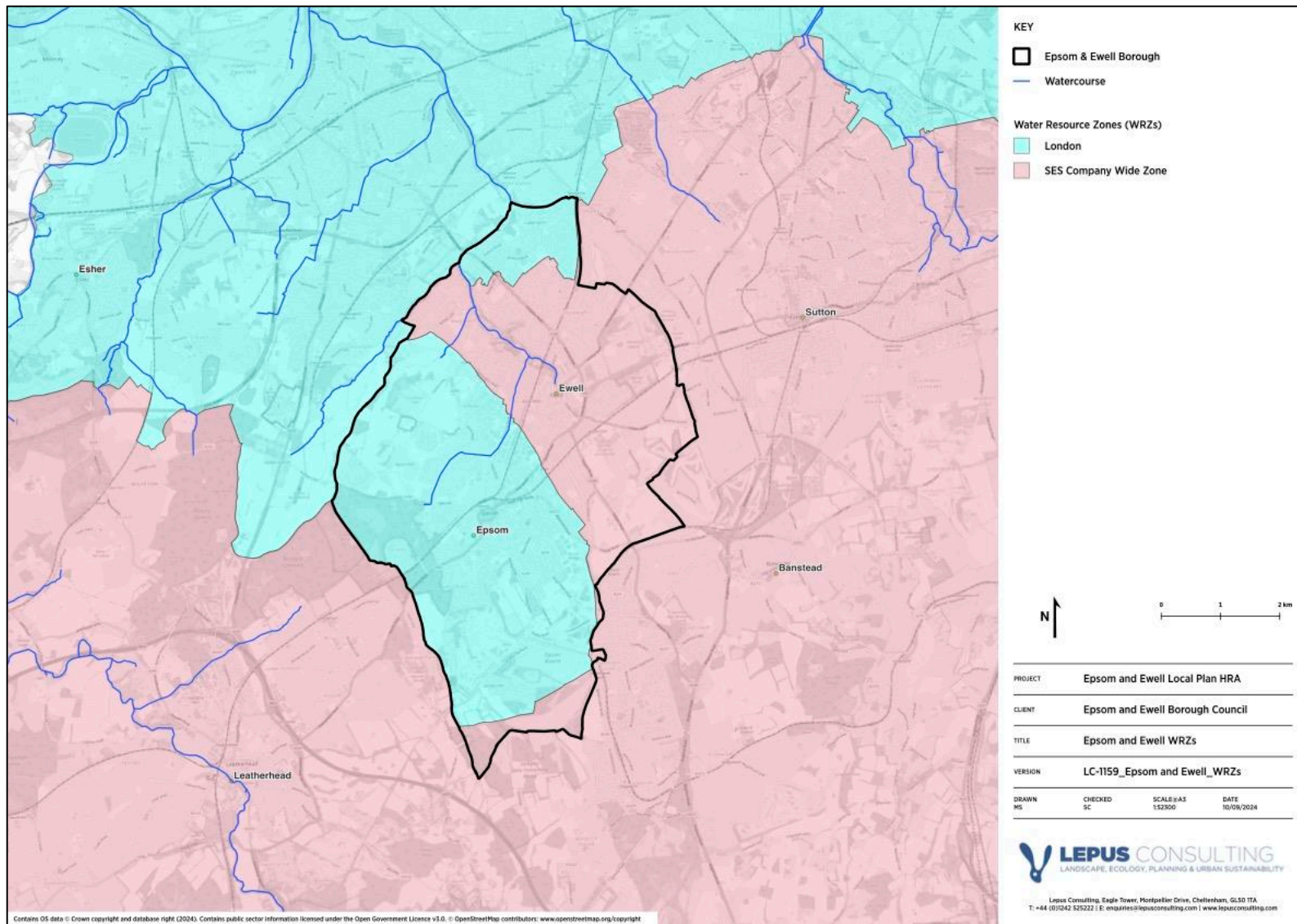


Figure 3.6: Water Resource Zones (WRZs) in relation to the Plan area

3.5.10 **Table 3.4** identifies European sites which are both hydrologically connected to the Plan area, and which were identified through a detailed review of site information as being vulnerable to hydrological impacts.

Table 3.3: Review of hydrological impact pathways to hydrologically sensitive European sites within the influence of the Local Plan

Hydrologically sensitive European site with hydrological links to the Plan area	Potential for water quality LSEs	Potential for water quantity impacts LSEs	Will the European site be scoped in for further assessment in the HRA process?
Mole Gap to Reigate Escarpment SAC	The Plan area is located downstream of the Mole Gap to Reigate Escarpment SAC and therefore it is not likely to be affected by changes in water quality as a result of the Local Plan.	Mole Gap to Reigate Escarpment is not considered to be at risk of hydrological impacts ⁸¹ . A qualifying feature of the SAC is however the GCN which relies on waterbodies to breed. The ponds at Headley Heath support a major population of GCN. These ponds are largely fed by rainfall and surface flow and therefore are unlikely to be affected by changes in water quantity due to water abstraction from the Local Plan.	No
South West London Waterbodies SPA and Ramsar	South West London Waterbodies SPA and Ramsar is located approx. 8km to the east of the Plan area at its closest point. The River Thames runs within 430m of the SPA and Ramsar where it is underpinned by the Knight and Bessborough Reservoir SSSI. This SSSI is however not located within the River Thames floodplain and therefore it is unlikely to be hydrologically connected or affected by a change in water quality from growth in the Plan area.	South West London Waterbodies SPA and Ramsar is located within the London WRZ. The components of the SPA and Ramsar underpinned by Kempton Park Reservoirs SSSI and Knight & Bessborough Reservoirs SSSI lie within 15km of the Plan area. Kempton Park Reservoir has been decommissioned and therefore water abstraction for supply is unlikely to occur. However, abstraction for water supply may occur from Knight & Bessborough Reservoirs SSSI. Therefore, there is potential for water quantity impacts as a result of the Local Plan and associated water abstraction for new development.	Yes
Thames Basin Heaths SPA	Thames Basin Heaths SPA is located approx. 9.4km to the west of the Plan area at its closest. The SPA site is not hydrologically connected to the Plan area. Therefore, it is unlikely to be affected by a change in water quality from growth in the Plan area.	The features of the SPA are not directly sensitive to hydrological changes ⁸² . Therefore, it is unlikely that water quantity impacts as a result of the Local Plan and associated water abstraction for new development will result in an adverse effect.	No

⁸¹ Natural England (2014) Site Improvement plan. Mole Gap to Reigate Escarpment SAC.

⁸² Natural England (2014) Site Improvement Plan Thames Basin Heaths.

Hydrologically sensitive European site with hydrological links to the Plan area	Potential for water quality LSEs	Potential for water quantity impacts LSEs	Will the European site be scoped in for further assessment in the HRA process?
Wimbledon Common SAC	Wimbledon Common SAC is located approx. 5km to the north of the Plan area. Whilst the Plan area is located within the same operational catchment as the SAC (Beverley Brook catchment) there are no watercourses in the Plan area that provide hydrological connectivity to the SAC. Therefore, this SAC is unlikely to be affected by a change in water quality from growth in the Plan area.	Hydrological changes have been identified as a threat to the 'wet heathland with cross-leaved heath' qualifying feature on Wimbledon Common SAC ⁸³ . Of particular concern is the change to source, depth, frequency and magnitude of water supply that can have significant implications on the assemblage of characteristic plants and animals present. Maintenance or restoration of the hydrological regime is required to sustain the wet heath habitat. Both the SAC and the Plan area lie within the same WRZ (London WRZ). Therefore, there is potential for water quantity impacts as a result of the Local Plan and associated water abstraction for new development.	Yes

3.5.11 In summary, the following European sites have been scoped in for further consideration of water quantity impacts in the AA:

- South West London Waterbodies SPA
- South West London Waterbodies Ramsar
- Wimbledon Common SAC

3.6 Recreational pressure

3.6.1 Increased recreational pressure at European sites can result in damage to habitats through erosion and compaction, troubling of grazing stock, causing changes in behaviour to animals such as birds at nesting and feeding sites, spreading invasive species, dog fouling and tree climbing etc.

⁸³ Natural England (2016) European Site Conservation Objectives: Supplementary advice on conserving and restoring site features Wimbledon Common Special Area of Conservation (SAC) Site Code: UK0030301.

- 3.6.2 A common approach taken across the UK to address recreational impacts at European sites is to establish a Zone of Influence (ZOI) based on detailed visitor survey data. The ZOI is the area within which there are likely to be significant effects arising from recreational activities undertaken by additional residents due to growth. This is often calculated by taking the distance at which 75% of interviewees surveyed have travelled to reach a particular site (based on a review of visitor survey data). Where available, buffer distances have been applied to determine potential pathways of recreational and urbanisation effects from the Local Plan.
- 3.6.3 The broad principle of buffer zones is one component of the HRA screening process for recreational pressures. The recreational draw of a European site depends on a number of factors. These include the extent and range of facilities provided (in particular parking), accessibility both within the European site and links to the wider area, incorporation of a European site as part of a wider designation, such as a National Park, and the site's promotion.
- 3.6.4 A review of recreational impact assessments undertaken for other European sites across the UK indicates visitors typically live within 4.2 km (overall median value) of nature conservation sites and that the majority (75%) live within 12.6 km⁸⁴. However, this review recognises that some visitors are prepared to travel longer distances to visit particular sites, for instance coastal and wetland sites.
- 3.6.5 As such, a precautionary distance of 15km has been applied to the scoping of European sites at which there may be potential recreational impact pathways. This scoping exercise is detailed in the following paragraphs and draws on a review of Natural England data which identifies vulnerabilities at each European site (**Appendix B**).

Mole Gap to Reigate Escarpment SAC

- 3.6.6 Mole Gap to Reigate Escarpment SAC is located approximately 2km to the south of the Plan area. The SAC is designated for, among others features, its European dry heaths, natural box scrub, dry grasslands and scrublands on chalk or limestone, Beech forests on neutral to rich soils and Yew-dominated woodland⁸⁵. It is also designated for two species which include GCN and Bechstein's Bat.

⁸⁴ Weitowitz, D. C. Panter, C. Hoskin, R. and Liley, D. (October 2019) The effect of urban development on visitor numbers to nearby protected nature conservation sites. *Journal of Urban Ecology*, Volume 5, Issue 1.

⁸⁵ Natural England (2019) Mole Gap to Reigate Escarpment SAC Conservation Objectives Supplementary Advice. <http://publications.naturalengland.org.uk/file/6354450398838784> [Accessed 14/07/24].

- 3.6.7 Natural England's SIP identifies public access and disturbance impacts as a threat, in particular the trampling of orchid-rich grasslands and repetitive disturbance to GCN breeding ponds⁸⁶. In addition, a guidance note prepared by Mole Valley District Council acknowledges that there is already considerable recreational pressure, requiring high levels of management⁸⁷.
- 3.6.8 As part of the 2008 Mole Valley Local Development Framework (LDF) Appropriate Assessment⁸⁸ a review of visitor surveys undertaken in 2004 by the National Trust and in 2005 and 2006 by Bournemouth University was undertaken (see Appendix C of the Mole Valley Appropriate Assessment). The outputs of the Bournemouth surveys indicate that the majority of people coming to the SAC (to key honeypot sites) were from further afield, with over 80% (82% at Headley, rising to some 93% at Reigate Hill/Gatton) originating from over 5 miles away and over 54% (Headley), rising to 81% (Reigate Hill/Gatton) originating from over 15 miles away. The Mole Valley LDF Appropriate Assessment concluded that, on the basis of these surveys, recreational pressure at the Mole Gap to Reigate Escarpment SAC is focused mainly on honeypot sites⁸⁹, with the majority of impact being within a small radius of the car parks. The outputs of the studies also showed that, although there are local visitors to the sites, large numbers originate from over 15 miles (24.14km) and therefore the majority of recreational pressure is caused by visitors travelling from further afield.

⁸⁶ Natural England. 2014. Site Improvement Plan. Mole Gap to Reigate Escarpment SAC. <https://publications.naturalengland.org.uk/publication/5966636066537472#:~:text=This%20SIP%20includes%20the%20priorities,Management%20Plan%20and%20its%20consultation>. [Accessed: 26/09/24].

⁸⁷ Mole Valley District Council (2012) Mole Gap to Reigate Escarpment SAC Guidance Notice, Available at: https://www.molevalley.gov.uk/sites/default/files/home/building-planning/local-plans/sacguidancefinal_0.pdf [Accessed: 23/07/24].

⁸⁸ Mole Valley District Council. 2008. Mole Valley Local Development Framework Mole Valley Appropriate Assessment.

⁸⁹ Honeypot sites include: Headley Heath; Box Hill and Reigate Hill/Gatton Park (Wray Lane).

- 3.6.9 A guidance note prepared by Mole Valley District Council acknowledges that there is already considerable recreational pressure, requiring high levels of management⁹⁰. Further development beyond the borough boundary may increase the volume of visitors to the site, requiring careful management to ensure that no significant damage is caused to the important features of this European Site. As a result of the Appropriate Assessment undertaken in support of Mole Valley's Local Development Framework (LDF), Policy CS15 of the LDF safeguards a buffer zone of 800m around the SAC. Within this area there is a presumption "*against any increase in residential or employment related development...unless its impact is mitigated*". Large development outside the 800m buffer zone is likely to attract significant visitor numbers and should consider the impacts upon the SAC and provide suitable mitigation⁹¹. It is noted that the Mole Valley Local Plan is currently under review and in September 2024 the Planning Inspector confirmed that subject to Main Modifications the Mole Valley Local Plan is sound and legally compliant.
- 3.6.10 At its closest point the Plan area lies within 2km of the SAC and therefore outside the safeguarding buffer. However, as outlined in **paragraph 3.6.9**, large development outside the 800m buffer zone has the potential to attract significant visitor numbers. Given the location of the SAC in relation to the Plan area, Mole Gap to Reigate Escarpment SAC will be considered further in the HRA for recreation LSEs.

Richmond Park SAC

- 3.6.11 Richmond Park SAC is located approximately 4.8km to the north of the Plan area. Natural England's SIP⁹² for the SAC does not identify recreational impacts as a threat or pressure. Therefore, the SAC will not be considered further in the HRA in terms of recreation LSEs.

The South West London Waterbodies SPA and South West London Waterbodies Ramsar

- 3.6.12 All qualifying features of South West London Waterbodies SPA and South West London Waterbodies Ramsar, namely the habitats and non-breeding populations of Gadwall and Shoveler, are recognised as being under threat from public access associated disturbances (**Appendix B**).
- 3.6.13 A key environmental condition of South West London Waterbodies SPA and Ramsar is a lack of disturbance during the winter months of October to March. Disturbances of sufficient extent, intensity or duration can cause the Gadwall and Shoveler populations to abandon the site. Different waterbodies of the SPA offer different levels of access to the public, with some more restricted than others.

⁹⁰ Mole Valley District Council (2012) Mole Gap to Reigate Escarpment SAC Guidance Notice, Available at: https://www.molevalley.gov.uk/sites/default/files/home/building-planning/local-plans/sacguidancefinal_0.pdf [Accessed: 23/07/24]

⁹¹ Mole Valley District Council (2012) Mole Gap to Reigate Escarpment SAC Guidance Notice, Available at: https://www.molevalley.gov.uk/sites/default/files/home/building-planning/local-plans/sacguidancefinal_0.pdf [Accessed: 23/07/24]

⁹² Natural England (2014) Site Improvement Plan: Richmond Park. Available at: <https://publications.naturalengland.org.uk/file/4641498714865664> [Accessed 10/09/24].

- 3.6.14 The components of the SPA and Ramsar which are located within 15km of the Plan area include Knight and Bessborough Reservoirs SSSI and Kempton Park Reservoirs SSSI. Knight and Bessborough Reservoirs SSSI is an operational site belonging to Thames Water and public access is prevented and therefore there is no opportunity for recreational activities. Kempton Park Reservoirs is actively managed for wildlife and fenced off from public access to reduce disturbance of waterfowl. The 'Friends of Kempton Nature Reserve' scheme restricts access to only educational and recreational bird watching and general nature study to prevent public disturbance at the reservoir.
- 3.6.15 Given the location of these designations from the Plan area, limited public access and the environmental controls currently in place, recreational pathways of impact at the South West London Waterbodies SPA and South West London Waterbodies Ramsar can be scoped out.

Thames Basin Heaths SPA

- 3.6.16 The Thames Basin Heaths SPA covers an area of 8,275ha across Hampshire, Berkshire and Surrey. The SPA is designated as being of international importance due to breeding populations of Dartford Warbler, Nightjar and Woodlark. The potential effects of residential development upon the integrity of the SPA as a result of increased recreational disturbance and pressure led to the development of a strategic framework for mitigation across the Thames Basin Heaths Area known as the TBH SPA Delivery Framework⁹³. Based on this framework, the Council adopted the Thames Basin Heaths Avoidance Strategy⁹⁴ in 2009. This strategy sets an area over which recreational impacts upon the SPA are likely from new development, known as the recreation ZOI. The strategy does not permit residential development within 400m of the SPA as the impact of additional residential development is likely to be such that it is not possible to conclude no adverse impact on the SPA. This area is known as the 'exclusion zone'. Additionally, development within 5km must provide appropriate contributions, including: SANGs, Strategic Access Management and Monitoring (SAMM)⁹⁵, or a "*bespoke solution to provide adequate mitigation measures to avoid any potential adverse effects*". Development between 5km and 7km from the SPA is considered on a case-by-case basis. Any new residential development within these ZOI has the potential to have likely significant recreational impacts upon the SPA.

⁹³ Thames Basin Heaths Joint Strategic Partnership Board (2009) Thames Basin Heaths Special Protection Area Delivery Framework.

⁹⁴ Waverley Borough Council. (Updated April 2024) Thames Basin Heaths Special Protection Area Avoidance Strategy Review 2016. Available at: https://www.waverley.gov.uk/Portals/0/Documents/services/planning-and-building/planning%20policy/SPA_Avoidance_Strategy_Review_Update%20April%202024%202.0.pdf?ver=MmR4IY0I7YquGSOYd_X9hg%3d%3d [Accessed 16/07/24].

⁹⁵ SAMM aims to protect European sites from recreational pressure associated with new housing development. SAMM measures achieve this through education, guidance and raising awareness of the sensitivities of the sites, access management, on-site management and ongoing monitoring projects. – Lepus Consulting (2024) Natural England SANG Catchment Analysis and Review.

3.6.17 As the Plan area is located approximately 9.7km to the east of the SAC, and outside the maximum 7km ZOI where new development would be expected to contribute towards recreational LSEs, it will not be considered further in the HRA in terms of recreational impacts.

Wimbledon Common SAC

3.6.18 Wimbledon Common SAC is located approximately 4.8km to the north of the Plan area and is protected by an act which ensures it remains open to the public and unenclosed⁹⁶. It provides recreational facilities such as playing fields and a golf course. Wimbledon Common SAC is designated for the Stag Beetle, European dry heaths and Northern Atlantic wet heaths. The Stag Beetle is indirectly sensitive to potential threats from recreational pressures associated with the removal of dead wood by visitors which could adversely affect the ability of the SAC to provide habitat which supports the Stag Beetle⁹⁷. However, this action is not a direct result of increased residential growth and an increased number of visitors to the SAC but relates instead to individual decisions to collect fallen wood. As such recreational impacts from growth in the Local Plan upon Stag Beetle can be scoped out of the HRA process.

3.6.19 The heathlands of Wimbledon Common SAC are also potentially vulnerable to recreational pressures as Wimbledon Common is an unfenced common, with the whole area is open to the public throughout the year⁹⁸. Heathland habitat is located in the north of the SAC⁹⁹ and is managed by the Wimbledon and Putney Commons Conservators¹⁰⁰. This management helps to maintain the status of this habitat through clearance of scrub and monitoring the wildlife through volunteers and programmes such as BioBlitz¹⁰¹. The key areas of recreational usage of the SAC do not correspond with the heathland habitat and recreational pressures predominantly relate to grassland impacts which do not comprise qualifying features of the SAC. It is therefore considered unlikely that the Local Plan will cause increases in visitor pressures at the SAC and this site has been scoped out of the HRA process.

⁹⁶ The Wimbledon and Putney Commons Act, 1971. Available at: <https://www.wpcc.org.uk/downloads/publications/1871-act-amended2.pdf> [Date Accessed: 15/10/24].

⁹⁷ Natural England. 2014. Wimbledon Common SAC Site Improvement Plan. <https://publications.naturalengland.org.uk/publication/563851255244390> Available at: [Date Accessed: 15/10/24].

⁹⁸ Annual Conservation Report (2017) Wimbledon and Putney Commons, Available at: <https://www.wpcc.org.uk/downloads/nature/annual-conservation-report-.pdf> [Date Accessed: 09/01/23]

⁹⁹ MAGIC (2019) Defra, Available at: <https://magic.defra.gov.uk/> [Date Accessed: 15/10/24].

¹⁰⁰ Wimbledon and Putney Commons Board of Conservators (2024) Conserving the Commons A Land Management Plan for Wimbledon and Putney Commons 2024 to 2034. Available at <https://www.wpcc.org.uk/downloads/land-management-plan/land-management-plan-final---february-2024-final-for-website.pdf> [Date Accessed: 15/10/24].

¹⁰¹ Ecological and Environmental Monitoring Report (2018) Wimbledon and Putney Commons, Available at: <https://www.wpcc.org.uk/downloads/nature/ecological-and-monitoring-report-final-for-publication2019.pdf> [Date Accessed: 15/10/24].

Summary

3.6.20 In summary, Mole Gap to Reigate Escarpment SAC has been screened in for further consideration of recreational impacts in the AA.

3.7 Urbanisation effects

3.7.1 Urbanisation effects typically occur when development is located close to a European site boundary. These may include impacts such as noise disturbance, lighting effects, cat predation, fly-tipping, wildfire, littering and vandalism. Strategic mitigation schemes elsewhere in the UK have set a presumption against development (i.e. no net increase in residential dwellings) on the basis of site-specific evidence to safeguard against these impacts.

3.7.2 As with recreational impacts, urbanisation mitigation strategies have been implemented across the UK through the establishment of buffer zones. Commonly applied urbanisation Zones of Influence extend around 400 – 500m from the edge of a designation as this reflects likely impacts from pets (e.g. cat predation) and the distance from which people access a site on foot.

3.7.3 No European sites are located within the Plan area or within 500m of the Plan area. Therefore, direct urbanisation LSEs are not considered further in this HRA.

3.8 Functionally Linked Land

3.8.1 There are no European sites located within the Plan area and therefore the Local Plan will not result in the direct loss of land within an area designated as a European site. However, there is potential for the Local Plan to result in the loss / disturbance to habitat outside a designation boundary. Supporting habitat, also referred to as FLL (as defined in **paragraph 3.3.7**), may be located some distance from a European site. The fragmentation of habitats through the loss of connecting corridors would have the potential to hinder the movement of qualifying species.

3.8.2 A review of the qualifying features for which a European site is designated identifies a number of mobile qualifying features within the study area at Mole Gap to Reigate Escarpment SAC, Thames Basin Heaths SPA, and Wimbledon Commons SAC.

Mole Gap to Reigate Escarpment SAC

3.8.3 A review of background data has highlighted the sensitivities of Bechstein Bat roosting habitat at Mole Gap to Reigate Escarpment SAC to disturbance effects and the importance of maintaining community routes from roost into surrounding habitat and foraging areas.

- 3.8.4 The Bat Conservation Trust (BCT) notes that Bechstein's Bat is a species that is predominantly associated with broadleaved woodlands using stream corridors and hedgerows to commute to foraging areas¹⁰². The BCT has defined a number of species-specific Core Sustenance Zones (CSZ). These refer to the area surrounding a communal bat roost within which habitat availability and quality will have a significant influence on the reliance and conservation status of the colony using the roost. For Bechstein's Bat a CSZ of 1km is identified with moderate confidence. The BCT guidance therefore suggests that this CSZ should be increased to at least 3km to reflect the bat's specific habitat requirements (see **Figure 3.8**)¹⁰³. As the Plan area is located approximately 2km to the north of the Plan area, it is therefore considered that functionally linked Bechstein's Bat habitat may be affected by the Local Plan.
- 3.8.5 It is noted that the adoption of a 3km buffer for CSZ is precautionary. The Mole Valley Local Plan review (Future Mole Valley¹⁰⁴) requires development located within 1.5km of the SAC to take into consideration impacts upon functionally linked Bechstein's Bat habitat under Policy EN9: Natural Assets.
- 3.8.6 GCNs are another of the qualifying species for the Mole Gap to Reigate Escarpment SAC. Whilst GCNs rely on water bodies to breed and during the aquatic stages of their life cycle, they are known to travel approximately 500m from their breeding pond habitat during the terrestrial phase of their lifecycle^{105,106}. Depending on the location of the ponds within the SAC terrestrial habitat may include land outside the SAC boundary. The Plan area is located at its closest point 2km from the Mole Gap to Reigate Escarpment SAC. It is therefore considered that functionally linked GCN habitat will not be affected by development set out in the Local Plan and can be scoped out.

¹⁰² Bat Conservation Trust. 2016. Bat Surveys for Professional Ecologist. Good Practice Guidelines. Third Edition.

¹⁰³ Bat Conservation Trust. 2016. Core Sustenance Zone.

https://cdn.bats.org.uk/pdf/Resources/Core_Sustenance_Zones_Explained_04.02.16.pdf?mtime=20190219173135&focal=none

¹⁰⁴ Mole Valley District Council (2021) DRAFT MOLE VALLEY LOCAL PLAN 2020-2037 PROPOSED SUBMISSION VERSION. It is noted that following an examination, in 2024 the Inspector concluded that subject to Main Modifications the Mole Valley Plan is sound and legally compliant.

¹⁰⁵ Natural England (2015) Great crested newts: protection and licences. Available at: <https://www.gov.uk/guidance/great-crested-newts-protection-surveys-and-licences> [Accessed: 15/09/24].

¹⁰⁶ Langton, T.E.S., Beckett, C.L., and Foster, J.P. (2001), Great Crested Newt Conservation Handbook, Froglife, Halesworth.

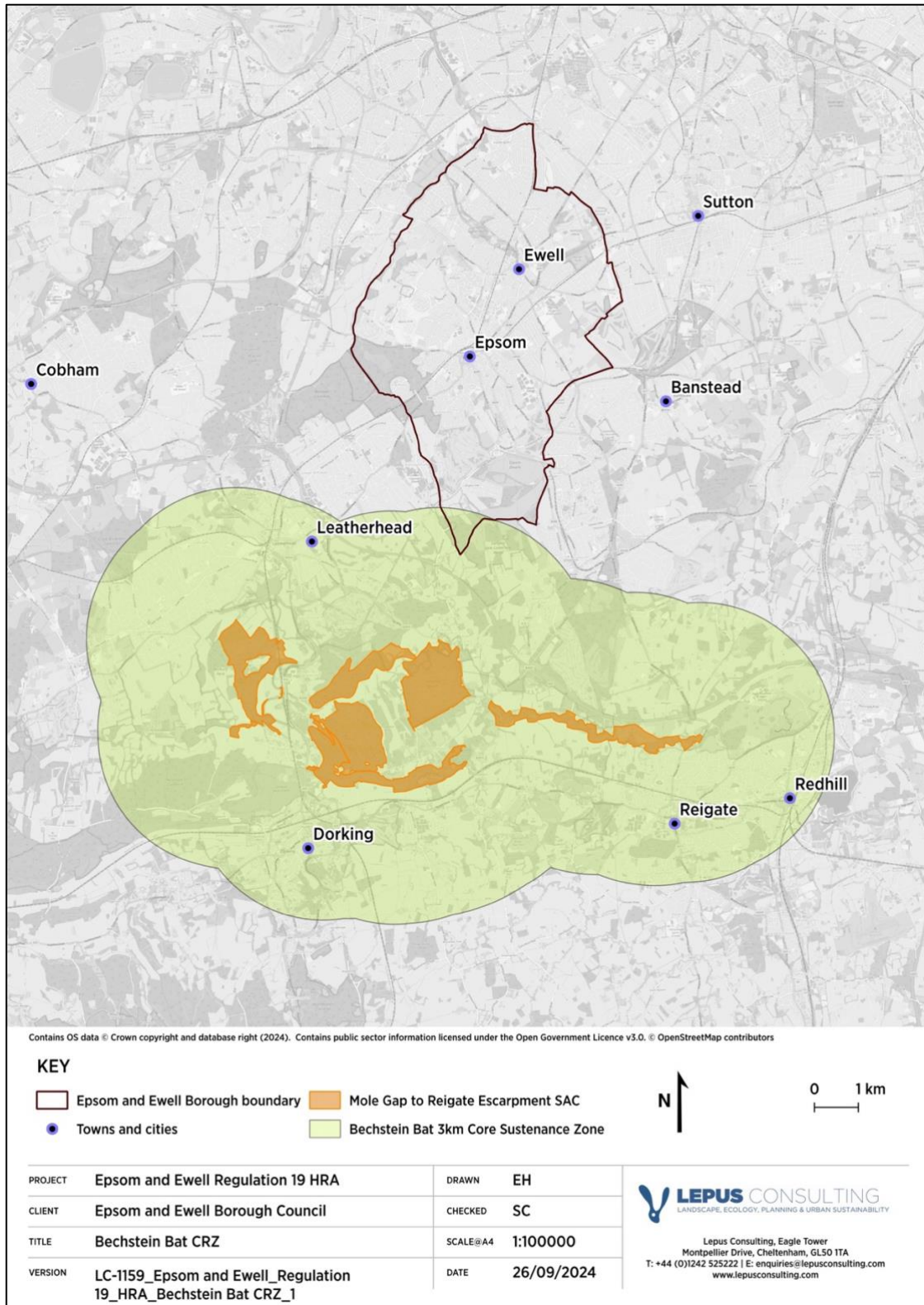


Figure 3.7: Bechstein's Bat a CSZ from Mole Gap to Reigate Escarpment SAC

Thames Basin Heaths SPA

3.8.7 As set out in **Section 3.4**, Thames Basin Heaths SPA is designated for the populations of breeding birds it supports, including European Nightjar, Woodlark and Dartford Warbler. **Table 3.2** outlines the habitat requirements for these qualifying features.

3.8.8 Given the distance of the Plan area from the SPA (9km to the east) and urban development between the Plan area and SPA including the M25 which acts as a barrier to movement, it is unlikely development set out in the Local Plan will impact the qualifying bird species of the SPA and therefore this pathway of impact is scoped out.

Wimbledon Common SAC

3.8.9 The qualifying species of the Wimbledon Common SAC is the Stag Beetle. The Stag Beetle is a saproxylic invertebrate which relies on moist decaying woodland. The population of Stag Beetles within the SAC is unlikely to be supported by habitat located within the Plan area due its distance from the SAC (approximately 4.9km to the south of the SAC) and presence of urban development in between which creates a barrier to movement. It is therefore considered unlikely that the Local Plan will have an LSE upon functionally linked habitat for this qualifying feature and this pathway of impact can be scoped out.

3.9 Local Plan pathways of impact to European sites

3.9.1 **Figure 3.8** illustrates the location of European sites scoped into the HRA process for further consideration in the screening assessment (**Chapter 4**).

3.9.2 The Local Plan impact pathways which have the potential to affect these European sites are summarised in **Table 3.4**. These will form the basis of the HRA screening assessment.

Table 3.4: Scoped in pressures and threats from the Local Plan at European sites

European site	Air quality LSE	Water quality and/or quantity changes LSE	Functionally linked land LSE	Recreation pressure LSE
Mole Gap to Reigate Escarpment SAC	Yes	No	Yes	Yes
South West London Waterbodies SPA	No	Yes	No	No
South West London Waterbodies Ramsar	No	Yes	No	No
Thames Basin Heaths SPA	No	No	No	No
Wimbledon Common SAC	No	Yes	No	No

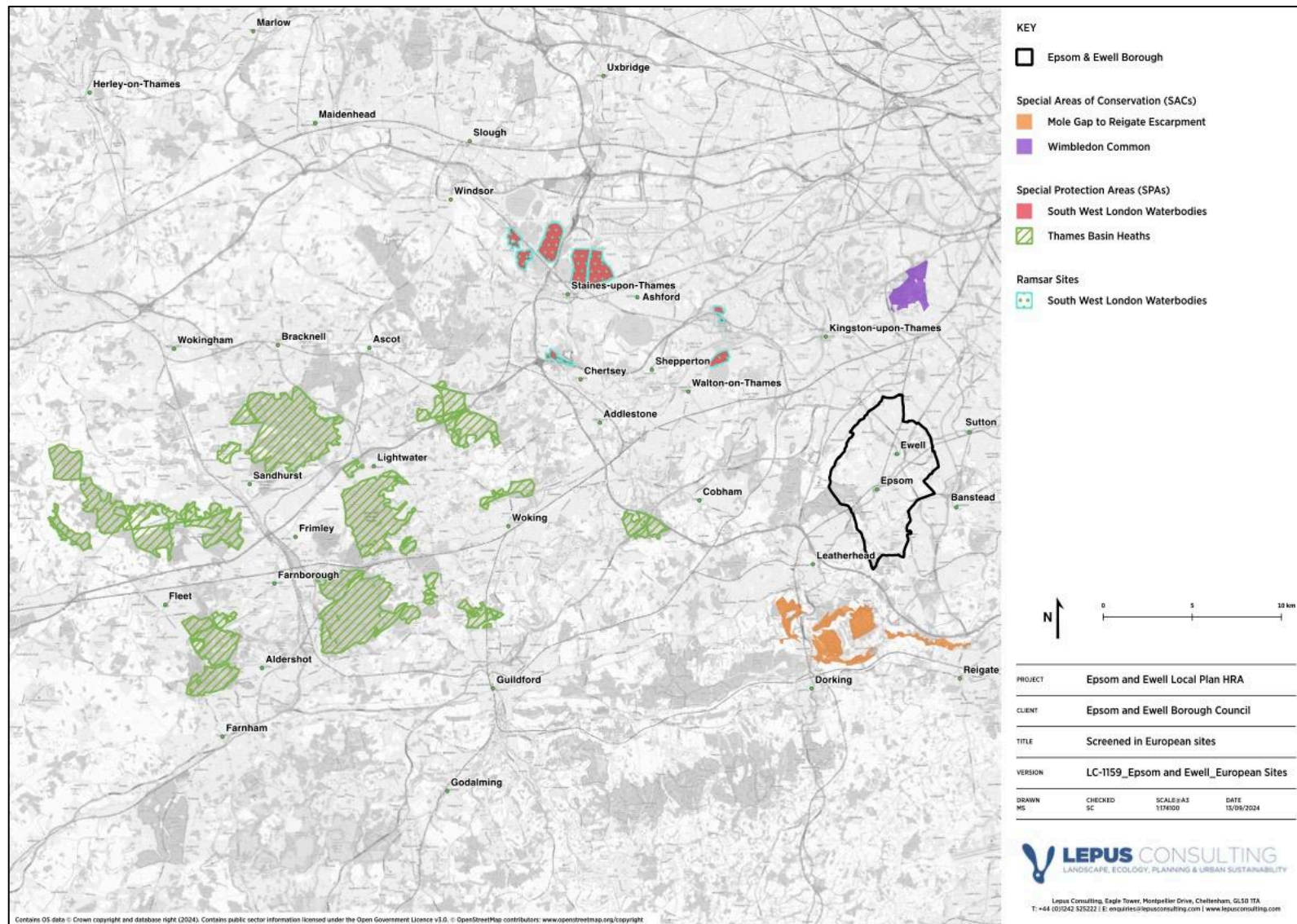


Figure 3.8: Screened in European sites to the HRA process in relation to Epsom and Ewell Borough

4 Screening of the Regulation 19 Local Plan

4.1 Introduction

4.1.1 Each policy and allocation which forms the Local Plan has been appraised against the HRA pre-screening criteria (see **Table 2.1**), taking into consideration case law and best practice. **Appendix C** provides the output of this screening exercise. This detailed assessment has informed the test of likely significance i.e. will the Local Plan have an LSE, alone or in-combination, at a European site.

4.2 Consideration of in-combination effects

4.2.1 Where alone LSEs have not been identified, the screening assessment has assessed the impact of residual effects in-combination with other plans and projects listed in **Appendix A** and as outlined in **Section 2.3**.

4.3 Policies screened out of HRA process

4.3.1 It is concluded that LSEs, either from the Local Plan alone or in-combination with other plans or projects, could be screened out for some policies (**Appendix C**). This is because the policies fall into the following categories:

- Category A: General statements of policy / general aspirations;
- Category B: General criteria for testing the acceptability / sustainability;
- Category D: Environmental protection / site safeguarding; and
- Category F: Policies or proposals that cannot lead to development or other change.

4.4 Policies screened into the HRA process

Air Quality

4.4.1 A review of traffic data indicates that, whilst the Local Plan alone will not trigger an exceedance of Natural England's 1,000 AADT screening threshold, this threshold will be exceeded for all Local Plan allocations cumulatively and in-combination with neighbouring LPA growth (set out in **Appendix A**) at the Mole Gap to Reigate Escarpment SAC on the B2032.

4.4.2 Therefore, all policies which trigger growth within the Plan area have been screened into the HRA process for further consideration of in-combination air quality impacts as set out in **Table 4.1**.

Table 4.1: Screened in policies for air quality LSEs

Policy / site number	Policy Name	Screening Category
Policy S1	Spatial Strategy	L
Policy DM7	Employment Land	L
Site SA1	Southern Gas Network Site	L

Policy / site number	Policy Name	Screening Category
Site SA2	Hook Road Car Park	L
Site SA3	Solis House, 20 Hook Road	L
Site SA4	Bunzl, Hook Road	L
Site SA5	Epsom Town Hall	L
Site SA6	Hope Lodge Car Park	L
Site SA7	Former Police and Ambulance Station Sites	L
Site SA8	Epsom Clinic	L
Site SA9	Depot Road and Upper High Street Car Park	L
Site SA10	79-85 East Street	L
Site SA11	Finachem House, 2-4 Ashley Road	L
Site SA12	Global House	L
Site SA13	Swail House	L
Site SA14	60 East Street	L
Site SA15	Corner of Kiln Lane and East Street (101b East Street)	L
Site SA16	Land at Kiln Lane	L
Site SA17	Hatch Furlong Nursery	L
Site SA18	Land to the Rear of Rowe Hall	L
Site SA19	7 Station Approach	L
Site SA20	Esso Express, 26 Reigate Road	L
Site SA21	Richards Field Car Park	L
Site SA22	Etwelle House, Station Road	L
Site SA23	140-142 Ruxley Lane	L
Site SA24	Garages at Somerset Close and Westmorland Close	L
Site SA25	64 South Street Epsom	L
Site SA26	35 Alexandra Road	L
Site SA27	22-24 Dorking Road	L
Site SA28	63 Dorking Road	L
Site SA29	65 London Road	L
Site SA30	Epsom General Hospital	L
Site SA31	Land at West Park Hospital (South)	L
Site SA32	Land at West Park Hospital (North)	L
Site SA33	Land at Chantily Way	L
Site SA34	Hook Road Arena	L
Site SA35	Land at Horton Farm	L

Water Quantity

- 4.4.3 The scoping assessment (**Chapter 3**) provides a review of hydrological connectivity between water sensitive European sites and identifies water quantity pathways of impact at the South West London Waterbodies SPA and Ramsar and Wimbledon Common SAC and the Local Plan. All policies which trigger growth and which therefore will require water supply (including those listed in **Table 4.1**) have the potential to result in LSEs at these European sites and have been screened into the HRA process.

Recreational Pressure

- 4.4.4 The scoping assessment (**Chapter 3**) provides a review of public access and disturbance pathways of impact to European sites and scopes in Mole Gap to Reigate Escarpment SAC. All policies which trigger residential growth have the potential to increase recreational pressure including all those policies / sites listed in **Table 4.1** which allocate residential development (i.e. excluding Site SA28: 63 Dorking Road and Site SA29: 65 London Road which allocate care home facilities) will result in LSEs at these European sites.

Functionally Linked Land

- 4.4.5 A review of all allocations proposed in the Local Plan indicates that there are no allocations located within the Bechstein's Bat a CSZ of 3km (**Appendix C**). The scoping assessment (**Chapter 3**) identified no other links between functionally linked land associated with European sites and the Local Plan. As such LSEs upon FLL can be screened out of the HRA process.

4.5 Screening conclusion

- 4.5.1 The Local Plan is not directly connected with or necessary to the management of any European site. As required under Regulation 105 of the Habitats Regulations, an assessment of LSEs of the Local Plan upon European sites has therefore been undertaken. The screening checks (**Appendix C**) indicate that the Local Plan has the potential to have LSEs (listed below) on a number of European sites for a number of policies and allocations in-combination with other plan and projects listed in **Appendix A**.
- Mole Gap to Reigate Escarpment SAC – air quality and recreational pressure LSEs;
 - South West London Waterbodies SPA – water quantity LSEs;
 - South West London Waterbodies Ramsar – water quantity LSEs;
 - Wimbledon Common SAC – water quantity LSEs.
- 4.5.2 The screening assessment takes no account of mitigation measures that the Local Plan may incorporate to mitigate adverse impacts upon European sites.
- 4.5.3 It is therefore concluded that the Local Plan will be screened into the HRA process. The next stage of the HRA process will be Stage 2 - AA.

5 Air Quality Appropriate Assessment

5.1 Introduction

5.1.1 Policy S1 (Spatial Strategy) and Policy DM7 (Employment Land) together with all policies which allocate sites for development (**Table 4.1**) site allocations set out in the Local Plan have the potential to act cumulatively and in-combination with neighbouring growth to increase traffic flows on the local and wider road network. The following section of the AA focuses on assessing more precisely the ecological impacts of air pollution on the qualifying features of Mole Gap to Reigate Escarpment SAC.

5.1.2 This assessment follows Natural England's current guidance and therefore assesses the likely effects to inform a conclusion as to whether an adverse effect on site integrity can be ruled out. The assessment also draws on the Chartered Institute of Ecology and Environmental Management (CIEEM's) guidance following a six-step methodology. It includes consideration of factors such as:

- Action needed to protect the condition of the European sites;
- The expected future trend in pollutants of concern (and the scientific reasonableness of any trend);
- The magnitude of any future 'in combination' dose and how it may change the trend; and,
- The physical extent of the affected area as a proportion of that interest feature within the European sites¹⁰⁷.

5.2 Baseline information

Introduction to air pollutant critical loads and levels

5.2.1 In an attempt to manage the negative consequences of atmospheric pollution at designated sites, 'critical loads' and 'critical levels' have been established for ecosystems across Europe. Each European site is host to a variety of habitats and species with different sensitivities to different levels of air pollution. The critical loads of pollutants are defined as a "...quantitative estimate of exposure to one or more pollutants below which significant harmful effects on specified sensitive elements of the environment do not occur according to present knowledge"¹⁰⁸. Critical levels are defined as "concentrations of pollutants in the atmosphere above which direct adverse effects on receptors, such as human beings, plants, ecosystems or materials, may occur according to present knowledge"¹⁰⁹.

¹⁰⁷ CIEEM (January 2021) Paragraph 20. Advisory Note: Ecological Assessment of Air Quality Impacts.

¹⁰⁸ Coordination Centre for Effects (CCE). Critical load and level definitions. Available at: https://www.umweltbundesamt.de/en/Coordination_Centre_for_Effects [Accessed: 16/10/24].

¹⁰⁹ Coordination Centre for Effects (CCE). Critical load and level definitions. Available at: https://www.umweltbundesamt.de/en/Coordination_Centre_for_Effects [Accessed: 16/10/24].

- 5.2.2 Nitrogen oxides (NO_x) are produced from road traffic during the combustion processes, partly from nitrogen compounds in the fuel, but mostly by direct combination of atmospheric oxygen and nitrogen in flames¹¹⁰. Road transport emissions of NO_x in 2018 were the largest contributor to UK total emissions of NO_x with most emissions related to diesel vehicles¹¹¹. The introduction of catalytic converters has seen an overall reduction in emissions since 1990. NO_x has the potential to impact habitats through direct toxicity and through their contribution to nitrogen deposition. The critical level for all vegetation types from the direct toxic effects of NO_x has been set at 30 µg/m³.
- 5.2.3 Ammonia originates from both natural and anthropogenic sources, with the main man-made source being agriculture. Other man-made sources of ammonia include industrial processes and vehicular emissions (from catalyst-equipped petrol vehicles and selective catalytic reduction on light and heavy goods diesel fueled vehicles). As with NO_x, elevated levels of ammonia can be directly toxic to plants and can also enrich a system with nitrogen causing eutrophication and acidification effects on habitats.
- 5.2.4 Lichen species can be sensitive to even small increases in ammonia (1 µg/m³)¹¹². As such, there are two critical levels for ammonia, 1 µg m⁻³ for lower plants (lichens and bryophytes¹¹³) and 3 µg/m³ for higher level plants (all other vegetation). Critical levels of ammonia which are relevant to each European site are set out below in **Table 5.1**.
- 5.2.5 APIS describes nitrogen deposition as 'the input of reactive nitrogen from the atmosphere to the biosphere both as gases, dry deposition and in precipitation as wet deposition'¹¹⁴. Anthropogenic sources of enhanced reactive nitrogen deposition come from emissions of oxidised nitrogen (NO_x) and fossil fuel combustion and reduced nitrogen from agricultural sources.
- 5.2.6 Nitrogen is a major growth nutrient for plants. An increase in nitrogen can be toxic to plants and can lead to eutrophication which can cause species loss and changes in the structure and function of ecosystems. Nitrogen can also cause acidification of soils, the effects of which are discussed in more detail below (**paragraph 5.2.7**). Traffic related inputs of NO_x and ammonia have an impact on the rates of nitrogen deposition. Nitrogen deposition rates are habitat specific as different habitats have different tolerances to different levels. Nitrogen critical loads which are relevant to each European site are set out below in **Table 5.1**.

¹¹⁰ Air Pollution Information Systems (2017) Pollutants, NO_x. Available at:

https://www.apis.ac.uk/overview/pollutants/overview_NOx.htm [Accessed: 16/10/24].

¹¹¹ National Atmospheric Emissions Inventory. Available at: https://naei.beis.gov.uk/overview/pollutants?pollutant_id=6 [Accessed: 16/10/24].

¹¹² Air Pollution Information Systems. Pollutants, Ammonia. Available at:

https://www.apis.ac.uk/overview/pollutants/overview_NH3.htm [Accessed: 16/10/24].

¹¹³ *Lichens and mosses are at most risk as they have limited detoxification capacity relative to their uptake potential and a large surface area relative to mass.* Source: Air Pollution Information Systems. Pollutants. Available at:

http://www.apis.ac.uk/overview/pollutants/overview_NH3.htm [Date Accessed: 16/10/24].

¹¹⁴ APIS. Nitrogen Deposition. Available at: https://www.apis.ac.uk/overview/pollutants/overview_N_deposition.htm [Accessed: 16/10/24].

5.2.7 Acidification comprises the deposition of pollutants to soils which changes the pH level causing acidification. The contribution of SO₂ to acid deposition has reduced since the 1980s, with controls on transboundary emissions, so that the main contribution to acidification is from sources of oxidised and reduced nitrogen. The effect of acid deposition is indirect and related to the lowering of soil pH leading to reduced fertility and nutrient deficiencies, the release of toxic metals and changes in microbial transformations¹¹⁵. As with nitrogen deposition, acid deposition rates are habitat specific. The sensitivity of European sites to acidification is set out in **Table 5.1**.

Mole Gap to Reigate Escarpment SAC

5.2.8 The European dry heaths, natural box scrub, dry grasslands and scrublands on chalk or limestone, beech forests on neutral to rich soils and yew-dominated woodland qualifying features of Mole Gap to Reigate Escarpment SAC are vulnerable to atmospheric pollution. Species such as Bechstein's Bat and GCN are also sensitive to atmospheric pollution as they are reliant upon these habitats. The closest point of the designation is located approximately 2km to the south of the Plan area.

5.2.9 England's Supplementary Advice¹¹⁶ for the SAC indicates that a change in air quality may modify the chemical status of its substrate, accelerating or damaging plant growth, altering its vegetation structure and composition and causing the loss of sensitive typical species associated with it. The management target for the majority of qualifying habitats in terms of air quality is to 'restore as necessary the concentrations and deposition of air pollutants to at or below the site-relevant Critical Load or Level values given for these features of the site on the Air Pollution Information System'. With a target of 'restore' only for Natural Box Scrub. This 'restore' objective represents current baseline exceedances of critical loads. Any further deterioration therefore of air quality at the SAC as a result of the Local Plan either alone or in-combination with other plans and projects has the potential to have adverse impacts on the integrity of the SAC. The air quality targets for broad habitats which support the qualifying species of the SAC (GCN and Bechstein's Bat) is to 'maintain' levels.

5.2.10 The SAC is underpinned by Mole Gap to Reigate Escarpment SSSI which is comprised of 37 SSSI units, 22 of which are in a 'favourable' condition, 13 are in an 'unfavourable – recovering' condition, one is in an 'unfavourable – no change' condition and one is in an 'unfavourable – declining condition'. The unfavourable status of some units is attributed to the invasion of scrub and reduction of open grassland habitat.

5.2.11 **Table 5.1** summarises the critical levels and current deposition at Mole Gap to Reigate Escarpment SAC. All data has been taken from the Air Pollution Information System (APIS)¹¹⁷.

¹¹⁵ The APIS. Acid Deposition. Available at: <http://www.apis.ac.uk/overview/pollutants/acid-deposition> [Accessed: 16/10/24].

¹¹⁶ Natural England. (2019) Mole Gap to Reigate Escarpment SAC. Supplementary Advice. Available at: <https://designatedsites.naturalengland.org.uk/> [Accessed: 16/10/24].

¹¹⁷ Air Pollution Information Systems (2024) Site relevant critical loads, available at: <https://www.apis.ac.uk/> [Date Accessed: 16/10/24].

Table 5.1: Critical Levels and Loads for qualifying features at the Mole Gap to Reigate Escarpment SAC

Qualifying features	NOx Annual Critical Level (µg/m ³)	NH ₃ Annual Mean Critical Level (µg/m ³)	N Deposition Critical Load (kg N/ha/yr)	Acid Deposition (keq/ha/yr)
<i>Taxus baccata</i> woods of the British Isles	30	3	10-15	MaxCLminN: 0.357 MaxCLmaxN: 8.867 MaxCLmaxS: 8.725 MinCLminN: 0.142 MinCLmaxN: 1.623 MinCLmaxS: 1.481
European dry heaths	30	1	5-15	MaxCLminN: 1.107 MaxCLmaxN: 5.112 MaxCLmaxS: 4.22 MinCLminN: 0.499 MinCLmaxN: 1.449 MinCLmaxS: 0.570
<i>Juniperus communis</i> formations on heaths or calcareous grasslands Dry heaths	30	1 or 3	5-15	MaxCLminN: 1.107 MaxCLmaxN: 5.112 MaxCLmaxS: 4.22 MinCLminN: 0.499 MinCLmaxN: 1.449 MinCLmaxS: 0.570
<i>Asperulo-Fagetum</i> beech forests	30	1 or 3	10-15	MaxCLminN: 0.357 MaxCLmaxN: 8.867 MaxCLmaxS: 8.725 MinCLminN: 0.142 MinCLmaxN: 1.623 MinCLmaxS: 1.481
Stable xerothermophilous formations with <i>Buxus sempervirens</i> on rock slopes (<i>Berberidion</i> pp)	30	1 or 3	10-20	MaxCLminN: 1.107 MaxCLmaxN: 5.071 MaxCLmaxS: 4 MinCLminN: 0.856 MinCLmaxN: 4.856 MinCLmaxS: 4
Semi-natural dry grasslands and scrubland facies on calcareous substrates (<i>Festuco-Brometalia</i>)	30	1	10-20	MaxCLminN: 1.107 MaxCLmaxN: 5.071 MaxCLmaxS: 4 MinCLminN: 0.856 MinCLmaxN: 4.856 MinCLmaxS: 4
<i>Myotis bechsteinii</i> Bechstein's bat	Not sensitive	Not sensitive	10-15	MaxCLminN: 0.357

Qualifying features	NOx Annual Critical Level (µg/m ³)	NH ₃ Annual Mean Critical Level (µg/m ³)	N Deposition Critical Load (kg N/ha/yr)	Acid Deposition (keq/ha/yr)
				MaxCLmaxN: 8.867 MaxCLmaxS: 8.725 MinCLminN: 0.142 MinCLmaxN: 1.623 MinCLmaxS: 1.481
<i>Triturus cristatus</i> Great crested newt	No critical level assigned	No critical level assigned	Deposition to be taken at a site specific level since habitat sensitivity depends on N or P limitation.	Potential negative impact on species due to impacts on the species' broad habitat.

5.3 Appropriate Assessment

5.3.1 Policies set out in the Local Plan (see **Table 5.2**) incorporate measures for sustainable transport and a requirement to encourage a modal shift and promote active transport options. These measures will have a positive impact upon air quality by discouraging the use of the private car and encouraging use of electric vehicles (EVs).

Table 5.2: Local Plan policies with mitigating effects on air quality LSEs

Policy Number	Policy Name	How does the policy mitigate air quality LSEs?
Policy S3	Climate Change and Mitigation	This policy directs new development to locations that will minimise the need to travel and maximise the use of sustainable modes of transport including cycling, walking and public transport, promoting a modal shift away from private car use.
Policy S4	Epsom Town Centre	This policy supports the delivery of the Surrey Local Transport Plan 4 and any successors, and proposals in the Epsom and Ewell Local Cycling and Walking Infrastructure Plan to support the transition towards zero carbon transport.
Policy DM18	Pollution and Contamination	This policy permits development where their emissions will be a low as practicable; or <ol style="list-style-type: none"> appropriate mitigation measures are put in place to reduce impacts to acceptable levels. they are designed to minimise the occupants' or users' exposure to air pollution, both internally and externally within areas of poor air quality (as defined by the presence of Air Quality Management Areas).
Policy S18	Green and Blue Infrastructure	This policy promotes multifunctional green and blue infrastructure
Policy S19	Transport	This policy aims to promote cycling and walking and provide facilities that increase the uptake of electric and other zero emission vehicles.

5.3.2 Together these policies aim to protect air quality as a result of growth in the Local Plan and have been taken into consideration during the examination of adverse air quality impacts in the following AA.

- 5.3.3 The Surrey County Council Local Transport Plan 4¹¹⁸ aims to make walking safer, improve cycling routes and facilities and promote public transport. LTP4 focuses on policies which promote active travel and personal mobility, promotion of public transport and zero emissions vehicles. There are also a number of national initiatives to reduce vehicle related emissions, such as the Starmer's Labour Government commitment to restore the phase out of new petrol and diesel vehicles by 2030¹¹⁹.
- 5.3.4 Acting together, Local Plan policies, county and national led initiatives will promote sustainable transport options with reductions in reliance on the private car and associated reductions in traffic emissions.
- 5.3.5 At the time of writing air quality modelling was not available to evaluate air quality impacts associated with the Local Plan at the Mole Gap to Reigate Escarpment SAC. It is therefore not possible to conclude whether the Local Plan will have an adverse impact upon the integrity of the Mole Gap to Reigate Escarpment SAC. Further work in the form of air quality modelling is currently being scoped by the Council, in consultation with Natural England, and will inform a full AA of air quality impacts in due course.

¹¹⁸ Surrey County Council (2022) Local Transport Plan 4 <https://www.surreycc.gov.uk/roads-and-transport/policies-plans-consultations/transport-plan> [Date Accessed: 16/10/24].

¹¹⁹ Labour (2024) Driving a Growing Economy Labour's Plan for the Automotive Sector. Available at: https://labour.org.uk/wp-content/uploads/2023/10/WR-797_23-Automotive-strategy-v8.pdf [Accessed 13/08/24].

6 Water Quantity Appropriate Assessment

6.1 Introduction

6.1.1 Development can reduce catchment permeability, and the presence of drainage networks may be expected to remove runoff from urbanised catchments. This may result in changes in run off rates from urbanised areas to European sites or watercourses which connect to them and therefore a change in water levels. Water mains leakage and sewer infiltration may also affect water levels. In addition, supply to meet water demand associated with new development (supported by the Local Plan) also has the potential to affect water balances at hydrologically sensitive European sites which are connected to the Plan area.

6.1.2 The HRA screening process in **Chapter 4** concluded that Policy S1 (Spatial Strategy), Policy DM7 (Employment Land) and all policies which allocate sites for development (**Table 4.1**) have the potential to result in likely significant water quantity effects at the following European sites (**Appendix C**):

- South West London Waterbodies SPA
- South West London Waterbodies Ramsar
- Wimbledon Common SAC

6.1.3 This chapter therefore provides an AA which assesses more precisely the ecological impacts associated with changes in water quantity due to Local Plan growth at each European site in view of its qualifying features and conservation objectives.

6.2 Baseline information

South West London Waterbodies SPA and South West London Waterbodies Ramsar

6.2.1 The South West London Waterbodies SPA and South West London Waterbodies Ramsar comprise a series of embanked water supply reservoirs and former gravel pits which support a range of man-made and semi-natural still, open-water habitats¹²⁰. These vary in character depending on their use and management. This complex is situated to the west of London on the broad floodplain of the River Thames and is located within the Environment Agency's Flood Zone 2 mapping area.

6.2.2 The SPA and Ramsar are designated for internationally important non-breeding numbers of Gadwall and Shoveler that the waterbodies support (**Appendix B**).

¹²⁰ Natural England (2014) South West London Waterbodies SPA Citation. Available at: <https://publications.naturalengland.org.uk/file/6663157678342144> [Accessed 19/09/24].

- 6.2.3 The Knight & Bessborough Reservoirs SSSI component of the SPA and Ramsar was screened into the AA process for further consideration of potential water quantity impacts due to its proximity to the Plan area, location within the London WRZ and hydrological sensitivity. The SSSI is located approximately 9.6km to the north west of the Plan area at its closest point and consists of two connected embanked water storage reservoirs which are operated by Thames Water. The SSSI comprises one SSSI unit which is in a 'favourable' condition¹²¹.
- 6.2.4 Water quantity has been identified as a threat to the Gadwall and Shoveler qualifying features of the South West London Waterbodies SPA¹²². Whilst no threats or pressures are listed on the Ramsar information sheet, given it is designated for the same features and taking a precautionary approach, it has been assumed that changes in water quantity is also likely to be a threat at the Ramsar site. Natural England's Supplementary Advice¹²³ notes that the target is to 'ensure water quality and quantity is maintained to a standard which provides the necessary conditions to support Gadwall / Shoveler during the non-breeding season'. This 'maintain' target provides a useful indication that overall, water is currently of a quantity which is allowing the site to achieve favourable conservation status for the qualifying features.

Wimbledon Common SAC

- 6.2.5 Wimbledon Common SAC comprises a large area of uncultivated land in London and lies approximately 4.8km to the north of the Plan area and within the London WRZ. It supports a mosaic of broadleaved woodland, acid grassland, dry and wet heath, scrub and mire¹²⁴. The underlying soils are mostly sands, gravels and silty clays which give rise to poorly-drained, nutrient-poor and acid conditions. The strata at the SAC results in acidic, nutrient-poor springs which create gullies and pools on the underlying clay¹²⁵. Several streams rise at the boundary of the gravels and clays and the Beverley Brook runs along the western edge of the SAC¹²⁶. Its qualifying habitats are dry and wet heaths and qualifying species, the Stag Beetle (**Appendix B**).

¹²¹ Natural England. Designated Site Viewer. Available at: <https://designatedsites.naturalengland.org.uk/>

¹²² Natural England (2018) South West London Waterbodies SPA Conservation Objectives Supplementary Advice. Available at: <https://designatedsites.naturalengland.org.uk/TerrestrialAdvicePDFs/UK9012171.pdf> [Accessed 15/10/24].

¹²³ Natural England (2018) South West London Waterbodies SPA Conservation Objectives Supplementary Advice. Available at: <https://designatedsites.naturalengland.org.uk/TerrestrialAdvicePDFs/UK9012171.pdf> [Accessed 15/10/24].

¹²⁴ Natural England. 2016. European Site Conservation Objectives: Supplementary advice on conserving and restoring site features. Wimbledon Common SAC. Available at: <http://publications.naturalengland.org.uk/publication/5706571287887872> [Date Accessed: 14/10/24].

¹²⁵ London Wildlife Trust. Farm Bog. Information available at: <https://www.wildlondon.org.uk/nature-reserves/farm-bog> [Date Accessed: 14/10/24].

¹²⁶ Natural England Wimbledon Common SSSI Citation. Available at : <https://designatedsites.naturalengland.org.uk/PDFsForWeb/Citation/1004317.pdf> [Date Accessed: 14/10/24].

- 6.2.6 Information presented in Supplementary Advice Note (Natural England, 2016) indicates that the SAC is vulnerable to hydrological changes on the 'wet heathland with cross-leaved heath' qualifying feature of the SAC¹²⁷. Of particular concern is the change to source, depth, frequency and magnitude of water supply that can have significant implications on the assemblage of characteristic of the wet heathland. Maintenance or restoration of the hydrological regime is required to sustain this habitat type.
- 6.2.7 The Land Management Plan for the SAC indicates that areas of wet heath are vulnerable to drying out and that management techniques to control water loss are being implemented by blocking drainage channels¹²⁸.
- 6.2.8 The SAC is underpinned by Wimbledon Common SSSI. Wimbledon Common SSSI comprises five SSSI units, four of which are in an 'unfavourable – recovering' condition and the fifth is in an 'unfavourable – no change' condition. Reasons for the unfavourable conditions included recreational pressure, high footfall, encroachment of scrub and other species and low structural and age diversity of the heathland habitat.

6.3 Appropriate Assessment

- 6.3.1 Together the Government, the EA and the water companies are responsible for preparing plans and strategies and implementing a regulatory framework to ensure there is enough water for the future needs of both people and the environment. This is undertaken through a catchment-based approach and provides protection for European sites and ensures compliance with the WFD¹²⁹.
- 6.3.2 Thames Water and SES Water supply water to Epsom and Ewell. The area supplied by both water companies was defined in 2021 as being under 'serious water stress' by the Environment Agency¹³⁰.
- 6.3.3 It is a statutory requirement that every five years water companies produce and publish a WRMP. A WRMP demonstrates long term plans to accommodate the impacts of population growth, drought, environmental obligations, and climate change uncertainty in order to balance supply and demand. The revised draft Thames Water WRMP¹³¹ and revised draft SES Water WRMP¹³² estimate future water demands, based on forecast future LPA growth, and plan how these levels will be achieved.

¹²⁷ Natural England (2016) European Site Conservation Objectives: Supplementary advice on conserving and restoring site features Wimbledon Common Special Area of Conservation (SAC) Site Code: UK0030301.

¹²⁸ Wimbledon and Putney Commons (2024) Conserving the Commons A Land Management Plan for Wimbledon and Putney Commons 2024 to 2034.

¹²⁹ European Commission. Water Framework Directive. Available at:
https://environment.ec.europa.eu/topics/water/water-framework-directive_en [Accessed 11.06.24].

¹³⁰ Environment Agency (2021) Water stressed areas – final classification 2021.

¹³¹ Thames Water (2024) Revised Draft Water Resources Management Plan 2024. Available at
<https://www.thameswater.co.uk/about-us/regulation/water-resources> [Date Accessed: 14/10/24].

¹³² SES Water (2022) Revised Draft Our Water Resources Management Plan 2025-2075. Available at:
<https://seswater.co.uk/about-us/publications/our-water-resources-management-plan> [Accessed 10/09/24].

- 6.3.4 Thames Water WRMP indicates that the London WRZ (within which the Plan area lies) is supplied mainly by surface water resources, with water from the River Thames and River Lee being abstracted into large reservoirs in west London and north east London¹³³. In order to meet demand, the revised draft WRMP24¹³⁴ sets out a series of proposed measures to address use of water through metering, reductions in leakages and promotion of water efficiency measures. The revised draft WRMP also identifies supply schemes to meet additional demand in the short, medium and long-term taking into consideration the effects of climate change. A review of the supporting HRA for the WRMP indicates that these projects, following implementation of mitigation measures, will not have an adverse impact on the site integrity of the South West London Waterbodies SPA, South West London Waterbodies Ramsar or Wimbledon Common SAC either alone or in-combination¹³⁵.
- 6.3.5 SES Water operate across six river catchments including the Hogsmill, the Wandle, the Darent, the Eden, the Mole and Beverley Brook, with 85% of the water supply coming from underground chalk and greensand sources¹³⁶. The SES Water WRMP also sets out a series of proposed measures to address use of water through metering, reductions in leakages and promotion of water efficiency measures. These measures sit alongside four new transfers planned through the Water Resources South East (WRSE) and potential new supplies from increased groundwater abstraction and increased reservoir capacity. An HRA screening assessment was undertaken on behalf of WRSE in support of the WRMP which concluded no LSEs, either alone or in-combination, at any European site from the supply options¹³⁷.

¹³³ Thames Water (2024) Revised Draft Water Resources Management Plan 2024. Section 4 – Current and Future Water Supply. Available at: <https://dn9cxogfaqr3n.cloudfront.net/revised-draft/Technical+Report/rdWRMP24+-+Section+4+-+Current+and+Future+Water+Supply.pdf> [Date Accessed: 14/10/24].

¹³⁴ Thames Water (2024) Revised Draft Water Resources Management Plan 2024. Section 11 – The Overall Best Value Plan. Available at [https://dn9cxogfaqr3n.cloudfront.net/revised-draft/Technical+Report/rdWRMP24+-+Section+11+-+The+Overall+Best+Value+Plan+\(1\).pdf](https://dn9cxogfaqr3n.cloudfront.net/revised-draft/Technical+Report/rdWRMP24+-+Section+11+-+The+Overall+Best+Value+Plan+(1).pdf) [Date Accessed: 14/10/24].

¹³⁵ Thames Water (2024) Revised Draft Water Resources Management Plan 2024. Appendix C: Habitats Regulations Assessment Report. Available at <https://dn9cxogfaqr3n.cloudfront.net/revised-draft/Technical+Appendices/rdWRMP24+-+Appendix+C+-+HRA.pdf> [Date Accessed: 14/10/24].

¹³⁶ SES Water (2022) Revised Draft Our Water Resources Management Plan 2025-2075. Available at: <https://seswater.co.uk/about-us/publications/our-water-resources-management-plan> [Accessed 10/09/24].

¹³⁷ Atkins (2022) Appendix F – Habitats Regulations Assessment.

- 6.3.6 The Water Industry Act 1991, as amended by the Water Act 2003, made it a statutory requirement for water companies to produce and maintain a Drought Plan every 5 years. A Drought Plan sets out the framework for a water company to follow in times of drought and dry weather to maintain water supply and links strategically with the WRMPs. The Thames Water Drought Plan¹³⁸ tests a number of drought / dry weather scenarios under different climatic conditions to show that supply can be maintained. It concludes that security of supply is considered to be robust for the next 5 years to achieve protection for its customers. The SES Water Drought Plan¹³⁹ describes how SES Water will supply adequate quantities of water, at an appropriate quality, with as little recourse as possible to drought orders or permits, during times of drought.
- 6.3.7 The Environment Agency prepares Abstraction Licensing Strategies (ALS) through its Catchment Abstraction Management Strategy (CAMS) process. These ALSs are prepared for each sub-catchment within a river basin. The CAMS process aims to assess the amount of water available for further abstraction licensing, taking into account environmental needs and implementation of the RBMPs and water abstraction plans¹⁴⁰. The CAMS process is published in a series of ALSs for each river basin. ALS are important in relation to the RBMP as they assist in determining current and future pressures on water resources and how the supply and demand will be managed by the relevant water companies through WRMPs.
- 6.3.8 Local policy will work together with this high-level water regulatory framework to ensure sufficient water is available for both the environment and people. Policy DM11 – Sustainable Water Use – of the Local Plan recognises that the Plan area is located within an area classified as being seriously water stressed. This policy therefore requires all homes to meet water efficiency targets to achieve sustainable water use. Policy S16 – Flood Risk and Sustainable Drainage – requires development to use nature-based solutions such as Sustainable Drainage Systems to reduce surface run off. Policy DM18 – Pollution and Contamination – requires incorporation of good design in new development in relation to water discharges. Other policies such as Policy S3 – Climate Change – also set out requirements for new development to maximise sustainable water use.
- 6.3.9 In summary, water supply issues will be addressed through the higher-level water planning framework and licencing process (RBMP, WRMP, Drought Plans and CAMS). Local Plan policies to improve water efficiency (Policy DM11) will also ensure water supplies to meet the requirements of European sites can be met.
- 6.3.10 Taking into consideration the high-level protective water planning framework and protective Local Plan policies, it can be concluded that there will be no AIOSI on the South West London Waterbodies SPA, South West London Waterbodies Ramsar or Wimbledon Common SAC either alone or in-commination due to a change in water quantity as a result of the Local Plan.

¹³⁸ Thames Water (2022) Drought Plan 2022. Available at: <https://www.thameswater.co.uk/media-library/home/about-us/regulation/drought-plan/drought-plan-2022/thames-water-drought-plan-2022.pdf> [Accessed 03/09/24].

¹³⁹ SES Water (2022) Drought Plan 2022. Available at: <https://seswater.co.uk/about-us/publications/our-water-resources-management-plan> [Accessed 16/09/24].

¹⁴⁰ DEFRA (2021) Policy Paper: Water Abstraction Plan.

7 Recreational Pressure Appropriate Assessment

7.1 Introduction

7.1.1 Increased recreational pressure at European sites can result in damage to habitats and changes in behaviour to animals such as birds at nesting and feeding sites. This can be caused by erosion and compaction, troubling of grazing stock, spreading of invasive species, dog fouling, and tree climbing among other recreational impacts. Typically, disturbance of habitat and species is the unintentional consequence of people's presence which can impact distribution of habitat types and breeding success and survival. Increased development has the potential to increase recreational pressures upon European sites which are accessible to the public.

7.1.2 The HRA screening process in **Chapter 4** concluded that Policy S1 (Spatial Strategy) and all policies which allocate sites for residential development (**Table 4.1**) have the potential to result in likely significant recreational effects at Mole Gap to Reigate Escarpment SAC (**Appendix C**):

7.1.3 This chapter therefore provides an AA which assesses more precisely the ecological impacts associated with increased recreational pressure due to Local Plan growth cumulatively and in-combination with neighbouring LPA growth (**Appendix A**) on the SAC in view of its qualifying features and conservation objectives.

7.2 Baseline information

7.2.1 Mole Gap to Reigate Escarpment SAC is located approximately 2km to the south of the Plan area. The SAC is designated for, among others features, its European dry heaths, natural box scrub, dry grasslands and scrublands on chalk or limestone, Beech forests on neutral to rich soils and Yew-dominated woodland¹⁴¹. It is also designated for two species which include GCN and Bechstein's Bat.

7.2.2 Mole Gap to Reigate Escarpment SAC is predominantly within the ownership of the National Trust and Surrey County Council and is also within the Surrey Hills National Landscape which is subject to a management plan¹⁴². The SAC is crossed by a number of PRoW, with the North Downs Way National Trail running in an east to west direction through the south of the SAC. There are a number of car parks across the SAC, including Box Hill Café and visitor centre. A large area of the SAC has open public access and is used by walkers and cyclists. Two smaller parts of the SAC are managed by the Surrey Wildlife Trust, Dawcome and Fraser Down, and have no public access without prior permission.

¹⁴¹ Natural England (2019) Mole Gap to Reigate Escarpment SAC Conservation Objectives Supplementary Advice. <http://publications.naturalengland.org.uk/file/6354450398838784> [Accessed 14/07/24].

¹⁴² Surrey Hills (2020) Surrey Hills Area of Outstanding Natural Beauty Surrey Hills Management Plan 2020 – 2025. Available at: <https://surreyhills.org/wp-content/uploads/2022/11/Surrey-Hills-Management-Plan-Web-72-SP-1-2.pdf> [Accessed: 17/10/24].

- 7.2.3 The SAC is underpinned by Mole Gap to Reigate Escarpment SSSI which is comprised of 37 SSSI units, 22 of which are in a 'favourable' condition, 13 are in an 'unfavourable – recovering' condition, one is in an 'unfavourable – no change' condition and one is in an 'unfavourable – declining condition'. The unfavourable status of some units is attributed to the invasion of scrub and reduction of open grassland habitat. The condition surveys note that some areas of the chalk grassland are well used by walkers.
- 7.2.4 Work undertaken as part of the Bournemouth Study¹⁴³ (**paragraph 3.6.9**) showed that, although there are local visitors to honeypot sites across the SAC, large numbers originate from over 15 miles (24.14km) and therefore the majority of recreational pressure is caused by visitors travelling from further afield. As outlined in **paragraph 3.6.10**, large development outside an 800m buffer zone established in support of Mole Valley's Local Development Framework (LDF), in-combination with growth in neighbouring areas, has the potential to increase recreational pressures on the SAC, particularly at honeypot sites¹⁴⁴, and undermine its ability to achieve relevant conservation objectives.

7.3 Appropriate Assessment

- 7.3.1 The conservation target for the SAC is to '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'. Recreational pressure is identified in Natural England's SIP as being a threat due to trampling of orchid-rich grasslands, repetitive disturbance to GCN breeding ponds, and spread of disease (such as box blight)¹⁴⁵.
- 7.3.2 There are several road links which provide a barrier to the movement of people between the Plan area and the SAC including the M25.
- 7.3.3 There are a number of alternative recreational options located within close proximity to site allocations proposed in the Local Plan. These include Epsom and Walton Downs and a Woodland Trust site (Langley Vale Wood)¹⁴⁶ to the south of the Plan area. These sites comprise chalk grassland and woodland with facilities including viewpoints, picnic tables, toilets, play areas, walking routes and car parking. Epsom Common is an area of open access land to the south west of the Plan area. Epsom Common is designated as a SSSI and a Local Nature Reserve. Ashted Common lies beyond Epsom Common and is also an area of open access land and designated as a SSSI and National Nature Reserve. Further to the west of the Plan area is Prince's Coverts, a site owned and managed by the Crown Estates and accessible to the public.

¹⁴³ Mole Valley District Council. 2008. Mole Valley Local Development Framework Mole Valley Appropriate Assessment.

¹⁴⁴ Honeypot sites include: Headley Heath; Box Hill and Reigate Hill/Gatton Park (Wray Lane).

¹⁴⁵ Natural England (2014) Site Improvement Plan Mole Gap to Reigate Escarpment SAC
<https://publications.naturalengland.org.uk/publication/5966636066537472> [Date Accessed: 15/10/24].

¹⁴⁶ Woodland Trust. Langley Vale Wood. https://www.woodlandtrust.org.uk/visiting-woods/woods/langley-vale-wood/?gad_source=1&gclid=EAlalQobChMI8YmqlqyQiQMvJpJQBh3VaASpEAAyASAAEgleavD_BwE&gclid=aw.ds [Date Accessed: 15/10/24].

- 7.3.4 Policy DM19 (Open Space, Sport and Recreation) of the Local Plan requires all development which would result in a net increase in residential units to contribute towards open space, sport and recreation either through financial contributions or on site provisions. Where open space is provided through a development site, Policy DM19 requires that it include long term stewardship arrangements to secure the quality of open space in perpetuity. Policy DM19 also safeguards local green space from development. Policy S18 (Green and Blue Infrastructure) requires development to contribute towards an accessible and integrated green and blue infrastructure network to improve wellbeing of new residents.
- 7.3.5 At a more strategic level, the Surrey Hills National Landscape management plan¹⁴⁷ sets out measure to manage recreational impacts. These measures include education for users to raise awareness of the importance of biodiversity within this National Landscape.
- 7.3.6 Taking into consideration barriers to movement of people to the SAC from the Plan area, Local Plan mitigation policy in terms of open green space provision, alternative recreational destinations in closer proximity to the Plan area and strategic level recreational management, it is concluded that the Local Plan will have no AIOSI in-combination with other plans and projects (**Appendix A**) due to increased recreational pressure.

¹⁴⁷ Surrey Hills (2020) Surrey Hills Area of Outstanding Natural Beauty Surrey Hills Management Plan 2020 – 2025.
Available at: <https://surreyhills.org/wp-content/uploads/2022/11/Surrey-Hills-Management-Plan-Web-72-SP-1-2.pdf>
[Accessed: 17/10/24].

8 Conclusion and next steps

8.1 Summary

8.1.1 The Local Plan is not directly connected with or necessary to the management of any European site. A screening assessment was therefore undertaken which identified a number of LSEs associated with the Local Plan. Taking no account of mitigation measures, the Local Plan has the potential to affect the following European sites:

- Mole Gap to Reigate Escarpment SAC – air quality and recreational pressure;
- South West London Waterbodies SPA – water quantity;
- South West London Waterbodies Ramsar – water quantity;
- Wimbledon Common SAC – water quantity.

8.1.2 The HRA therefore progressed to the next stage of the HRA process: AA. The following matters were explored in more detail:

- Impacts on designated features affected by a possible deterioration in air quality;
- Impacts on water quantity associated with increased levels of built development; and
- Impacts associated with increased recreational pressure,

8.1.3 A range of potential threats and pressures that might be exacerbated by the Local Plan were identified through the assessment process. The Precautionary Principle has been used in circumstances where likely effects were considered to be uncertain. The protective policies set out in the Local Plan, alongside existing protection measures in existing high level strategic and planning policy frameworks, have been factored into the assessment process.

8.1.4 The AA has concluded no adverse impacts on the site integrity of any European site due to a change in water quality or quantity or an increase in recreational pressure as a result of the Local Plan either alone or in-combination. This report has however not been able to reach a conclusion regarding adverse air quality impacts upon the site integrity of Mole Gap to Reigate Escarpment SAC. Further air quality modelling work which will be commissioned by the Council will be evaluated to inform a full AA of air quality impacts.

8.2 Next steps

8.2.1 The purpose of this interim report is to inform the HRA of the Local Plan using best available information. Once air quality modelling has been evaluated, this interim HRA report will be finalised.

8.2.2 The Council, as the Competent Authority, has responsibility to make the Integrity Test, which can be undertaken in light of the conclusions of the Regulation 19 HRA report.

- 8.2.3 The final Regulation 19 HRA report will be submitted to Natural England, the statutory nature conservation body, for formal consultation as part of the Regulation 19 consultation. The Council must 'have regard' to Natural England's representations under the provisions of the Habitats Regulations prior to making a final decision as to whether they will 'adopt' the conclusions set out within this report as their own.

Appendix A: In-Combination Assessment

Local Planning Authority	Plan Status	Summary of Housing/Employment – Key elements of the Plan that could cause in-combination effects	Summary of HRA findings	Potential In-combination Likely Significant Effects (LSEs)
Croydon Council	<p>The Croydon Local Plan 2018¹ was adopted in 2018 by the Council.</p> <p>The Council are currently working on the Croydon Local Plan review. Consultation on the Proposed Submission draft² of the Croydon Local Plan at Regulation 19 has now concluded. Following this consultation, the submission will be made before the end of 2024.</p>	<p>The Local Plan review sets out targets for growth including a minimum of 34,145 new homes (2019-2040).</p>	<p>The Local Plan review was supported by an HRA³. The HRA conducted an AA of Wimbledon Common SAC, Mole Gap to Reigate Escarpment SAC and Richmond Park SAC. It concluded that there will be no AIOSI alone or in-combination.</p>	<p>This plan has the potential to act in-combination with the Local Plan through increased residential and employment development which may trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.</p>
Elmbridge Borough Council	<p>The Elmbridge Local Plan⁴ was adopted in 2015.</p>	<p>The Draft Local Plan sets out the delivery of at least 6,785 net additional homes between 2021 and 2037.</p>	<p>The Draft Local Plan was supported by an HRA⁶. The HRA concluded no AIOSI</p>	<p>This plan has the potential to act in-combination with the Local Plan through increased</p>

¹ Croydon Council (2018) Croydon Local Plan 2018. Available at: https://www.croydon.gov.uk/sites/default/files/Planning/Regeneration/Croydon_Local_Plan_2018.pdf [Date Accessed: 16/09/24].

² Croydon Council (2024) Croydon Local Plan 2018- Revised. Available at: <https://www.croydon.gov.uk/sites/default/files/2024-07/croydon-local-plan-%20detailed-policies-and-proposals-proposed-submission-draft-part-1.pdf> [Date Accessed: 16/09/24].

³ AECOM (2021) Habitats Regulations Assessment of the Croydon Local Plan Review. London Borough of Croydon. Available at: <https://www.croydon.gov.uk/sites/default/files/2024-06/habitats-regulations-assessment.pdf> [Date Accessed: 16/09/24].

⁴ Elmbridge Borough Council (2015) Elmbridge Local Plan: Development Management Plan. Available at: <https://www.elmbridge.gov.uk/sites/default/files/2023-05/Development%20Management%20Plan.pdf> [Date Accessed: 16/09/24].

⁶ AECOM (2022) Habitats Regulations Assessment of the Elmbridge Local Plan. Available at: <https://www.elmbridge.gov.uk/sites/default/files/2023-08/CD004%20-%20Habitats%20Regulations%20Assessment%20-%20June%202022.pdf> [Date Accessed: 16/09/24].

Local Planning Authority	Plan Status	Summary of Housing/Employment – Key elements of the Plan that could cause in-combination effects	Summary of HRA findings	Potential In-combination Likely Significant Effects (LSEs)
	The Council is working on a new Local Plan. Following its approval in July 2023, the Elmbridge Draft Local Plan ⁵ was submitted in August 2023. The submission of the Draft Local Plan to examination has been paused due to the shortfall of homes compared to the target.		alone or in-combination at any European sites.	residential and employment development which may trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.
Guildford Borough Council	The Local Plan: Strategy and Sites ⁷ was adopted in 2019. A review of the Local Plan was considered by Council in February 2024 and concluded that it should be updated. The Council is in the early stages of the Local Plan review.	The Local Plan sets out the delivery of at least 10,678 additional homes and up to 11ha of employment land by 2034.	An HRA ⁸ was conducted in support of the Local Plan: Strategy and Sites. It concludes no AIOSI alone or in-combination at any European sites.	This plan has the potential to act in-combination with the Local Plan through increased residential and employment development which may trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.
Lambeth Council	The Lambeth Local Plan 2021 ⁹ was adopted in September 2021.	The Local Plan sets out the delivery of at least 13,350 net additional dwellings and 24ha of employment land by 2028/9.	An HRA ¹⁰ was conducted in support of the Local Plan. The screening assessment on the Draft Revised Lambeth Local Plan Proposed Submission Version 2020 did not	This plan has the potential to act in-combination with the Local Plan through increased residential and employment development which may

⁵ Elmbridge Borough Council (2022) Regulation 19 Draft Elmbridge Local Plan 2037. Available at: <https://www.elmbridge.gov.uk/sites/default/files/2023-08/CD001%20-%20Draft%20Elmbridge%20Local%20Plan%202037.pdf> [Date Accessed: 16/09/24].

⁷ Guildford Borough (2019) Guildford Borough Local Plan: Strategy and Sites 2015-2034. Available at: https://www.guildford.gov.uk/media/29891/The-Guildford-borough-Local-Plan-strategy-and-sites-2015-2034/pdf/Guildford_LPSS_-_LPDMP_Update_08.08.23.pdf?m=1691506802143 [Date Accessed: 16/09/24].

⁸ Guildford Borough Council. Habitat Regulations Assessment (HRA). Available at: <https://www.guildford.gov.uk/localplan/hra> [Date Accessed: 16/09/24].

⁹ Lambeth Council (2021) Lambeth local Plan 2020-2035 Adopted September 2021. Available at: <https://www.lambeth.gov.uk/sites/default/files/2021-09/Lambeth%20Local%20Plan%202021.pdf> [Date Accessed: 16/09/24].

¹⁰ Lambeth Council (2019) Habitat Screening Assessment on Draft Revised Lambeth Local Plan Proposed Submission Version January 2020. Available at: https://www.lambeth.gov.uk/sites/default/files/pl_Habitat_Regulations_Assessment_DRLLP_PSV_2020.pdf [Date Accessed: 16/09/24].

Local Planning Authority	Plan Status	Summary of Housing/Employment – Key elements of the Plan that could cause in-combination effects	Summary of HRA findings	Potential In-combination Likely Significant Effects (LSEs)
			identify AIOSI alone or in-combination at any European site. Therefore, an AA was not required.	trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.
London Borough of Richmond upon Thames	The Council adopted the Local Plan ¹¹ in July 2018. The Council is currently preparing a new Local Plan and is undergoing examination.	The housing target for the borough is identified at 315 dwellings per annum from 2015 to 2025. However, the Mayor of London will expect the Council to exceed this target. Therefore, the Local Plan identifies opportunities for development to come forward by optimising the use of sites.	No HRA was available at the time of writing.	This plan has the potential to act in-combination with the Local Plan through increased residential and employment development which may trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.
Merton Council	The Council is in the process of preparing a New Local Plan ¹² . This will replace the adopted Local Plan (the Core Planning Strategy 2021 and Sites and Policies Plan 2014).	The New Local Plan sets out the delivery of 5,000 new homes in the Opportunity Area, 2,000 in the Morden Regeneration Zone (town centre).	An HRA ¹³ was conducted in support of the New Local Plan. It concluded no AIOSI alone or in-combination at any European site.	This plan has the potential to act in-combination with the Local Plan through increased residential and employment development which may trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.
Mole Valley District Council	The Council is in the process of preparing a new Local Plan, the Mole Valley Local Plan 2020-	The Local Plan sets out the delivery of 353 new homes per year, at least 6,000 homes over the plan period 2020-2037.	An HRA ¹⁵ was conducted in support of the new Local Plan. It concluded no AIOSI alone or in-combination at any European site.	This plan has the potential to act in-combination with the Local Plan through increased residential and employment

¹¹ London Borough of Richmond Upon Thames. Local Plan. Available at: https://www.richmond.gov.uk/media/15935/adopted_local_plan_interim.pdf [Date Accessed: 16/09/24].

¹² London Borough of Merton (2021) New Local Plan Stage 3: Whole Local Plan document. Available at: <https://www.merton.gov.uk/Documents/Merton%20Local%20Plan%20whole%20Reg19%20July21.pdf> [Date Accessed: 16/09/24].

¹³ Merton London Borough (2024) LBM33 Habitat Regulations Assessment Report on the Post Hearings Main Modification of the draft Local Plan. Available at: <https://www.merton.gov.uk/system/files/LBM33%20Habitats%20Regulations%20Assessment%20of%20Merton's%20Local%20Plan%20dated%20January%202024.pdf> [Date Accessed: 16/09/24].

¹⁵ AECOM (2023) Mole Valley Local Plan Main Modifications Habitats Regulations Assessment. Available at: <https://futuremolevalley.org/wp-content/uploads/2024/02/ED76-Habitats-Regulations-Assessment-on-the-Main-Modifications.pdf> [Date Accessed: 16/09/24].

Local Planning Authority	Plan Status	Summary of Housing/Employment – Key elements of the Plan that could cause in-combination effects	Summary of HRA findings	Potential In-combination Likely Significant Effects (LSEs)
	37 ¹⁴ . In February 2022 the plan was submitted for examination. This will replace the Core Strategy (2009) and Local Plan 2000.			development which may trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.
Reigate and Banstead Council	The current development plan consists of the Core Strategy and Development Management Plan. The Core Strategy was adopted in 2014 and reviewed in 2019 and 2024 ¹⁶ .	Not available at the time of writing.	An HRA ¹⁷ was conducted in support of the new development plan. It concluded no AIOSI alone or in-combination at any European site.	This plan has the potential to act in-combination with the Local Plan through increased residential and employment development which may trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.
Spelthorne Borough Council	The Council is currently working on the Emerging Local Plan 2022-2037 and will replace the 2009 Development Plan.	Not available at the time of writing.	An HRA ¹⁸ was conducted in support of the Emerging Local Plan. It concluded that an Appropriate Assessment was required.	This plan has the potential to act in-combination with the Local Plan through increased residential and employment development which may trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.

¹⁴ Future Mole Valley. Draft Mole Valley Local Plan 2020-2037. Proposed Submission Version (Regulation 19). Available at: <https://futuremolevalley.org/wp-content/uploads/2023/11/A1.-Draft-Local-Plan-Proposed-Submission-Version-Regulation-19-MVDC-2021.pdf> [Date Accessed: 16/09/24].

¹⁶ Reigate & Banstead Borough Council (2024) Review of Reigate & Banstead Local Plan: Core Strategy. Available at: <https://reigate-banstead.moderngov.co.uk/documents/s31510/Annex%201%20Local%20Plan%20Core%20Strategy%20Review.pdf> [Date Accessed: 16/09/24].

¹⁷ Reigate & Banstead Borough Council (2019) Habitats Regulation Assessment & Appropriate Assessment Addendum. Development Management Plan: Main Modifications.

¹⁸ WSP (2022) Local Plan Habitats Regulations Assessment – Stage 1 Screening. Available at: https://www.spelthorne.gov.uk/media/25391/Habitats-Regulations-Assessment-Stage-1-Screening/pdf/Habitats_Regulations_Assessment_-_Stage_1_Screening.pdf?m=637963310902470000 [Date Accessed: 16/09/24].

Local Planning Authority	Plan Status	Summary of Housing/Employment – Key elements of the Plan that could cause in-combination effects	Summary of HRA findings	Potential In-combination Likely Significant Effects (LSEs)
Sutton Council	In 2018, the Council adopted the Local Plan ¹⁹ as a development plan document (DPD) until 2031. The Council is currently preparing a new Local Plan 2024-2041 ²⁰ . The first consultation stage, Issues and Preferred Options, will run until 26 th of September 2024.	The Local Plan sets out the delivery of at least 403 homes per year.	No HRA was available at the time of writing.	This plan has the potential to act in-combination with the Local Plan through increased residential and employment development which may trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.
Tandridge District Council	The Tandridge District Core Strategy ²¹ was adopted in 2008. Following the withdrawal of Our Local Plan 2033, the Council is preparing a new Local Plan.	Not available at the time of writing.	Not available at the time of writing.	This plan has the potential to act in-combination with the Local Plan through increased residential and employment development which may trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.

¹⁹ Sutton Council (2018) Sutton Local Plan 2016-2031. London Borough of Sutton Local Plan. Available at:

<https://www.sutton.gov.uk/documents/20124/864129/1.+Sutton+Local+Plan+%28Adopted+2018%29.pdf/57903d66-57ad-bf28-857d-8c8e779fc3ce?t=1678268850847> [Date Accessed: 16/09/24].

²⁰ Sutton Council (2024) London Borough of Sutton Local Plan Issues and Preferred Options Consultation (Regulation 18). Available at: <https://www.sutton.gov.uk/documents/d/guest/local-plan-issues-and-preferred-options-2024-> [Date Accessed: 16/09/24].

²¹ Tandridge District Council (2008) Tandridge District Core Strategy. Available at:

https://www.tandridge.gov.uk/Portals/0/Documents/Planning%20and%20building/Planning%20strategies%20and%20policies/Current%20and%20adopted%20planning%20policies/Core%20strategy/Core-Strategy.pdf?ver=_zP2pjmfxzC9M7nkmKaYIA%3d%3d [Date Accessed: 16/09/24].

Local Planning Authority	Plan Status	Summary of Housing/Employment – Key elements of the Plan that could cause in-combination effects	Summary of HRA findings	Potential In-combination Likely Significant Effects (LSEs)
The Royal Borough of Kingston upon Thames	<p>The Council is currently preparing a new Local Plan²² to replace the Core Strategy (2012) and the Kingston Town Centre Area Action Plan (2008).</p> <p>The First Draft Local Plan consultation was conducted from November 2022 to February 2023. The Publication version (Regulation 19) is being prepared.</p>	<p>The Local Plan sets out the delivery of 9,640 new homes between 2019/20 and 2028/9 in line with the London Plan’s housing target.</p>	<p>An HRA²³ was conducted in support of the new Local Plan at Regulation 18. It concluded that further detailed assessment is required to rule out in-combination LSEs on European sites.</p>	<p>This plan has the potential to act in-combination with the Local Plan through increased residential and employment development which may trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.</p>
Wandsworth Borough Council	<p>The Wandsworth Local Plan 2023-2038²⁴ was adopted in July 2023.</p>	<p>Within the plan period 2023-2038, the local Plan will provide for a minimum of 20,311 new homes (1,950 new homes per year until 2028/9).</p>	<p>An HRA²⁵ was conducted in support of the Local Plan. The screening assessment did not identify any AIOSI alone or in-combination at any European site.</p>	<p>This plan has the potential to act in-combination with the Local Plan through increased residential and employment development which may trigger in-combination recreational, urbanisation, air quality, and hydrology LSEs.</p>

²² The Royal Borough of Kingston Upon Thames (2022) Kingston’s Local Plan First Draft of the Local Plan Consultation (Regulation 18). Available at: https://www.kingstonletstalk.co.uk/planning/first-draft-local-plan/supporting_documents/Kingstons_first_draft_Local_Plan.pdf [Date Accessed: 16/09/24].

²³ WSP (2022) New Local Plan Habitats Regulations Screening Assessment. Available at: https://www.kingstonletstalk.co.uk/planning/first-draft-local-plan/supporting_documents/RBKUP_Local_Plan_Reg_18_HRSA.pdf [Date Accessed: 16/09/24].

²⁴ Wandsworth Borough Council (2023) Wandsworth Local Plan 2023-2038. Available at: https://www.wandsworth.gov.uk/media/large/adopted_local_plan.pdf [Date Accessed: 16/09/24].

²⁵ Wandsworth Borough Council (2023) Initial Habitat Screening Assessment Wandsworth Local Plan Partial Review (LPPR). Available at: https://www.wandsworth.gov.uk/media/lpejujdf/local_plan_partial_review_habitat_screening_assessment.pdf [Date Accessed: 16/09/24].

Local Planning Authority	Plan Status	Summary of Housing/Employment – Key elements of the Plan that could cause in-combination effects	Summary of HRA findings	Potential In-combination Likely Significant Effects (LSEs)
Thames River Basin Management Plan (RBMP)	The Thames RBMP ²⁶ was updated in October 2022.	The Plan provides an overview of river basin planning in England and Wales for the Thames River Basin District. It includes objectives for each water body and a summary of the measures necessary to reach those objectives.	The RBMP was supported by an HRA ²⁷ . This concluded that, at the strategic plan level, the RBMP is not likely to have any significant effects on any European sites, alone or in combination with other plans or projects. Given this conclusion, there is no requirement, at this strategic plan level, to progress to the next stage of the HRA (an 'appropriate assessment' to examine the question of adverse effects on the integrity of European sites). The RBMP does not specify exactly where or how measures should be implemented, this will be determined at either a lower-tier plan or project level and this is taken into consideration in the HRA. The HRA also draws on detailed mitigation measures and procedures currently in place.	The RBMP actions are focused on water body and water dependent European site improvements. Whilst development activities arising from Local Development Plans (including the GGTS DPD) may inhibit the ability of the RBMP to achieve objectives relating to European site protected areas, the overall effect of the RBMP is to promote management towards GEP and GES.
Thames Water Resource Management Plan (WRMP)	The revised draft Thames WRMP ²⁸ 2024 sets out the regional plan over the next 50 years, looking ahead to 2075. The Final WRMP24 is due to be	The WRMP highlights the significant future shortfall in water resources in the supply area and sets out the policies to maintain the balance between water supply and demand.	An HRA ²⁹ supported the WRMP. It concludes no adverse impact on the integrity of any European sites either alone or in-combination.	This plan aims to protect the water environment and takes account for future water demand. It is unlikely that the WRMP will have alone or

²⁶ Environment Agency (2022) Thames River Basin Management Plan. Available at: <https://www.gov.uk/guidance/thames-river-basin-district-river-basin-management-plan-updated-2022> [Date Accessed:: 15/08/24]

²⁷ Environment Agency (2022) River basin management plan for the Thames River Basin District Habitats Regulations Assessment. Available at: https://assets.publishing.service.gov.uk/media/635248048fa8f554cca7b226/Thames_river_basin_management_plan_2022_HRA.pdf [Date Accessed:: 03/08/24].

²⁸ Thames Water (2024) Revised Water Resources Management Plan 2024. Available at: <https://thames-wrmp.co.uk/news/documents/#collapse-4> [Date Accessed: 03/09/24].

²⁹ Ricardo Energy & Environment (2020) Final Water Resources Management Plan 2019: Habitats Regulations Assessment – April 2020. Available at: <https://www.thameswater.co.uk/media-library/home/about-us/regulation/water-resources/technical-appendices/appendix-c-habitats-regulation-assessment.pdf> [Date Accessed: 03/09/24].

Local Planning Authority	Plan Status	Summary of Housing/Employment – Key elements of the Plan that could cause in-combination effects	Summary of HRA findings	Potential In-combination Likely Significant Effects (LSEs)
	published in October 2024 (but had not been [published at the time of writing])			in-combination effects on the water environment.
SES Water WRMP	The revised draft SES WRMP ³⁰ 2024 sets out the regional plan over the next 50 years, looking ahead to 2075.	SESs published WRMP demonstrates the long-term plans in place to accommodate the impacts of population growth, drought, our environmental obligations and climate change uncertainty in order to balance the supply and demand for water in the communities. The plan covers the period from 2025 to 2075.	An HRA ³¹ was conducted in 2022. The HRA identifies both adverse and beneficial impacts and proposes mitigation where required. It concluded that the WRMP is a well-balanced Plan in terms of environmental protection whilst meeting requirements for water supply.	This plan aims to protect the water environment and takes account for future water demand. It is unlikely that the WRMP will have alone or in-combination effects on the water environment.
Thames Water Drought Plan ³² .	The Thames Water Drought Plan was adopted in 2022	The Drought Plan outlines the operational steps that will be conducted if we face a drought in the next 5 years. It describes how supplies will be enhanced, demands managed, and environmental impacts minimised. It proposes ongoing leakage reduction measures, water efficiency and monitoring and metering activities.	An HRA ³³ was prepared in support of the Drought Plan. It concluded no adverse impacts on the integrity of any European site either alone or in-combination.	This plan aims to protect the water environment in times of drought. It is unlikely that the WRMP will have alone or in-combination effects on the water environment.

³⁰ SES Water (2022) Revised Draft Water Resources Management Plan 2025-2075. Non-technical summary. Available at: <https://seswater.co.uk/-/media/files/seswater/about-us/publications/ses-revised-draft-wrmp-non-technical-summary-021123.pdf> [Date Accessed: 16/09/24].

³¹ Atkins (2022) SES Water WRMP24. Strategic Environmental Assessment Non-Technical Summary. Available at: <https://seswater.co.uk/-/media/files/seswater/your-environment/wrmp-2022/ses-water-dwrmp-sea-nts.pdf> [Date Accessed: 16/09/24].

³² Thames Water (2022) Drought Plan 2022. Available at: <https://www.thameswater.co.uk/media-library/home/about-us/regulation/drought-plan/drought-plan-2022/thames-water-drought-plan-2022.pdf> [Date Accessed: 03/09/24].

³³ Ricardo (2022) Thames Water Final Drought Plan 2022. Habitat Regulations Assessment – Screening Report. Available at: <https://www.thameswater.co.uk/media-library/home/about-us/regulation/drought-plan/drought-plan-2022/hra-screening-report.pdf> [Date Accessed: 03/09/24].

Local Planning Authority	Plan Status	Summary of Housing/Employment – Key elements of the Plan that could cause in-combination effects	Summary of HRA findings	Potential In-combination Likely Significant Effects (LSEs)
SES Water Drought Plan ³⁴	The SES Water Drought Plan was prepared in 2022.	The Drought Plan outlines the area of operation and describes how SES Water will supply adequate quantities of water, at an appropriate quality, with as little recourse as possible to drought orders or permits, during times of drought. It proposes additional indicators to promote demand saving measures earlier in times of drought and prioritises improving customer understanding of drought actions.	An HRA was not available online but the outcomes (which are reported in the Drought Plan) conclude no likely significant effects the integrity of European sites.	This plan aims to protect the water environment in times of drought. It is unlikely that the Drought Plan will have alone or in-combination effects on the water environment.
Surrey County Council Local Transport Plan 4 ³⁵	Local Transport Plan ⁴ was adopted in July 2022.	The LTP4 sets out changes that will need to be made to transform the transport network in Surrey to achieve net zero emissions by 2050, in line with the national target.	The HRA is not available publicly.	
Surrey County Council Minerals Plan ³⁶	Surrey Minerals Plan adopted 2011 Surrey County Council are currently preparing a new Minerals and Waste Plan.	The Surrey Minerals Plan provides strategic policies for minerals, and site specific proposals for the extraction of minerals for the period to 2026.	Whilst an HRA was not available publicly, the Minerals Plan notes that an HRA has been undertaken which notes that project level an appropriate assessment will be needed where proposals are made which are likely to have a direct or indirect impact on the designated areas.	There is potential for extraction of minerals to have an in-combination effect at European sites from air quality and water pathways of impact.

³⁴ SES Water (2022) Drought Plan 2022. Available at: <https://seswater.co.uk/-/media/files/seswater/your-environment/ses-water-drought-plan-november-22-final.pdf> [Date Accessed: 16/09/24].

³⁵ Surrey County Council (2022) Local Transport Plan 4 <https://www.surreycc.gov.uk/roads-and-transport/policies-plans-consultations/transport-plan> [Date Accessed: 16/10/24].

³⁶ Surrey County Council (2011) Surrey Minerals Plan 2011 Core Strategy Development Plan Document. Available at: https://www.surreycc.gov.uk/_data/assets/pdf_file/0007/81439/Adopted-Core-Strategy-Development-Plan-Document.pdf [Date Accessed: 16/10/24].

Local Planning Authority	Plan Status	Summary of Housing/Employment – Key elements of the Plan that could cause in-combination effects	Summary of HRA findings	Potential In-combination Likely Significant Effects (LSEs)
Surrey County Council Waste Plan ³⁷	Surrey Waste Plan adopted 2020 Surrey County Council are currently preparing a new Minerals and Waste Plan.	The Plan sets out policies and sites where there is potential for development of waste facilities (on industrial land and allocated sites) to ensure land is available to be developed so that there are enough waste management facilities to handle the equivalent amount of waste arising in Surrey.	An HRA was not available publicly. The Waste Plan however notes that an AA has been undertaken which made recommendations in respect of the suitability of the allocated sites and these have been taken forward into detailed guidance for each site.	There is potential for waste management to have an in-combination effect at European sites from air quality and water pathways of impact.

³⁷ Surrey County Council (2020) Surrey Local Waste Plan – Part 1 Policies. Part 2 Sites and areas of search. Available at: <https://www.surreycc.gov.uk/land-planning-and-development/minerals-and-waste/waste-plan> [Date Accessed: 16/10/24].

Appendix B: Screened In European Site Conservation Objectives, Qualifying Features, Threats and Pressures

Mole Gap to Reigate Escarpment SAC¹

Conservation objectives:

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.

Qualifying Features:

H4030. European dry heaths

H5110. Stable *xerothermophilous* formations with *Buxus sempervirens* on rock slopes (*Berberidion p.p.*); Natural box scrub

H6210. Semi-natural dry grasslands and scrubland facies on calcareous substrates (*Festuco-Brometalia*) (important orchid sites); Dry grasslands and scrublands on chalk or limestone (important orchid sites)

H9130. *Asperulo-Fagetum* beech forests; Beech forests on neutral to rich soils

H91J0. *Taxus baccata* woods of the British Isles; Yew-dominated woodland

S1166. *Triturus cristatus*; Great crested newt

S1323. *Myotis bechsteinii*; Bechstein's bat

*denotes a priority natural habitat or species

Threats and Pressures at European site which may be affected by the Local Plan^{2,3}:

- Water quality and quantity;
- Habitat connectivity (FLL);
- Public access / disturbance; and,
- Atmospheric pollution – impact of atmospheric nitrogen deposition.

South West London Waterbodies SPA⁴

Conservation objectives:

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:

¹ Natural England (2019) Mole Gap to Reigate Escarpment SAC Conservation Objectives. Available at: <https://designatedsites.naturalengland.org.uk/TerrestrialAdvicePDFs/UK0012804.pdf> [Accessed 13/09/24].

² Natural England (2014) Mole Gap to Reigate Escarpment SIP. Available at: <https://publications.naturalengland.org.uk/file/6256378880458752> [Accessed 09/07/24].

³ Natural England (2019) Mole Gap to Reigate Escarpment SAC Conservation Objectives Supplementary Advice. Available at: <https://designatedsites.naturalengland.org.uk/TerrestrialAdvicePDFs/UK0012804.pdf> [Accessed 10/07/24].

⁴ Natural England (2019) South West London Waterbodies SPA Conservation Objectives. Available at: <https://publications.naturalengland.org.uk/file/5411059804667904> [Accessed 13/09/24].

South West London Waterbodies SPA⁴

- 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.

Qualifying Features:

A051. *Anas strepera*; Gadwall (Non-breeding)

A056. *Anas clypeata*; Northern shoveler (Non-breeding)

Threats and Pressures at European site which may be affected by the Local Plan^{5,6}:

- Public access / disturbance;
- Air quality;
- Hydrology; and,
- Habitat connectivity.

South West London Waterbodies Ramsar⁷

Ramsar sites do not have the Conservation Objectives in the same way as SPAs and SACs. Information regarding the designation of Ramsar sites is contained in JNCC Ramsar Information Sheets. Ramsar Criteria are the criteria for identifying Wetlands of International Importance. The relevant criteria and ways in which this site meets the criteria are presented in the table below.

Ramsar Criterion	Justification for the application of each criterion
6	<p>Species/populations occurring at levels of international importance.</p> <p>Qualifying species/populations (as identified at designation):</p> <p>Species with peak counts in spring/autumn:</p> <ul style="list-style-type: none"> • Northern shoveler, <i>Anas clypeata</i>, NW & C Europe – 397 individuals, representing an average of 2.6% of the GB population (5 year peak mean 1998/9-2002/3) <p>Species with peak counts in winter:</p> <ul style="list-style-type: none"> • Gadwall, <i>Anas strepera strepera</i>, NW Europe – 487 individuals, representing an average of 2.8% of the GB population (5 year peak mean 1998/9-2002/3)

Threats and Pressures at European site which may be affected by the Local Plan:

No factors reported.

⁵ Natural England (2014) Site Improvement Plan: South West London Waterbodies. Available at: <https://publications.naturalengland.org.uk/file/5135484288237568> [Accessed: 13/09/24].

⁶ Natural England (2018) South West London Waterbodies SPA Conservation Objectives Supplementary Advice. Available at: <https://designatedsites.naturalengland.org.uk/TerrestrialAdvicePDFs/UK9012171.pdf> [Accessed 13/09/24].

⁷ JNCC (2000) Ramsar Information Sheet: South West London Waterbodies. Available at: <https://jncc.gov.uk/jncc-assets/RIS/UK11065.pdf> [Accessed 13/09/24].

Thames Basin Heaths SPA⁸

Conservation objectives:

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 maintain 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.

Qualifying features:

A224 *Caprimulgus europaeus*; European nightjar (Breeding)

A246 *Lullula arborea*; Woodlark (Breeding)

A302 *Sylvia undata*; Dartford warbler (Breeding)

Threats and Pressures at European site which may be affected by the Local Plan^{9,10}:

- Public access / disturbance;
- Habitat connectivity (FLL);
- Predation;
- Hydrological changes; and,
- Air pollution – impact of atmospheric nitrogen deposition.

Wimbledon Common SAC¹¹

Conservation objectives:

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.

Qualifying Features:

H4010. Northern Atlantic wet heaths with *Erica tetralix*; Wet heathland with cross-leaved heath

H4030. European dry heaths

⁸ Natural England (2019) Thames Basin Heaths SPA Conservation Objectives. Available at: <https://publications.naturalengland.org.uk/file/5048458801315840> [Accessed 09/07/24].

⁹ Natural England (2014) Thames Basin SIP. Available at: <https://publications.naturalengland.org.uk/file/5946121331408896> [Accessed 09/07/24].

¹⁰ Natural England (2016) Thames Basin Heaths SPA Conservation Objectives Supplementary Advice. Available at: <https://designatedsites.naturalengland.org.uk/TerrestrialAdvicePDFs/UK9012141.pdf> [Accessed 10/07/24].

¹¹ Natural England (2018) Wimbledon Common SAC Conservation Objectives. Available at: <https://publications.naturalengland.org.uk/file/6215672493506560> [Accessed 13/09/24].

Wimbledon Common SAC¹¹

S1083. *Lucanus cervus*; Stag beetle

Threats and Pressures at European site which may be affected by the Local Plan^{12,13}:

- Public access / disturbance;
- Hydrology
- Habitat fragmentation; and,
- Atmospheric pollution – impact of atmospheric nitrogen deposition.

¹² Natural England (2014) Site Improvement Plan: Wimbledon Common. Available at:
<https://publications.naturalengland.org.uk/file/5097829219434496> [Accessed 13/09/24].

¹³ Natural England (2016) Wimbledon Common SAC Conservation Objectives Supplementary Advice. Available at:
<https://designatedsites.naturalengland.org.uk/TerrestrialAdvicePDFs/UK0030301.pdf> [Accessed 13/09/24].

Appendix C: Epsom & Ewell Local Plan Policy & Allocation Screening Evaluation

Chapter 1 – 2 – Introductions and Context

Policy number / name	Description of policy	Screening conclusion (Screening Category – Table 4.1) and recommendations
Chapter 1 – 2	This chapter contains administrative text.	Screen Out – Administrative text

Chapter 3 – Spatial Strategy

Policy number / name	Description of policy	Screening conclusion (Screening Category – Table 4.1) and recommendations
Policy S1: Spatial Strategy	This policy identifies the quantum of development required over the Plan period (2022-2040), making provision for at least 4,700 new homes. Employment needs (office, light industrial, industrial and warehousing) will be met through the intensification of existing strategic employment sites and the delivery of additional employment floorspace that is compatible with residential use in Epsom Town Centre. Retail needs will be met within existing	Screen In – Category L

Policy number / name	Description of policy	Screening conclusion (Screening Category – Table 4.1) and recommendations
	<p>centres and through the provision of small-scale retail facilities within the Ewell East Station strategic allocation. Provision has been made for 10 permanent pitches for Gypsies and Travellers within Epsom and Ewell over the plan period. The council will seek to make additional provision by permitting suitable sites.</p> <p>Development within the Plan area (from the Local Plan alone and the Local Plan in-combination with development in neighbouring local plan areas (see Appendix A)) has the potential to cumulatively result in the following LSEs:</p> <ul style="list-style-type: none"> - Mole Gap to Reigate Escarpment SAC – air quality and recreational pressure in-combination LSEs; - South West London Waterbodies SPA – water quantity in-combination LSEs; - South West London Waterbodies Ramsar – water quantity in-combination LSEs; - Wimbledon Common SAC – water quantity in-combination LSEs. 	
Policy SA2: Sustainable and Viable Development	This policy sets out the provisions for sustainable and viable development within the Plan area. It will not lead to development or any change which may have an LSE on any European site. Instead, it sets criteria in relation to sustainability which is a requirement for new development.	Screen Out – Category B
Policy S3: Climate Change and Mitigation	This policy sets out a set of criteria which development must meet to address climate change. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category B
Policy S4: Epsom Town Centre	This policy sets out criteria to regenerate and expand Epsom Town Centre in becoming diversified in terms of use and supporting windfall developments. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category B

Chapter 4 - Planning for Places

The locations of site allocations are illustrated in Figure D.1 below.

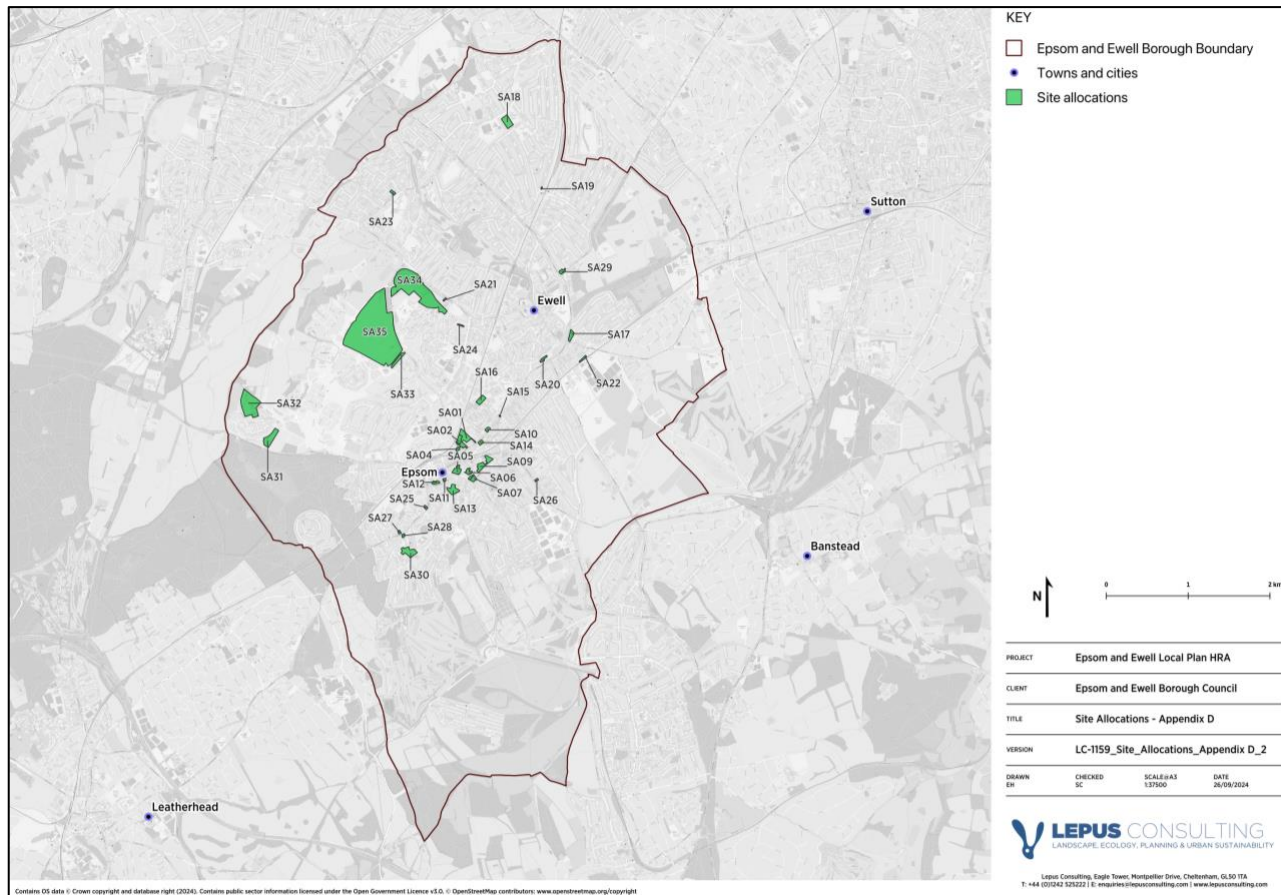


Figure D.1: Plan of allocation locations

Policy number / name	Description of policy for each site allocation	Screening conclusion (Screening Category – Table 4.1) and recommendations
Site SA1: Southern Gas Network Site	<p>This policy is for the residential led mixed use development of this site, comprising approximately 455 new homes and a performing arts centre.</p> <p>Development within the Plan area (from the Local Plan alone and the Local Plan in-combination with development in neighbouring local plan areas (see Appendix A)) has the potential to cumulatively result in the following LSEs:</p> <ul style="list-style-type: none"> - Mole Gap to Reigate Escarpment SAC – air quality and recreational pressure in-combination LSEs; - South West London Waterbodies SPA – water quantity in-combination LSEs; - South West London Waterbodies Ramsar – water quantity in-combination LSEs; - Wimbledon Common SAC –water quantity in-combination LSEs. 	Screen In – Category L
Site SA2: Hook Road Car Park	<p>This policy is for the residential led development of this site, comprising approximately 150 new homes.</p> <p>Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.</p>	Screen In – Category L
Site SA3: Solis House, 20 Hook Road	<p>This policy is for the residential led development of this site, comprising approximately 20 new homes.</p> <p>Development within the Plan area has the potential to cumulatively result a number of LSEs as for Policy SA1 listed above.</p>	Screen In – Category L
Site SA4: Bunzl, Hook Road	<p>This policy is for the residential led development of this site, comprising approximately 20 new homes.</p> <p>Development within the Plan area has the potential to cumulatively result a number of LSEs as for Policy SA1 listed above.</p>	Screen In – Category L
Site SA5: Epsom Town Hall	<p>This policy is for the residential led development of this site, comprising approximately 90 new homes.</p> <p>Development within the Plan area has the potential to cumulatively result a number of LSEs as for Policy SA1 listed above.</p>	Screen In – Category L
Site SA6: Hope Lodge Car Park	<p>This policy is for the residential led development of this site, comprising approximately 30 new homes.</p> <p>Development within the Plan area has the potential to cumulatively result a number of LSEs as for Policy SA1 listed above.</p>	Screen In – Category L
Site SA7: Former Police and	<p>This policy is for the residential led mixed use development of this site, comprising approximately 85 new homes and a nursing and dementia care home for the elderly.</p>	Screen In – Category L

Policy number / name	Description of policy for each site allocation	Screening conclusion (Screening Category – Table 4.1) and recommendations
Ambulance Station Sites	Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	
Site SA8: Epsom Clinic	This policy is for the residential led development of this site, comprising approximately 30 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA9: Depot Road and Upper High Street Car Park	This policy is for the residential led mixed use development of this site, comprising approximately 100 new homes and a decked public car park. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA10: 79-85 East Street	This policy is for the residential led development of this site, comprising approximately 35 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA11: Finachem House, 2-4 Ashley Road	This policy is for the residential led development of this site, comprising approximately 20 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA12: Global House	This policy is for the residential led development of this site, comprising approximately 75 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA13: Swail House	This policy is for the residential led development of this site, comprising approximately 45 new homes as part of the refurbishment of Swail House. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA14: 60 East Street	This policy is for the residential led development of this site, comprising approximately 30 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L

Policy number / name	Description of policy for each site allocation	Screening conclusion (Screening Category – Table 4.1) and recommendations
Site SA15: Corner of Kiln Lane and East Street (101b East Street)	This policy is for the residential led development of this site, comprising approximately 5 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA16: Land at Kiln Lane	This policy is for the residential led development of this site, comprising approximately 40 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA17: Hatch Furlong Nursery	This policy is for the residential led development of this site, comprising approximately 30 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA18: Land to the Rear of Rowe Hall	This policy is for the residential led development of this site, comprising approximately 96 new apartments which classify as extra care accommodation, including spaces for staff and communal facilities. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA19: 7 Station Approach	This policy is for the residential led development of this site, comprising approximately 5 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA20: Esso Express, 26 Reigate Road	This policy is for the residential led development of this site, comprising approximately 10 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA21: Richards Field Car Park	This policy is for the residential led development of this site, comprising approximately 7 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L

Policy number / name	Description of policy for each site allocation	Screening conclusion (Screening Category – Table 4.1) and recommendations
Site SA22: Etwelle House, Station Road	This policy is for the residential led development of this site, comprising approximately 20 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA23: 140-142 Ruxley Lane	This policy is for the residential led development of this site, comprising approximately 12 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA24: Garages at Somerset Close and Westmorland Close	This policy is for the residential led development of this site, comprising approximately 6 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA25: 64 South Street Epsom	This policy is for the residential led development of this site, comprising approximately 6 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA26: 35 Alexandra Road	This policy is for the residential led development of this site, comprising approximately 8 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA27: 22-24 Dorking Road	This policy is for the residential led development of this site, comprising approximately 18 new homes. Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.	Screen In – Category L
Site SA28: 63 Dorking Road	This policy is for the mixed use development of this site, comprising a specialist care home with ancillary accommodation for nurses (equivalent to 6 net dwellings). Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above with the exception of recreational impacts given the nature of development.	Screen In – Category L

Policy number / name	Description of policy for each site allocation	Screening conclusion (Screening Category – Table 4.1) and recommendations
Site SA29: 65 London Road	<p>This policy is for the mixed use development of this site, comprising a care home with up to 81 bedrooms.</p> <p>Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above with the exception of recreational impacts given the nature of development..</p>	Screen In – Category L
Site SA30: Epsom General Hospital	<p>This policy is for the mixed use development of this site, comprising approximately 305 units of older people’s accommodation, 24 key worker units and a children’s nursery.</p> <p>Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.</p>	Screen In – Category L
Site SA31: Land at West Park Hospital (South)	<p>This policy is for the residential led development of this site, comprising approximately 50 new homes.</p> <p>Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.</p>	Screen In – Category L
Site SA32: Land at West Park Hospital (North)	<p>This policy is for the residential led mixed use development of this site, comprising approximately 150 new homes and a health hub.</p> <p>Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.</p>	Screen In – Category L
Site SA33: Land at Chantily Way	<p>This policy is for the residential led development of this site, comprising approximately 30 new homes.</p> <p>Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.</p>	Screen In – Category L
Site SA34: Hook Road Arena	<p>This policy is for the residential led mixed use development of this site, comprising approximately 100 new homes and the development of a new sports hub.</p> <p>Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.</p>	Screen In – Category L
Site SA35: Land at Horton Farm	<p>This policy is for the residential led mixed use development of this site, comprising approximately 1,250 new homes, 10 gypsy and traveller pitches, community building and health hub, and approximately 10ha of public open space.</p> <p>Development within the Plan area has the potential to cumulatively result a number of LSEs as listed for Policy SA1 above.</p>	Screen In – Category L

Chapter 5 – Homes for all

Policy number / name	Description of policy	Screening conclusion (Screening Category – Table 4.1) and recommendations
Policy S5: Housing Mix and Type	This policy sets out requirements for development in terms of housing mix and type to be provided. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy S6: Affordable Housing	This policy sets out requirements for development in terms of affordable housing to be provided. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM1: Residential Space Standards	This policy sets out design requirements for development, including private outdoor space and accessibility requirements. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM2: Self and Custom Build Policy	This policy sets out requirements for the development of self and custom build plots. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy S7: Specialist Housing	This policy sets out requirements for specialist housing. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM3: Loss of Housing	This policy sets out circumstances where the loss of housing may be permitted. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F

Policy S8: Gypsies, Travellers and Travelling Showpeople	This policy sets out the land to be safeguarded for existing supply and where development proposals would be permitted and criteria that would be used to determine applications. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
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Chapter 6 – Economy

Policy number / name	Description of policy	Screening conclusion (Screening Category – Table 4.1) and recommendations
Policy S9: Economic Development	This policy sets out requirements to fulfil the sustainable economic growth of the borough. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy S10: Retail Hierarchy and Network	This policy sets out the retail hierarchy. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM4: Primary Shopping Areas and Retail Frontages	This policy identifies a Primary Shopping Area (PSA) where the Council considers retail uses should remain. It also identifies primary and secondary retail frontages with the PSA. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM5: Edge of Centre or Out of Centre Proposals	This policy sets out tests which will apply to protect trading performance across the Plan area. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM6: Neighbourhood Parades and Isolated Shops	This policy sets out circumstances in which development proposals will be considered in neighbourhood parades and at isolated shops. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM7: Employment Land	<p>This policy designates Kiln Lane and Longmead Industrial Estates as areas for securing strategic employment sites. Development within the Plan area (from the Local Plan alone and the Local Plan in-combination with development in neighbouring local plan areas (see Appendix A)) has the potential to cumulatively result in the following LSEs:</p> <ul style="list-style-type: none"> - Mole Gap to Reigate Escarpment SAC – air quality in-combination LSEs; - South West London Waterbodies SPA – water quantity in-combination LSEs; - South West London Waterbodies Ramsar – water quantity in-combination LSEs; 	Screen In – Category L

Policy number / name	Description of policy	Screening conclusion (Screening Category – Table 4.1) and recommendations
	- Wimbledon Common SAC – water quantity in-combination LSEs.	
Policy DM8: Racehorse Training Zone	This policy sets out planning permission requirements for equestrian and horse racing facilities. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM9: Visitor Accommodation	This policy sets out criteria for visitor accommodation. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F

Chapter 7 – Built and Natural Environment

Policy number / name	Description of policy	Screening conclusion (Screening Category – Table 4.1) and recommendations
Policy S11: Design	This policy sets out design criteria for all development. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category B
Policy S12: Amenity Protection	This policy sets out to protect amenities for its future occupants and nearby properties. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
DM10: Building Emission Standards	This policy sets out requirements to meet buildings emissions standards such as embedding the Energy Hierarchy, achieving Net Zero Carbon for residential development and achieving a minimum of an 'Excellent' BREEAM standard or equivalent. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
DM11: Sustainable water use	This policy sets out the requirements for new homes to meet the water efficiency standard of a maximum of 110 litres per person per day for residential development. It is a plan-wide environmental protection policy and will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category D
DM12: Health Impact Assessments	This policy sets out the requirement to conduct a Health Impact Assessment for developments of 100 or more units. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy S12: Preserving identity of place with heritage	This policy sets out protections for the cultural, historic and architectural townscape character of the borough. It is a plan-wide environmental protection policy and will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category D
Policy S13: Preserving identity of place with heritage	This policy seeks to enhance the cultural, historic, architectural and townscape character and will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category D

Policy number / name	Description of policy	Screening conclusion (Screening Category – Table 4.1) and recommendations
Policy DM13: Development Impacting Heritage Assets	This policy sets out protections for heritage assets and the historic environment. It is a plan-wide environmental protection policy and will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category D
Policy DM14: Shopfronts	This policy sets out the requirements for the design of new shopfronts. It is a policy and will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM15: Green Belt	This policy sets out protections that only permit development in the greenbelt under specific circumstances. It is a plan-wide environmental protection policy and will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category D
Policy DM16: Landscape Character	This policy sets out requirements for the conservation of the landscape character of the borough. It is a plan-wide environmental protection policy and will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category D
Policy S14: Biodiversity and Geodiversity	This policy sets out protections and enhancements for biodiversity. It specifically notes that there will be no adverse effect on the integrity of international designated sites (which include Habitats sites). It is a plan-wide environmental protection policy and will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category D
Policy S15: Biodiversity Net Gain	This policy sets out the requirement to achieve at least 10% biodiversity net gain within new developments. It is a plan-wide environmental protection policy and will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category D
Policy DM17: Trees, Woodlands and Hedgerows	This policy sets out protections for trees, woodlands and hedgerows. It is a plan-wide environmental protection policy and will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category D

Policy number / name	Description of policy	Screening conclusion (Screening Category – Table 4.1) and recommendations
Policy S16: Flood Risk and Sustainable Drainage	This policy sets out requirements for management and reduction of flood risk and requirements for implementation of sustainable drainage systems (SuDS). It is a plan-wide environmental protection policy and will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category D
Policy DM18: Pollution and Contamination	This policy sets out requirements for identification and improvements in pollution (soil, contaminated land, water quality, air quality, noise and vibration and light). It is a plan-wide environmental protection policy and will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category D

Chapter 8 – Infrastructure

Policy number / name	Description of policy	Screening conclusion (Screening Category – Table 4.1)
Policy S17: Infrastructure Delivery	This policy sets out requirements for development to contribute to infrastructure and information on scale, timings and delivery. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy S18: Green and Blue Infrastructure	This policy sets out requirements for development to protect and enhance green infrastructure. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM19: Open Space, Sport and Recreation	This policy ensures the range and quality of existing open space, sport and recreation provision is maintained and improved where needs are identified. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM20: Community and Cultural Facilities	This policy supports the safeguarding of existing community and cultural facilities and delivery of additional facilities to meet need. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F

Policy number / name	Description of policy	Screening conclusion (Screening Category – Table 4.1)
Policy DM21: Education Infrastructure	This policy sets out circumstances where development for intensification, enhancement and maximisation of use of education infrastructure will be supported. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy S19: Transport	This policy promotes the inclusion, facilities and connection to sustainable and active travel options in new development. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM22: Aerodrome Safeguarding	This policy ensures the design of development safeguards the aerodrome for Heathrow and Gatwick Airport which covers a large proportion of the borough. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F
Policy DM23: Digital Infrastructure and Communications	This policy provides assessment criteria and guidance regarding future telecommunications and utilities equipment for development. It will not lead to development or any change which may have an LSE on any European site.	Screen Out – Category F

Habitats Regulations Assessments

Sustainability Appraisals

Strategic Environmental Assessments

Landscape Character Assessments

Landscape and Visual Impact Assessments

Green Belt Reviews

Expert Witness

Ecological Impact Assessments

Habitat and Ecology Surveys

Biodiversity Net Gain



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