#### Habitat Regulations Assessment Minerals and Waste Local Plan (Preferred Options)

# 1. Introduction

## Requirement for Habitat Regulations Assessment

Under the provisions of European Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora (the Habitats Directive)<sup>1</sup>, transposed into British law by Regulation 102 of the Conservation of Habitats and Species Regulations 2010<sup>2</sup>, a Habitat Regulations Assessment (HRA) is required to assess the potential effects of a land-use plan against the conservation objectives of any European sites designated for their importance to nature conservation. These sites form a system of internationally important sites throughout Europe and are known collectively as the 'Natura 2000 network'. Article 2 of the Directive requires the maintenance or restoration of habitats and species of interest to the EU in a favourable condition.

European sites provide valuable ecological infrastructure for the protection of rare, endangered or vulnerable natural habitats and species of exceptional importance within the EU. These sites consist of Special Areas of Conservation (SAC), designated under the Habitats Directive and Special Protection Areas (SPA), designated under European Directive 2009/147/EC on the conservation of wild birds (the Birds Directive)<sup>3</sup>. Additionally, the National Planning Policy Framework (NPPF) at paragraph 118<sup>4</sup> requires that sites designated under the Ramsar Convention (The Convention on Wetlands of International Importance, especially as Waterfowl Habitat) are treated as if they are fully designated European sites for the purpose of considering development proposals that may affect them.

Article 6(3) of the Habitats Directive states that local authorities have a duty to ensure that all the activities they regulate have no adverse effect on the integrity of any of the Natura 2000 sites. Therefore, a HRA must assess the possible effects of proposed plans on any Natura 2000 sites. This includes screening for potential impacts on European sites. If there is a probability or a risk that there will be significant effects on site integrity, alone, or in-combination with other relevant plans or projects, (having regard to the site's conservation objectives) then the plan or project must be subject to an Appropriate Assessment of its implications on the site.

Depending on the outcome of the HRA, the local authority may need to amend the plan to eliminate or reduce potentially damaging effects on the European site. If adverse effects on the integrity of sites cannot be ruled out, the plan can only be adopted where there are no alternative solutions that would have a lesser effect and there are imperative reasons of overriding public interest sufficient to justify adopting the plan despite its effects on the European sites.

<sup>&</sup>lt;sup>1</sup> Directive 92/43/EEC on the Conservation of Natural Habitats and Wild Flora and Fauna: <u>http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:31992L0043</u>

<sup>&</sup>lt;sup>2</sup> Conservation of Habitats and Species Regulations 2010:

http://www.legislation.gov.uk/uksi/2010/490/regulation/41/made

<sup>&</sup>lt;sup>3</sup> European Directive 2009/147/EC on the conservation of wild birds (the Birds Directive): <u>http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32009L0147</u>

<sup>&</sup>lt;sup>4</sup> National Planning Policy Framework:

https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/6077/2116950.pdf

There are four stages to the Habitats Regulations Assessment as outlined in Table 1.1 below:

Table 1.1: HR	A stages
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Habitat Regulation	Purpose
Assessment - stage	
Screening exercise	The process which identifies the likely impacts upon a Natura 2000 or Ramsar site(s), either alone or in combination with other projects or plans and considers whether these impacts are likely to be significant
Appropriate Assessment	The consideration of the impact on the integrity of the site(s), either alone or in combination with other projects or plans, with respect to the site's structure and function and its conservation objectives. Where there are adverse impacts, an assessment of the potential mitigation of those impacts should be provided
Assessment of alternative solutions	The process which examines alternative ways of achieving the objectives of the project or plan that avoid adverse impacts on the integrity of the Natura 2000 and Ramsar site(s)
Compensatory measures	An assessment of the compensatory measures where, in light of an assessment of imperative reasons of overriding public interest, it is deemed that the plan should proceed. This is not a standard part of the process and will only be carried out in exceptional circumstances.

This document constitutes stage 1 of the assessment and screens the potential of the West Berkshire Minerals and Waste Local Plan for its likely effects, either alone or in combination.

## What is the West Berkshire Minerals and Waste Local Plan

The West Berkshire Minerals and Waste Local Plan will replace the existing saved minerals and waste planning policies as set out in the Replacement Minerals Local Plan for Berkshire (incorporating alterations) (2001) and the Waste Local Plan for Berkshire (1998).

The Minerals and Waste Local Plan will cover the period to 2036, setting out new policies to manage mineral and waste development in West Berkshire.

The Minerals and Waste Local Plan will be subject to a preferred options consultation between 19<sup>th</sup> May and 30<sup>th</sup> June 2017 which will set out the proposed policies to guide minerals and waste development in West Berkshire and will set out the shortlisted sites for allocation.

Following this consultation, a submission draft Minerals and Waste Local Plan will be produced, taking into account the outcomes of the consultation. This will then be submitted to the Secretary of State for examination, following a period of further consultation.

## Nature 2000 sites within West Berkshire

Within the boundaries of West Berkshire there are three designated SACs, and within 5km of the boundaries of West Berkshire, there are two SACs. While there is no SPA within West Berkshire, the south-eastern area of the District falls within the 5km boundary of the Thames Basin Heaths SPA. The 5km boundary has been determined by Natural England as a buffer area to regulate development near the SPA.

The map below shows the location of the SACs and the SPA buffers.



The **Kennet and Lambourn Floodplain SAC** is a composite site of approximately 114 hectares located within West Berkshire and Wiltshire. The cluster of sites selected in the Kennet and Lambourn valleys support one of the most extensive known populations of Desmoulin's whorl snail (*Vertigo moulinsiana*) in the UK. The conservation objective related to the sites' designation is to maintain in favourable condition, the habitat for the population of Desmoulin's whorl snail (*Vertigo moulinsiana*).

The **River Lambourn SAC** is a site of approximately 27 hectares located wholly within West Berkshire and consists of the River Lambourn water body. The Lambourn supports Bullhead (*Cottus gobio*) populations inhabiting chalk streams in central southern England. Good water quality, coarse sediments and extensive beds of submerged plants provide an excellent habitat for the species. The presence of Brook lamprey (*Lampetra planeri*) is also a qualifying feature of the site. The **Kennet Valley Alderwoods SAC** consists of two sites of approximately 56 hectares in total located within West Berkshire in the Kennet floodplain. Its general site characteristic is of broad leaved deciduous woodland. The woodlands are the largest remaining fragments of damp, ash-alder woodland in the Kennet floodplain area. The conservation of the site is dependent upon maintaining a constantly high groundwater level.

**Hartslock Wood** is a SAC located just outside the West Berkshire boundary in South Oxfordshire. **Hackpen Hill** is a 35.8 hectare SAC site located in the Vale of White Horse approximately 2km north of West Berkshire's border.

The **Thames Basin Heaths SPA** is a composite site covering an area of some 8,274 hectares, consisting of 13 Sites of Special Scientific Interest (SSSI) scattered from Hampshire in the west, to Berkshire in the north, through to Surrey in the south east. The site supports important breeding populations of a number of birds of lowland heath, especially Nightjar (*Caprimulgus europaeus*), Woodlark (*Lullula arborea*) and Dartford warbler (*Sylvia undata*). None of the SPA is located within the borders of West Berkshire; however the 5km buffer outlined by Natural England covers a small portion of West Berkshire's eastern area. The only settlement in West Berkshire that is within the 5km buffer is the village of Beech Hill (which is outside the District's settlement hierarchy where development will be focused). There are no additional settlements within the 5-7km buffer.

# 2. Description of the plan or project and description and characteristics of other plans or projects that in combination have the potential to have significant effects on the Natura 2000 site/s.

The West Berkshire Minerals and Waste Local Plan will set out the overall planning framework and vision for minerals and waste development in West Berkshire to 2036.

Authority	Plan, Policy or Proposal
Oxfordshire County Council	Minerals and Waste Local Plan provides
	a basis for policy and strategy for
	minerals and waste on a countywide
	basis.
Hampshire CC	Minerals and Waste Local Plan provides
	a basis for policy and strategy for
	minerals and waste on a countywide
	basis.
Wiltshire Council	Core Strategy; and
	Minerals and Waste Local Plan provides
	a basis for policy and strategy for
	minerals and waste on a countywide
	basis.
Vale of the White Horse	Core Strategy/Site Allocations
South Oxfordshire	Core Strategy/Site Allocations

Plans and projects from neighbouring authorities also need to be considered. The following is a list of relevant documents which may impact upon the SACs identified:

Basingstoke & Deane BC	Core Strategy
Reading BC	Core Strategy

For the Thames Basin Heaths SPA, the following plans and projects, in addition to those detailed above also need to be considered:

Authority	Plan, Policy or Proposal
Bracknell Forest BC	Core Strategy
Wokingham	Core Strategy
Hart District Council	Core Strategy
Central Berkshire (Bracknell Forest,	Emerging Central and Eastern Berkshire
Royal Borough of Windsor and	Joint Minerals and Waste Local Plan
Maidenhead, Wokingham and Reading)	

## 3. Identifying potential effects

This HRA screening report will determine whether the matters proposed for the West Berkshire Minerals and Waste Local Plan will raise any issues either alone or in combination with other plans and projects within West Berkshire or neighbouring areas. If the screening of the preferred options identifies potential effects, or there is uncertainty regarding potential effects, then further more detailed appropriate assessment is required.

The table below is a list of potential effects that the Minerals and Waste Local Plan, in combination with other plans, may have on the SAC sites and SPA sites.

Effect		Comment
Fragmentation of Habitat		Due to many years of urban and agricultural activities, the SACs and SPA are already fragments of habitat that have not been developed upon. Further development may have the effect of causing further fragmentation of habitats and/or severance or blocking of movement corridors.
Predation	Vermin	Waste sites have the potential to attract vermin which could impact on fauna species by predating on bird eggs and out-competing other species.
	Invasive species	This could affect the habitat structure of sites.
Hydrology – alternation / pollution / enrichment	Leachate	Contaminants can reach a habitat by leaching through soil and groundwater. Chemicals released in this manner could have a range of impacts depending on their source.
	Traffic	Vehicle movements to/from a site could lead to pollution on the road surface which could run-off and contaminate the habitats surrounding the road.
	Water use	Extraction of minerals and processing of minerals and/or waste can require large amounts of water which could result in the reduction of the natural water table or affect river levels which could impact on drying out of sites and changing of habitats.

	Water Pollution	Water pollution can result in a number of impacts on sensitive habitats including reducing the number of in-stream species, eutrophication and siltation.
	Groundwater	Infilling of worked minerals sites could impact on groundwater flow which could result in less water reaching certain sites.
Disturbance	Noise	This can disturb birds and other animal species, potentially disrupting breeding/feeding/roosting or causing migration. Noise can arise from processing on a site or from traffic movements to/from a site.
	Lighting	Provision of lighting at night time, or security lighting, can cause disturbance to birds, invertebrates and mammals using nearby habitats.
	Traffic	Vehicle movements to/from a site could increase level of disturbance through increased noise and vibration.
	Impact of building	Construction of buildings for minerals/waste processing could impact on birds by affecting take off/landing routes and increasing cover for predatory birds.
Air Pollution	Dust	Commonly created from minerals and waste sites. It can affect the growth of plants and pollute water courses.
	Traffic	Vehicle movements to/from a site can result in emissions which can impact on air pollution.
	Aerial Pollution	Waste management development can result in aerial pollution which can impact on flora and fauna.

# 4. Screening Tables

Site Name	Kennet and Lambourn Floodplain		
Site Designation	SAC		
Location of International Site	SU313704		
Description of International	Supports extensive population of Desmoulin's Whorl snail (Vertigo moulinsiana)		
Site			
	The site is predominately Reed Sweet-grass (Glyceria maxima) swamp of tall sedges at the river margins, in ditches and in depressions in wet meadows.		
Conservation Objectives of	Subject to natural change, to maintain, in favourable condition, the habitat for the population of		
International Site	European importance of Desmoulin's whorl snail (Vertigo moulinsiana)		
	Currently the majority of the site is in a favourable condition. Maintaining this condition is		
	dependent on minimising scrub incursion to wetland, fen and grassland habitats. Risks to the		
	declining condition stem from spread of invasive weeds, poor woodland and land management		
	and run-off effecting water quality.		
Aspects of the plan that could	Land bank / Need     Borrow Pits		
impact on International Site	Self-Sufficiency in Waste     Specialist Waste Management		
	Management		
	Restoration and after-use     Energy Minerals		
	Transport     Reworking of old landfill sites		
	Cumulative Impact     Temporary infrastructure (waste, construction		
	Minerals Safeguarding aggregate)		
	Waste Safeguarding     Permanent construction aggregate infrastructure		
	Location of Development		
	(construction aggregates,		
	waste management facilities,		
	landfill)		
Potential causes of significant	Vulnerability Details		
enects			
	International		
	site		

Fragmentation		Ν	No land take from protected sites will be required to deliver the objectives set out in the WBMWLP
Predation	Vermin	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because the Desmoulin's whorl snail is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
	Invasive species	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because the site is some distance from any potential sites, therefore, any potential hazards are unlikely to reach the SAC.
Hydrology	Leachate	Y	It is generally considered that clean water is a habitat requirement of the Desmoulin's whorl snail, although research undertaken in relation to this is limited. There is a risk that leachate from waste facilities may enter the water course and pollute the water making the habitat unsuitable for this species.
	Water use	Y	The Desmoulin's whorl snail requires permanently wet, usually calcareous, swamps, fens and marshes, boarding river, lakes and ponds, or in river floodplains. It is highly dependent on maintenance of existing hydrological conditions. If water hungry developments are located close to the SAC there is a risk that the requirement for large amount of water could lead to drying of the floodplain.
			However, it is understood that sites likely to come forward as part of the plan are located downstream of the SAC. Therefore, it is considered that there is no likely significant effect from the plan.
	Water pollution	Y	It is generally considered that clean water is a habitat requirement of the Desmoulin's whorl snail, although research undertaken in relation to this is limited. There is a risk that leachate from waste facilities, or an influx of nutrients may enter the watercourse and pollute the water, making the habitat unsuitable for this species.
			However, it is understood that sites likely to come forward as part of the plan are located downstream of the SAC. Therefore, it is considered that there is no likely significant effect from the plan.

	Groundwater	Y	Dewatering is a key process of the extraction of sand and gravel. This can have impacts on groundwater flows up to 2km from the extraction site. The Desmoulin's whorl snail requires permanently wet, usually calcareous, swamps, fens and marshes, boarding river, lakes and ponds, or in river floodplains. It is highly dependent on maintenance of existing hydrological conditions. However, it is understood that sites likely to come forward as part of the plan are located downstream of the SAC. Therefore, it is considered that there is no likely significant effect from the plan
Disturbance	Noise	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because the Desmoulin's whorl snail is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
	Lighting	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because the Desmoulin's whorl snail is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
	Traffic	N	The local area is already serviced by the A4. It is not anticipated that development would result in significant increases in traffic sufficient to cause likely significant effects on the SAC.
	Impact of building	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because the Desmoulin's whorl snail is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
	Vibration	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because the Desmoulin's whorl snail is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
Air Pollution	Dust	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because the Desmoulin's whorl snail is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.

	Traffic (inc. emissions)	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because the Desmoulin's whorl snail is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
			This risk is considered low as developments would be complying with Environment Agency guidelines, meaning that the chances of leachates escaping any facility are low.
Other Plans and projects	West Berkshi Core Strategy settlement hier Burghfield Corr Shefford, Com Lambourn SAC	<b>re Council</b> / Housing Site A rarchy (Urban Ar nmon, Mortimer pton, Chieveley C has areas in cl	<i>Illocations DPD</i> – deliver 10,500 new homes to 2026. Focus for housing is within the reas – Newbury, Thatcham, Eastern Urban Area, Rural Service Centres – , Theale, Pangbourne, Lambourn, Hungerford, Service Villages – Kintbury, Great , Hermitage, Cold Ash, Woolhampton, Bradfield Southend, Aldermaston). The River lose proximity to Newbury and Thatcham.
	Work has start the potential in	ed on developin npacts on protec	g a new Local Plan for West Berkshire, although as this is still at a very early stage ted sites are unknown. The new Local Plan will be subject to its own HRA.
	Hampshire Co Hampshire Min Sand and grav northern bound MWLP are the of the Kennet a 'Mineral Resou area (6 mineral sites also form	buntry Council nerals and Wast rel deposits clust dary and patchy deposits along and Lambourn F urces Areas' hav I extraction sites 'Landfill Potenti	e Plan (adopted 2013) tered in Hampshire are largely in the south east corner (New Forest Area) along the throughout the rest of the County. Of particular relevance to the West Berkshire the north Hampshire border around the Thames Basin Heaths SPA and within 5km Toodplain SAC. These mineral deposits are protected from other development. The been identified in the north east corner around the Thames Basin Healths SPA is within 500m, 3 mineral extraction sites between 500m and 2.5km). These same al Sites' showing they would have a more long-term use.
	It is expected t	hat developmen	t projects in north east Hampshire will accommodate waste management facilities.
	Wiltshire Cou Wiltshire and S	<b>ncil</b> Swindon Mineral	s Core Strategy (adopted 2009)

Minera landsca designa west ar	Mineral resources throughout Wiltshire are determined by geology, with the same geology creating important landscape and natural habitats. Therefore, mineral resources often occur within important environmental designations, such as the AONB. Past, current and proposed mineral workings are located towards the north, west and south of the country, avoiding the area adjacent to West Berkshire.			
Wiltshin Curren geologi Berksh waste f adjacen Lambo	<i>Wiltshire and Swindon Waste Core Strategy (adopted 2009)</i> Current waste facilities are largely located in more urban areas of the district. Landfill facilities are in areas geologically suited to mineral extraction. As with mineral sites this generally avoids the areas adjacent to West Berkshire, although there are current waste facilities within 5km of West Berkshire and it is proposed that new waste facilities are located within 16km of strategically significant cities (inc. Swindon). This zone covers land adjacent to West Berkshire. Therefore, the plan for waste in Wiltshire could have an effect on the Kennet and Lambourn Floodplain SAC in terms of site locations or travel routes.			
Are the potential impacts	of the Plan li	kely to be significant?		
Alone?	e? N No likely significant effects have been identified at the MWLP level as the focus of any waste and mineral development in the area would be located downstream from the S/			
In combination with other plans/projects? Additional development is proposed for Thatcham through the West Berkshire House Allocations (HSA) DPD, however, this is not likely to impact on the SAC as it is located downstream of the SAC and the HSA DPD has been subject to separate HRA screet Any waste and minerals development coming forward in the area would be located downstream from the SAC.		Additional development is proposed for Thatcham through the West Berkshire Housing Site Allocations (HSA) DPD, however, this is not likely to impact on the SAC as it is located downstream of the SAC and the HSA DPD has been subject to separate HRA screening. Any waste and minerals development coming forward in the area would be located downstream from the SAC.		

Site Name	River Lambourn
Site Designation	SAC
Location of International Site	SU398739
Description of International Site	Watercourses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation. The Lambourn is an example of sub-type 1 in central southern England, a chalk stream discharging into the middle reaches of the Thames system. The Lambourn supports Bullhead (Cottus gobio) populations that inhabit chalk streams in central southern England, Good water quality, coarse sediments and extensive beds of submerged plants
	provide excellent habitat for the species.

	The Brook lamprey is a qualifying species but is not the primary reason for designation. The Brook lamprey requires clean gravel beds for spawning and soft marginal silt or sand for the larvae. It spawns mostly in part of the river where the current is not too strong.
Conservation Objectives of	To maintain in a favourable condition the:
International Site	Floating formations of Water Crowfoot (Ranunculus) of plain and sub-mountainous rivers;
	To maintain, in a favourable condition, the habitats for the population of Brook lamprey (Lampetra
	planeri) and Bullnead (Cottus gobio).
	The River Lambourn component SSSL units are all in unfavourable condition, due to siltation
	inappropriate weirs, dams and other structures, inland flood defence works, invasive freshwater
	species, and water pollution from agricultural run off.
Aspects of the plan that could	Land bank / Need     Borrow Pits
impact on International Site	Self-Sufficiency in Waste     Specialist Waste Management
	Management
	Landscape and Protected     Energy Minerals
	Landscapes     Reworking of old landfill sites
	Restoration and after-use     Temporary infrastructure (waste, construction
	Transport aggregate)
	Cumulative Impact     Permanent construction aggregate infrastructure
	Minerals Safeguarding
	Waste Safeguarding
	Location of Development     (construction aggregates)
	(construction aggregates, waste management facilities
	landfill)
Potential causes of significant	Vulnerability of Details
effects	the
	International
	site

Fragmentation		N	No land take from European and Ramsar sites will be required to deliver the
			objectives set out in the MWLP.
Predation	Vermin	N	This hazard is considered to have a negligible potential to cause likely significant
			effect on the SAC because fish species and Crowfoot are not considered to be
			vulnerable to this hazard output type at anticipated levels from regulated
			development.
	Invasive	N	This hazard is considered to have negligible potential to cause a likely significant
	species		effect on the SAC, because the site is some distance from any potential sites.
			therefore, any potential hazards are unlikely to reach the SAC.
Hvdrology	Leachate	Y	All the interest features of the SAC designation rely on clean water to survive. The
			three species for which the River Lambourn is designated are at risk of
			nitrification of the watercourses. An influx of nutrients could lead to growth of
			other plants which might out-compete the Water Crowfoot resulting in a decline in
			its population. The Brook lamprev relies on a clear mitigation pathway and the
			Bullhead requires clear, shallow waters, both which would be implicated if
			increased vegetation occurred as a result of leachate entering the water.
			The focus of any development would be located downstream from the SAC
			therefore, there is no likely significant impact from the plan. The risk is considered
			low as development would be required to comply with the Environment Agency
			quidelines meaning that the chance of leachates escaping are low
	Water use	Y	If facilities require large amounts of water this could lead to use of groundwater
			supplies which could lead to drying of the floodplain babitat. However, it is
			understood that the focus of development in this area would be located
			downstream of the SAC. Therefore, is it not considered that there is a likely
			significant effect from the plan
	Water pollution		All the interest features of the SAC rely on clean water. Pollutants/sediment
			entering the water course may result in mortalities of fish species or changes in
			the habitat. However, it is understood that any development would be located
			downstream from the SAC. It is therefore, considered there is no likely significant
			effect from the plan. The risk is considered low as development would be
			complying with Environment Agency guidelines, meaning the chance of pollutants
			escaping any facility or resulting sedimentation are low
			escaping any facility, or resulting sedimentation are low.

			All three species for which the SAC is designated rely on clean water. There is a risk that increased transportation to and from facilities may increase the chances of polluted run-off from roads entering the water courses, therefore, negatively impacting on water quality. The M4, A4 and A34 all dissect the watercourse meaning the river is already exposed to road runoff. It is not anticipated that the potential predicted low increasing traffic to/from the sites will significantly change the risk posed to water quality.
	Groundwater	Y	If facilities require large amounts of water this could lead to use of groundwater supplies which could lead to drying of the floodplain habitat. However, it is understood that the focus of development in this area would be located downstream of the SAC. Therefore, is it not considered that there is a likely significant effect from the plan.
Disturbance	Noise	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because fish species and Crowfoot are not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
	Lighting	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because fish species and Crowfoot are not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
	Traffic	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because the site is some distance from any potential sites, therefore, any potential hazards are unlikely to reach the SAC.
	Impact of building	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because fish species and Crowfoot are not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
	Vibration	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because fish species and Crowfoot are not

			considered to be vulnerable to this hazard output type at anticipated levels from	
			regulated development.	
Air Pollution	Dust	N	I his hazard is considered to have a negligible potential to cause a likely	
			significant effect on the SAC because fish species and Crowfoot are not	
			considered to be vulnerable to this hazard output type at anticipated levels from	
			regulated development.	
	Traffic (inc.	N	This hazard is considered to have a negligible potential to cause a likely	
	emissions)		significant effect on the SAC because fish species and Crowfoot are not	
			considered to be vulnerable to this hazard output type at anticipated levels from	
			regulated development.	
Other Plans	West Berkshire	e Council		
and projects	Core Strategy /	Housing Site Allo	cations DPD – deliver 10,500 new homes to 2026. Focus for housing is within the	
	settlement hiera	rchy (Urban Area	s – Newbury, Thatcham, Eastern Urban Area, Rural Service Centres – Burghfield	
	Common, Mortin	mer, Theale, Pang	gbourne, Lambourn, Hungerford, Service Villages – Kintbury, Great Shefford,	
	Compton, Chieveley, Hermitage, Cold Ash, Woolhampton, Bradfield Southend, Aldermaston). The River Lamb			
	SAC has areas in close proximity to Newbury and Thatcham.			
	Work has started on developing a new Local Plan for West Berkshire, although as this is still at a very early stage the potential impacts on protected sites are unknown. The new Local Plan will be subject to its own HRA.			
	Wiltshire Coun	cil		
	Wiltshire and Su	<i>windon Minerals</i> (	Core Strategy (adopted 2009)	
	Mineral resource	es throughout Wil	tshire are determined by geology, with the same geology creating important	
	landscape and r	natural habitats. T	herefore, mineral resources often occur within important environmental	
	designations, su	uch as the AONB.	Past, current and proposed mineral workings are located towards the north, west	
	and south of the	e county, avoiding	the area adjacent to West Berkshire.	
	Wiltshire and Su	windon Waste Co	re Strategy (adopted 2009)	
	Current waste fa	acilities are largely	/ located in more urban areas of the district. Landfill facilities are in areas	
	geologically suit	ed to mineral extr	action. As with mineral sites this generally avoids the areas adjacent to West	
	Berkshire, altho	ugh there are cur	rent waste facilities within 5km of West Berkshire and it is proposed that new waste	
	facilities are loca	ated within 16km	of strategically significant cities (inc. Swindon). This zone covers land adjacent to	

West Berks	West Berkshire. Therefore, the plan for waste in Wiltshire could have an effect on the Kennet and Lambourn			
Floodplain S	Floodplain SAC in terms of site locations or travel routes.			
Are the potential impacts of the	he Plan likel	ly to be significant?		
Alone?	N No likely significant effects have been identified at the MWLP level. The SAC is considered less vulnerable as the focus of any waste or mineral developments, should they occur, will be downstream of the SAC itself. Risks are considered low as development would be complying with Environment Agency guidelines meaning the chance of leachates escaping is low.			
In combination with other plans/projects?	N	Additional development is proposed for Thatcham and Newbury, however, this is not likely to significantly impact on the SAC as they are located downstream.		

Site Name	Kennet Valley Alderwoods			
Site Designation	SAC			
Location of International Site	SU398675			
Description of International Site	Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae).			
	These, the largest fragments of alder-ash woodland on the Kennet floodplain, lie on alluvium overlain by a shallow layer of moderately calcareous peat.			
Conservation Objectives of International Site	The Conservation Objectives for this site are, subject to natural change, to maintain the following habitats and geological features in favourable condition, with particular reference to any dependent component special interest features for which the land is designated – Broadleaved mixed and yew woodland.			
Aspects of the plan that could impact on International Site	<ul> <li>Land bank / Need</li> <li>Self-Sufficiency in Waste Management</li> <li>Landscape and Protected Landscapes</li> <li>Restoration and after-use</li> <li>Borrow Pits</li> <li>Borrow Pits</li> <li>Specialist Waste Management</li> <li>Chalk and Clay</li> <li>Energy Minerals</li> <li>Reworking of old landfill sites</li> </ul>			

		<ul> <li>Transp</li> <li>Cumula</li> <li>Minera</li> <li>Waste</li> <li>Locatio</li> </ul>	<ul> <li>Temporary infrastructure (waste, construction aggregate)</li> <li>Safeguarding</li> <li>Permanent construction aggregate infrastructure</li> </ul>	
		(construction aggregates, waste		
Potential causes of significant effects		Vulnerability of the International site	Details	
Fragmentatio		N	No land take from European and Ramsar sites will be required to deliver the objectives set out in the plan.	
Predation	Vermin	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because the woodland is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.	
	Invasive species	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because the site is some distance from any potential sites, therefore, any potential hazards are unlikely to reach the SAC.	
Hydrology	Leachate	Y	There is potential that if a facility is located within close proximity to the SAC boundary that leachate may reach the habitats for which the site is designated. The focus of any development would be located downstream from the SAC,	
			therefore, there is no likely significant impact from the plan. The risk is considered low as development would be required to comply with the Environment Agency guidelines, meaning that the chance of leachate escaping is low.	
	Water use	Y	The SAC is wet woodland, therefore, relies on specific groundwater levels in order to maintain an appropriate level of soil moisture for the woodland to support the species for which it is designated.	
			There is a risk that large amount of water may lead to use of groundwater supplies which could lead to the lowering of groundwater levels in the floodplain habitat.	

			The River Kennet passes through the SAC and the floodplain provides a lot of the soil moisture.
			The focus of any development would be located downstream from the SAC, therefore, there is no likely significant impact from the plan.
	Water pollution	N	There is potential, if sites are located close to the SAC boundary, that water pollutants may reach the habitats for which the site is designated. However, the risk is considered low as waste developments would be complying with Environment Agency guidelines, meaning that the chance of water pollutants escaping any facility is low.
	Groundwater	Y	The SAC is wet woodland, therefore, relies on specific groundwater levels in order to maintain an appropriate level of soil moisture for the woodland to support the species for which it is designated.
			There is a risk that a large amount of development may lead to use of groundwater supplies which could lead to the lowering of groundwater levels in the floodplain habitat.
			The focus of any development would be located downstream from the SAC, therefore, there is no likely significant impact from the plan.
Disturbance	Noise	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because the woodland is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
	Lighting	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because the woodland is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
	Traffic	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because the site is some distance from any potential sites, therefore, any potential hazards are unlikely to reach the SAC.
	Impact of building	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because the woodland is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.

	Vibration	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because the woodland is not considered to be vulnerable to
			this hazard output type at anticipated levels from regulated development.
Air Pollution	Dust	Y	Air quality is of importance in maintaining the health of the trees. High levels of aerial pollution, such as dust, could result in reduced vigour and possible increased tree mortality, if present at high enough levels.
			The focus of any development would be located downstream from the SAC, therefore, there is no likely significant impact from the plan. The risk is considered low as development would be required to comply with the Environment Agency guidelines, meaning that the chance of high levels of dust is low.
	Traffic (inc. emissions)	N	Air quality is of importance in maintaining the health of the trees. High level of aerial pollution such as nitrous oxide may result in reduced vigour and increased tree mortality if it is present in high enough concentrations.
			Significant changes in traffic levels are considered to be minimal in this area due to the main link road near to this SAC being the A4, an already busy road. It is not anticipated that significant increase in traffic along this road would result from development of sites in this area.
	Aerial pollutants	Y	Air quality is of importance in maintaining the health of the trees. High level of aerial pollution such as nitrous oxide may result in reduced vigour and increased tree mortality if it is present in high enough concentrations.
			There is potential that if facilities are located in close proximity to the SAC aerial pollutants may reach the habitats for which the site is designated. However, the risk is considered low, as developments would be complying with the Environment Agency guidelines, meaning that the chances of aerial pollutants being released at significant levels from any site area low.
Other Plans	West Berkshire	Council	
and projects	Core Strategy / H	ousing Site All	ocations DPD – deliver 10,500 new homes to 2026. Focus for housing is within the
	settlement hierard	chy (Urban Are	as – Newbury, Thatcham, Eastern Urban Area, Rural Service Centres – Burghfield
	Common, Mortimer, Theale, Pangbourne, Lambourn, Hungerford, Service Villages – Kintbury, Great Shefford,		

	Compton, Chieveley, Hermitage, Cold Ash, Woolhampton, Bradfield Southend, Aldermaston). The River Lambourn SAC has areas in close proximity to Newbury and Thatcham.				
1	Work has started on developing a new Local Plan for West Berkshire, although as this is still at a very early stage the potential impacts on protected sites are unknown. The new Local Plan will be subject to its own HRA.				
	Hampshire	e Country C			
	Hampsnire	Minerais ar	na Waste Plan (adopted 2013)		
	Sand and gravel deposits are clustered in Hampshire are largely in the south east corner (New Forest Area) along the northern boundary and patchy throughout the rest of the County. Of particular relevance to the West Berkshire MWLP are the deposits along the north Hampshire border around the Thames Basin Heaths SPA and with 5km of the Kennet and Lambourn Floodplain SAC. These mineral deposits are protected from other development. 'Mineral Resources Areas' have been identified in the north east corner around the Thames Basin Health SPA area (6 mineral extraction sites within 500m, 3 mineral extraction sites between 500m and 2.5km). These same sites also form 'Landfill Potential Sites' showing they would have a more long-term use.				
	It is expected that development projects in north east Hampshire will accommodate waste management facilities.				
Are the potentia	I impacts o	f the Plan lil	kely to be significant?		
Alone?		N	It is recognised that there is potential for harm to the SAC from aerial pollution from both waste and mineral sites, both chemical aerial pollution and water use.		
			However, no likely significant effects have been identified. The development will be focused downstream of the SAC, reducing the potential for harm.		
In combination with other N plans/projects?		N	While additional development is proposed for Newbury and Thatcham, however, this is not likely to impact on the SAC as it is located downstream from the SAC.		

Site Name	Thames Basin Heaths		
Site Designation	SPA		
Location of International Site	SU878566 (approx. centre point)		
Description of International	The mosaic of habitats which form the internally important lowland heathland are dependent on		
Site	active heathland management.		
	Large UK breeding populations of Nightjar (7.8%), Woodlark (9.9%) and Dartford warbler (27.8%)		
Conservation Objectives of	A common conservation objective has been set for the whole of the Thames Basin Heaths SPA –		
International Site	Subject to natural change, to maintain in favourable condition, the habitats for the populations of		
	Annex 1 bird species of European importance, with particular reference to lowland heathland and		
	rotationally managed plantation.		
	The majority of the site is in unfavourable, but recovering condition. The main threat to the		
	condition of the SPA is recreational pressure from nearby residential development.		
Aspects of the plan that could	Land bank / Need     Borrow Pits		
impact on International Site	Self-Sufficiency in Waste Management     Specialist Waste Management		
	Landscape and Protected Landscapes     Chalk and Clay		
	Restoration and after-use     Energy Minerals		
	Transport     Reworking of old landfill sites		
	Cumulative Impact     Temporary infrastructure (waste,		
	Minerals Safeguarding construction aggregate)		
	Waste Safeguarding     Permanent construction aggregate		
	Location of Development (construction infrastructure		
	aggregates, waste management		
	facilities, landfill)		
Potential	Vulnerability Details		
causes of	of the		
significant	International		
effects	site		
Fragmentatio	N No land take from European and Ramsar sites will be required to deliver the		

n			objectives set out in the MWLP.
Predation	Vermin	N	The focus of development is likely to be outside the buffer zones, therefore it is considered that there is negligible potential for there to be significant impacts on the habitat. The risk is also considered to be low as development would be complying with Environment Agency guidelines, meaning the chance of any leachate escaping any facility is low.
	Invasive species	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because the site is some distance from any potential sites, therefore, any potential hazards are unlikely to reach the SAC.
Hydrology	Leachate	N	There is potential where facilities are located within close proximity to the SPA boundary for leachate to reach the habitats for which the site is designated, thus changing the habitat structure that the birds rely upon.
			The focus of development is likely to be outside the buffer zones, therefore it is considered that there is negligible potential for these to be significant impacts on the habitat. The risk is also considered to be low as development would be complying with Environment Agency guidelines, meaning the chance of any leachate escaping any facility is low.
	Water use	N	The focus of development is likely to be outside the buffer zones, therefore it is considered that there is negligible potential for there to be significant impacts on the habitat.
	Water pollution	N	The focus of development is likely to be outside the buffer zones, therefore it is considered that there is negligible potential for there to be significant impacts on the habitat.
	Groundwater	N	The focus of development is likely to be outside the buffer zones, therefore it is considered that there is negligible potential for there to be significant impacts on the habitat.
Disturbance	Noise	N	The focus of development is likely to be outside the buffer zones, therefore it is considered that there is negligible potential for there to be significant impacts on the habitat. The risk is also considered to be low as development would be complying with Environment Agency guidelines, meaning noise emanating from sites should be low.

	Lighting	N	The focus of development is likely to be outside the buffer zones, therefore it is	
			considered that there is negligible potential for significant impacts on the habitat.	
	Traffic	N	This hazard is considered to have negligible potential to cause a likely significant	
			effect on the SAC, because the site is some distance from any potential sites,	
			therefore, any potential hazards are unlikely to reach the SAC.	
	Impact of	N	This hazard is considered to have negligible potential to cause a likely significant	
	building		effect on the SPA, because the site's features of interest are considered unlikely to	
			be vulnerable to this hazard.	
	Vibration	N	The focus of development is likely to be outside the buffer zones, therefore it is	
			considered that there is negligible potential for there to be significant impacts on the	
			habitat.	
Air Pollution	Dust	N	This hazard is considered to have negligible potential to cause likely significant	
			effect on the SPA, due to the fact that facilities will be complying with Environment	
			Agency regulations. It is unlikely that they will release sufficient levels of dust to	
			cause harm to the bird species for which the SPA is designated.	
	Traffic (inc.	N	This hazard is considered to have negligible potential to cause a likely significant	
	emissions)		effect on the SPA, as it is not anticipated that there will be significant increases in	
			traffic resulting from the development of sites in the area	
	Aerial	N	The focus of development is likely to be outside the buffer zones, therefore it is	
	pollutants		considered that there is negligible potential for there to be significant impacts on the	
			habitat. The risk is also considered to be low as development would be complying	
			with Environment Agency guidelines, meaning the chance of any aerial pollutants	
			escaping any facility is low.	
Other Plans and projects		West Berkshire Council		
		Core Strateg	y / Housing Site Allocations DPD – deliver 10,500 new homes to 2026. Focus for	
		housing is within the settlement hierarchy (Urban Areas – Newbury, Thatcham, Eastern Urban		
		Area, Rural Service Centres – Burghfield Common, Mortimer, Theale, Pangbourne, Lambourn,		
		Hungerford, Service Villages – Kintbury, Great Shefford, Compton, Chieveley, Hermitage, Cold		
		Ash, Woolhampton, Bradfield Southend, Aldermaston). None of these areas are within the SPA		
		buffer zones.		
		Work has sta	arted on developing a new Local Plan for West Berkshire, although as this is still at a	

	very early stage the potential impacts on protected sites are unknown. The new Local Plan will be subject to its own HRA.		
Are the potential impacts of th	e Plan likely to be significant	t?	
Alone?	Ν	A small area of West Berkshire, to the south east, is located within the 5km and 7km buffer zone to the SPA. There are no mineral deposits within West Berkshire close to the SPA, and limited potential for waste development and therefore, it is concluded that there is negligible potential for mineral or waste development sufficiently close to the SPA to result in significant impact on the habitats. However, no likely significant effects have been identified. The development will be focused downstream of the SAC, reducing the potential for harm.	
In combination with other plans/projects?	N	Despite the fact that there are large amounts of development currently around the SPA, it is not expected that the proposed MWLP will contribute to these impacts as there are no major mineral deposits in close proximity to the SPA, and waste development is likely to be focused elsewhere in the district.	

Site Name	Kennet and Lambourn Floodplain
Site Designation	SAC
Location of International Site	SU313704
Description of International	Supports extensive population of Desmoulin's Whorl snail (Vertigo moulinsiana)
Site	
	The site is predominately Reed Sweet-grass (Glyceria maxima) swamp of tall sedges at the river
	margins, in ditches and in depressions in wet meadows.
Conservation Objectives of	Subject to natural change, to maintain, in favourable condition, the habitat for the population of
International Site	European importance of Desmoulin's whorl snail (Vertigo moulinsiana)
	Currently the majority of the site is in a favourable condition. Maintaining this condition is
	dependent on minimising scrub incursion to wetland, fen and grassland habitats. Risks to the
	declining condition stem from spread of invasive weeds, poor woodland and land management

		and run-off aff	ecting water quality.
Aspects of the plan that could impact on International Site		<ul> <li>Land base</li> <li>Self-Survey</li> <li>Restoration</li> <li>Restoration</li> <li>Transport</li> <li>Cumulation</li> <li>Mineral</li> <li>Waster</li> <li>Location</li> <li>(construction</li> <li>waster</li> <li>landfill)</li> </ul>	<ul> <li>ank / Need</li> <li>Borrow Pits</li> <li>Specialist Waste Management</li> <li>Chalk and Clay</li> <li>Energy Minerals</li> <li>Reworking of old landfill sites</li> <li>Temporary infrastructure (waste, construction aggregate)</li> <li>Permanent construction aggregate infrastructure</li> </ul>
Potential causes of significant effects		Vulnerability of the International site	Details
Fragmentation		N	No land take from protected sites will be required to deliver the objectives set out in the MWLP
Predation	Vermin	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because the Desmoulin's whorl snail is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
	Invasive species	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because the site is some distance from any potential sites, therefore, any potential hazards are unlikely to reach the SAC.
Hydrology	Leachate	Y	It is generally considered that clean water is a habitat requirement of the Desmoulin's whorl snail, although research undertaken in relation to this is limited. There is a risk that leachate from waste facilities may enter the water course and pollute the water making the habitat unsuitable for this species.
	vvater use	Y Y	I ne Desmoulin's whori shall requires permanently wet, usually calcareous,

			swamps, fens and marshes, boarding river, lakes and ponds, or in river floodplains. It is highly dependent on maintenance of existing hydrological conditions. If water hungry developments are located close to the SAC there is a risk that the requirement for large amount of water could lead to drying of the floodplain.
			However, it is understood that sites likely to come forward as part of the plan are located downstream of the SAC. Therefore, it is considered that there is no likely significant effect from the plan.
	Water pollution	Y	It is generally considered that clean water is a habitat requirement of the Desmoulin's whorl snail, although research undertaken in relation to this is limited. There is a risk that leachate from waste facilities, or an influx of nutrients may enter the watercourse and pollute the water, making the habitat unsuitable for this species.
			However, it is understood that sites likely to come forward as part of the plan are located downstream of the SAC. Therefore, it is considered that there is no likely significant effect from the plan.
	Groundwater	Y	Dewatering is a key process of the extraction of sand and gravel. This can have impacts on groundwater flows up to 2km from the extraction site. The Desmoulin's whorl snail requires permanently wet, usually calcareous, swamps, fens and marshes, boarding river, lakes and ponds, or in river floodplains. It is highly dependent on maintenance of existing hydrological conditions.
			However, it is understood that sites likely to come forward as part of the plan are located downstream of the SAC. Therefore, it is considered that there is no likely significant effect from the plan.
Disturbance	Noise	N	This hazard is considered to have a negligible potential to cause a likely significant effect on the SAC because the Desmoulin's whorl snail is not considered to be vulnerable to this hazard output type at anticipated levels from regulated development.
	Lighting	N	This hazard is considered to have a negligible potential to cause a likely significant

			effect on the SAC because the Desmoulin's whorl snail is not considered to be
			vulnerable to this hazard output type at anticipated levels from regulated
			development.
	Traffic	N	The local area is already serviced by the A4. It is not anticipated that development
			would result in significant increases in traffic sufficient to cause likely significant
			effects on the SAC.
	Impact of	N	This hazard is considered to have a negligible potential to cause a likely significant
	building		effect on the SAC because the Desmoulin's whorl shall is not considered to be
			vulnerable to this nazard output type at anticipated levels from regulated
	Vibration	N	development.
	Vibration	IN	offect on the SAC because the Desmoulin's where analitis not considered to be
			vulnerable to this bazard output type at anticipated levels from regulated
			development.
Air Pollution	Dust	N	This hazard is considered to have a negligible potential to cause a likely significant
			effect on the SAC because the Desmoulin's whorl snail is not considered to be
			vulnerable to this hazard output type at anticipated levels from regulated
			development.
	Traffic (inc.	N	This hazard is considered to have a negligible potential to cause a likely significant
	emissions)		effect on the SAC because the Desmoulin's whorl shall is not considered to be
			vulnerable to this nazard output type at anticipated levels from regulated
			development.
			This risk is considered low as developments would be complying with Environment
			Agency guidelines, meaning that the chances of leachates escaping any facility
			are low.
Other Plans	West Berkshire Council		
and projects	Core Strategy / Housing Site Allocations DPD – deliver 10,500 new homes to 2026. Focus for housing is within the		
	settlement hier	archy (Urban A	reas – Newbury, Thatcham, Eastern Urban Area, Rural Service Centres –
	Burghfield Con	nmon, Mortimer	, Theale, Pangbourne, Lambourn, Hungerford, Service Villages – Kintbury, Great
	Shefford, Com	pton, Chieveley	, Hermitage, Cold Ash, Woolhampton, Bradfield Southend, Aldermaston). The River
	Lambourn SAC has areas in close proximity to Newbury and Thatcham.		

	Work has started on developing a new Local Plan for West Berkshire, although as this is still at a very early stage the potential impacts on protected sites are unknown. The new Local Plan will be subject to its own HRA.
	Hampshire Country Council Hampshire Minerals and Waste Plan (adopted 2013) Sand and gravel deposits clustered in Hampshire are largely in the south east corner (New Forest Area) along the northern boundary and patchy throughout the rest of the County. Of particular relevance to the West Berkshire MWLP are the deposits along the north Hampshire border around the Thames Basin Heaths SPA and within 5km of the Kennet and Lambourn Floodplain SAC. These mineral deposits are protected from other development. 'Mineral Resource Areas' have been identified in the north east corner around the Thames Basin Healths SPA area (6 mineral extraction sites within 500m, 3 mineral extraction sites between 500m and 2.5km). These same sites also form 'Landfill Potential Sites' showing they would have a more long-term use.
	It is expected that development projects in North East Hampshire will accommodate waste management facilities.
	<b>Wiltshire Council</b> <i>Wiltshire and Swindon Minerals Core Strategy (adopted 2009)</i> Mineral resources throughout Wiltshire are determined by geology, with the same geology creating important landscape and natural habitats. Therefore, mineral resources often occur within important environmental designations, such as the AONB. Past, current and proposed mineral workings are located towards the north, west and south of the country, avoiding the area adjacent to West Berkshire.
	<i>Wiltshire and Swindon Waste Core Strategy (adopted 2009)</i> Current waste facilities are largely located in more urban areas of the district. Landfill facilities are in areas geologically suited to mineral extraction. As with mineral sites this generally avoids the areas adjacent to West Berkshire, although there are current waste facilities within 5km of West Berkshire and it is proposed that new waste facilities are located within 16km of strategically significant cities (inc. Swindon). This zone covers land adjacent to West Berkshire. Therefore, the plan for Waste in Wiltshire could have an effect on the Kennet and Lambourn Floodplain SAC in terms of site locations or travel routes.
Are the potential	impacts of the Plan likely to be significant?
Alone?	N NO likely significant effects have been identified at the MWLP level as the focus of any

		waste and mineral development in the area would be located downstream from the SAC.
In combination with other	Ν	Additional development is proposed for Thatcham through the West Berkshire Housing Site
plans/projects?		Allocations (HSA) DPD, however, this is not likely to impact on the SAC as it is located
		downstream of the SAC and the HSA DPD has been subject to separate HRA screening.
		Any waste and minerals development coming forward in the area would be located
		downstream from the SAC.

Hartslock Wood			
SAC			
SU619789			
The chalk grassland mostly consists of a mosaic of shorter-turf NVC type CG2 Festuca ovina-			
Avenula pratensis grassland and taller CG3 Bromus erectus grassland. The site supports one of only three UK populations of Monkey Orchid (Orchis simian), a nationally rare Red Data Bood Species.			
Open patches show a rich flora including local species such as Southern Wood-rush (Luzula forester), Wood Barley (Hordelymus europaeus) and Narrow-lipped Helleborine (Epipactis leptochila).			
The conservation objective is subject to natural change, to maintain the following habitats and geological features in favourable condition, with particular reference to any dependent component special interest features for which the land is designated – Broadleaved mixed and yew woodland and Calcareous grassland.			
The site is currently in a favourable condition.			
Land bank / Need     Borrow Pits			
Self-Sufficiency in Waste     Specialist Waste Management			
Management			
Landscape and Protected     Energy Minerals			
Landscapes      Reworking of old landfill sites			
<ul> <li>Restoration and after-use</li> <li>Transport</li> <li>Temporary infrastructure (waste, construction aggregate)</li> </ul>			

		Cumulative Impact     Permanent construction aggregate infrastructure			
		Minerals Safeguarding			
		Waste Safeguarding			
		Location of Development			
		(construction aggregates.			
		waste management facilities,			
		landfill)			
Potential		Vulnerability	Details		
causes of		of the			
significant		International			
effects		site			
Fragmentation		N	No land take from European and Ramsar sites will be required to deliver the		
			objectives set out in the MWLP.		
Predation	Vermin	Ν	The hazard is considered to have negligible potential to cause a likely significant		
			effect on the SAC, because the site's features of interest are considered unlikely to		
			be vulnerable to this hazard.		
	Invasive	Ν	This hazard is considered to have negligible potential to cause a likely significant		
	species		effect on the SAC, because the site is some distance from any potential sites,		
	-		therefore, any potential hazards are unlikely to reach the SAC.		
Hydrology	Leachate	Ν	This hazard is considered to have negligible potential to cause a likely significant		
			effect on the SAC, because the site is a long distance from any potential sites and		
			therefore, any potential hazards from the development of sites will not reach the		
			SAC.		
	Water use	Ν	The hazard is considered to have negligible potential to cause a likely significant		
			effect on the SAC, because the site's features of interest are considered unlikely to		
			be vulnerable to this hazard.		
	Water	Ν	The hazard is considered to have negligible potential to cause a likely significant		
	pollution		effect on the SAC, because the site's features of interest are considered unlikely to		
			be vulnerable to this hazard.		
	Groundwater	Ν	The hazard is considered to have negligible potential to cause a likely significant		
			effect on the SAC, because the site's features of interest are considered unlikely to		
			be vulnerable to this hazard.		

Disturbance	Noise	N	The hazard is considered to have negligible potential to cause a likely significant
			effect on the SAC, because the site's features of interest are considered unlikely to
			be vulnerable to this hazard.
	Lighting	Ν	The hazard is considered to have negligible potential to cause a likely significant
			effect on the SAC, because the site's features of interest are considered unlikely to
			be vulnerable to this hazard.
	Traffic	N	This hazard is considered to have negligible potential to cause a likely significant
			effect on the SAC, because the site is some distance from any potential sites.
			therefore, any potential hazards are unlikely to reach the SAC.
	Impact of	N	The hazard is considered to have negligible potential to cause a likely significant
	building		effect on the SAC, because the site's features of interest are considered unlikely to
	la sinain g		be vulnerable to this hazard.
	Vibration	N	The hazard is considered to have negligible potential to cause a likely significant
			effect on the SAC, because the site's features of interest are considered unlikely to
			be vulnerable to this hazard.
Air Pollution	Dust	Υ	Air quality is of importance in maintaining the health of trees. High levels of aerial
			pollution such as dust might lead to reduced vigour of trees and increased tree
			mortality if it is present in high enough concentrations.
			The SAC is not located within close proximity to safeguarded areas and such
			facilities are regulated by the Environment Agency, therefore, the risks of impacts
			from dust are considered low.
	Traffic (inc.	Υ	Air quality is of importance in maintaining the health of trees. High levels of aerial
	emissions)		pollution such as dust might lead to reduced vigour of trees and increased tree
			mortality if it is present in high enough concentrations.
			The SAC is not located within close proximity to safeguarded areas and such
			facilities are regulated by the Environment Agency, therefore, the risks of impacts
			from increased traffic movements are considered low. The nearest road is the
			A329, and it is not considered that sites would significantly increase traffic along
			this road to lead to sufficient increase to cause a likely significant effect on the trees
			for which the SAC is designated.

Other Plans	West Berkshire Council						
and projects	Core Strategy settlement hie Burghfield Cor Shefford, Com Lambourn SA	<sup>r</sup> / Housing Site Allocations DPD – deliver 10,500 new homes to 2026. Focus for housing is within the erarchy (Urban Areas – Newbury, Thatcham, Eastern Urban Area, Rural Service Centres – mmon, Mortimer, Theale, Pangbourne, Lambourn, Hungerford, Service Villages – Kintbury, Great npton, Chieveley, Hermitage, Cold Ash, Woolhampton, Bradfield Southend, Aldermaston). The River C has areas in close proximity to Newbury and Thatcham.					
	Work has start the potential in	rted on developing a new Local Plan for West Berkshire, although as this is still at a very early stage impacts on protected sites are unknown. The new Local Plan will be subject to its own HRA.					
	Oxfordshire County Council						
	Oxfordshire M	)xfordshire Minerals and Waste Core Strategy (examination 2016)					
		initial and matter construction (channing for the construction of					
	Past and exist	sting permitted mineral working areas in Oxfordshire are clustered to the west of Oxford with another					
	cluster betwee	een Oxford and Didcot. There are a few in the north towards Banhury. There are also small workings					
	in the south ea	in Oxioru and Diddol. There are a rew in the north towards Danbury. There are also sinall workings					
		SI AND SOUTH WEST. FTOPOSED EXTRACTION SILES ARE TOUGHTY SKITLITOTH MAILSTOCK WOOD SAC.					
	Broposod was	ate sites are elustared around towns of Danhum, Ovfard Disaster and around					
	Abingdon/Dide	Used waste sites are clustered around towns of Banbury, Oxford, Bicester and around					
Are the potentia	Abinguon/Didcol/Wantage. None are within Skm of Hanslock Wood SAC.						
Are the potentia	in impacts of the						
Alone?		N	It is recognised that there is potential for harm on the SAC from aerial pollution				
			from both waste and mineral sites, relating both to chemical aerial pollution and				
			dust.				
			However, impacts resulting from waste sites are considered unlikely due to the				
			distance between sites and the SAC. Any potential emissions would be regulated.				
In combination with other		Ν	There are no other areas of significant development within close proximity to the				
plans/projects?			SAC.				

Site Name	Hackpen Hill				
Site Designation	SAC				
Location of International Site	SU352847				
Description of International	Hackpen Hill is an extensive area of unimproved chalk grassland in the Downs. The site has a				
Site	variety of aspect and gradients, with the grassland dominated by Red Fescue (Festuca Rubra) and				
	Upright brome (Bromus erectus). The herb flora includes a significant population of early gentian				
	(Gentianella anglica), Frog Orchid (Coeloglossum viride), Horseshoe Vetch (Hoppocrepis comosa),				
	Common Rock-rose (Helianthemum nummularium) and Dwarf Thistle (Crisium acaule).				
Conservation Objectives of	The conservation objectives are subject to natural change, to maintain the following habitats and				
International Site	geological features in favourable condition, with particular reference to any dependent component				
	special interest features for which the land is designated – lowland calcareous grassland.				
	The site is in favourable condition				
Aspects of the plan that could	The site is in lavourable condition.				
impact on International Site	Lanu Dank / Neeu     Donow Pils     Self Sufficiency, in Wester     Self Sufficiency, in Wester				
	Sell-Sunciency in waste     Specialist waste Management     Monogement				
	Chaik and Clay     Chaik and Clay				
	Lanuscape and Froiected     Energy Minerals     Landscapes     Add Landfill eiter				
	Reworking of old landing sites     Postoration and after use     Temperary infrastructure (wests, construction				
	Restoration and alter-use     Iemporary intrastructure (waste, construction				
	Cumulative Impact     Cumulative Impact				
	Cumulative impact     Permanent construction aggregate intrastructure     Minerals Safeguarding				
	Waste Safequarding				
	Location of Development				
	(construction aggregates, waste				
	management facilities, landfill)				
Potential causes of significant	Vulnerability Details				
effects	of the				
	International				
	site				

Fragmentation		Ν	No land take from European and Ramsar sites will be required to deliver the
, , , , , , , , , , , , , , , , , , ,			objectives set out in the MWLP.
Predation	Vermin	N	This hazard is considered to have negligible potential to cause a likely significant
			effect on the SAC, because the site is some distance from any potential sites,
			therefore, any potential hazards are unlikely to reach the SAC.
	Invasive	N	This hazard is considered to have negligible potential to cause a likely significant
	species		effect on the SAC, because the site is some distance from any potential sites,
	l .		therefore, any potential hazards are unlikely to reach the SAC.
Hydrology	Leachate	N	This hazard is considered to have negligible potential to cause a likely significant
			effect on the SAC, because the site is some distance from any potential sites,
			therefore, any potential hazards are unlikely to reach the SAC.
	Water use	N	This hazard is considered to have negligible potential to cause a likely significant
			effect on the SAC, because the site is some distance from any potential sites,
			therefore, any potential hazards are unlikely to reach the SAC.
	Water	N	This hazard is considered to have negligible potential to cause a likely significant
	pollution		effect on the SAC, because the site is some distance from any potential sites,
	l'		therefore, any potential hazards are unlikely to reach the SAC.
	Groundwater	N	This hazard is considered to have negligible potential to cause a likely significant
			effect on the SAC, because grassland is not considered to be vulnerable to this
			hazard output at anticipated levels from regulated developments.
Disturbance	Noise	N	This hazard is considered to have negligible potential to cause a likely significant
			effect on the SAC, because grassland is not considered to be vulnerable to this
			hazard output at anticipated levels from regulated developments.
	Lighting	N	This hazard is considered to have negligible potential to cause a likely significant
			effect on the SAC, because grassland is not considered to be vulnerable to this
			hazard output at anticipated levels from regulated developments.
	Traffic	N	This hazard is considered to have negligible potential to cause a likely significant
			effect on the SAC, because the site is some distance from any potential sites,
			therefore, any potential hazards are unlikely to reach the SAC.
	Impact of	N	This hazard is considered to have negligible potential to cause a likely significant
	building		effect on the SAC, because the site is some distance from any potential sites,
			therefore, any potential hazards are unlikely to reach the SAC.

	Vibration	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because grassland is not considered to be vulnerable to this		
Air Pollution	Dust	N	<ul> <li>hazard output at anticipated levels from regulated developments.</li> <li>While there is a theoretical threat form aerial pollution such as dust which could damage the vegetation on site, the site is 2km from the West Berkshire border and a large distance from any potential sites. Therefore, it is considered that the risk to this site is low.</li> </ul>		
	Traffic (inc. emissions)	N	This hazard is considered to have negligible potential to cause a likely significant effect on the SAC, because the site is some distance from any potential sites, therefore, any potential hazards are unlikely to reach the SAC.		
Other Plans and projects	West Berksh Core Strategy settlement hie Burghfield Co Shefford, Con Lambourn SA Work has star the potential i Oxfordshire Oxfordshire M Past and exis Oxford and D and south we Proposed was Abingdon/Did	Image: Construction       Image: Construction         West Berkshire Council       Core Strategy / Housing Site Allocations DPD – deliver 10,500 new homes to 2026. Focus for housing is within the settlement hierarchy (Urban Areas – Newbury, Thatcham, Eastern Urban Area, Rural Service Centres – Burghfield Common, Mortimer, Theale, Pangbourne, Lambourn, Hungerford, Service Villages – Kintbury, Great Shefford, Compton, Chieveley, Hermitage, Cold Ash, Woolhampton, Bradfield Southend, Aldermaston). The Rive Lambourn SAC has areas in close proximity to Newbury and Thatcham.         Work has started on developing a new Local Plan for West Berkshire, although as this is still at a very early stage the potential impacts on protected sites are unknown. The new Local Plan will be subject to its own HRA.         Oxfordshire County Council       Oxfordshire Minerals and Waste Core Strategy (examination 2016)         Past and existing permitted mineral working areas in Oxfordshire are clustered to the west of Oxford and between Oxford and Didcot. There are a few in the north towards Banbury. There are also small workings in the south eas and south west. Proposed extraction sites are roughly 5km from Hartslock Wood SAC.         Proposed waste sites are clustered around towns of Banbury, Oxford, Bicester and around Abing Cidet Mattage Neglect Allocations 2016 area within Element Hill SAC			
	Vale of White Proposed dev	e Horse velopment site	s just over 5km from the site		

Are the potential impacts of the Plan likely to be significant?				
Alone?	No	This is an isolated site in terms of its location relative to potential waste and minerals development. It is considered that the interest features for which the site is designated are not vulnerable to any of the potential hazards which may result from minerals and waste development. Where there is potential for harm it is not considered that development will be close enough to the site for hazards to have a significant impact on the SAC.		
In combination with other	No	There are no other significant development proposals or plans within close		
plans/projects?		proximity of the SAC.		

Sites

None of the sites being considered for allocation in the Minerals and Waste Local Plan are adjacent to a SAC, or fall within the 7km or 5km SPA buffer.

The only site close to a SAC is Waterside Farm (MW016), which is located 1.3km downstream of the Kennet and Lambourn Floodplain SAC. As the site is downstream of the SAC it is not considered that there would be a significant impact if the site was allocated for mineral extraction.

MW016 Waterside Farm is 1.3km from the Kennet and Lambourn Flood Plain SAC, however is located downstream of the SAC and therefore, there is unlikely to be an impact.



## **Assessment Outcomes**

The policy approach and proposed allocated sites in the Minerals and Waste Local Plan mean that overall there is unlikely to be a significant impact on any European and Ramsar sites as a result of the plan. The geology of West Berkshire and the environmental designation of the AONB, mean that minerals development is to be focused along the Kennet Valley between Thatcham and Theale. The plan does not propose to allocate sites for waste development, rather to safeguard existing waste facilities, none of which are close to any European and Ramsar sites.

#### In combination effects

The screening has identified other relevant plans and projects, and discussed the potential for them to have in combination effects on a European site. The HRA concluded that the integrity of the European sites within the district and those within 5km of the district boundary would not be impacted.

#### Summary

The findings of the screening demonstrate that the policies and proposed sites for allocation to be set out in the Preferred Options DPD will not have any adverse effects on the integrity of European sites.

The policy approach sets out where development will be considered appropriate and what factors will need to be considered. All applications coming forward on proposed allocated sites must comply with relevant policies; these allocations are judged not to have adverse impacts on European Sites, either alone or in combination.

The policies themselves set out in the Preferred Options will direct and manage new development and are not considered to have an effect on any European or Ramsar sites.

The Council is now seeking determination from Natural England that no further investigation, or appropriate assessment, is required under the Habitat Directive for the preferred options Minerals and Waste Local Plan for West Berkshire. The Council will also consult with the Environment Agency and the Berkshire, Buckinghamshire and Oxfordshire Wildlife Trust (BBOWT) on this screening report.