



Habitats Regulations Assessment of the South Lakeland Development Management Policies Development Plan Document – Publication Stage

Authors: Rachel Hoskin & Durwyn Liley

FOOTPRINT ECOLOGY, FOREST OFFICE, BERE ROAD, WAREHAM, DORSET BH20 7PA WWW.FOOTPRINT-ECOLOGY.CO.UK 01929 552444





Footprint Contract Reference: 403

Date: 14th August 2017

Version: Final at Publication stage

Recommended Citation: Hoskin, R. & Liley, D. (2017) Habitats Regulations Assessment of the South Lakeland Development Management Policies Document. Unpublished report for South Lakeland District Council.

Summary

This report is the Habitats Regulations Assessment (HRA) of the South Lakeland Development Management Policies Development Plan Document (DPD) at Publication stage. This stage follows on from the Preferred Options stage, and takes in to account changes proposed to the DPD since that stage. HRA, is the step by step process of ensuring that a plan or project being undertaken by, or permitted by a public body, will not adversely affect the ecological integrity of a European wildlife site.

To date, HRA has been an integral part of the development of all documents that form the South Lakeland Local Plan, and measures to protect European sites are relevant to the implementation of the plan as a whole, and their progress is therefore checked as part of this HRA report. The ongoing mitigation measures of relevance to the Development Management Policies DPD primarily relate to preventing or minimising impact pathways for recreation disturbance and water quality. General urban effects and air quality are also considered.

A screening for likely significant effects has been undertaken on the whole DPD at an earlier stage, and the additional amendments are now checked within this updated HRA report. A number of policy and supporting text changes are recommended. This HRA concludes that the DPD can be screened out from likely significant effects with the recommendations for policy wording made, which should be undertaken for the Publication version of the DPD. The adopted Development Management Policies DPD will need to be compliant with the Habitats Regulations in its final form, and further HRA work may therefore be required in light of modifications.

The Core Strategy and Land Allocations HRA mitigation measures must continue to be progressed as part of the Local Plan implementation as a whole. Recommendations are made for continued progression, and the Council should ensure consistency from the HRAs undertaken at the plan level through to project level HRAs for the determination of planning applications. Liaison with Natural England and United Utilities for this HRA report has provided an update on mitigation progression in relation to recreation, air quality and NO2 issues, and for water quality. The Council already has an established relationship with both Natural England and United Utilities. Regular liaison meetings take place with United Utilities in order to manage risk and ensure that the sewage and water treatment network meets demand.

Contents

Summary	3
Contents	4
Acknowledgements	5
1. Introduction	7
Context	
Habitats Regulations Assessment process	8
Approach to assessing the additional changes to the DPD	10
The South Lakeland District	11
European sites	14
2. Previous Habitats Regulations Assessment Work	
Core Strategy Habitats Regulations Assessment	19
Land Allocations Habitats Regulations Assessment	20
3. Establishing Potential Impacts	23
Overview	23
Impact pathways	23
Increased Recreation Pressure	27
Housing development	
Tourism	31
Water quality	
Water supply 32 Air quality	37
Congral urban offocts	22

4.	Current Status of Mitigation Measures and	
Rec	ommendations for Progression	. 35
5.	Screening for likely significant effects	. 36
6.	Key Considerations and Recommendations	. 56
7.	Summary and Next Steps	. 60
8.	References	. 61
App	endix 1 - The Habitats Regulations Assessment Process	62
App	endix 2 – European Site Conservation Objectives	66
App	endix 3 - Conservation Interest of European Sites	68

Acknowledgements

We are grateful for the continued assistance and support provided by Lorayne Woodend and Damian Law, South Lakeland District Council, during the preparation of this report.



1. Introduction

Context

- 1.1 This report is the Habitats Regulations Assessment (HRA) of the South Lakeland Development Management Policies Development Plan Document (DPD) at Publication stage. This stage follows on from the Preferred Options stage, and takes in to account changes proposed to the DPD since that stage. This assessment has been made on a draft version of the plan at Publication stage.
- 1.2 The DPD has been subject to public consultation at key stages throughout the process of preparation to enable the public, stakeholders and statutory consultees to provide comments on the policy proposals and updates. The DPD is being progressed by South Lakeland Council as part of their Local Plan. This HRA updates the draft HRA report at Preferred Options stage, making the necessary assessment of the new and updated policy options.
- 1.3 A HRA considers the implications of a plan or project for European wildlife sites, in terms of any possible harm to the habitats and species that form an interest feature of the European sites in closed proximity to the proposed plan or project, which could occur as a result of the plan or project being put in place. An explanation of the HRA assessment process is summarised below and also described in greater detail in Appendix 1.
- 1.4 Spatial planning and development management in South Lakeland is to be informed by four key documents that make up the Local Plan. These are an adopted Core Strategy (October 2010), an adopted Land Allocations document (December 2013), a Development Management Policies document (subject of this assessment and to be adopted in 2018), and an Arnside and Silverdale Area of Outstanding Natural Beauty Development Planning Document (DPD), also to be adopted in 2018. Additionally, a neighbourhood plan, and supplementary planning documents such as development briefs, add to the Local Plan portfolio.
- 1.5 At the current time, in the absence of a finalised Development Management Policies document, a number of policies remain 'saved' from the previous South Lakeland Local Plan. This plan includes policies that were originally prepared as far back as 1997, and it is therefore necessary for South Lakeland District Council to consider new policy requirements in light of current evidence and national planning legislation, policy and practice guidance.
- 1.6 It is Government policy that local planning documents are continually reviewed in order to remain up to date and informed by current evidence on local economic, social and environmental needs, as well as national legislation and

planning policy. In light of this, and recognising the need to revisit key policy topics, the Development Management Policies DPD is in timely preparation, following on from the Core Strategy and Land Allocations documents. The DPD was the subject of public consultation at Preferred Options stage in the winter of 2016/2017, and following on from that consultation, South Lakeland District Council recognised the need for a number of changes to the proposed policies, in terms of new policy additions as well as amendments to some of the previously proposed policies.

- 1.7 This HRA updates the previous HRA report at Preferred Options Stage, to assess the changes made since that stage. At Preferred Directions stage, Footprint Ecology made a number of recommendations as part of the HRA, which were subsequently taken on board by the Council and the DPD amended accordingly for the final Publication version of the DPD, which will be submitted to the Planning Inspectorate for Examination. Any post Examination modifications will also need to be checked before the HRA is complete and the DPD is adopted as part of the South Lakeland Local Plan.
- 1.8 Previous HRA work informed the preparation and adoption of the Core Strategy and Land Allocations document. When embarking on new HRA work, it is important to take stock and consider how well the measures put in place to protect European site interest have worked, and what evidence there is available to support the continuation of such measures, or to indicate that they may need modification. That review of previous assessment was made and documented as part of this report at Preferred Options stage. This HRA report is an updated report from the previous work undertaken at Preferred Options.

Habitats Regulations Assessment process

- 1.9 A 'Habitats Regulations Assessment,' normally abbreviated to HRA, is the step by step process of ensuring that a plan or project being undertaken by, or permitted by a public body, will not adversely affect the ecological integrity of a European wildlife site. Where it is deemed that adverse effects cannot be ruled out, a plan or project must not proceed, unless exception tests are met. This is because European legislation, which is transposed into domestic legislation and policy, affords European sites the highest levels of protection in the hierarchy of sites designated to protect important features of the natural environment.
- 1.10 The relevant European legislation is the Habitats Directive 1992¹ and the Wild Birds Directive 2009², which are transposed into domestic legislation through

¹ Council Directive 92/43/EEC

² Council Directive 2009/147/EC

the Conservation of Habitats and Species Regulations 2010, as amended. These Regulations are normally referred to as the 'Habitats Regulations.' Legislation sets out a clear step by step approach for decision makers considering any plan or project. In England, those duties are also supplemented by national planning policy through the National Planning Policy Framework (NPPF). This national planning policy also refers to Ramsar sites, which are listed in accordance with the international Ramsar Convention. The NPPF requires decision makers to apply the same protection and process to Ramsar sites as that set out in legislation for European sites. Formally proposed site, i.e. sites proposed for European designation and going through the designation process, and those providing formal compensation for losses to European sites, are also given the same protection. This report refers to all the above sites as 'European sites' for assessment purposes, as the legislation is applied to all such sites, either directly or as a result of policy.

- 1.11 It should be noted that the European Directives operate on the basis that sites are in place to serve as an ecologically functioning network, and ultimately it is the preservation of that network as a whole that is the overall aim of the European Directives. The network is often referred to as the Natura 2000 Network or 'N2K.'
- 1.12 The duties set out within the Habitats Regulations apply to any public body or individual holding public office with a statutory remit and function, referred to as 'competent authorities.' The requirements are applicable in situations where the competent authority is undertaking or implementing a plan or project, or authorising others to do so. A more detailed guide to the step by step process of HRA is provided in this report at Appendix 1.
- In assessing the implications of any plan or project, in this case a local plan, for European sites in close proximity, it is essential to fully understand the sites in question, their interest features, current condition, sensitivities and any other on-going matters that are influencing each of the sites. Every European site has a set of 'interest features,' which are the ecological features for which the site is designated or classified, and the features for which Member States should ensure the site is maintained or, where necessary restored. Each European site has a set of 'conservation objectives' that set out the objectives for the site interest, i.e. what the site should be achieving in terms of restoring or maintaining the special ecological interest of European importance.
- 1.14 The site conservation objectives are relevant to any HRA, because they identify what should be achieved for the site, and a HRA may therefore consider whether any plan or project may compromise the achievement of those objectives.

 Further information on European site conservation objectives can be found at Appendix 2 of this report.

Approach to assessing the additional changes to the DPD

- 1.15 To date, HRA has been an integral part of the development of all documents that form the South Lakeland Local Plan, including the earlier stages of plan preparation for the Development Management Policies DPD. HRA identifies potential risks to European sites posed by an emerging policy approach, and by being undertaken from an early stage in plan making, it seeks to find solutions that enable sustainable development to meet the needs of an area whilst protecting European sites. The HRA process should be mindful of the objectives of the emerging DPD, and the previous iteration of this HRA recommended measures to allow those objectives to be met whilst avoiding or minimising risk. However, in considering the HRA requirements, South Lakeland District Council must adequately apply the protective legislation for European sites, and where solutions are not available or evidence to support a solution is not robust, it is then necessary to consider a different policy approach.
- As described in Appendix 2, the step by step process of HRA of an emerging plan 1.16 allows for continual refinement of the plan to ensure its compliance with the Habitats Regulations. The assessment therefore remains in draft and is updated as the plan is re-assessed, as is the case for this report, being updated from the previous Preferred Options assessment. As both the plan maker and the competent authority responsible for assessing the plan, South Lakeland District Council should continue to have regard for the assessment findings at each update, and embed the necessary recommendations for European sites as an integral part of continued policy formulation and refinement before being submitted for Examination. This iterative process should enable a robust plan to be adopted, with adequate protection for European sites alongside workable solutions for delivering sustainable growth and meeting the needs of local communities. When the Council is acting as competent authority for development projects, there is far less flexibility because the project proposer (in the case of planning applications this is the planning applicant) is presenting a project for consideration in its final form. Such proposals should be informed by the documents that make up the Local Plan, and the Local Plan should therefore seek to provide relevant and helpful guidance for the submission of projects that adequately protect European sites as part of the proposal.
- 1.17 At plan level HRA, a screening for likely significant effects in the preparation of a plan may therefore be run a number of times as the plan develops, to continually recheck conformity with the Habitats Regulations requirements and the incorporation of recommendations made at earlier HRA iterations. The HRA should use the screening stage of assessment to identify where further detailed assessment and additional evidence gathering is required, and in such circumstances the plan may proceed to the appropriate assessment stage.

The DPD sets out proposed policies to inform the determination of planning applications, to ensure that the right type of new growth and regeneration and enhancement of existing assets is provided in accordance with the overall objectives of the local plan as a whole. An appropriate assessment has not been undertaken as part of this HRA for the Development Management Policies DPD to date, as liaison between Footprint Ecology and South Lakeland District Council, has enabled appropriate protective measures to be embedded within the emerging DPD to give confidence that the plan will not result in likely significant effects. This position will continue to be reviewed as the plan is finalised, and with regard for the ongoing progression of mitigation measures established as part of the Core Strategy.

The South Lakeland District

- 1.19 The South Lakeland District includes parts of the Lake District National Park and the Yorkshire Dales National Park; recent extensions to these National Parks took effect on 1st August 2016. South Lakeland District Council has planning authority responsibility over areas of the South Lakeland District that lie outside the national parks. In addition to the presence of the two national parks, spatial planning for South Lakeland is also undertaken in the context of an Area of Outstanding Natural Beauty, three planning areas that are physically divided, major transport routes running north south through the District and an area that is one of the most important for wildlife and nature conservation in the UK, including Morecambe Bay.
- 1.20 The Core Strategy and Land Allocations document provide for 8,800 houses over the plan period, and direct over half of the new housing development to the main 'principal service centres' of Kendal and Ulverston. Housing allocations are also in place for Grange-over Sands, Milnthorpe and Kirkby Lonsdale, and 17 Local Service Centres. Kendal is set to deliver 3,080 houses and Ulverston 1,760 houses over the plan period.
- 1.21 Kendal is the main urban centre within the District, and is a popular town for visitors to the national parks, amplifying a need to carefully manage traffic through the town. The District has a large proportion of residents that are older than working age, and it is anticipated that the proportion of the population in this age group will continue to grow over the Local Plan period. The District and its surrounding areas are of considerable biodiversity and landscape value, making it a popular destination for tourists. The Local Plan must therefore seek to strike the most appropriate direction for sustainable development, in the context of a wide-ranging set of complex issues.

- 1.22 The South Lakeland Local Plan already includes the adopted Core Strategy and Land Allocations, providing an overview of key objectives and drivers for sustainable growth, and the main sites for growth delivery. The Development Management Policies within the emerging DPD will provide a set of policies that inform the determination of planning applications, to ensure that the right type of new growth and regeneration and enhancement of existing assets is provided in accordance with the overall objectives of the local plan as a whole, being implemented alongside the Core Strategy and in accordance with the NPPF. Whilst the preparation of the Development Plan Policies DPD does not itself require any review of the Core Strategy, the adoption of the Development Plan Policies DPD will ensure up to date development management policies are in place as the Council then embarks on a new Local Plan in the near future.
- 1.23 The adopted Core Strategy provides policies that protect the natural environment, and these policies must be implemented alongside the Development Management Policies DPD, once also adopted. Whilst the Development Management Policies DPD must be compliant with the Habitats Regulations, this assessment has regard for the fact that both national policy and Core Strategy Policy CS8.4 is in place and applicable to development proposals coming forward, which should be compliant with all current planning policy documents. Core Strategy Policy CS8.4 provides protection for designated sites and wider biodiversity and ecological networks, and encourages biodiversity enhancement. This policy refers to national, regional, local and non-protected sites of biodiversity importance, therefore covering SSSIs that normally underpin European site designations, but without a specific reference to European sites.
- 1.24 The South Lakeland Local Plan area is illustrated on Map 1 below.

Map 1: South Lakeland and areas within the National Parks South Lakeland boundary Arnside & Silverdale AONB Area covered by the DM DPD (i.e. outside National Parks) National Park Contains Ordnance Survey Data. @ Crown copyright and database right 2016.

European sites

- 1.25 In undertaking a HRA it is necessary to gather information on the European sites that could be potentially affected by the plan or project. This section and the accompanying detailed site information within Appendix 3, identifies those sites that could potentially be affected by the policies and proposals within the Development Management Policies DPD. Appendix 3 sets out the site interest features, sensitivities and any current conservation issues, drawing on available information and the expertise and local knowledge of the assessment team preparing this report.
- 1.26 In assessing the implications of any plan or project for European sites, it is essential to fully understand the ecology and sensitivity of the sites, in order to identify how they may be affected. Central to HRA is the consideration of how a plan or project may affect the achievement of conservation objectives. This section of the report and Appendix 2 together provides the necessary information that informs the assessment of Development Management Policies DPD.
- 1.27 Every European site has a set of 'interest features',' which are the ecological features for which the site is designated or classified, and the features for which Member States should ensure the site is maintained or, where necessary, restored. Each European site also has a set of 'conservation objectives' for the site interest, i.e. what the site should be achieving in terms of restoring or maintaining the special ecological interest of European importance.
- The site conservation objectives are relevant to any HRA, because they identify what should be achieved for the site, and a HRA may therefore consider whether any plan or project may compromise the achievement of those objectives. In addition to conservation objectives, Natural England produces Site Improvement Plans (SIPS) for each European site in England as part of a wider programme of work under the 'Improvement Programme for England's Natura 2000 sites.' Each plan includes a set of actions for alleviating issues that are impeding the delivery of conservation objectives, with lead delivery bodies identified and indicative timescales. The SIPs can provide an additional useful reference for HRA work, identifying where there are site sensitivities.
- 1.29 The plan area and nearby European sites are shown in Map 2 and Map 3 (the latter showing land allocations, set out in the Land Allocations document as part of the South Lakeland Local Plan). As there are a considerable number of European sites, these are not labelled individually on the Maps, rather the maps show the extent of designations, and then the sites are listed in Table 1. This table lists all sites where at least part of the site is within 10km of the plan area.

The choice of 10km is a pragmatic one. The Development Management Policies DPD contains no quantum of development and the policies will simply guide future development in terms of style, types of development etc. As such it is unlikely that European sites that are over 10km from the plan area and have no physical link (such as a hydrological connection to the plan area) will be relevant to the assessment.

1.30 It should be noted that on the 7th February 2017, the previously separate Morecambe Bay SPA and Duddon Estuary SPA were combined to form a new SPA, Morecambe Bay and Duddon Estuary SPA. The new SPA also includes extended areas to incorporate part of the West Cumbria coast and the Ravenglass Estuary, which support colonies of internationally important tern populations³. Throughout this HRA, the proposals to combine and extend the sites were known and formed part of a public consultation. The extensions out to sea relate to tern foraging habitat, which is not specifically affected by the policies relating to Development Management, other than the need to have regard for the new site boundary within project level HRAs. South Lakeland District Council have confirmed that they have been provided with the new site information.

³ See https://www.gov.uk/government/consultations/morecambe-bay-and-duddon-estuary-special-protection-area-changes-comment-on-proposals

Table 1: European sites where at least part of the site boundary falls within a 10km radius of the plan area. Sites listed in italics are those that are within 10km but are outside the plan area.

SPA	SAC	Ramsar
Leighton Moss	Asby Complex	Duddon Estuary
Morecambe Bay & Duddon Estuary (SPA)	Duddon Mosses	Leighton Moss
North Pennine Moors	Ingleborough Complex	Morecambe Bay
	Lake District High Fells	
	Morecambe Bay	
	Morecambe Bay Pavements	
	Naddle Forest	
	North Pennine Dales Meadows	
	North Pennine Moors	
	River Eden	
	River Kent	
	Roudsea Wood & Mosses	
	Shell Flat and Lune Deep	
	Subberthwaite, Blawith &	
	Torver Low Commons	
	Witherslack Mosses	
	Yewbarrow Woods	



Plan area South Lakeland boundary Contains Ordnance Survey Data. © Crown copyright and database right 2015.

Map 2: European sites in and around the plan area

Allocated sites Mixed Sites Plan area Other Sites South Lakeland boundary Contains Ordnance Survey Data. ID Crown copyright and database right 2015.

Map 3: European sites and allocated sites

Previous Habitats Regulations Assessment Work

- 2.1 This HRA report provides an update to the previous HRA work to date, which assesses the Development Management Policies DPD. This section of the report sets out the progression of HRA work for the South Lakeland Local Plan, including HRA work for other documents that form part of the Local Plan, as well as the progression to date on HRA work for the Development Management Policies DPD.
- 2.2 HRAs are in place for the Core Strategy and Land Allocations documents. The assessments made, findings and recommendations, and the measures put in place to protect European sites as a result of those assessments are considered here, as it is necessary to understand the historical HRA work in order to check the progression of mitigation through the development of the Local Plan to the current document being assessed.

Core Strategy Habitats Regulations Assessment

2.3 HRA work for the Core Strategy (Treweek Environmental Consultants Ltd. 2009) identified the delivery of the Core Strategy posed a potential risk to Morecambe Bay SAC/SPA/Ramsar, Morecambe Bay Pavements SAC and River Kent SAC. The Assessment identified a number of issues for which adverse effects on European sites could not be ruled out. The assessment recommended the addition of a number of measures to the plan in order to have confidence those adverse effects could be ruled out, as summarised below in Table 2. Notably the HRA also included a recommendation that "efforts are made to monitor the plan effects and collect further information to better inform future revisions of the Core Strategy."

Table 2: Summary of potential impacts identified in the Core Strategy HRA

Potential risks	Measures added to the plan
Increased use of Morecambe Bay by residents and visitors leading to SAC habitat damage	References in the plan to the Morecambe Bay Strategy, working in partnership with Natural England. Use of zoning and bylaws is specifically referred to (CS8.5)

Potential risks	Measures added to the plan
Renewable energy infrastructure development in Morecambe Bay leading to habitat deterioration for Morecambe Bay SAC/SPA/Ramsar	Additional text added at CS7.7 to secure N2K protection
Residents and visitors to Morecambe Bay Pavements, and increased dog fouling could lead to habitat changes for SAC interest	Text relating to the need to secure adequate open space and improve existing open space
Abstraction from the River Kent SAC affecting riverine interest features and movement of crayfish plague from the Lancaster Canal to the Kent from works to the canal	Text advising that canal restoration is not a project supported by the Local Plan (CS2)
Reduction in water quality arising from sewer network being over capacity with more homes in Kendal and Burnside.	Text added to require WWTW and sewage infrastructure to have adequate capacity before further development is accommodated.
Increased disturbance to bird interest features at Morecambe Bay SPA and Ramsar from additional tourists and residents	Reference to the Morecambe Bay Strategy added and stricter bylaws and zoning (CS8.5)

Land Allocations Habitats Regulations Assessment

- 2.4 The HRA work for the Land Allocations document, (Treweek Environmental Consultants 2012), assessed the full set of land allocations being proposed (including an additional list of proposed allocations brought forward after the main list). The assessment proceeded to appropriate assessment, having identified a number of risks to European sites, with the main issues relating to impacts on water quality for both Morecambe Bay SAC/SPA/Ramsar and the River Kent SAC.
- 2.5 The Land Allocations HRA highlights that the River Kent is in unfavourable condition because of a number of issues that are either directly or indirectly related to past development, including channel modification and degradation of

the riparian zone, which can lead to bankside erosion and loss of marginal vegetation.

- 2.6 Additionally, as also identified in the Land Allocations document HRA, the tributaries of the Natland Beck, support good populations of White-clawed crayfish and development across or near the Natland Beck and its tributaries therefore poses risks to the River Kent SAC. Natland Beck is within the SAC but a number of tributaries are outside.
- 2.7 The assessment advised that a buffer zone against the SAC and the Natland Beck tributaries should be left undeveloped and managed appropriately.
- 2.8 Natural England advised South Lakeland District Council that a permanent fence to create a 10m wide no-working buffer zone adjacent to the SAC (with appropriate landscaping), and any development should be located at least 15m from it. Natural England has also highlighted the need for a number of specific river restoration projects to restore some sections of the SAC, which should be taken forward in partnership with relevant stakeholders.
- 2.9 Water quality issues relating to Morecambe Bay SAC/SPA/Ramsar more generally focussed on water management within new development in close proximity to the Bay.
- 2.10 The assessment recommended the addition of a number of measures and restrictions to the Land allocations document in order to have confidence those adverse effects could be ruled out, as summarised below in Table 3.

Table 3: Summary of potential impacts identified in the Land Allocations HRA

Potential risks	Measures added to the plan
Risk of water quality deterioration in the River Kent SAC	The plan required caveats for no further development at sites in Burneside, Steeles Row, and Kentrigg until sewage network improvements are in place. However, the plan allows for case specific consideration of proposals, depending on site specific design solutions, which may be developed in conjunction with United Utilities. Development in Kendal is currently capped at 2000 properties unless a more stringent phosphorus effluent standard can be achieved (United Utilities now advise that this work is now currently underway.

Potential risks	Measures added to the plan
	The development of 2000 properties at Kendal is dependent upon specific conditions adhered to: Development phasing, foul flows only into the sewer network, separate systems of drainage for effluent and surface water, surface Water Management plans and sustainable drainage systems for development and buffer zones adjacent to the River Kent.
Water quality deterioration issues in relation to development affecting Morecambe Bay SAC/SPA/Ramsar	Development sites around Morecambe Bay SAC/SPA/Ramsar to include a requirement for SUDS, as advised in the Core Strategy.
Additional allocation specific issues for a number of allocations	Allocations were either removed or allocation specific requirements were stipulated within the HRA to protect European sites

The progress made with these mitigation measures is discussed in relation to assessing potential impacts in Section 3 and progress with mitigation measures to date in Section 4.



3. Establishing Potential Impacts

Overview

- 3.1 At the screening stage of HRA for a plan, there is the opportunity to identify changes to the plan that could be made to avoid risks to European sites. The screening for likely significant effects is an initial check to identify risks and recommend any obvious changes that can avoid those risks.
- 3.2 All aspects of the emerging plan that influence sustainable development for the District are checked for risks to European sites. Risks need to be identified in order to inform the screening for likely significant effects. This section therefore considers the potential risks arising from the plan, with each summarised in Table 4 and then considered in turn under thematic headings following on from the table.
- 3.3 The impact pathways were established early in the HRA process. This information was then used to inform a policy by policy check to screen each policy against the potential impact pathways.

Impact pathways

- 3.4 European sites are at risk if there are possible means by which any aspect of a plan can, when being taken forward for implementation, pose a potential threat to the wildlife interest of the sites. This is often referred to as the 'impact pathway' as it is an identifiable means by which the plan or project could potentially affect the European site. Possible impact pathways for sites (within our 10km radius) in relation to potential impacts arising from implementation of the local plan are set out in Table 4.
- The table identifies which sites are relevant for the screening and which risks need to be considered. Impacts from recreation relate to disturbance, trampling, increased fire risk and enrichment such as through dog fouling. These impacts are reviewed and summarised in a range of sources (e.g. Saunders *et al.* 2000; Lowen *et al.* 2008; Liley *et al.* 2010). Sites that will be vulnerable are those with public access; those likely to draw recreation users and are in relatively close proximity to new development. Some interest features (such as wintering waterfowl and ground-nesting birds) are particularly vulnerable.
- 3.6 Water issues relate to water quality and water quantity (i.e. water availability). Run-off, outflow from sewage treatments and overflow from septic tanks can result in increased nutrient loads and contamination of water courses.

Abstraction and land management can influence water flow and quantity, resulting in reduced water availability at certain periods or changes in the flow. Such impacts particularly relate to aquatic and wetland habitats.

- 3.7 Emissions from agriculture and industry can lead to impacts on air quality. Traffic increases and changes in road use that increase congestion can also lead to air quality deterioration that can affect sensitive interest features within European sites. Sites that are vulnerable are those that are close to, or directly downwind of the source and contain vegetation communities associated with low nutrient levels. Research has shown that effects on heathland vegetation from local traffic can extend up to 200m from the road edge (Angold 1997).
- 3.8 Finally, there are 'general urban effects' which we have set out in Table 4 to encompass a range of effects relating to development in proximity to designated sites, such as fragmentation/isolation, loss of supporting habitat and increased fire risk.



Table 4: Potential impact pathways – i.e. potential mechanisms where by the different European sites could be impacted. This table was initially developed at an early stage in the HRA to provide an overview of the sites and possible issues, enabling some sites to be excluded from further consideration within the report. Information are drawn primarily from the relevant site improvement plans.

	Recreation	Water Quality	Water Quantity	Air Quality	General urban effects	Notes
SPA						
Leighton Moss	✓	✓	✓			
Morecambe Bay & Duddon Estuary SPA	✓	✓	✓		✓	
North Pennine Moors	?					Distant from the plan area and unlikely to draw many residents/tourists from S. Lakeland
SAC						
Asby Complex		✓	✓			
Duddon Mosses		✓	✓			
Ingleborough Complex						Distant from the plan area and unlikely to draw many residents/tourists from S. Lakeland
Lake District High Fells						Tourism within the National Park will be for National Park plans to consider. No hydrological links.
Morecambe Bay	✓	✓				
Morecambe Bay Pavements	✓	✓		✓		
Naddle Forest						To north of plan area, near Haweswater. Not likely to draw recreation.
North Pennine Dales Meadows						Well outside plan area and not likely to draw recreation; limited access

	Recreation	Water Quality	Water Quantity	Air Quality	General urban effects	Notes
North Pennine Moors						Distant from the plan area and unlikely to draw many residents/tourists from S. Lakeland
River Eden						Catchment outside plan area – drains northwards
River Kent		✓	✓		✓	
Roudsea Wood & Mosses		✓	✓	✓		
Shell Flat and Lune Deep						Designated for sandbanks covered by seawater and reefs. Well offshore.
Subberthwaite, Blawith & Torver Low Commons	✓			✓		
Witherslack Mosses		✓	✓			
Yewbarrow Woods						Well outside plan area and unlikely to have a draw in terms of recreation. No hydrological links.
Ramsar						
Duddon Estuary	✓	✓	✓			
Leighton Moss	✓	✓	✓			
Morecambe Bay	✓	✓	✓			



Increased Recreation Pressure

Housing development

- Pressure on sites from recreation linked to nearby development is of relevance 3.9 to Morecambe Bay SAC/SPA/Ramsar and Morecambe Bay Pavements SAC. Recreational pressure arising from new housing needs to be factored in to the policy development under the housing topic. Whilst the policies within the Development Management Policies DPD do not directly promote a quantum of growth, there are particular measures committed to within the Core Strategy in relation to growth that link to the Development Management Policies, which will be in place to steer the delivery of that growth through qualitative requirements. The Core Strategy provides protection for the natural environment with policy CS8.4, and the Development Management Policies need to contribute to securing any relevant mitigation measures in setting qualitative policy. For example, the policy wording should give specific direction in relation to greenspace provision and access management, and in order to do this it is advised that the overarching commitments in the Core Strategy now need further thought in terms of how greenspace provision and access management can be achieved. The Core Strategy HRA referred to working with Natural England to progress protection of European sites. Natural England will continue to provide consultation comments on the Development Management Policies DPD, and it would be beneficial to liaise with Natural England to check their expectations in relation to the progression of mitigation measures for housing growth.
- 3.10 Morecambe Bay SAC/SPA/Ramsar is vulnerable to recreational pressure, both from residents and tourists. Natural England's Site Improvement Plan⁴ for Morecambe Bay reflects this vulnerability, highlighting recreational pressure as an issue for the site. Coastal sites have a particular draw for recreation. With growing housing and local populations, gradual increases in recreation levels can result in issues such as disturbance to birds, trampling of dune and saltmarsh habitats and nutrient enrichment through dog fouling. Detailed work in Morecambe Bay (Liley *et al.* 2015), focussed on bird disturbance, involved fieldwork and visitor interviews. The study highlighted a range of complex issues. A wide range of types of access were identified; dog walking being a particular issue but other access included walking, wildlife watching, canoeing, water sports (jet skis, kitesurfing, windsurfing etc.), horse riding, fishing,

⁴ See http://publications.naturalengland.org.uk/publication/6708495835463680

wildfowling and air-borne activities. All these types of activities have the potential to cause disturbance to breeding birds and wintering waterfowl.

- 3.11 Breeding birds and high tide roosts occur in the same areas where access is focussed the narrow strip where land and tide meet are key areas for wildlife and also tend to be the areas people want to visit. Whilst isolated, single disturbance events are unlikely to be a major problem; chronic disturbance will lead to impacts. Many of the shoreline areas at Morecambe Bay are not existing nature reserves and the bird disturbance work identified that it is not clear to visitors that these are important sites for nature conservation. In general, there is a lack of information for visitors, relatively little engagement and very little access infrastructure (such as marked paths, formalised parking, gates, interpretation etc.). Access is therefore difficult to control or manage, and options to influence how people behave are limited. Given the range and scale of the issues there is a need for coordination across sites and initiatives at a Baywide scale.
- 3.12 Following on from this work, the Morecambe Bay Partnership, with a range of partners and stakeholders, has been looking at ways to establish such an approach. A number of initiatives for improving interpretation are being progressed through a Waders and Wildfowl Implementation Plan⁵ that has recently been finalised at the beginning of 2017 and sets out measures under a number of themes to take forward ambitious changes to the quality and availability of interpretation around Morecambe Bay. The projects primarily focus on making the birds of Morecambe Bay the central focus, with activities that educate and encourage residents and tourists to contribute to their protection. Future development will need to have regard for this strategy and ensure that it is in conformity with its objectives.
- The study by Liley et al included visitor interviews and collected data on home postcodes. These showed that local residents, travelling from home for a short visit, typically came from within 4km of the access point (median distance between home postcode and interview location was 3.45km).
- Development at Ulverston in particular will be in close proximity to Morecambe
 Bay and as such is likely to have implications in terms of increased recreation.
 While the Development Management DPD sets no quantum of growth and does not identify named sites for development, general policies relating to green

⁵

 $[\]frac{file:///C:/Users/rachel/AppData/Local/Microsoft/Windows/INetCache/IE/HB0TTLGJ/Waders%20and%20Wildfowl%20Interpretation%20Plan%202017.pdf$

infrastructure and improved management of recreation on the coast will be important to ensuring impacts to Morecambe Bay are recognised and resolved.

- 3.15 The issue of recreational pressure on Morecambe Bay Pavements SAC was highlighted in the Land Allocations document HRA. Access to the site is possible close to Kendal and as such the site can be used for daily recreational needs that should ideally be served by adequate greenspace provision in the District. It continues to be recognised that Morecambe Bay Pavements SAC is sensitive to trampling and dog fouling, arising from its recreational use by both residents and tourists for example the site improvement plan⁶ for the site highlights dog fouling and South Lakeland Council is included in the plan as a delivery partner. It is important to ensure that measures to rectify recreation issues within the Core Strategy and Land Allocations document are being put in place and are adequate, and the Development Management Polices DPD needs to provide consistent policy wording to enable this to be delivered.
- 3.16 The alignment of the England Coast Path National Trail from Allonby to Whitehaven has been agreed by the Secretary of State and progress is now being made on the second stretch from Whitehaven to Silecroft. Any further development of mitigation for new housing needs to be designed with regard for the measures in place or being developed for the England Coast Path stretches.
- 3.17 For the Lake District High Fells SAC possible impacts relate to vegetation wear, trampling and habitat wear from increased footfall. Residents in the local area may be keen walkers and perhaps choose areas away from the main tourist areas. The site improvement plan⁷ identifies public access as an issue for the site and as an action sets out the need to map areas where trampling damage is an issue and resolve issues through the 'Fix the Fells' initiative. The National Trust are identified as the lead partners with the National Park Authority as a delivery partner. It may well be that such an approach resolves any issues and it is not clear what level of impact local residents in South Lakeland may have in comparison to residents from other areas and tourists. As such South Lakeland Council are advised to liaise with neighbouring authorities and Natural England regarding the scale of the issue and the need for mitigation.

Tourism

3.18 Whilst the development of policy in relation to retail and town centre use is predominantly not going to bring risks to European sites, the consideration of

⁶ http://publications.naturalengland.org.uk/publication/6401957140889600

⁷ http://publications.naturalengland.org.uk/publication/6534434434056192

tourism is of relevance. The latest available Local Plan Annual Monitoring Report (2014-2015) advises that "it remains difficult to assess trends in tourism in the Local Plan area as data is not available for the areas outside the National Parks alone. Making the most of the benefits tourism has for the local economy whilst ensuring that the impact of tourism on the environment is minimised is a key challenge for the Local Plan."

- 3.19 Tourism brings additional recreational pressure, and adds to air quality issues with additional traffic emissions. Tourists will include day visitors from the wider area such as Greater Manchester, and will include those who own holiday homes and static caravan who will come to the district on a regular basis to make the most of their holiday accommodation, often for regular weekend retreats. These tourists will become familiar with the area over time and may make regular use of particular locations for walking and dog walking.
- 3.20 Cumbria Country Council works in partnership with the two National Park Authorities to implement a Cumbria wide Access Strategy, with the current strategy in place to cover the period 2014 to 2019. One of the four strategic aims of this strategy is to "ensure access and recreation contributes to a thriving economy whilst protecting and, where possible enhancing, the sustainability of the County's natural and cultural resources."
- 3.21 South Lakeland District Council should continue to work closely with Natural England, the County Council and national park authorities to ensure that protection of European sites remains part of access management. The collection of data is critical to future plan and strategy making, and noting that the visitor survey work last undertaken related to 2001, the Council should seek to ensure that there is continued provision for both visitor surveys and ecological condition assessments, in partnership with the authorities and Natural England. The Access Strategy refers to a Strategic Action Plan for access management, and this plan should include specific actions to gather monitoring data.
- Some limited data on tourist use of Morecambe Bay was collected through the visitor interviews in Liley *et al.* (2015). Surveys were undertaken at 5 locations and during the winter months. Tourists accounted for 9% of interviewees, highlighting that sites like Morecambe Bay do have a tourist draw during the winter. Particular issues at Morecambe Bay with tourism relate to caravan and mobile home sites and occupancy during the winter. There is a need for better understanding of how such sites are used, visitor behaviour and implications for nearby European sites.
- 3.23 The Waders and Wildfowl Implementation Plan being implemented by the Morecambe Bay Partnership referred to above has a number of measures

particularly focused on tourism, including information packs for families using caravan sites. As with housing development, any tourism development proposals will need to demonstrate join up with this Implementation Plan.

Water issues

Water quality

- It is recognised in previous HRAs for the Core Strategy and Land Allocations, and also within previous assessment of the emerging Development Management Policies document, that there are important issues to resolve in relation to water quality; for both Morecambe Bay SAC/SPA/Ramsar and for the River Kent SAC. Policy areas being proposed within the DPD include key mitigation measures being taken forward (e.g. Sustainable Drainage Systems), and following on from earlier HRA recommendations for the DPD, there is now specific wording relating to the European sites within the supporting text for this policy.
- 3.25 Water quality issues are particularly pertinent for Kendal WWTW and associated infrastructure at Steele Row, Burneside and Kentrigg Walk, North Kendal. Currently the Core Strategy places a limit of 2000 houses within the plan period for Kendal, and makes clear that development at Burneside and North Kendal (reference to allocated sites at West of High Sparrowmire, North of Laurel Gardens and North of High Sparrowmire) cannot proceed in the absence of upgrades or demonstration of an application specific design solution. The Council has regular contact with United Utilities to understand the current progression of upgrade possibilities for the network, and is closely monitoring any planning proposals in these locations until matters are resolved.
- Where new growth poses potential risks to European sites in the absence of certainty that the development will not contribute to or exacerbate pollution risk, the Council is not able to promote such development sites within planning documents without clear wording that requires prior to completion of works before sites can come forward for planning permission. The Council cannot give planning permission unless the necessary infrastructure is in place, or an application specific solution is able to demonstrate that the drainage requirements are such that they do not pose additional risk. Having regard for the fact that utility companies are legally bound to provide water supply and waste water disposal for any development with planning permission, the Council cannot promote allocations with pollution risk in their planning documents, or give planning permission. Further information on the current situation and network upgrades is provided in Section 4 in relation to a discussion on the current progression of mitigation.

Flood Risk

- 3.27 Cumbria County Council has produced a Local Flood Risk Management Strategy, in accordance with their duties under the Flood and Water Management Act 2010, defining the County Council as a 'Lead Local Flood Authority.' Whilst the HRA was not able to assess implications for flood risk management in detail due to the strategic nature of the strategy, it gives a clear steer to flood risk management projects coming forward that they must be the subject of HRA and that early project design and options for locations must have regard for potential impacts on European sites and the range of mitigation measures available to protect them. It may therefore be relevant to give further weight to this within the Development Management Policies document under this topic heading.
- 3.28 Cumbria County Council is preparing-a design guide specifying the early considerations for drainage in development design. It will be important for this to be disseminated to planning officers with reference to its relevance for Morecambe Bay and River Kent European sites.

Water supply

3.29 Water availability concerns relate to over-abstraction and impacts of reduced flows. Checks at the Core Strategy ensured capacity and headroom for the level of development and locations proposed and, recent discussions between South Lakeland District Council and United Utilities confirms that the conclusions in the United Utilities 2014 Water Resources Management Plan are still applicable, with sufficient capacity to serve new development for the next 15 years.

Air quality

The Council is responsible for meeting the requirements of national legislation and policy in relation to air quality, and this includes establishing air quality management areas (AQMA) where air quality fails to meet national objectives and action therefore needs to be committed to and undertaken. The South Lakeland District has one AQMA at Kendal, established in 2001 in response to levels of NO₂ on Lowther Street being above Government targets. The AQMA was expanded in 2010 to cover other roads in the town centre, and it captures the main traffic routes through the town, with an action plan in place to reduce air pollution through measures primarily focusing on reducing traffic congestion within the defined zone. They include actions to encourage behavioural change, improved signage, reduced bus emissions and reduced parking prices for cleaner vehicles. Annual progress reports are sent to Defra, and the most recent Annual Status Report 2017 states that NO₂ levels are showing a downward

trend, but that although levels have fallen on Lowther Street, it is yet to meet target levels. A further list of measures to be implemented in 2017 is provided within the report, including installation of a green wall at Kendal Road station, reductions in HGVs entering the AQMA and the installation of a cycle hub at Westmorland Shopping Centre. It is anticipated that the NO₂ target will be achieved by the next report in 2018.

Some parts of the Morecambe Bay Pavements SAC are in close proximity to 3.31 Kendal, and other parts are close to the motorway. Natural England's SIP for the site⁸ highlights the SAC's sensitivity to air quality and need for reduction in emissions in close proximity. A specific action relates to the preparation of a Site Nitrogen Action Plan for Morecambe Bay Pavements SAC before 2020. Whilst Natural England have not provided any specific advice relating to the Morecambe Bay Pavements and air quality issues⁹, the Council will need to ensure further deterioration is avoided and air quality monitoring data and monitoring of traffic flows will be important in providing early warning of deterioration. It is recommended that the council liaise with Natural England over the timetable and content for the Action Plan, to determine its scope and what opportunities there may be for spatial planning and development management to contribute. When the Site Nitrogen Action Plan is available for the site (see Natural England 2015 for details) this should provide guidance on headroom for future development and any necessary mitigation. It is therefore important for the Council to begin early discussions with Natural England to inform the development of the plan and maximise Local Plan led opportunities.

General urban effects

- 3.32 General urban effects relate to the impacts of development in close proximity to European sites. Reviews (Underhill-Day 2005; Corney *et al.* 2008; McKinney 2008; Mcdonald *et al.* 2009) highlight a range of ways development can have impacts, including from increased cat predation, increased fire risk, contamination etc.
- 3.33 These issues are relevant to Morecambe Bay SPA/SAC/Ramsar, the Morecambe Bay Pavements SAC and the River Kent SAC. In general risks are probably very low, due to proximity, and the nature and size of the site. For Morecambe Bay SPA cat predation may be relevant but most roost sites and feeding areas have waterbodies/creeks etc that are likely to provide protection. Similarly, at both the Morecambe Bay SPA/SAC/Ramsar and Morecambe Bay Pavements SAC fire

⁸ See http://publications.naturalengland.org.uk/publication/6401957140889600

⁹ Email correspondence in June and July 2016

risk is unlikely to be a major concern as fires are unlikely to spread due to the habitats present.

- There are also particular issues with respect to introduced plant species, which fall under this general heading. Species such as Himalayan balsam *Impatiens glandulifera* and Japanese Knotweed *Fallopia japonica* are an issue for some sites, such as the River Kent (See the site's IPENS report¹⁰). Invasive species are also a concern for some parts of the Morecambe Bay SPA/SAC/Ramsar¹¹ Landscaping and earth movement can create bare ground conditions and spread root stock allowing such species to colonise and spread and particular care should be taken with such works within the River Kent catchment or other European sites. This is a project level HRA consideration, but one which planning officers will need to be aware of in order to request the necessary information from applicants.
- 3.35 Progression from the Core Strategy and Land Allocations documents to the Development Management DPD has taken place over a number of years and the HRA work has progressed alongside the development of these documents that form part of the South Lakeland Local Plan. Current progress in relation to mitigation measures should be checked with each new document to maintain an overview of the appropriateness and effectiveness of plan level measures to protect European sites over the lifetime of the Local Plan as a whole. This is discussed in the following section.

¹⁰ http://publications.naturalengland.org.uk/publication/6050544158244864

¹¹ http://publications.naturalengland.org.uk/publication/6708495835463680

4. Current Status of Mitigation Measures and Recommendations for Progression

- 4.1 The mitigation measures for the Core Strategy and Land Allocations documents provide the necessary measures to enable development to proceed within South Lakeland in accordance with the adopted Local Plan. The Development Management Policies DPD adds to the Local Plan by setting out the detailed policies that inform the determination of planning applications, following from overarching strategic policies and land allocations for development. The current status and progression in implementation of the measures is therefore relevant to the HRA being undertaken for the Development Management Policies DPD.
- 4.2 The Core Strategy HRA relied heavily on protective text to secure European site protection, and that should now be backed up by evidence to demonstrate that the protective measures have been successful. For the Land Allocations Document, the HRA made very clear recommendations for specific measures and restrictions to be in place, and those recommendations complimented and gave more detail to the caveats placed in the Core Strategy.
- The Development Management Policies DPD is predominantly qualitative in terms of policy, as it ensures sustainable and high-quality development comes forward in line with the quantities and locations previously outlined in the Core Strategy and Land Allocations document. However, it is recommended that as each HRA is undertaken for each part of the Local Plan, there remains an overview of mitigation measures and how the plan, as a whole, works together to adequately protect European sites. The implementation of the more qualitative Development Management policies should be in the context of strong European site protection in place for the quantities of and locations for development that those policies are steering in terms of quality and sustainability.
- The ongoing mitigation measures of relevance to the Development Management Policies DPD primarily relate to preventing or minimising impact pathways for recreation disturbance and water quality. Discussions are currently taking place with Footprint Ecology and the Council liaison with both Unites Utilities and Natural England to gain an accurate picture of the current status of these measures, recognising that they require continual progression and review in order to adequately fulfil their purpose of preventing adverse effects throughout the lifetime of the South Lakeland Local Plan. This section will therefore be updated for the next iteration of the HRA report, in light of those discussions.

5. Screening for likely significant effects

- Once relevant background information and potential impact pathways are understood, and relevant HRA and mitigation progress has been considered, the HRA process can progress to the screening for likely significant effects stage, fully informed by the background research undertaken. Table below records the conclusions drawn and recommendations made on a policy by policy check. The screening also included a check for implications of loss of the old policies from the previous local plan that have not been progressed beyond Issues and Options and also saved local plan policies that are proposed for replacement by the DPD.
- During the screening stage of HRA, text changes are recommended in the screening table where there is a clear opportunity to avoid impacts on European sites through policy strengthening. For a number of policies, the screening initially identified a potential for Likely Significant Effects ('LSE'). As the policies set no quantum of development or specific locations the potential for Likely Significant Effects relates to the possibility of development coming forward in a particular location or with particular characteristics. In such instances, the risk is not such that further assessment of impacts is required, but rather that the impacts can be simply avoided with straightforward additions to the plan which remove any uncertainty.
- The table has been updated during the HRA work on the Preferred Options, which included an initial screening and then a final check after liaison between Footprint Ecology and South Lakeland District Council and an updated version of the Preferred Options in October 2016. The table has now been updated again in July 2017 to include the additional policy changes that now form a further public consultation. The screening stage of HRA is undertaken in light of consideration of the impact pathways discussed earlier in this HRA report.
- The screening check has now been re-run again and Table 6 is updated for the amended policy options. A total of nine policies have been changed, and a further two new policies added. Additionally, a number of very minor text changes (not part of the public consultation) have been made throughout the plan, which are not of any consequence for the HRA and the screening for likely significant effects. The HRA is not finalised until the plan itself is finalised and adopted, and the screening stage may therefore be revisited again if there are further modifications before the plan is put into effect. This may include modifications after Examination.

As noted earlier in this report and within Appendix 1 in relation to HRA process, where risks to European sites are identified but further scrutiny of information, further evidence gathering or assessment of the nature and extent of impacts is required, a HRA screening table will record a recommendation for those aspects of the plan to be taken to the next stage of HRA, which is the more detailed 'Appropriate Assessment' stage. The previous screening of the Preferred Options, and the current update in light of additional policy changes has been undertaken with a conclusion that, subject to policy wording edits, the plan can be screened as having no likely significant effects. An appropriate assessment is therefore not included within this HRA. Further modifications to the plan prior to adoption will need to be re-screened, and could trigger the need for more detailed appropriate assessment.



Table 6: South Lakeland Development Management Policies document - LSE screening Preferred Options stage and additional changes stage

Screening undertaken on the September version of the Draft DPD 'Preferred Options' document. Subsequent check made of the publication version of the Draft DPD 'Preferred Options' document in early October 2016. *Green text indicates checks made on the October version. Re-screening of the July 2017 Publication version of the plan is recorded in additional final column.

Policy	Description	Initial LSE screening	Relevant European Sites	Potential risks	Recommendations (*incl check of final version Oct 2016)	Re-screen Publication version July 2017		
Introduction								
Introductory text	To set context for the draft DPD 'Preferred Options' document – background and process to date, and fit with other planning documents	No LSE	n/a	Relevance of HRA needs to be identified	1.6 – Add in text relating to the role of HRA to sit alongside the text relating to SA *Recommended text now added, no further action.	No substantial changes		
Sustainable Developr	ment							
DM1 General requirements for all development	Sets out the general requirements for all development proposals to meet, in accordance with the core principles of the NPPF	No LSE Includes references to biodiversity protection and enhancement, GI and ecological networks	All	None	n/a *Discussion between SLDC and Footprint Ecology concluded that additional protective text in this policy would negate the need for text changes in housing policies below. Reference now in part 7 of the General Requirements Policy to biodiversity protection and enhancement,	Updated policy and text includes reference to biodiversity assets and the mitigation hierarchy. * The wording should clarify biodiversity harm is only allowed as a last resort outside designated sites, and compensation		

Policy	Description	Initial LSE screening	Relevant European Sites	Potential risks	Recommendations (*incl check of final version Oct 2016)	Re-screen Publication version July 2017
					international sites, project level HRA and mitigation.	can only proceed in exceptional circumstances for designated sites.
DM2 Achieving Sustainable high- quality design	A qualitative policy to secure quality development	No LSE – not promoting particular quantum or location of development	n/a	None	n/a	No LSE - An environmentally positive policy.
DM3 Historic environment	A protective policy to secure historic asset protection	No LSE – not promoting particular quantum or location of development	n/a	None	n/a	No LSE – policy not relevant to European sites
DM4 Green and blue infrastructure, open space, trees and landscaping	Provision of open space, GI, trees and landscaping and the gains that development needs to present	Potential for LSE	Morecambe Bay and Duddon Estuary, Morecambe Bay Pavements	In light of potential mitigation needs for housing/touris m this policy needs to integrate mitigation requirements	Incorporate specific wording in this policy to ensure that GI needs for N2K mitigation are provided over and above open space standards, i.e. where development may result in increased, regular recreational use of relevant sites, GI may be necessary as part of mitigation. *Recommendation not yet incorporated. Text after the policy	An environmentally positive policy. Could be further strengthened to make more explicit the option for habitat recreation and connection within the 2 nd paragraph. Suggest also 3 rd paragraph "such as for biodiversity

Policy	Description	Initial LSE	Relevant	Potential risks	Recommendations	Re-screen
		screening	European Sites		(*incl check of final	Publication
					version Oct 2016	version July 2017
					paragraph relating to	mitigation,
					biodiversity	enhancement
					enhancement should	or"
					be added to highlight	•
					that additional or	
					enhanced GI	
					provision may be	
					required where	
					development poses a	
					risk to designated	
					sites in terms of	
					recreation pressure.	
					This links back to	
					previous HRA	
					recommendations	
					for the Core	
					Strategy.	
					Discussion with SLDC	
					has concluded that	
					this will be	
					considered at the	
					next iteration of the	
					plan.	
DM5 Rights of way	Protection and enhancement of public rights	Potential for	Morecambe	Increased	Supporting text	No substantial
and other routes	of way, encouraging new access in new	LSE	Bay,	recreational use	needs to link in with	changes
providing	developments.		Morecambe	of and	measures to prevent	J
pedestrian and cycle	, and a special specia		Bay Pavements	increased	recreation impacts	
access			,	access to N2K	on N2K sites and	
				sites – new	refer to project level	
				access may	HRA for new access if	
				bring additional	links to relevant N2K	
				risks.	sites. Check England	
				115115.	Coast Path HRA work	
					Coast Fath Tink WOLK	

- "						_
Policy	Description	Initial LSE	Relevant	Potential risks	Recommendations	Re-screen
		screening	European Sites		(*incl check of final	Publication
					version Oct 2016	version July 2017
					for co-ordinated	
					approach	
					*Addition of text as	
					above in General	
					Requirements Policy	
					removed the need	
					for specific reference	
					in this policy. No	
					further action	
					required.	
					England Coast Path	
					in early stages of	
					development for the	
					relevant stretch of	
					coast. Re-check at	
					next plan/HRA	
					iteration.	
DM6 Flood risk	Sets requirements for flood risk water	Potential for	River Kent,	Mitigation	Risks relate to	No LSE – previous
management and	management including foul and surface	LSE – whilst not	Morecambe	measures for	increased levels of	recommendation
sustainable	water disposal and sustainable drainage	promoting	Bay and	water quality	pollution in	s incorporated
drainage systems	systems.	development,	Duddon	and resources	Morecambe Bay and	and policy and
		this policy	Estuary	need to be	the River Kent.	supporting text
		should link to		integrated so	Policy/supporting	now further
		water related		the	text should ensure	strengthened
		mitigation		requirements	clear steer that	
		measures		are clear	surface water	
					disposal and foul	
					water disposal must	
					have regard for	
					relevant European	
					sites and ensure no	
					adverse effects on	
					integrity. Flood	

Policy Description Initial LSE screening European Sites European Sites Potential risks Potential Polication Policati							
DM7 Addressing pollution and contaminated land deterioration/pollution and contaminated land deterioration/pollution impact, water quality Addressing pollution and contaminated land deterioration/pollution impact, water quality Box 2	Policy	Description	Initial LSE		Potential risks		
DM7 Addressing pollution and contaminated land deterioration/pollution and contaminated land deterioration/pollution and impact, water quality DM7 Addressing pollution and contaminated land deterioration/pollution DM8 Addressing pollution and contaminated land deterioration/pollution DM8 Addressing pollution and contaminated land deterioration/pollution DM9 Addressing pollution and land deterioration/pollution ESE Bay and Duddon Estuary particular and need to consider traffic flows an			screening	European Sites		•	
be the subject of HRA and early project design/options for locations must have regard for potential impacts on European sites and the range of mitigation measures available. "Additional text now added to supporting text for this policy and amendments to the General Requirements policy cover project level HRA. No further action required. DM7 Addressing pollution and contaminated land deterioration/pollution EStuary pavements, water quality DM7 Addressing pollution and contaminated land deterioration/pollution and impact, water quality DM7 Addressing pollution and contaminated land deterioration/pollution EStuary pavements, possibly also Subberthaite, possibly also Subberthaite, plaswith and Torver Low Commons, Roudsea Wood proximity to "Revenuents in particular are in close in close or in close o							version July 2017
DM7 Addressing pollution and contamination impact, water quality Policy to limit further air quality, noise and contamination impact, water quality We have a pollution and contamination impact, water quality Box are pollution and contamination impact, water quality We have a policy to limit further air quality, noise and contamination impact, water quality We have a policy to limit further air quality, noise and contamination impact, water quality We have a policy to limit further air quality, noise and contamination impact, water quality We have a policy to limit further air quality, noise and contamination impact, water quality We have a policy to limit further air quality, noise and contamination impact, water quality Policy to limit further air quality, noise and contaminated land deterioration/pollution LSE Bay and Duddon Estuary Pavements, possibly also Subberthwaite Albalwith and Torver Low Commons, in close Commons, in close Natural England's object on limit particular are in particular are proving text are of relevance to European sites and proving text are of relevance to European sites and proving text for this policy and amendments to the General Requirements policy cover project level HRA. No further action required. Sites are sensitive to air politution and nitrogen and reporting text could refer to issues from traffic flows and need to consider text could refer to Natural England's object to European sites and proving text are of relevance to European sites and proving text are of relevance to European sites and proving text are of relevance to European sites and proving text for this policy and amendments to the General Requirements policy cover project level HRA. No further action required. Sites are sensitive to air politution and nitrogen are sensitive to air politution and nitrogen are sensitive to air politution and nitrogen are sensitive to air politution and nitr						defence works must	
DM7 Addressing pollution and contamination impact, water quality quality Policy to limit further air quality, noise and contamination impact, water quality quality Policy to limit further air quality, noise and contaminated land deterioration/pollution Policy to limit further air quality, noise and contaminated land deterioration/pollution Policy to limit further air quality, noise and contaminated land deterioration/pollution Policy to limit further air quality, noise and contaminated land deterioration/pollution ESE Bay and pollution and estuary Pavements, possibly also Subberthwaite Plans which will require partnership or policy and amendments to the General Requirements policy cover project level HRA. No further action required. No substantial could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text work to develop Site and provide additional measures to any proviment to require partnership require partnership avoid impacts as a void impacts as a void impacts as a void impacts and provide and additional measures to any proviment to require partnership and the range of mitigation measures to the General Requirements to the						be the subject of	
DM7 Addressing pollution and contaminated land deterioration/pollution impact, water quality quality Policy to limit further ai- quality, noise-and contaminated land deterioration/pollution The Policy to limit further ai- quality, noise-and contaminated land deterioration/pollution DM7 Addressing pollution and contaminated land deterioration/pollution Common possibly also Subperthate Estuary Pavements, possibly also Subperthate From traffic Susporting text could refer to issues from traffic Supporting text could refer to issues and need to consider traffic. Supporting text could refer to issues From traffic flows and need to consider traffic. Supporting text could refer to issues From traffic flows and need to consider traffic. Supporting text could refer to issues From traffic flows and need to consider traffic. Supporting text in particular are in						HRA and early	
DM7 Addressing pollution and contaminated land deterioration/pollution impacts ware quality Policy to limit further air quality, noise and contaminated land deterioration/pollution Estuary quality Policy to limit further air quality, noise and contaminated land deterioration/pollution Commons, Roudsea Wood Potential for LSE Bay and Duddon Estuary Pavements, possibly also Subberthwaite Bay and Duddon Estuary Pavements, possibly also Exceed site Sensitive loads. Natural England's Supporting text on the General Requirements policy cover project level HRA. No further action required. No substantial changes. Changes. Changes wade to policy and amendments to the General Requirements policy cover project level HRA. No further action required. No subctantial changes. Changes. Changes wade to policy and amendments to the General Requirements policy cover project level HRA. No further action required. No substantial changes. Changes wade to policy and amendments to the General Requirements policy cover project level HRA. No further action required. No substantial changes. Changes wade to policy and amendments to the General Requirements policy cover project level HRA. No further action required. No substantial changes. Changes wade to policy and amendments to the General Requirements policy cover project level HRA. No further action required. No substantial changes. Changes wade to policy and amendments to the General Requirements policy cover project level HRA. No further action required.						project	
DM7 Addressing pollution and contaminated land deterioration/pollution impact, water quality quality DM7 Addressing pollution and contaminated land deterioration/pollution Torver Low Commons, Roudsea Wood Regular partnership Potential for LSE DM7 Addressing pollution and contaminated land deterioration/pollution DM8 Addressing pollution and contaminated land deterioration/pollution DM9 Addressing pollution and contaminated land deterioration/pollution DM7 Addressing pollution and contaminated land deterioration/pollution DM8 T Addressing pollution and contaminated land deterioration/pollution DM8 T Addressing pollution and contaminated land deterioration/pollution ESEUARY Pavements, possibly also Subberthwaite , Blawith and Torver Low Commons, Roudsea Wood Torver L						design/options for	
DM7 Addressing pollution and contaminated land deterioration/pollution impact, water quality uality Policy to limit further air-quality, noise and contaminated land deterioration/pollution Estuary Pavements, possibly also Subberthwaite Blawith and Torver Low Commons, Roudsea Wood Impacts on European sites and the range of mitigation measures available. *Additional text now added to supporting text for this policy cover project level HRA. No further action required. No substantial Sites are sensitive to air pollution and nitrogen emissions exceed site sensitive loads. Natural England's to European sites and the range of mitigation measures available. *Additional text now added to supporting text could refer to issues from traffic flows and need to consider traffic flows						locations must have	
DM7 Addressing pollution and contaminated land deterioration/pollution limpact, water quality aulity Policy to limit further air quality, noise and contaminated land deterioration/pollution DM7 Addressing pollution and contaminated land deterioration/pollution Torver Low Commons, Roudsea Wood DM7 Addressing pollution and contaminated land deterioration/pollution DM7 Addressing pollution and contaminated land deterioration/pollution DM7 Addressing pollution and contaminated land deterioration/pollution DM8 Addressing pollution and contaminated land deterioration/pollution DM9 Addressing pollution and contaminated land deterioration/pollution DM9 Addressing pollution and contaminated land deterioration/pollution ESE Bay and Duddon Estuary noise and pollution and nitrogen and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text are of relevance to text could refer to to succeed site text could refer to to succeed site to to support to the General Requirements policy cover project level HRA. No further action required. No substantial changes. Changes made to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows are not required. The Pavements in particular are in close Pairwith will measures to to turnopen sites and provide additional measures to to turnopen sites and provide additional measures to proximity to require partnership are view for the General Requirements to the General Requirements policy and amendents to the General Requirements to the General Requirements policy and amendents to the General Requirements						regard for potential	
DM7 Addressing pollution and contaminated land deterioration/pollution limpact, water quality aulity Policy to limit further air quality, noise and contaminated land deterioration/pollution DM7 Addressing pollution and contaminated land deterioration/pollution Torver Low Commons, Roudsea Wood proximity to require partnership of mitigation measures available. *Additional text now added to supporting text for this policy and amendments to the General Requirements policy cover project level HRA. No further action required. **No substantial changes.** **Could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider text could refer to supporting text could refer to issues from traffic flows and need to consider text could refer to supporting text exeed site text could refer to supporting text are of relevance to the General Requirements policy cover project level HRA. No further action required. **No substantial changes.** **Changes.** **Deal Policy to limit further air quality, noise and contaminated land deterioration/pollution and initiated land deterioration/pollution and pollution and introgen and need to consider text could refer to issues from traffic flows and need to consider text could refer to issues from traffic flows and need to consider text could refer to issues from traffic flows and need to consider text could refer to issues from traffic flows and need to consider text could refer to issues from traffic flows and need to consider text could refer to issues from traffic flows and need to consider the foliation of the fol						impacts on European	
DM7 Addressing pollution and contaminated land deterioration/pollution impact, water quality Quality Policy to limit further air quality, noise and contaminated land deterioration/pollution Potential for LSE Bay and Duddon Estuary Pavements, possibly also Subberthwaite , Blawith and Torver Low Low Commons, Roudsea Wood Torver Low Commons, Roudsea Wood Potential for LSE Boy and Sites are sensitive to air pollution and nitrogen emissions exceed site text could refer to issues from traffic. Supporting text to air pollution and nitrogen emissions exceed site text could refer to issues from traffic. Supporting text to an policy and supporting text to are of relevance to European sites and provide additional measures to avoid impacts as						sites and the range	
Policy to limit further air quality, noise and contamination impact, water quality uality Policy to limit further air quality, noise and contaminated land deterioration/pollution Estuary Pavements, possibly also Subberthwaite , Blawith and Torver Low Commons, Roudsea Wood Policy to limit further air quality, noise and contaminated land deterioration/pollution Potential for LSE Bay and Duddon Estuary Pavements, possibly also Subberthwaite , Blawith and Torver Low Commons, Roudsea Wood Plans which will Potential for LSE Bay and Duddon Estuary Pavements, possibly also Subberthwaite , Blawith and Torver Low Commons, Roudsea Wood Plans which will require partnership Part Additional text now added to supporting text for this policy and amendments to the General Requirements policy cover project level HRA. No further action required. No substantial could refer to issues from traffic flows and need to consider text could refer to supporting text sensitive loads. The Pavements in particular are in particular are in particular are in particular are in close Plans which will require partnership						of mitigation	
DM7 Addressing pollution and contaminated land deterioration/pollution impact, water quality Pavements, possibly also Subberthwaite quality BM7 Addressing pollution and contaminated land deterioration/pollution BM8 Addressing pollution and contaminated land deterioration/pollution COMPAND Addressing pollution and contaminated land deterioration/pollution DM7 Addressing pollution and contaminated land deterioration/pollution COMPAND Addressing pollution and contaminated land deterioration/pollution BAY Addressing pollution and contaminated land deterioration/pollution ESUBLET AND Further action required. Sites are sensitive to air pollution and nitrogen emissions text could refer to issues from traffic flows and need to consider text could refer to sensitive loads. Subberthwaite possibly also Subberthwaite sensitive loads. Blawith and Torver Low Commons, Roudsea Wood The Pavements in particular are in close proximity to require partnership avoid impacts as						measures available.	
DM7 Addressing pollution and contaminated land deterioration/pollution impact, water quality Morecambe Bay and Duddon Estuary Pavements, possibly also Subberthwaite A Blawith and Torver Low Commons, Roudsea Wood Lext for this policy and amendments to the General Requirements policy cover project level HRA. No further action required. No substantial changes. No substantial changes. Changes made to policy and amendments to the General Requirements policy cover project level HRA. No further action required. No substantial changes. Changes made to policy and amendments to the General Requirements policy cover project level HRA. No further action required. No substantial changes. Changes made to policy and supporting text are of relevance to European sites and provide additional measures to avoid impacts as						*Additional text now	
DM7 Addressing pollution and contaminated land deterioration/pollution impact, water quality quality Policy to limit further air quality, noise and contaminated land deterioration/pollution DM7 Addressing pollution and contaminated land deterioration/pollution ESE Bay and Duddon Estuary Pavements, possibly also Subberthwaite Big and amendments to the General Requirements policy cover project level HRA. No further action required. No substantial could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to opolicy and supporting text are of relevance text could refer to sensitive loads. The Pavements in particular are line particular are commons, in close Roudsea Wood Roudsea Wood Roudsea Wood Amrecambe Bay and Duddon Estuary Pavements, possibly also Subberthwaite Requirements policy cover project level HRA. No further action required. No substantial could refer to opolicy and supporting text are of relevance to European sites work to develop Site And The Pavements in particular are protected in particular are provide additional require partnership avoid impacts as						added to supporting	
DM7 Addressing pollution and contaminated land deterioration/pollution unpact, water quality Holicy to limit further air quality, noise and contaminated land deterioration/pollution DM7 Addressing pollution and contaminated land deterioration/pollution DM7 Addressing pollution and contaminated land deterioration/pollution DM8 Addressing pollution and contaminated land deterioration/pollution LSE Bay and Service to air pollution and itrogen emissions exceed site sensitive loads. Subberthwaite sensitive loads. Pavements, possibly also Subberthwaite , Blawith and Torver Low in particular are in close Commons, Roudsea Wood Natural England's to European sites work to develop Site and provide additional measures to require partnership avoid impacts as						text for this policy	
DM7 Addressing policy to limit further air quality, noise and pollution and contaminated land deterioration/pollution impact, water quality quality Policy to limit further air quality, noise and contaminated land deterioration/pollution LSE Bay and Sites are sensitive to air pollution and impact, water quality Pavements, possibly also exceed site Subberthwaite Subberthwaite A Blawith and Torver Low in particular are Commons, Roudsea Wood Requirements policy cover project level HRA. No further action required. No substantial could refer to issues from traffic flows and need to consider text could refer to policy and supporting text are of relevance to European sites and provide additional Plans which will require partnership avoid impacts as						and amendments to	
DM7 Addressing pollution and contaminated land deterioration/pollution impact, water quality quality Policy to limit further air quality, noise and contaminated land deterioration/pollution LSE Potential for LSE Bay and sensitive to air pollution and Estuary pollution and impact, water quality Pavements, possibly also Subberthwaite , Blawith and Torver Low Commons, Roudsea Wood Torver Low Commons, Roudsea Wood Cover project level HRA. No further action required. No substantial could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider to issues from						the General	
DM7 Addressing pollution and contaminated land deterioration/pollution impact, water quality quality Policy to limit further air quality, noise and contaminated land deterioration/pollution LSE Potential for LSE Bay and sensitive to air pollution and Estuary pollution and impact, water quality Pavements, possibly also Subberthwaite , Blawith and Torver Low Commons, Roudsea Wood Torver Low Commons, Roudsea Wood Cover project level HRA. No further action required. No substantial could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider traffic. Supporting text could refer to issues from traffic flows and need to consider to issues from						Requirements policy	
DM7 Addressing pollution and contaminated land deterioration/pollution mpact, water quality Policy to limit further air quality, noise and contaminated land deterioration/pollution LSE Potential for LSE Bay and Duddon Estuary Pavements, possibly also Subberthwaite , Blawith and Torver Low Commons, Roudsea Wood Bay and Duddon Estuary Pavements, possibly also Subberthwaite are of relevance and relevance and relevance and relevance and need to consider text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text could refer to susues from traffic flows and need to consider traffic. Supporting text are follows. The Pavements in particular are in close proximity to proximity to proximity to proximity to avoid impacts as a supporting text are follows.							
DM7 Addressing pollution and contaminated land deterioration/pollution and impact, water quality Pavements, possibly also Subberthwaite Blawith and Torver Low Commons, Roudsea Wood Pollution and Sites are sensitive to air pollution and nitrogen and need to consider text could refer to issues changes. Changes made to policy and supporting text are of relevance to European sites and provide additional measures to avoid impacts as							
DM7 Addressing pollution and contaminated land deterioration/pollution and impact, water quality Pavements, possibly also Subberthwaite Blawith and Torver Low Commons, Roudsea Wood Pollution and Sites are sensitive to air pollution and nitrogen and need to consider text could refer to issues changes. Changes made to policy and supporting text are of relevance to European sites and provide additional measures to avoid impacts as						action required.	
pollution and contaminated land deterioration/pollution Contaminated land deterioration/pollution Contaminated land deterioration/pollution LSE Bay and Duddon Estuary Pavements, possibly also Subberthwaite Blawith and Torver Low Torver Low Roudsea Wood Contaminated land deterioration/pollution LSE Bay and Duddon Estuary Pavements, possibly also Subberthwaite Torver Low Roudsea Wood Roudsea Wood Contaminated land deterioration/pollution Estuary Pavements, possibly also Subberthwaite Subberthwaite In particular are Roudsea Wood Roudsea Wood Commons, Roudsea Wood Roudsea Wood Roudsea Wood Commons, Roudsea Wood Roudsea Wood Could refer to issues Changes. Changes Changes. Changes Changes Changes Changes Changes Subporting supporting text are of relevance to European sites and provide additional measures to avoid impacts as						,	
pollution and contaminated land deterioration/pollution Contaminated land deterioration/pollution Contaminated land deterioration/pollution LSE Bay and Duddon Estuary Pavements, possibly also Subberthwaite Blawith and Torver Low Torver Low Roudsea Wood Contaminated land deterioration/pollution LSE Bay and Duddon Pollution and from traffic flows and need to consider policy and supporting text are of relevance to European sites and provide additional measures to avoid impacts as	DM7 Addressing	Policy to limit further air quality, noise and	Potential for	Morecambe	Sites are	Supporting text	No substantial
contamination impact, water quality Duddon Estuary nitrogen and need to consider policy and supporting text possibly also exceed site sensitive loads. Blawith and The Pavements in particular are Commons, Commons, Roudsea Wood Proximity to Roudsea Wood Proximity to Roudsea Wood Roudsea Woo	_						
impact, water quality Pavements, possibly also Subberthwaite Radius Forver Low Commons, Roudsea Wood Rouse	•	contaminated land determination, pollution		-			_
quality Pavements, possibly also exceed site sensitive loads. Blawith and Torver Low Commons, Roudsea Wood Rouse					•		_
possibly also exceed site Subberthwaite sensitive loads. Blawith and Torver Low in particular are Commons, Roudsea Wood Route Subberthwaite sensitive loads. Date of relevance to European sites work to develop Site and provide additional measures to avoid impacts as	•						
Subberthwaite sensitive loads. , Blawith and The Pavements or Torver Low in particular are Commons, Roudsea Wood Roudsea	quanty			·			
, Blawith and The Pavements work to develop Site and provide Torver Low in particular are Commons, in close Roudsea Wood proximity to require partnership avoid impacts as							
Torver Low in particular are Nitrogen Action additional Commons, in close Plans which will measures to Roudsea Wood proximity to require partnership avoid impacts as						_	·
Commons, in close Plans which will measures to Roudsea Wood proximity to require partnership avoid impacts as						The state of the s	-
Roudsea Wood proximity to require partnership avoid impacts as						_	
				·			
				and Mosses	Kendal (and the	working and will set	a result of water

Description			Potential risks		Re-screen
	screening	European Sites		•	Publication
					version July 2017
					and air quality
		Mosses SAC	While the policy	_	sensitivities of
			states	*Additional text now	European sites.
			development	added to supporting	The most recent
			must be air	text for this policy in	Kendal AQMA
			quality neutral,	relation to mitigating	report for 2017
			development in	for air quality effects,	advises that NO2
			different	and amendments to	targets for the
			locations will	the General	AQMA are yet to
			have varying	Requirements policy	be reached, but
			impacts on	cover project level	continuing
			traffic flows	HRA. No further	progressive
			near relevant	action required.	reductions
			sites.		indicate targets
					should be met by
					2018.
					Whilst the policy
					brings in further
					protective
					measures, there
					may be
					opportunities for
					additional action
					as part of NE's
					Nitrogen Action
					Plan for
					Morecambe Bay
					Pavements.
					No LSE but liaison
					with NE
					recommended re
					Action Plan scope
					and cross over
	Description	Description Initial LSE screening	·	SAC, Duddon Mosses SAC While the policy states development must be air quality neutral, development in different locations will have varying impacts on traffic flows near relevant	SAC, Duddon Mosses SAC SAC, Duddon Mosses SAC Mhile the policy states development must be air quality neutral, development in different locations will have varying impacts on traffic flows near relevant Mosses SAC SAC, Duddon Mosses SAC While the policy reducing emissions. *Additional text now added to supporting text for this policy in relation to mitigating for air quality effects, and amendments to the General Requirements policy cover project level HRA. No further action required.

- "					_	_
Policy	Description	Initial LSE	Relevant	Potential risks	Recommendations	Re-screen
		screening	European Sites		(*incl check of final	Publication
					version Oct 2016	version July 2017
						with spatial
						planning.
DM8 High speed	Relates to requirements for broadband	No LSE – not	n/a	None	n/a, but note that	No LSE – project
broadband for new	connectivity in new residential and	promoting			new masts would	level HRA may be
developments	commercial developments	particular			need project level	required (e.g. for
·	· ·	quantum or			HRA	fibre installation
		location of			*Project level HRA	etc)
		development			now referred to in	,
		GC1010 p			the General	
					Requirements policy.	
Sustainable travel an	d access				requirements poncy.	
DM9 Parking		No LSE – not	n/2	None	Note that new car	No substantial
_	A qualitative policy to secure appropriate		n/a	None		
provision, new and	parking provision	promoting			parks outside urban	changes
loss of car parks		particular			locations will need	
		quantum or			project level HRA, as	
		location of			risks of	
		development			promoting/increasin	
					g access to sites such	
					as Morecambe Bay.	
					*Project level HRA	
					now referred to in	
					the General	
					Requirements policy.	
DM10 Safeguarding	Protecting the canal and disused railway line	No LSE – not	n/a	None	n/a	No substantial
land for transport	assets	promoting				changes
infrastructure		particular				
improvements		guantum or				
·		location of				
		development				
Housing		2.2.2.2 p				
Housing policies –	A set of policies to inform housing growth of	Potential for	All	All new housing	In some instances, it	No substantial
general points	differing types	LSE	All	could	is beneficial to add	changes
general points	untering types	LJL		Could	is belieficial to add	changes

Policy	Description	Initial LSE	Relevant	Potential risks	Recommendations	Re-screen
		screening	European Sites		(*incl check of final	Publication
					version Oct 2016)	version July 2017
				potentially pose	specific wording to a	
				risks to N2K	policy. For most	
				sites. The	housing policies, the	
				housing policies	nature and level of	
				cover different	potential threat is	
				types of	the same, and	
				housing	supporting text as	
				development.	part of the housing	
				·	chapter would be	
					appropriate, rather	
					than repeating	
					wording for each	
					policy	
					*Addition of text as	
					above in General	
					Requirements Policy	
					removed the need	
					for specific reference	
					in this policy. No	
					further action	
					required.	
DM11 Accessible	Technical standards for all new housing, in	No LSE -	n/a	None	n/a	No LSE – policy
and adaptable	accordance with Building Regulations and	Environmentall	11, 4	TTOTIC	, a	not relevant to
homes	the government's Housing Standards Review	y positive, but				European sites
nomes	the government a mousing standards neview	not directly				Laropean sites
		relevant to N2K				
		sites				
DM12 Self-build and	Principles for accepting self-build and	Potential for	All	Plots could be	As a policy directed	No substantial
custom build	custom build housing, and general support	LSE	All	outside	at small scale	changes
housing	for this type of sustainable development,	LJL		allocated	development that	changes
Housing	including encouraging developers to offer			development	could occur	
	self-build plots			sites and in	anywhere, it is	
	sen-bund piots			locations that	recommended that	
				iocations that	recommended that	

2 "	5	1 22 1105		2 1 11 1 1		_
Policy	Description	Initial LSE	Relevant	Potential risks	Recommendations	Re-screen
		screening	European Sites		(*incl check of final	Publication
					version Oct 2016	version July 2017
				pose risks to	protective wording is	
				N2K sites.	included within this	
				Protective	policy/supporting	
				policy wording	text.	
				should be	*Addition of text as	
				added to this	above in General	
				policy.	Requirements Policy	
					removed the need	
					for specific reference	
					in this policy. No	
					further action	
					required.	
DM13 Housing	Circumstances in which development on the	Potential for	All	Depending	Natural Environment	No substantial
development in	edge of villages and hamlets would be	LSE		upon location,	policy wording needs	changes
small villages and	acceptable			certain sites	to be included/linked	
hamlets				could pose risks	in the housing	
				to N2K sites.	chapter of the	
					emerging DPD, and	
					applicable to this	
					policy. Supporting	
					text could refer to	
					the need to adhere	
					to relevant	
					environmental policy	
					and cross reference	
					to the HRA.	
					*Addition of text as	
					above in General	
					Requirements Policy	
					removed the need	
					for specific reference	
					in this policy. No	
					in this policy. No	

Policy	Description	Initial LSE screening	Relevant European Sites	Potential risks	Recommendations (*incl check of final version Oct 2016)	Re-screen Publication version July 2017
					further action required.	
DM14 Rural exceptions sites	Rural exception sites to deliver 100% affordable housing in the rural area- a criteria based policy to allow exceptions.	Potential for LSE	All	Any proposed rural exception sites could pose risks to N2K sites and should therefore adhere to natural environment policy and project level HRA.	Natural Environment policy wording needs to be included/linked in the housing chapter of the emerging DPD, and applicable to this policy. Supporting text could refer to the need to adhere to relevant environmental policy and cross reference to the HRA. *Addition of text as above in General Requirements Policy removed the need for specific reference in this policy. No further action required.	No substantial changes
DM15 Essential dwellings for workers in the countryside	Requirement for essential dwellings for countryside/agricultural worker accommodation	Potential for LSE	All	Development could be outside allocated development sites and in locations that pose risks to N2K sites.	As a policy directed at small scale development that could occur anywhere, it is recommended that protective wording is included within this	No substantial changes

Policy	Description	Initial LSE	Relevant	Potential risks	Recommendations	Re-screen
Policy	Description	screening	European Sites	Potentialrisks	(*incl check of final	Publication
		screening	European Sites		version Oct 2016)	
				Protective	policy/supporting	version July 2017
				policy wording should be	text. *Addition of text as	
				added to this	above in General	
				policy.	Requirements Policy	
					removed the need	
					for specific reference	
					in this policy. No	
					further action	
					required.	
Types of Development						
DM16 Conversion of	Bringing empty buildings into	Potential for	All	Conversion to a	As a policy directed	No substantial
Buildings in Rural	residential/tourism/employment/communit	LSE		development	at small scale	changes
Areas	y use			type that could	development that	
				pose risks to	could occur	
				N2K sites –	anywhere, it is	
				recreation,	recommended that	
				water quality	protective wording is	
				etc.	included within this	
					policy/supporting	
					text.	
					*Addition of text as	
					above in General	
					Requirements Policy	
					removed the need	
					for specific reference	
					in this policy. No	
					further action	
					required.	
DM17 Retention of	Likely to be a protective policy to safeguard	No LSE – not	n/a	None	n/a	No substantial
community facilities	community facilities	promoting				changes
		particular				
		quantum or				

Policy	Description	Initial LSE	Relevant	Potential risks	Recommendations	Re-screen
		screening	European Sites		(*incl check of final	Publication
					version Oct 2016	version July 2017
		location of				
		development				
DM18 Tourist accommodation — caravans, chalets, log cabins, camping and new purpose built self-catering accommodation (outside the Arnside and Silverdale AONB)	Responding to the need for additional tourist accommodation	Potential for LSE	Morecambe Bay and Duddon Estuary in particular, potentially others	This is a criterion based policy – criterion 3 refers to biodiversity and should be expanded to cover protection of biodiversity as well as	Amend point 3 text toProposals should protect biodiversity assets and seek to *Policy text amended, no further action required.	No LSE – amended wording still protecting biodiversity assets. Note the importance of linkages to the Morecambe Bay Partnership interpretation work.
DM19 Equestrian related development	A qualitative/restrictive policy to secure quality development in the right location	No LSE – not promoting particular quantum or location of development	n/a	enhancement None	Suggest policy text refers to biodiversity as well as landscape (last sentence of policy). *Policy text amended, no further	No LSE – project level HRA may be required
DM20 Advertisement, signs and shop fronts	A qualitative policy to secure quality development	No LSE – not promoting particular quantum or location of	n/a	None	action required. n/a	No substantial changes
DM21 Renewable and low carbon energy development	Consideration of renewable energy development	development Potential for LSE – includes some generic protective	Morecambe Bay and Duddon Estuary	Morecambe Bay of particular concern as highlighted by	Remove the word 'unacceptable' from 3 rd bullet of policy.	No substantial changes

5 11						
Policy	Description	Initial LSE screening	Relevant European Sites	Potential risks	Recommendations (*incl check of final	Re-screen Publication
		Screening	Luiopean Sites		version Oct 2016)	version July 2017
		wording but additional explanation required		Core Strategy HRA.	The supporting text for this policy would benefit from an explanation of the potential risks to N2K sites, and the need for evidence to support proposals. *text at point 3 now amended. No further action required.	version July 2017
DM22 Hot food takeaways	A qualitative policy to secure quality development	No LSE – not promoting particular quantum or location of development	n/a	None	n/a	No substantial changes
Economy, Town Cent	res and Tourism	•				
DM23 Retail uses outside town centres	To clarify policy for retail development outside towns, with thresholds for retail impact assessment	No LSE – The policy is for the requirements for retail impact thresholds only and does not promote development	n/a	None	n/a	No substantial changes
DM24 Kendal town centre and Kendal Canal Head area	Policy options for the main urban centre of the district	Potential for LSE	River Kent, Morecambe Bay Pavements	River Kent SAC – water quality	Policy text should ensure that there are no adverse effects for the relevant European sites.	No substantial changes. Development delivery is being

Policy	Description	Initial LSE	Relevant	Potential risks	Recommendations	Re-screen
		screening	European Sites		(*incl check of final	Publication
					version Oct 2016	version July 2017
				recreation	*Addition of text as	closely
				issues (and	above in General	monitored.
				potentially air	Requirements Policy	
				quality)	removed the need	
					for specific reference	
					in this policy. No	
					further action	
					required for the DPD,	
					but note that issues	
					highlighted in the	
					Core Strategy and	
					Land Allocations	
					HRAs need to be	
					progressed and the	
					Kendal Masterplan	
					should have regard	
					for these.	
DM25 - Agricultural	Ensuring demonstrable essential need in	No LSE –	All	Project level		No LSE – Project
buildings	relation to the functional operations of an	supporting text		HRA may be		level HRA may be
J	existing farm or agricultural business	refers to		required		required.
	5 5	conserving the		·		'
		natural				
		environment.				
New Policy (policy	Criteria based policy for meeting the needs	LSE – potential	River Kent,	Water sensitive		Amend policy
number not yet	of gypsies, travellers and travelling show	risk of water	Morecambe	sites affected		wording and
assigned in draft of	people	pollution from	Bay and	downstream of		supporting text to
plan assessed) –	poop.c	disposal of	Duddon	water		make specific
Gypsies, travellers		waste direct to	Estuary	contamination		reference to the
and travelling show		watercourses		as a result of		need for water
people		and water		waste disposal		disposal facilities
L P. 0		bodies in the		direct to		as well as water
		absence of		watercourses		supply. Reference
		facilities.				to sanitation in
		racinties.				to sufficient in

_						
Policy	Description	Initial LSE screening	Relevant European Sites	Potential risks	Recommendations (*incl check of final version Oct 2016)	Re-screen Publication version July 2017
				and water bodies.		the policy is not explicit in relation to the risks.
Enforcement						
DM26 Enforcement	Council actions explained in relation to taking forward enforcement on planning matters	No LSE – not promoting particular quantum or location of development	n/a	None	n/a	No substantial changes
Monitoring and imple	ementation					
Policy by policy list of monitoring requirements	Sets out implementation of monitoring, responsibility, potential indicators and targets where appropriate.	No LSE	n/a	None	Would be beneficial to refer to the need for HRA monitoring. In particular water quality and the River Kent. Such data are collected by EA and could be referenced under DM6. *Recommendation now incorporated at DM6 with reference to HRA monitoring of water quality and the River Kent. No further action required.	No substantial changes
Appendix 1 Options Assessment						
1A Options Assessment	Provides SA results and summaries of alternative options for all relevant policies	No LSE – no policy but	n/a	None	n/a	No substantial changes

Policy	Description	Initial LSE	Relevant	Potential risks	Recommendations	Re-screen
· Oncy	Description .	screening	European Sites	1 otentiai risks	(*incl check of final	Publication
					version Oct 2016)	version July 2017
Summary – For		rather summary				
topic areas where		of alternatives				
new MD policies are						
proposed						
1B Options	Provides SA results and summaries of	No LSE – no	n/a	None	n/a	No substantial
Assessment	alternative options for all relevant policies	policy but				changes
Summary – For		rather summary				
topic areas where no new DM policies		of alternatives				
are proposed						
	ocal Plan Policies Proposed for replacement by	DPD				
Saved policies -	List of polices not likely to be taken forward	Potential for	n/a	Nature	Nature conservation	No substantial
considered no	List of polices flot likely to be taken forward	LSE- checked	, a	conservation	is covered by the	changes
longer required		for implications		matters not	Core Strategy, but	, and the second
		of loss		adequately	additional text for	
				clear and linked	certain policies is	
				back to Core	recommended for	
				Strategy	the Development	
					Management DPD to	
					ensure linkages and	
					clarity.	
					Individual policies will need to be	
					screened if they are	
					added back into the	
					plan.	
					*Advice - no further	
					action required.	
Glossary						
Glossary	Explanation of terms used in the plan	No LSE	n/a	None	n/a, although there	No substantial
					may be a need to	changes
					add terms as the	

						_
Policy	Description	Initial LSE	Relevant European Sites	Potential risks	Recommendations (*incl check of final	Re-screen Publication
		screening	European Sites		version Oct 2016)	version July 2017
					HRA continues to	
					progress	
					*Advice - no further	
					action required.	
	ies and Options but not progressed					
Housing Technical Standards – water efficiency	Technical standards for housing development (NB Taken forward through policy DM11)	No LSE – checked for implications of loss, and not relevant for N2K sites	n/a	None	n/a	n/a
Telecommunication s equipment	∓elecommunications (NB some elements taken forward through policy DM8)	No LSE – checked for implications of loss, and not relevant for N2K sites	n/a	None	n/a	n/a
Starter homes	Delivery of starter homes	No LSE – checked for implications of loss, and not relevant for N2K sites	n/a	None	n/a	n/a
Self-catering	Delivery of self-catering tourism development	No LSE – checked for implications of loss, and not relevant for N2K sites	n/a	None	n/a	n/a
Retail and other uses in town centres	Town centre growth encouraged, criteria set	No LSE – checked for implications of	n/a	None	n/a	n/a

Policy	Description	Initial LSE screening	Relevant European Sites	Potential risks	Recommendations (*incl check of final version Oct 2016)	Re-screen Publication version July 2017
		loss, and not relevant for N2K sites				
Coasts and Watercourses	Protective policy	Potential for LSE – loss of this policy removes the opportunity to build in protective wording	River Kent, Morecambe Bay and Duddon Estuary	Policy protection reduced	Ensure remaining policies/supporting text has specific reference to vulnerability of coastal and watercourse N2K sites and need to protect them. *Addition of text as above in General Requirements Policy now covers this point. No further action required.	No substantial changes
Loss of Employment sites and premises	Protection of employment assets	No LSE – checked for implications of loss, and not relevant for N2K sites	n/a	None	n/a	n/a

^{*}The mitigation hierarchy is the stepwise approach to protecting biodiversity. Harm should firstly be avoided. Any residual harm then minimised. Only residual harm after avoidance and mitigation should be compensated for, allowing the development project to proceed in circumstances specified by relevant legislation and planning policy, in accordance with the type of biodiversity asset affected. If the specified exceptions set out in legislation/policy are not met, the project should not proceed. At all steps in the mitigation hierarchy, the project should also seek gains for biodiversity, as integral to sustainable development.

6. Key Considerations and Recommendations

- 6.1 After establishing background evidence and relevant information, screening for likely significant effects was undertaken on an early version of the Draft DPD 'Preferred Options' document, and then again on a version ready for public consultation in October 2016. HRA recommendations were identified as having been incorporated. South Lakeland District Council has now prepared a Publication version of the plan, which has now also been the subject of screening for likely significant effects and an updated screening table completed.
- 6.2 Screening identifies potential for likely significant effects and this updated iteration of the HRA of the Development Management Policies DPD has identified the need for wording amendments that will ensure impacts can be avoided with straightforward additions to the plan. These additions will be considered by South Lakeland District Council in preparing the final DPD for publication.

Recommendations for the Development Management Policies DPD

- 6.3 The recommendations are set out in the final column of Table 6. The recommendations are elaborated on here, to enable the Council to identify and progress the necessary action in terms of policy and supporting text wording changes.
- 6.4 Policy DM1 General Requirements for all Development Amend text at point 6 to provide further clarification on where exceptional circumstances may enable biodiversity harm, for both designated and non-designated biodiversity assets.
- 6.5 "Ensure the protection and enhancement of existing ecological networks, and biodiversity and geological assets. For non-designated assets where this is demonstrably not possible, mitigation, or, as a last resort, compensation will be required. For designated assets* (add footnote to say local, national and internationally protected sites of biodiversity or geodiversity importance) harm will only be allowed in exceptional circumstances* (add footnote to refer to relevant policy/legislation)."
- The relevant legislation to refer to would include the Conservation of Habitats and Species Regulations 2010, as amended, and the Wildlife and Countryside Act 1981, as amended by the Countryside and Rights of Way Act 2000. The National Planning Policy Framework refers to the need to treat Ramsar sites as European

sites, and the need for criteria based policies with distinctions made between the hierarchy of international, national and local designated sites.

- Policy DM4 –Green and Blue Infrastructure, Trees, Open Space and Landscaping a very positive policy for the natural environment, particularly with the inclusion of maintenance and management. Additional minor amendments to highlight habitat creation and also the need to connect green and blue infrastructure are recommended.
- "All development proposals will result in net green and blue infrastructure gains and demonstrate that they deliver wider requirements and objectives through the use of multifunctional green and blue infrastructure. These gains could be quantitative and/or qualitative as appropriate. Measures could include priority habitat creation or restoration living/green walls, roofs and roof gardens; nest boxes, hedgehog highways, wildflower areas, ponds, watercourses or wetland areas; fruit trees and innovative use of planting, species and space to provide, enhance and connect green and blue infrastructure and maximise its functions and benefits."
- 6.9 It is recommended that specific reference to biodiversity mitigation as well as enhancement is made in paragraph 3 of the policy. It may also be beneficial to refer to net gains for the natural environment within the supporting text, to make clear that the objective is to reverse declines and develop a more resilient and healthy natural environment.
- Amendments to Policy DM 7 Addressing pollution and contamination impact, water quality provide strengthened protection for European sites with air and water quality sensitivities. The Kendal AQMA report for 2017 advises that NO2 targets for the AQMA are yet to be reached, but continuing progressive reductions indicate targets should be met by 2018. Whilst the policy brings in further protective measures, there may be opportunities for additional action as part of Natural England's Nitrogen Action Plan for Morecambe Bay Pavements and the Council should liaise further with Natural England on this.
- 6.11 For Policy DM18 Tourist Accommodation the Council should be aware of the importance of linkages to the Morecambe Bay Partnership interpretation work.
- 6.12 Policy DM26 Gypsies, travellers and travelling show people A recommendation is made for giving clarity on waste water disposal. The policy does refer to sanitation at point 4 but it should be made clear that the requirements relate to safe waste water disposal.
- 6.13 "The site can be served with relevant utilities, including water supply, sanitation and water disposal facilities, and also provide adequate access for emergency vehicles."

Progression of measures developed for the Core Strategy and Land Allocations

- As noted throughout this HRA, the Local Plan as a whole informs development, and the other documents forming the Local Plan are applicable to this HRA. There are particular measures committed to within the Core Strategy that should be linked back to from the Development Management Policies to ensure continuity, clarity and ensure mitigation is secured. Of particular relevance are the following areas within the Core Strategy.
- 6.15 The Core Strategy includes policy wording in CS8.4 (Biodiversity and Geodiversity) to protect sites and the supporting text highlights that development proposals should be accompanied by sufficient information to assess the effects of development on protected sites, species, biodiversity or geology, this should also take into consideration the indirect effects such as an increase in visitors may have, together with any proposed prevention, mitigation or compensation measures. It should be noted that CS8.4 does not directly refer to European sites, but does refer to national, regional and local sites, with most European sites having an underpinning national SSSI designation.
- In CS8.5 Coast policy wording identifies the need to conserve and enhance biodiversity and protect wildlife habitats. The wording identifies that access to the beach and foreshore of Morecambe Bay needs to be controlled to prevent damage to habitats and disturbance, through measures such as restrictions on parking and vehicle access in sensitive areas and there is also a requirement to provide information to encourage responsible recreation use and help visitors to understand the special features of the protected sites of Morecambe Bay.
- 6.17 Water issues are highlighted in paragraph 3.29 of the Core Strategy where:

"Increases in housing and employment land will put pressure on the existing sewage network and wastewater treatment works in Kendal. The Environment Agency has highlighted two areas where there are sewer capacity issues: Kentrigg Walk and Steeles Row, Burneside. In addition, it has concerns about the capacity of the Waste Water Treatment Works, located to the south of Kendal. A lack of sewage capacity at these locations may increase the incidence of sewage discharge to the River Kent and have an adverse affect on the specifies for which the river is designated a SAC. Measures are needed to avoid/mitigate these adverse effects and protect the health and wellbeing of local people."

6.18 Section 4 of this HRA report provides an update on mitigation measures that are relevant to the Development Management DPD. Water quality issues are particularly pertinent further discussions with United Utilities have been

undertaken to inform this HRA report. Section 4 will be amended to reflect those discussions in the next iteration of this report.

As part of the work on the HRA of this DPD, Natural England provided some informal comment and this included reference to the relevant SIPs, which have been considered where relevant within this updated HRA report. Natural England also indicated that they would expect the HRA to reflect South Lakeland Council's involvement with aspects of the SIP that are relevant to the Local Plan and planned growth. Liaison with Natural England has been undertaken to inform this HRA report. Section 4 will be amended to reflect those discussions in the next iteration of this report, particularly relating to air quality and NO2 and recreation, and also the work of the Morecambe Bay Partnership.



7. Summary and Next Steps

- 7.1 This HRA concludes that the Development Management Policies DPD can be screened out from likely significant effects with the recommendations for policy wording made in the last column of Table 6. The recommendations have been made whilst considering a draft of the Publication version of the plan, and discussion with the Council is enabling those recommendations to be made for the final Publication version of the DPD. The adopted Development Management Policies DPD will need to be compliant with the Habitats Regulations in its final form, and further HRA work may therefore be required in light of modifications after Examination. The recommendations made in the screening assessment to date have allowed positive progression towards being able to draw a legislation compliant conclusion for the final DPD.
- 7.2 Importantly, the Core Strategy and Land Allocations HRA mitigation measures must continue to be progressed as part of the Local Plan implementation as a whole. Discussions with United Utilities and Natural England have enabled a picture of the current situation to be developed to inform this HRA, and Section 4 will be amended to reflect those discussions for the next iteration of this HRA report.
- 7.3 Planning officers should be aware of mitigation requirements in order to maintain consistency from the HRAs completed at the plan level through to project level HRAs undertaken for the determination of planning applications. Continued liaison with Natural England for progressing matters in relation to recreation, air quality and NO2 impacts, and with United Utilities in relation to water quality should be an integral part of plan implementation and monitoring.

8. References

- Angold, P.G. (1997) The impact of a road upon adjacent heathland vegetation: effects on plant species composition. *Journal of Applied Ecology*, **34**, 409–417.
- Corney, P.M., Smithers, R.J., Kirby, J.S., Peterken, G.F., Le Duc, M.G. & Marrs, R.H. (2008) *The Impact of Development on Nearby Ancient Woodland*. Woodland Trust.
- Liley, D., Lake, S., Underhill-Day, J., Sharp, J., White, J., Hoskin, R., Cruickshanks, K. & Fearnley, H. (2010) *Welsh Seasonal Habitat Vulnerability Review*. Footprint Ecology / CCW.
- Liley, D., Underhill-Day, J., Panter, C., Marsh, P. & Roberts, J. (2015) *Morecambe Bay Bird Disturbance and Access Management Report*. Unpublished report by Footprint Ecology for the Morecambe Bay Partnership.
- Lowen, J., Liley, D., Underhill-Day, J. & Whitehouse, A.T. (2008) Access and Nature Conservation Reconciliation: supplementary guidance for England.
- Mcdonald, R.I., Forman, R.T.T., Kareiva, P., Neugarten, R., Salzer, D. & Fisher, J. (2009) Urban effects, distance, and protected areas in an urbanizing world. *Landscape and Urban Planning*, **93**, 63–75.
- McKinney, M.L. (2008) Effects of urbanization on species richness: A review of plants and animals. *Urban Ecosystems*, **11**, 161–176.
- Natural England. (2015) Atmospheric Nitrogen Theme Plan. Developing a Strategic Approach for England's Natura 2000 Sites.
- Saunders, C., Selwyn, J., Richardson, S., May, V. & Heeps, C. (2000) *A Review of the Effects of Recreational Interactions within UK European Marine Sites*. UK CEED & Bournemouth University.
- Treweek Environmental Consultants. (2012) *Appropriate Assessment of South Lakeland District Council's Land Allocations Development Plan Document, Proposed Submission Version*. Report for South Lakeland Council.
- Treweek Environmental Consultants Ltd. (2009) *South Lakeland District Council's Core Strategy Appropriate Assessment Report*. Report for South Lakeland Council.
- Underhill-Day, J.C. (2005) *A Literature Review of Urban Effects on Lowland Heaths and Their Wildlife*. English Nature, Peterborough.

Appendix 1 - The Habitats Regulations Assessment Process

- 8.1 The designation, protection and restoration of European wildlife sites is embedded in the Conservation of Habitats and Species Regulations 2010, as amended, which are commonly referred to as the 'Habitats Regulations.' Recent amendments to the Habitats Regulations were made in 2012. The recent amendments do not substantially affect the principles of European site assessment as defined by the 2010 Regulations, and which forms the focus of this report.
- The Habitats Regulations are in place to transpose European legislation set out within the Habitats Directive (Council Directive 92/43/EEC), which affords protection to plants, animals and habitats that are rare or vulnerable in a European context, and the Birds Directive (Council Directive 2009/147/EC), which originally came into force in 1979, and which protects rare and vulnerable birds and their habitats. These key pieces of European legislation seek to protect, conserve and restore habitats and species that are of utmost conservation importance and concern across Europe. Although the Habitats Regulations transpose the European legislation into domestic legislation, the European legislation still directly applies, and in some instances, it is better to look to the parent Directives to clarify particular duties and re-affirm the overarching purpose of the legislation.
- European sites include Special Areas of Conservation (SACs) designated under the Habitats Directive and Special Protection Areas (SPAs) classified under the Birds Directive. The suite of European sites includes those in the marine environment as well as terrestrial, freshwater and coastal sites. European sites have the benefit of the highest level of legislative protection for biodiversity. Member states have specific duties in terms of avoiding deterioration of habitats and species for which sites are designated or classified, and stringent tests have to be met before plans and projects can be permitted, with a precautionary approach embedded in the legislation, i.e. it is necessary to demonstrate that impacts will not occur, rather than they will. The overarching objective is to maintain sites and their interest features in an ecologically robust and viable state, able to sustain and thrive into the long term, with adequate resilience against natural influences. Where sites are not achieving their potential, the focus should be on restoration.
- 8.4 The UK is also a contracting party to the Ramsar Convention, which is a global convention to protect wetlands of international importance, especially those wetlands utilised as waterfowl habitat. In order to ensure compliance with the requirements of the Convention, the UK Government expects all competent authorities to treat listed Ramsar sites as if they are part of the suite of

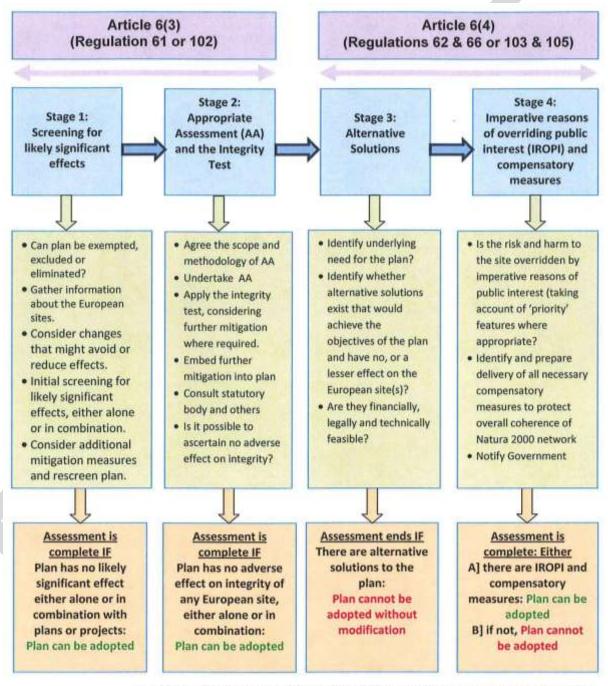
designated European sites, as a matter of government policy, as set out in Section 118 of the National Planning Policy Framework. Most Ramsar sites are also a SPA or SAC, but the Ramsar features and boundary lines may vary from those for which the site is designated as a SPA or SAC.

- 8.5 It should be noted that in addition to Ramsar sites, the National Planning Policy Framework also requires the legislation to be applied to potential SPAs and possible SACs, and areas identified or required for compensatory measures where previous plans or projects have not been able to rule out adverse effects on site integrity, yet their implementation needs meet the exceptional tests of Regulation 62 of the Habitats Regulations, as described below.
- The step by step process of HRA is summarised in the diagram below. Within the Habitats Regulations, local planning authorities, as public bodies, are given specific duties as 'competent authorities' with regard to the protection of sites designated or classified for their species and habitats of European importance. Competent authorities are any public body individual holding public office with a statutory remit and function, and the requirements of the legislation apply where the competent authority is undertaking or implementing a plan or project, or authorising others to do so. Regulation 61 of the Habitats Regulations sets out the HRA process for plans and projects, which includes development proposals for which planning permission is sought. Additionally, Regulation 102 specifically sets out the process for assessing emerging land use plans.
- 8.7 The step by step approach to HRA is the process by which a competent authority considers any potential impacts on European sites that may arise from a plan or project that they are either undertaking themselves, or permitting an applicant to undertake. The step by step process of assessment can be broken down into the following stages, which should be undertaken in sequence:
 - Check that the plan or project is not directly connected with or necessary for the management of the European site
 - Check whether the plan or project is likely to have a significant effect on any European site, from the plan or project alone
 - Check whether the plan or project is likely to have a significant effect on any European site, from the plan or project in-combination with other plans or projects
 - Carry out an Appropriate Assessment
 - Ascertain whether an adverse effect on site integrity can be ruled out
- 8.8 Throughout all stages, there is a continual consideration of the options available to avoid and mitigate any identified potential impacts. For projects, the project proposer may identify potential issues and incorporate particular avoidance measures to the project, which then enables the competent authority to rule out

the likelihood of significant effects. A competent authority may however consider that there is a need to undertake further levels of evidence gathering and assessment in order to have certainty, and this is the Appropriate Assessment stage. At this point the competent authority may identify the need to add to or modify the project in order to adequately protect the European site, and these mitigation measures may be added through the imposition of particular restrictions and conditions.

- For plans, the stages of HRA are often quite fluid, with the plan normally being prepared by the competent authority itself. This gives the competent authority the opportunity to repeatedly explore options to prevent impacts, refine the plan and rescreen it to demonstrate that all potential risks to European sites have been successfully dealt with.
- When preparing a plan, a competent authority may therefore go through a continued assessment as the plan develops, enabling the assessment to inform the development of the plan. For example, a competent authority may choose to pursue an amended or different option where impacts can be avoided, rather than continue to assess an option that has the potential to significantly affect European site interest features.
- After completing an assessment, a competent authority should only approve a project or give effect to a plan where it can be ascertained that there will not be an adverse effect on the integrity of the European site(s) in question. In order to reach this conclusion, the competent authority may have made changes to the plan, or modified the project with restrictions or conditions, in light of their Appropriate Assessment findings.
- 8.12 Where adverse effects cannot be ruled out, there are further exceptional tests set out in Regulation 62 for plans and projects and in Regulation 103 specifically for land use plans. Exceptionally, a plan or project could be taken forward for imperative reasons of overriding public interest where adverse effects cannot be ruled out and there are no alternative solutions. It should be noted that meeting these tests is a rare occurrence and ordinarily, competent authorities seek to ensure that a plan or project is fully mitigated for, or it does not proceed.
- In such circumstances where a competent authority considers that a plan or project should proceed under Regulations 62 or 103, they must notify the relevant Secretary of State. Normally, planning decisions and competent authority duties are then transferred, becoming the responsibility of the Secretary of State, unless on considering the information, the planning authority is directed by the Secretary of State to make their own decision on the plan or project at the local level. The decision maker, whether the Secretary of State or the planning authority, should give full consideration to any proposed

'overriding reasons' for which a plan or project should proceed despite being unable to rule out adverse effects on European site interest features, and ensure that those reasons are in the public interest and are such that they override the potential harm. The decision maker will also need to secure any necessary compensatory measures, to ensure the continued overall coherence of the European site network if such a plan or project is allowed to proceed.



Extract from The Habitats Regulations Assessment Handbook, www.dtapublications.co.uk
© DTA Publications Limited (September) 2013 all rights reserved
This work is registered with the UK Copyright Service

Figure 1: Outline of the assessment of plans under the Habitat Regulations

Appendix 2 – European Site Conservation Objectives

- As required by the Directives, 'Conservation Objectives' have been established by Natural England, which should define the required ecologically robust state for each European site interest feature. All sites should be meeting their conservation objectives. When being fully met, each site will be adequately contributing to the overall favourable conservation status of the species or habitat interest feature across its natural range. Where conservation objectives are not being met at a site level, and the interest feature is therefore not contributing to overall favourable conservation status of the species or habitat, plans should be in place for adequate restoration.
- 8.15 Natural England has embarked on a project to renew all European site Conservation Objectives, in order to ensure that they are up to date, comprehensive and easier for developers and consultants to use to inform project level HRA s in a consistent way. In 2012, Natural England issued now a set of generic European site Conservation Objectives, which should be applied to each interest feature of each European site. These generic objectives are the first stage in the project to renew conservation objectives, and the second stage, which is to provide more detailed and site-specific information for each site to support the generic objectives, is now underway.
- The new list of generic Conservation Objectives for each European site includes an overarching objective, followed by a list of attributes that are essential for the achievement of the overarching objective. Whilst the generic objectives currently issued are standardised, they are to be applied to each interest feature of each European site, and the application and achievement of those objectives will therefore be site specific and dependant on the nature and characteristics of the site. The second stage, provision of the more supplementary information to underpin these generic objectives, will provide much more site-specific information, and this detail will play a fundamental role in informing HRAs, and importantly will give greater clarity to what might constitute an adverse effect on a site interest feature.
- 8.17 In the interim, Natural England advises that HRAs should use the generic objectives and apply them to the site-specific situation. This should be supported by comprehensive and up to date background information relating to the site.
- 8.18 For SPAs, the overarching objective is to:
- 8.19 'Avoid the deterioration of the habitats of qualifying features, and the significant disturbance of the qualifying features, ensuring the integrity of the site is

maintained and the site makes a full contribution to achieving the aims of the Birds Directive.'

- 8.20 This is achieved by, subject to natural change, maintaining and 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 populations of the qualifying features.
 - The distribution of the qualifying features within the site.
- 8.21 For SACs, the overarching objective is to:

'Avoid the deterioration of the qualifying natural habitats and the habitats of qualifying species, and the significant disturbance of those qualifying species, ensuring the integrity of the site is maintained and the site makes a full contribution to achieving Favourable Conservation Status of each of the qualifying features.'

- 8.22 This is achieved by, subject to natural change, maintaining and restoring:
 - The extent and distribution of the qualifying natural habitats and habitats of qualifying species.
 - The structure and function (including typical species) of qualifying natural habitats and habitats of qualifying species.
 - The supporting processes on which qualifying natural habitats and habitats of qualifying species rely.
 - The populations of qualifying species.
 - The distribution of qualifying species within the site.
- 8.23 Conservation objectives inform any HRA of a plan or project, by identifying what the interest features for the site should be achieving, and what impacts may be significant for the site in terms of undermining the site's ability to meet its conservation objectives.

Appendix 3 - Conservation Interest of European Sites

- 8.24 The following European sites are taken from an initial search of 10km radius of the South Lakeland Local Plan area:
 - Asby Complex SAC
 - Duddon Mosses SAC
 - Duddon Estuary Ramsar (see also Morecambe Bay)
 - Ingleborough Complex SAC
 - Lake District High Fells SAC
 - Leighton Moss SPA/Ramsar
 - Morecambe Bay SPA/ SAC/Ramsar /Morecambe Bay and Duddon Estuary SPA
 - Morecambe Bay Pavements SAC
 - Naddle Forest SAC
 - North Pennine Dales Meadows SAC
 - North Pennine Moors SPA/SAC
 - River Eden SAC
 - River Kent SAC
 - Roudsea Wood & Mosses SAC
 - Shell Flat and Lune Deep SAC
 - Subberthwaite, Blawith & Torver Low Commons SAC
 - Witherslack Mosses SAC
 - Yewbarrow Woods SAC
- The interest features for each European site designation are listed below (Table 7). The overarching Conservation Objectives set out in Appendix 2 should be applied to each of these interest features. As noted in Appendix 2, detailed supplementary information for each interest feature will be developed as part of the Conservation Objectives in due course. Further detailed description of each interest feature in terms of its characteristics within the individual European site is provided on the JNCC website. Four figure reference numbers are the EU reference numbers given to each habitat and species listed within the Annexes of the European Directives.

Table 7: European sites where at least part of the site boundary falls within a 10km radius of the plan area. Sites listed in italics are those that are within 10km but are outside the plan area. Annex I priority habitats are denoted by an asterisk (*). Information is from site citations, information sheets, conservation objectives and site improvement plans (IPENS) retrieved from the NE and JNCC websites in April 2016. Specific objectives are given for sites for which additional supplementary guidance is available.

Asby Complex SAC	Qualifying features	Conservation objectives	Issues and threats			
A suite of upland sites supporting a rich mosaic of heathland with calcareous grassland, alkaline flushes and limestone pavement, important for a rare assemblage of vascular plants associated with the grassland, flushes and pavement and for upland breeding birds. Much of the site comprises common land or large upland allotments where the main land management is sheep grazing and some sporting management.						
http://publications.naturalengland.or g.uk/publication/5510512787849216 http://publications.naturalengland.or g.uk/publication/4873120351518720	 H3140. Hard oligomesotrophic waters with benthic vegetation of Chara spp.; Calcium-rich nutrient-poor lakes, lochs and pools H4030. European dry heaths H6210. Semi-natural dry grasslands and scrubland facies: on calcareous substrates (Festuco-Brometalia); Dry grasslands and scrublands on chalk or limestone H6410. Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae); Purple moor-grass meadows 	**Standard SAC objectives	 Inappropriate grazing – localised over-grazing by sheep, increased cattle grazing needed Impacts on hydrology from abstraction poorly understood Inappropriate supplementary feeding of stock in winter Sources of diffuse pollution poorly understood Nitrogen deposition exceeds site relevant critical loads. Public access/disturbance identified as a threat if National Park extension increases public profile of site Invasive species and fish stocking identified as a threat 			

 H7210. Calcareous fens with Cladium mariscus and species of the Caricion davallianae; Calcium-rich fen dominated by great fen sedge (saw sedge)* H7220. Petrifying springs with tufa formation (Cratoneurion); Hard-water springs depositing lime* H7230. Alkaline fens; Calcium-rich springwaterfed fens H8240. Limestone pavements* S1013. Vertigo geyeri; Geyer's whorl snail S1393. Drepanocladus (Hamatocaulis) vernicosus; Slender green feather-moss 	

Duddon Mosses SAC	Qualifying features	Conservation objectives	Issues and threats
A series of lowland raised bogs within	a predominantly intensively manag	ged agricultural landscape.	
http://publications.naturalengland.org.uk /publication/5497657652936704	 H7110. Active raised bogs* 	 Restore the H7110 feature over the whole site Ensure the component vegetation communities of 	 Hydrological impacts of historic peat cutting and drainage have ongoing impacts

http://publications.naturalengland.or
g.uk/publication/5667921359536128

 H7120. Degraded raised bogs still capable of natural regeneration

- the H7110 feature are referable to and characterised by specified bog/mire vegetation communities
- Restore the abundance of specified invertebrate, bird, reptile, bryophyte dwarf shrub species
- Restore natural hydrological processes to provide the conditions necessary to sustain H7110 feature within the site
- Maintain the surface water and groundwater supporting the hydrology of the H7110 feature at a low nutrient status
- Restore the properties of the underlying peat
- Restore the H7110
 feature's ability, and that
 of its supporting
 processes, to adapt or
 evolve to wider
 environmental change

- Work to raise water table needs to be continued
- Mechanism required for management of land with unknown ownership
- Tree and scrub clearance and removal of Rhododendron needs to be continued
- Nitrogen deposition exceeds site critical loads (but any impacts are currently masked by unfavourable hydrology)

Leighton Moss SPA, Ramsar	Qualifying features	Conservation objectives	Issues and threats
Leighton Moss SPA, Ramsar Leighton Moss SPA supports the larges populations of Bittern and but the diverse services of Bittern and Bitter	st reedbed in north west England.T	he reedbeds and associated open	 Nutrient enrichment of groundwater from manure and slurry, inorganic fertilisers and septic tanks in the catchment Water levels in summer are too high (due to high
	biogeographical region. The reedbeds are of particular importance as a northern outpost for breeding populations of		rainfall events and a constrained outflow) resulting in increased 'reed hover', reed dieback and difficulty

Morecambe Bay & Duddon Estuary	Qualifying features	Conservation objectives	Issues and threats

Morecambe Bay is a large embayment fed by the estuaries of the rivers Wyre, Lune, Kent, Keer, Leven and Duddon Estuary. It is one of the largest areas of intertidal flats in Britain and includes shallow subtidal sands, tide-washed channels (including the unique feature of Lune Deep) and rocky scars of glacially derived material. It comprises large shallow inlets and bays and intertidal mudflats and sandflats, glasswort and other annuals colonising mud and sand, saltmarshes, sand dunes and vegetated shingle communities. It is a component in the chain of west coast estuaries of outstanding importance for wintering and migratory waders and wildfowl along the east Atlantic flyway from breeding grounds in the Arctic.

Morecambe Bay SAC

http://publications.naturalengland.or g.uk/publication/5314736417669120 • H1110. Sandbanks which are slightly covered by

**Standard SAC objectives

• Public access and recreational disturbance

Bay

Morecambe Bay & Duddon Estuary	Qualifying features	Conservation objectives	Issues and threats
http://publications.naturalengland.or g.uk/publication/6708495835463680	sea water all the time; Subtidal sandbanks H1130. Estuaries H1140. Mudflats and sandflats not covered by seawater at low tide; Intertidal mudflats and sandflats H1150. Coastal lagoons* H1160. Large shallow inlets and bays H1170. Reefs H1220. Perennial vegetation of stony banks; Coastal shingle vegetation outside the reach of waves H1310. Salicornia and other annuals colonising mud and sand; Glasswort and other annuals colonising mud and sand H1330. Atlantic salt meadows (Glauco-Puccinellietalia maritimae)		 Nitrogen deposition exceeds the site-relevant critical load for ecosystem protection therefore there is a risk of harmful effects (but sensitive features are currently in favourable condition) Diffuse pollution and/or uncontrolled release of pollutants from terrestrial sources could alter or damage habitats and species breeding success of terns and gulls around South Walney, Foulney and Chapel Island (also Eider ducks) has been adversely affected by predation by foxes, badgers and rats Non-native species such as Rosa Rugosa Japanese Rose are encroaching

Morecambe Bay & Duddon Estuary	Qualifying features	Conservation objectives	Issues and threats
	H2110. Embryonic shifting dunes		upon sand dunes around Barrow in Furness • Research needed to ascertain whether the continued decline in
Morecambe Bay & Duddon Estuary SPA, http://publications.naturalengland.or g.uk/publication/6242841537806336 http://publications.naturalengland.or g.uk/publication/3101791 http://publications.naturalengland.or g.uk/publication/6708495835463680	 SPA: A040 Anser brachyrhynchus; Pink- footed goose (Non- breeding) A048 Tadorna tadorna; Common shelduck (Non- breeding) A054 Anas acuta; Northern pintail (Non-breeding) A130 Haematopus ostralegus; Eurasian oystercatcher (Non- breeding) A137 Charadrius hiaticula; Ringed plover (Non- breeding) A141 Pluvialis squatarola; Grey plover (Non-breeding) A143 Calidris canutus; Red knot (Non-breeding) 	**Standard SPA objectives	 breeding and overwintering bird numbers may be linked to mussel fisheries and competition for food Unknown impact of habitat change (and potential introduction of invasive species) through anticipated creation of mussel fisheries Increased/improved grazing needed on sand dunes to prevent scrub encroachment and maintain habitat Greater monitoring and potential eradication programme for invasive alien species needed

Morecambe Bay & Duddon Estuary	Qualifying features	Conservation objectives	lssues and threats
	 A149 Calidris alpina alpina; Dunlin (Non-breeding) A157 Limosa lapponica; Bartailed godwit (Non-breeding) A160 Numenius arquata; Eurasian curlew (Non-breeding) A162 Tringa totanus; Common redshank (Non-breeding) A169 Arenaria interpres; Ruddy turnstone (Non-breeding) A191 Sterna sandvicensis; Sandwich tern (Breeding) Waterbird assemblage Seabird assemblage Additional Qualifying Features A026 Egretta garzetta; Little egret (Non-breeding) A038 Cygnus cygnus; Whooper swan (Non-breeding) 		 Changed conditions at Cavendish dock following closure of power station means likely loss of locally rare and distinctive Ruppia Physical modification through drain clearance and de-silting of saltmarsh channels; dredging and modification of natural saltmarsh creeks and deposition of dredged material on marshes changes the local characteristics of the marsh flora better consideration/ awareness of marine and coastal impacts during assessment of planning applications (terrestrial element of development)

Morecambe Bay & Duddon Estuary	Qualifying features	Conservation objectives	Issues and threats
	 A140 Pluvialis apricaria; European golden plover (Non-breeding) A144 Calidris alba; Sanderling (Non-breeding) A151 Philomachus pugnax; Ruff (Non-breeding) A156 Limosa limosa islandica; Black-tailed godwit (Non-breeding) A176 Larus melanocephalus; Mediterranean gull (Non-breeding) A183 Larus fuscus; Lesser black-backed gull (Non-breeding) A183 Larus fuscus; Lesser black-backed gull (Breeding) A184 Larus argentatus; Herring gull (Breeding) A193 Sterna hirundo; Common tern (Breeding) A195 Sterna albifrons; Little tern (Breeding) 		for wind farm cables/oil and gas pipelines needed Where management of fisheries is introduced to safeguard N2K site features, ongoing work to ensure compliance and reporting is needed Unclear whether bird declines are national or local, whether it is an anthropogenic problem, and whether the birds have relocated elsewhere. There is a decline in the population of SPA gulls whilst urban gull numbers are increasing. This is leading to the increase in use of general licences, which are not regulated. Bird eggs taken from breeding colonies,
Morecambe Bay Ramsar, Duddon Estuary Ramsar	 Ramsar criterion 4: The site is a staging area for 		particularly Hodbarrow and South Walney for

Morecambe Bay & Duddon Estuary	Qualifying features	Conservation objectives	Issues and threats
http://jncc.defra.gov.uk/pdf/RIS/UK1 1045.pdf http://publications.naturalengland.or g.uk/publication/6708495835463680	migratory waterfowl including internationally important numbers of passage ringed plover Charadrius hiaticula Ramsar criterion 5: Assemblages of international importance: Species with peak counts in winter: 223709 waterfowl (5 year peak mean 1998/99-2002/2003) Qualifying Species/populations (as identified at designation): 1. Species regularly supported during the breeding season: Lesser black-backed gull Larus fuscus graellsii Herring gull Larus argentatus Sandwich tern Sterna (Thalasseus) sandvicensis sandvicensis		ground nesting seabirds – long term wardens needed.

Morecambe Bay & Duddon Estuary	Qualifying features	Conservation objectives	Issues and threats
	 Great cormorant <i>Phalacrocorax carbo carbo</i> Common shelduck <i>Tadorna tadorna</i> Northern pintail <i>Anas acuta</i> Common eider <i>Somateria mollissima</i> Eurasian oystercatcher <i>Haematopus ostralegus</i> Ringed plover <i>Charadrius hiaticula</i> Grey plover <i>Pluvialis squatarola</i> Sanderling <i>Calidris alba</i> Eurasian curlew <i>Numenius arquata</i> Common redshank <i>Tringa totanus</i> Ruddy turnstone <i>Arenaria interpres</i> Lesser black-backed gull Larus fuscus graellsii 		
	 2. Species with peak counts in winter: Great crested grebe Podiceps cristatus 		

Morecambe Bay & Duddon Estuary	Qualifying features	Conservation objectives	Issues and threats
	 Pink-footed goose Anser brachyrhynchus Eurasian wigeon Anas penelope Common goldeneye Bucephala clangula Red-breasted merganser Mergus serrator European golden plover Pluvialis apricaria Northern lapwing Vanellus vanellus Red knot Calidris canutus islandica Dunlin Calidris alpina alpina Bar-tailed godwit Limosa lapponica lapponica 		

Morecambe Bay Pavements SAC	Qualifying features	Conservation objectives	lssues and threats
Includes the best British example of lowland limestone pavements, extensive areas of upland calcareous grassland and broadleaved woodlands (both ash and yew) plus an exemplar calcareous lowland lake, extensive Juniper and a population of narrow-mouthed whorl snail.			
	• H7210 . Calcareous fens with <i>Cladium mariscus</i>		 Cattle grazing needed on calcareous grasslands where grazing is

Morecambe Bay Pavements SAC	Qualifying features	Conservation objectives	Issues and threats
	 and species of the Caricion davallianae H8240 . Limestone pavements H5130. Juniperus communis formations on heaths or calcareous grasslands S1014. Vertigo angustior: Narrow-mouthed whorl snail H6210 Semi-natural dry grasslands and scrubland facies: on calcareous substrates (Festuco-Brometalia) H91A0. Old sessile oak woods with Ilex and Blechnum in the British Isles H4030. European dry heaths H9180 . Tilio-Acerion forests of slopes, screes and ravines H91J0 . Taxus baccata woods of the British Isles 		inappropriate (none/sheep only) Difficulties on areas that are commons in setting up Commons Partnerships and getting community agreement on management Lack of grazing/difficulties in scrub management has led to scrub encroachment – some large scale scrub removal needed Management and monitoring following ongoing clearance of old plantations needed (particularly balance between woodland and open priority habitats) Strategic deer control/fencing may be needed where deer browsing is preventing tree regeneration or

Morecambe Bay Pavements SAC	Qualifying features	Conservation objectives	Issues and threats
	H3140 Hard oligo-mesotrophic waters with benthic vegetation of Chara spp.		affecting ground flora and emergent vegetation in limestone pavement grikes. • Localised damage due to motorbike and off-road bikes illegalliy accessing land; issues with pedestrian trampling along desire lines and sheep-worrying by dogs • Phytophthora austrocedrae is killing Juniper • Inappropriate game management practices are inputting nutrients into small water bodies within the site • Agricultural diffuse pollution, and also point source issues (septic tanks) are contributing to raised phosphate levels within the tarns • Use of fertiliser has reduced the species

Morecambe Bay Pavements SAC	Qualifying features	Conservation objectives	lssues and threats
			richness of the grass sward as it favours competitive species, both historically and recently particulary at site margins where boundaries are indistinct • Weak economic incentives for traditional woodland management are weak - and coppicing may not be carried out in the long term

River Kent SAC	Qualifying features	Conservation objectives	Issues and threats
The River Kent SAC is the only major river system in England where populations of white-clawed crayfish can still be found throughout the catchment wherever there are suitable habitats. It also supports freshwater mussels, <i>Margaritifera margaritifera</i> in one of the upper tributaries and Bullhead <i>Cottus gobio</i> and floating vegetation dominated by water-crowfoot.			
http://publications.naturalengland.org. uk/publication/5256393649029120 http://publications.naturalengland.org. uk/publication/6050544158244864	 H3260. Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho- Batrachion vegetation; Rivers with floating 	**Standard SAC objectives	 Diffuse water pollution is causing issues with levels of nutrients and suspended solids in some tributaries, affecting all lifecycle stages of key species

River Kent SAC	Qualifying features	Conservation objectives	Issues and threats
	vegetation often dominated by water- crowfoot • \$1029. Margaritifera margaritifera; Freshwater pearl mussel • \$1092. Austropotamobius pallipes; White-clawed (or Atlantic stream) crayfish • \$1163. Cottus gobio; Bullhead		 Increased sediment supply from land management practices, bankside erosion due to inappropriate grazing and extensive, often unstable mine spoil in the upper catchment is contributing to downstream siltation and gravel accumulation. Physical modifications such as channel alignment, weirs and extensive artificial reinforcement of banks are affecting the way the river system functions by changing river flows and altering the way sediment is sourced, transferred and deposited. Modifications also reduce the connectivity of the river with the floodplain. Himalayan balsam and Japanese knotweed have

River Kent SAC	Qualifying features	Conservation objectives	Issues and threats
			become established along the River Kent and tributaries, contributing to bank erosion and displacing native species. • Signal crayfish are the vector for Aphanomyces astaci which causes crayfish plague in the native white-clawed crayfish. it can also be transferred in water and mud containing the Aphanomyces astaci zoospores. Signal crayfish are presently absent from the River Kent SAC, but the threat remains. • The freshwater mussel population has experienced a significant decline with no recent recruitment. A major cause is thought to be elevated nutrient levels and siltation of riverbed

Qualifying features	Conservation objectives	Issues and threats
		substrates preventing juvenile recruitment.
	Qualifying features	Qualifying features Conservation objectives

			juvenile recruitment.	
Roudsea Wood & Mosses SAC	Qualifying features	Conservation objectives	Issues and threats	
A range of habitats includes woodland and lowland raised bog, and transitions between them as well as a number of rare and scare species. The bog lies in two hydrologically separate blocks and has been damaged by historic peat cutting and drainage of the surrounding land. Work to repair the hydrology is ongoing. The woodland is partly on limestone and partly on acidic substrates. Yew occurs both as dense groves and as scattered trees in the understorey of Ash or Ash-Elm <i>Fraxinus-Ulmus</i> woodland				
http://publications.naturalengland.org. uk/publication/4769567880511488 http://publications.naturalengland.org. uk/publication/4769567880511488	 H7120 Degraded raised bogs still capable of natural regeneration H7110* Active raised bogs H9180* Tilio-Acerion forests of slopes, screes and ravines H91J0* Taxus baccata woods of the British Isles 	Supplementary advice available: http://publications.naturalengland.org.uk/publication/51613251519119 36	 Due to past peat cutting and drainage in preparation for cutting, plus subsequent colonisation by trees and rhododendron, the water table on the bog is too low to conserve the peat resource and support bog vegetation in the long term Parts of the site are affected by invasive plant species - Rhododendron is invasive, can cover large areas and smothers 	

Roudsea Wood & Mosses SAC	Qualifying features	Conservation objectives	Issues and threats
			bog vegetation as well as preventing rainfall from reaching the peat. <i>Kalmia angustifolia</i> is also potentially invasive • Scrub and tree growth on the bog affects the vegetation and peat through transpiration, interception of rainwater and shading; scrub control is necessary to prevent this • Deer browsing makes it necessary to fence coppice coupes and canopy gaps to allow regeneration, meaning that it is not possible to manage certain parts of the wood • A conifer plantation on part of the bog has completely shaded out the bog vegetation and is likely to lower the water table

Roudsea Wood & Mosses SAC	Qualifying features	Conservation objectives	Issues and threats
			 N deposition exceeds site critical loads; any effects are masked on the bog by unfavourable hydrology. Chalara disease of ash is likely to become an issue in the future and may adversely affect the woodland through death of ash trees



Subberthwaite, Blawith & Torver Low Commons SAC	Qualifying features	Conservation objectives	Issues and threats	
This site supports some of the best examples of transition mires and quaking bogs in the UK, with over 200 mires on a broad hilly plateau. Four main types of mire occur within the site. Valley mires (peatlands with a central watercourse) are the most important, and the area contains the greatest concentration and extent of the habitat in Cumbria. Basin mires (developed in rock basins, with no stream), flushes (wet hillside mires) and swamps (found on tarn edges) are also present. A large variety of different plant communities occur in these mires, sometimes in mosaics or showing transitions to other habitats such as tarns.				
http://publications.naturalengland.org.uk/publication/58993876328775688 http://publications.naturalengland.org.uk/publication/6537940905754624	 H7140 Transition mires and quaking bogs H7150 Depressions on peat substrates of the Rhynchosporion 	**Standard SAC objectives	 Historic anthropogenic modification of the SAC features (principally drainage) have altered the underlying hydrology cuasing drying and degradation of the features Currently there is no agrienvironment agreement in place, which would ensure appropriate grazing and nutrient input restrictions Atmospheric nitrogen deposition currently exceeds the site-relevant critical load for ecosystem protection 	

- The site experiences a high annual footfall, potentially damaging the SAC features through littering, noise pollution, footpath erosion, and disturbance of ground flora and fauna by dogs
- Illegal use of this site for off-road vehicles could directly damage the surface of the SAC features
- Deer browsing and wallowing appears to be damaging the surface of the SAC features and no management decisions have yet been made regarding their control
- Diffuse water pollution stemming from intensively farmed holdings within the surrounding catchment. may be enhancing the nutrient regime of the site and altering the

composition of the habitats

• Alterations in temperature and rainfall patterns and carbon dioxide concentrations as a result of climatic change may negatively impact upon the SAC features

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.

^{**}Standard SAC/SPA objectives are: With regard to the SAC/SPA and the natural habitats and/or species/ individual species and/or assemblage of species for which the site has been designated (the 'Qualifying Features' listed above for each site), and subject to natural change;

