



## Stag Brewery, Mortlake

**Health Impact Assessment** 

For Reselton Properties

February 2018

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#### 1. Introduction

- 1.1 This Health Impact Assessment (HIA) has been prepared by Regeneris Consulting on behalf of Reselton Properties Limited ('the Applicant') in support of three linked planning applications for the comprehensive redevelopment of the former Stag Brewery Site in Mortlake ('the Site') within the London Borough of Richmond Upon Thames ('LBRuT').
- 1.2 The former Stag Brewery Site is bounded by Lower Richmond Road to the south, the river Thames and the Thames Bank to the north, Williams Lane to the east and Bulls Alley (off Mortlake High Street) to the west. The Site is bisected by Ship Lane. The Site currently comprises a mixture of large scale industrial brewing structures, large areas of hardstanding and playing fields.
- 1.3 The redevelopment will provide homes (including affordable homes), accommodation for an older population, complementary commercial uses, community facilities, a new secondary school alongside new open and green spaces throughout. Associated highway improvements are also proposed, which include works at Chalkers Corner junction.
- 1.4 The three planning applications are as follows:
  - Application A hybrid planning application for comprehensive mixed-use redevelopment of the former Stag Brewery site consisting of:
    - i. Land to the east of Ship Lane applied for in detail (referred to as 'Development Area 1' throughout); and
    - ii. Land to the west of Ship Lane (excluding the school) applied for in outline detail (referred to as 'Development Area 2' throughout).
  - Application B detailed planning application for the school (on land to the west of Ship Lane).
  - Application C detailed planning application for highways and landscape works at Chalkers Corner.
- 1.5 Full details and scope of all three planning applications are described in the submitted Planning Statement, prepared by Gerald Eve LLP.
- 1.6 The remainder of this section includes a brief overview of the policy background, the assessment methodology and a review of the local context. Section 2 of this report comprises the assessment.



#### **Policy Background**

- 1.7 Policy at both the national, regional and local level indicates that an HIA is required to be submitted alongside the Application.
- 1.8 The 'National Planning Policy Framework' advocates for development to create 'strong, vibrant and healthy communities' which provide high quality environments with adequate housing supply and accessible local services that reflect community need (para 7).
- 1.9 To this end, NPPG states that Local planning authorities should ensure that health and wellbeing and healthcare infrastructure implications of any relevant proposed local development have been considered.
- 1.10 At the regional level, London Plan 3.2: Improving health and addressing health inequalities, indicates the Mayor will take account of the potential impact of development proposals on health and health inequalities within London and that 'the impacts of major development proposals on the health and wellbeing of communities should be considered, for example through the use of Health Impact Assessments (HIA)'.
- 1.11 At the local level, LB Richmond upon Thames (LB RuT) Local Plan Policy LP 30 Health and Wellbeing states that a Health Impact Assessment (HIA) must be submitted with all major development proposals. According to the Plan, an HIA should assess the health impacts of a development, identifying mitigation measures for any potential negative impacts as well as measures for enhancing any potential positive impacts.

### **Assessment Methodology**

- 1.12 The Council's 'Guidance on Health Impact Assessments, Planning, June 2017' suggests the level of detail required will be dependent on the scale of the development and/or type of development. It also indicates that the HIA should identify both potential harms to be mitigated as well as positive aspects of the development. The guidance refers to the London Healthy Urban Development Unit (HUDU) and the Rapid Health Impact Assessment Tool which has been designed to assess the likely health impacts of development plans and proposals.
- 1.13 The online National Planning Practice Guidance also refers to health impact assessment (HIA) as a useful tool to assess and address the impacts of development proposals (paragraph ref 53-004-20140306). The process looks at the positive and negative impacts of a development as well as assessing the indirect implications for the wider community.



- 1.14 Taking into account both local and national planning guidance, this assessment uses the HUDU's Rapid HIA tool to assess the health impacts of the Proposed Development.
- 1.15 The HIA tool includes 11 different categories developed by HUDU which influence the health and well-being of an area. It does not identify all issues related to health and wellbeing, but focuses on the built environment and issues directly or indirectly influenced by planning decisions. The 11 categories are:
  - Housing quality and design
  - Access to healthcare services and other social infrastructure
  - Access to open space and nature
  - Air quality, noise and neighbourhood amenity
  - Accessibility and active travel
  - Crime reduction and community safety
  - Access to healthy food
  - Access to work and training
  - Social cohesion and lifetime neighbourhoods
  - Minimising the use of resources
  - Climate change.
- 1.16 For each category, the rapid HIA tool has been completed drawing on documents such as the Environmental Statement, Landscape Design and Access Statement, Detailed Design and Access Statement, Transport Statement, Energy Strategy and Sustainability Statements, Open Space and Playing Pitches Assessment and community engagement responses. These documents provide the detailed information in terms of the method of assessing impacts for each of the specialist areas. Where appropriate we reference these documents.

#### **Local Context**

- 1.17 The Site is situated in within the Mortlake and Barnes Common ward (MBC ward), LBRuT. The Socio-Economics Chapter of the ES provides data and analysis on the profile of the local population within the MBC ward as well as the borough and London. This can be summarised as follows:
  - According to the 2011 census, there were around 11,000 people living in the MBC ward having increased by around 10% since 2001. This was above the rate of growth



- in population experience by LBRuT as a whole (8.5%) but below the London average (14%) for the same period.
- The profile of the population in MBC ward is similar to that of LBRuT as well as London. Around 68% of the population in the ward are of working age, which is slightly higher than that of LBRuT (66.7%) and slightly lower than London (69.1%).
- The most recently produced population projections (2014-based Sub-National Population Projections (SNPP)) are not yet available below local authority level, but indicate that for the LBRuT, the population is expected to increase by around +17% between 2016 and 2032, or 34,000 in absolute terms. The 65+ age group is expected to see the greatest percentage change with an increase of +47% compared to +13% for the working age population.
- According to data from the Annual Population Survey (APS) in 2015 economic activity rates for LBRuT stood at 82.8% compared to 77.7% for London. The unemployment rate measured by the APS data was 3.9%, lower than the London average of 6.1%.
- Skills levels in LBRuT are well above the London average with almost 70% of the
  working age population qualified to Level 4+ compared to around 50% for London.
  Furthermore, just over 72% of the population are employed in managerial and
  professional occupations compared to just under 53% for London.
- Up to date labour market information is not available for MBC ward as the APS does
  not provide data at a sub-District level. The last available data is from the Census
  2011 which suggests the MBC ward performs slightly above the LBRuT average with
  higher skills levels and economic activity levels.
- 1.18 The Joint Strategic Needs Assessment (JSNA) for LBRuT describes the current and future health and wellbeing needs of the local population to inform services. The latest available JSNA (2016/17) suggests that LBRuT is in a relatively strong position compared to London:
  - Life expectancy at birth is 81.9 (1.9 years higher than London) in LBRuT for men and 85.9 (1.87 years higher than London) for women;
  - LBRuT is the safest borough in London for violent crime and 4th out of 32 boroughs for crime overall
  - LBRuT has above average levels of green space per head of population and 2nd out of 33 boroughs for bike journeys per day
  - Highest rate of volunteering in London



- Above average levels of education attainment and skills
- 1.19 Despite this positive relative performance, the JSNA identifies areas where improvements are required, these include:
  - Maximising prevention opportunities: estimated numbers of people in LBRuT with unhealthy behaviours are substantial
  - Reducing health inequalities: issues include lower levels of life expectancy for men, high levels of child poverty, variations in educational attainment with ethnicity and those on free school meals, high health costs of the homeless and the high number of unpaid carers in the community.
  - Minimising harms and threats to health: issues include maternal health, vaccination coverage, family context, sexual health, well-being and mental health, cancer screening levels, air quality and noise pollution.
  - Planning for demographic change and promoting independence: issues include
    the ageing population, prevalence of long term health conditions, growth in young
    people and associated demand for school places and preventable emergency
    hospital admissions.
- 1.20 In addition to the above issues, consultation with the Richmond NHS Clinical Commissioning Group and reference to the CCG Strategy and LBRuT Infrastructure Delivery Plan (IDP) has highlighted that a priority within the Borough is to expand care in the community.
- 1.21 The CCG are working towards increasing the number of community based health services, rather than hospitals, closer to where people live. LBRuT CCG are working with Hounslow & Richmond Community Health NHS Trust to establish multi-disciplinary hub teams which will work in the community to address future health care demands.



### 2. Assessment

Assessment criteria	Relevant?	Details/ evidence	Potential health impact	Recommended mitigation or enhancement measures
Does the proposal seek to	Yes	The Detailed Design and Access Statement (D&A Statement)	Neutral	Reserved matters application to confirm
meet all 16 design criteria of		prepared by Squires and Partners which addresses Development		the proposed standards for
he Lifetime Homes Standard		Area 1 confirms that all apartments within Development Area 1		Development Area 2.
or meet Building Regulation		have been designed to comply with the Lifetime Homes		
requirement M4 (2)?		Standards.		
Does the proposal address	Yes	As stated above, the D&A Statement confirms that apartments in	Positive	Reserved matters application to confirm
he housing needs of older		Development Area 1 will comply with the Lifetime Home		the proposed standards for
people, ie assisted living,		Standards. The Statement also indicates that 10% of the		Development Area 2 Use Class C3
ifetime homes and		apartments are capable of being adapted for wheelchair		accommodation.
wheelchair accessible homes?		accessibility. the proposals will meet the requirements of the		
		Building Regulations and Code of Practice in relation to the		
		needs of disabled people. The D&A Statement confirms that the		
		lifetime accommodation needs of an ageing population, young		
		families, children, minorities and the disabled have been		
		addressed through the design of the Proposed Development's		
		scale and community provisions, and in particular its access and		
		connectivity.		
		Development Area 2 includes provision of accommodation for		
		the older population including a nursing home with up to 80 en-		
		suite rooms and up to 150 assisted living units. This provision will		
		help to meet an identified need within the Borough.		



Does the proposal include	Yes	The principle of providing flexible accommodation which meets	Neutral	Reserved matters application to confirm
homes that can be adapted		the lifetime accommodation needs of older and disabled people		the proposed standards for
to support independent living		have informed the evolution of the designs for the site to date,		Development Area 2 Use Class C3
for older and disabled		and will continue to do so. As already noted, the D&A Statement		accommodation.
people?		confirms that 10% of apartments in Development Area 1 will be		
		adaptable for wheelchair accessibility.		
Does the proposal include a	Yes	The Development includes provision of up to 667 dwellings	Positive	Reserved matters application to confirm
range of housing types and		ranging from 1 bedroom to 4 bedroom flats and 3 and 4		the unit mix as well as affordable
sizes, including affordable		bedroom houses. Over 80% of the dwellings will have two or		housing provision within Development
housing responding to local		more bedrooms responding to Local Policy requirement for		Area 2.
housing needs?		family sized housing. A proportion of the units will also be		
		affordable ranging in size from 1 to 4 bedrooms.		
Does the proposal contain		The Sustainability Statement confirms the Development Area 1 is	Neutral	No further mitigation measures required
homes that are highly energy		targeting a BREEAM 'Excellent' rating for residential		
efficient (eg a high SAP		refurbishment at the Maltings. Overall, the Proposed		
rating)		Development is anticipated to achieve a 20.0% reduction in		
		regulated CO2 emissions beyond the requirements of the		
		Building Regulations Part L (2013) 'baseline'		

Assessment criteria	Relevant?	Details/evidence	Potential health impact	Recommended mitigation or enhancement measures
Does the proposal retain or re-provide existing social infrastructure?	Yes	Existing social infrastructure on the Site comprises solely of Watney's Sports ground playing fields which has been used as private access only and not open to the public. This will be lost as part of the Development. However, the playing fields will be reprovided via the proposed Secondary School on Site which	Positive	No additional mitigation measures are required



		includes 10,305 m2 of play space as a semi-enclosed informal		
		play space at roof level, an indoor sports hall and activity studio,		
		an external Multi Use Games Area (MUGA) to the west of the		
		school building and a full sized artificial all weather playing pitch		
		with spectator facilities to the south of the school building. A		
		Community Use Agreement will enable local groups, teams,		
		clubs, organisations and bodies the opportunity to use the		
		external play pitch, indoor sports hall and MUGA of the school		
		out of school hours.		
Does the proposal assess the impact on healthcare services?	Yes	The Socio-Economics Chapter of the Environmental Statement (ES) assesses the potential impact on GP primary healthcare services. It finds that the Proposed Development will increase pressure on local health services, however, there is some existing capacity in GP surgeries within 1 mile of the Development. In addition, the separate Culture and Community Assessment prepared by Regeneris assesses the capacity and impact on intermediate health care services and finds that pressure will also	Negative	Community Infrastructure Fund generated by the Development may be required to offset pressure on existing providers.
		be increased on these services.		
Does the proposal include	No	N/A	N/A	N/A
the provision, or replacement				
of a healthcare facility and				
does the facility meet NHS				
requirements?				
Does the proposal assess the	Yes	The Socio Economics Chapter of the ES assesses the existing	Neutral/	
capacity, location and		capacity and impact of the proposed Development on Early years,	Negative	
accessibility of other social		Primary and Secondary education providers. The Chapter finds		
infrastructure, eg schools,		the Development will yield additional early years, primary years		Negotiations via S106 agreement may
social care and community		and secondary years aged children of varying scales depending		be required to improve the capacity of
facilities?		on which Development Scenario occurs (1a,1b, 2a,2b). The		



		provision of a 6FE secondary school on site will mitigate the		local early years and primary schoo
		demand arising for secondary school places across all		providers.
		Development scenarios. Whereas capacity for additional Primary		
		and Early years places may be insufficient in the worst-case		
		scenarios and additional mitigation measures may be required.		
		The proposed Development also proposes a range of other social		
		infrastructure such as open space, leisure (gym, cinema and		
		retention of Public Houses onsite) and heritage (through		
		preservation of existing listed building and assets.)		
		The Socio Economics Chapter of the ES together with a separate		
		Culture and Community Assessment prepared by Regeneris		
		assesses the existing capacity and impact of the proposed		
		Development on community facilities. Together they find that		
		existing capacity is sufficient, and that onsite provision will help		
		to offset any adverse effects generated by the scheme.		
Does the proposal explore	Yes	A Community Use Agreement has been submitted with the	Positive	No additional mitigation measures
opportunities for shared		application and will enable local groups, teams, clubs,		required
community use and		organisations and bodies the opportunity to use the external play		
colocation of services?		pitch, indoor sports hall and MUGA of the school out of school		
		hours		

Assessment criteria	Relevant?	Details/evidence	Potential health	Recommended mitigation or
			impact	enhancement measures
Does the proposal retain and	Yes	As described in the Socio-Economics chapter of the ES, the Site	Positive	No additional mitigation measures
enhance existing open and		currently has no publicly accessible open space provision.		required
natural spaces?		The Development would result in the loss of 2.06 ha of private		
		open space (Watney's Sports Ground playing fields) but would		
		provide a total of 3.89 ha of publicly accessible open space,		



		including 3.06ha of OOLTI qualifying space. Overall, the amenity		
		space throughout the Site (for Applications A and B) amounts to		
		4.75ha i.e. 51% of the Site area.		
		The Development also includes the upgrade of the existing		
		towpath and the provision of a new flood wall, helping to enliven		
		and activate the riverside space.		
In areas of deficiency, does	Yes	The Socio Economics Chapter of the ES found despite there being	Positive	No additional mitigation measures
the proposal provide new		no publicly accessible open space on the Site the surrounding		required
open or natural space, or		area is well served by open space of all forms. The Site is not		
improve access to existing		within an area 'poorly provided with public open space' as		
spaces?		identified on LBRuT's Proposals Map.		
		3.89ha of publicly accessible open space would be provided		
		throughout the Development. A new 'green link' would dissect		
		the Stag Brewery component of the Site east of Ship Lane and		
		provide a large public open space which would link Mortlake		
		Green to the riverside.		
		Large areas of public realm would be provided between buildings		
		to the west of Ship Lane. A new public community park would be		
		provided to the south of new school and north of the Lower		
		Richmond Road within the Stag Brewery component of the Site		
		west of Ship Lane.		
		The Development will also include a series of paved access and		
		circulation paths for pedestrians and cyclists, seating and play		
		facilities distributed throughout the site, open grassed areas and		
		planting and shade and feature trees. Pockets of open space		
		within the streetscape layout, a community park and various		
		public squares and plazas are interspersed within the masterplan,		
		accentuating activity zones and opportunities for gathering,		



		outdoor recreation and public activities focussed on major community use areas and retained heritage buildings.		
Does the proposal provide a range of play spaces for children and young people?	Yes	The Development includes provision of up to 4,084m2 GEA of children's play space with a further 10,305m2 GEA of play space provided as part of the 6FE Secondary School bringing total on-Site provision of up to 14,353m2. The Socio-Economics chapter of the ES confirms this more than sufficient to accommodate additional	Positive	No additional mitigation measures required
		demand arising from the Development  Play facilities for different age groups are positioned within residential courtyards, parks, plazas and open space areas throughout the Development, to achieve the required areas of play		
		<ul> <li>and the distribution related to residential units, as follows:</li> <li>Doorstep Play (0-4yrs) within 100 m of residential units;</li> <li>Local Play space (5-11yrs) 400 m of residential units;</li> <li>Neighbourhood Space (12+yrs) 800 m of residential units; and</li> </ul>		
		<ul> <li>Play on the way (all ages).</li> <li>Play elements and facilities are provided in a range of forms within the public and private realms of the Development, including</li> </ul>		
		designated and fenced playgrounds, unfenced but contained play spaces with a range of play elements and carer seating, topographic variation and play opportunities in the landscape (within planting areas) and 'play on the way' elements within		
		circulation spaces and public realm areas. This provision and distribution of play facilities within the Development has been		



		developed in line with the GLA (Play and Informal Recreation SPG		
		2012) and the LBRuT (Planning Obligations SPD 2014).		
Does the proposal provide	Yes	In line with the aspirations of the Stag Brewery Planning Brief, a	Positive	No additional mitigation measures
links between open and		new 'green link' will dissect the eastern side of the site and		required
natural spaces and the public		provide a large open space which will link Mortlake Green to the		
realm?		riverside.		
		The green link will culminate at the Maltings Plaza, a new large		
		public square which has been designed to connect to the		
		surrounding buildings, the green link and the riverside		
		It is also proposed to provide a new riverside walk which would		
		reach from Maltings Plaza to Bulls Alley. These works, along with		
		the proposed works to upgrade the existing towpath and the		
		provision of a new flood wall, will help to enliven and activate the		
		riverside space.		
		Through provision of a network of green open spaces and street		
		tree planting across the site, the masterplan contributes to the		
		green infrastructure of the local area and creates new linkages		
		and extensions of tree planting and open space facilities within		
		the area.		
		A fundamental element of the masterplan is to provide additional		
		links into and through the site to access the river and tow path.		
		The new layout and built form integrates a number of 'street'		
		links through the site from Lower Richmond Road and Mortlake		
		High Street and public access is also provided through the		
		building plots and residential courtyards between the buildings.		
Are the open and natural	Yes	The Landscape D&A Statement (Gillespies) confirms that	Positive	No mitigation measures required
spaces welcoming and safe		pedestrian access within the site has been designed to meet the		
and accessible for all?		needs of disabled people, creating a barrier free environment. It		



		is also proposed that all pedestrian routes will comply with		
		relevant standards including layout, lighting and signage.		
Does the proposal set out	Yes	A Framework Estate Management Plan submitted with the	Neutral	Detailed Estate Management Plan to be
how new open space will be		Application sets out the suggested approach to site		agreed and finalised as part of Planning
managed and maintained?		management, including the management and maintenance of		Condition or Section 106 Agreements.
		open space. A final plan will be required as part of a Planning		
		Condition or Section 106 Agreement.		

Assessment criteria	Relevant?	Details/evidence	Potential health	Recommended mitigation or
			impact	enhancement measures
Does the proposal minimise	Yes	It is intended that contractors for the School (Application B) and the	Negative/Neutr	Implementation of mitigation measures
construction impacts such as		Masterplan (Application A) and Chalkers Corner (Application C) will	al	identified in Chapter 9 and 10 of the ES
dust, noise, vibration and		comply with The Control of Dust and Emissions during Construction		
odours?		and Demolition SPG, and will also be required to identify potential		
		sources of dust and other air pollution and ensure appropriate dust		
		control measures are implemented.		
		It is also intended that the main contractor will register under the		
		Considerate Constructors Scheme and achieve a best practice score,		
		in order to achieve the associated BREEAM credits.		
		The Detailed D&A Statement confirms a number of measures will		
		be taken during the construction period to mitigate noise, these		
		include:		
		Use of hoarding during construction period		
		Use of modern, quiet and well-maintained machinery		
		Exhaust silencers to be fitted to construction vehicles		



- Works would be limited to the specified hours
- Liaison with the occupants of adjacent properties most likely to be affected by noise or vibration
- Positioning plant as far away from residential property as physically possible
- Appropriate plant noise emission limits have been set for building services and plant

Does the proposal minimise air pollution caused by traffic and energy facilities?

Yes

The Sustainability Statement confirms the Proposed Development Neutral will be serviced through the provision of CHP engines with appropriate NOX abatement technologies located across three dedicated energy centres (2 for the Masterplan and 1 for the School), supported by additional gas boilers.

The boilers will be selected with low NOx emissions to reduce the impact on local air quality.

Chapter 10 of the ES confirms that Computer modelling has been undertaken to assess the impact of the Development on local air quality (from transport emissions and emissions from the proposed energy centre). An interim assessment was completed and the masterplan designed to ensure air quality conditions are suitable for future users. The results show with the Development in place, the effects to existing sensitive receptors would be insignificant. Specifically at Chalkers Corner:

 the realignment would improve air quality concentrations at properties at Lower Richmond Road but would worsen some properties at Chertsey Court. Implementation of mitigation measures identified in Chapter 10 of the ES



		<ul> <li>Landscaping including a wall and new mature planting will improve the predicted air quality concentrations in Chertsey Court.</li> </ul>
		<ul> <li>a modelling scenario without the highways works but with the         Stag Brewery element of the Development shows the         realignment acts as mitigation from the impact of the Stag         Brewery element of the Development.</li> <li>Overall, the Development introduces measures that would benefit         local air quality e.g. electric vehicle charging points; cycle routes         and pedestrian ways; new car club spaces; etc         An Air Quality Assessment with further details of receptors,         significance of effects and appropriate mitigation measures has         been carried out in Chapter 10 of the ES.</li> </ul>
Does the proposal minimise noise pollution caused by traffic and commercial uses?	Yes	Noise attenuation measures will be incorporated on-site where required, to ensure that any noise generated by equipment or services will not generate a source of noise pollution or negatively impact the surrounding area. The Detailed D&A Statement confirms these include:  Procurement of 'quiet' non-tonal plant  Locate plant and air vents away from sensitive receptors  Acoustic enclosures  In-duct attenuators  Acoustic louvres  Isolation of plant from building structures



 Managing deliveries and servicing requirements of retail, office and leisure tenants and managing hours of operation of the for any servicing areas and loading bays

The Site is located in an area with a high level of background noise. High efficiency mechanical ventilation will be available to provide ventilation to the spaces in addition to the option to use natural ventilation. This will aid noise attenuation as occupants will not be reliant on opening windows to maintain good indoor air quality and control internal temperatures.

A Noise Assessment with further details of receptors, significance of effects and appropriate mitigation measures has been carried out in Chapter 9 of the ES.

Assessment criteria	Relevant?	Details/evidence	Potential health	Recommended mitigation or
			impact	enhancement measures
Does the proposal prioritise	Yes	The Transport Assessment (PBA) confirms the access strategy	Positive	Implementation, on-going monitoring
and encourage walking (such		gives priority to both pedestrian and cycle movement. The		and review of the Framework Travel Plan
as through shared spaces?)		proposals include the provision of a new 20 mph zone along the		(PBA)
		A3003 frontage and on Sheen Lane, to the north of the railway		
		crossing together with new pedestrian crossing facilities over		
		Mortlake High Street and Lower Richmond Road and enhanced		
		provision at the Chalkers Corner junction to access the TfL Quiet		
		Way scheme		
		These measures are in accordance with the Planning Brief. Within		
		the Site itself, priority for pedestrian and cycling movement is		



		achieved by limiting vehicular access and movement at ground		
		level and by carefully managing the movement of service		
		vehicles.		
Does the proposal prioritise	Yes	As noted above, the Development prioritises both cycling and	Positive	Implementation, on-going monitoring
and encourage cycling (for		pedestrian movement both in accessing the Site and within the		and review of the Framework Travel Plan
example by providing secure		Site itself.		(PBA)
cycle parking, showers and		The Transport Assessment confirms provision of high quality		
cycle lanes)?		cycle parking has been accorded a high priority. The volume of		
		cycle parking will at least meet the minimum standards required		
		by the GLA and design will be in accordance with the principles		
		set out in the London Cycling Design Standards.		
		For the Detailed Application, cycle parking for residents, and long		
		term parking for the non-residential uses will be provided within		
		secure locations within the basement. This will include a cycle		
		hub providing showers and changing facilities. Cycle access to		
		the basement will be either via one of the two access ramps or		
		via a bespoke cycle lift.		
		For the Outline application the majority of parking will again be		
		provided within the basement car parks but with short stay		
		provision and provision for non-standard bikes at the ground		
		level.		
		Cycle parking for the school will be provided in accordance with		
		the requirements for the number of pupils and staff. Further		
		space has also been reserved should there be future demand for		
		a cycle hire scheme within the site.		
Does the proposal connect	Yes	Access routes will be created throughout the Site, and will link	Positive	Implementation, on-going monitoring
public realm and internal		the eastern part of the site to the western part of the site (and		and review of the Framework Travel Plan
routes to local and strategic		beyond), Mortlake Green and from Mortlake.		(PBA)
cycle and walking networks?				



		Key features include the creation of a wide access route between		
		Lower Richmond Road and the riverside which is then linked to		
		Mortlake station through a relocated pedestrian crossing and		
		new pedestrian route through Mortlake Green. The development		
		would also provide a new "high street" to the east of Ship lane		
		running parallel to Mortlake High Street which also act as part of		
		a new east to west cycle route that will link Clifford Avenue in the		
		west with Mortlake High Street at the eastern end of the Site and		
		will provide direct access to the new secondary school.		
		The Transport Strategy, prepared by PBA the Landscape D&A		
		Statement, prepared by Gillespies demonstrate how the on-site		
		proposals link into the wider networks serving the area.		
Does the proposal include	Yes	The on-site access strategy is complemented by proposals to	Neutral	Implementation, on-going monitoring
traffic management and		introduce a 20 mph zone along the Lower Richmond Road –		and review of the Framework Travel Plan
calming measures to help		Mortlake High Street frontage as well as onto the northern end of		(PBA)
reduce and minimise road		Sheen Lane (to be secured via S278).		
injuries?		The Chalkers Corner Proposals aim to improve the capacity of the		
		main highway access into Mortlake in order to help address		
		concerns regarding traffic congestion at this location. The		
		proposals also improve pedestrian and cycle access at this key		
		location including provision of a wider pedestrian island within		
		the lower Richmond arm of the junction.		
		As part of the scheme TfL have requested the provision of a bus		
		stop clearway on the westbound Lower Richmond Road approach		
		to the junction to replace the existing simple flag stop. This will		
		allow buses to pull into the kerb which currently they are not able		
		to do and will provide a safer bus stop environment.		
		Within the Site itself the access strategy gives priority to		
		pedestrian and cycle movement. Priority for pedestrian / cycle		



		movement is achieved by limiting vehicular access and		
		movement at ground level and by carefully managing the		
		movement of service vehicles		
Is the proposal well	Yes	The Transport Assessment notes the Site currently has an overall	Neutral	Implementation, on-going monitoring
connected to public		PTAL rating of 1, however, it has been agreed with TfL that in		and review of the Framework Travel Plan
transport, local services and		reality the rating should be 2. The Transport Strategy		(PBA)
facilities?		demonstrates the wide variety of locations that can be easily		
		accessed from the Site and the interchange facilities available		
		which provide easy access to the wider strategic network serving		
		London and the wider South East Region. The rail services from		
		Mortlake provide for easy access to a very extensive area through		
		interchange at Clapham Junction, Richmond, Victoria or Waterloo		
		whilst the various bus services that serve the area provide links to		
		a very extensive area of London and again provide access to a		
		number of important strategic interchanges, including		
		Hammersmith.		
Does the proposal seek to	Yes	The Transport Strategy and Framework Travel Plan (PBA)	Neutral	Implementation, on-going monitoring
reduce car use by reducing		considers that the amount of car parking should reflect an		and review of the Framework Travel Plan
car parking provision,		appropriate balance between providing adequate parking in this		(PBA)
supported by the controlled		location and encouraging more sustainable modes of travel		
parking zones, car clubs and		(cycling and public transport) This approach has been supported		
travel plans measures?		by TfL and in discussions with LBRuT officers and at Members		
		briefings.		
		Overall 696 spaces are proposed, which has been agreed as		
		appropriate by TFL. As a minimum, the requirements of the		
		London Plan will be met in terms of the provision of electric		
		charging points. Alternative car club providers have been		
		approached and they have confirmed that they are interested in		
		providing a car club service at this development. The car club is		



		proposed to be located on Ship Lane so as to be in a central location within the site to serve both the residential and non-residential uses		
Does the proposal allow people with mobility problems or a disability to access buildings and places?	Yes		ive	Implementation, on-going monitoring and review of the Framework Travel Plan (PBA)
		The Transport Strategy confirms priority will be given to the mobility impaired in the allocation of parking spaces, accordingly		



Assessment criteria	Relevant?	Details/evidence	Potential health	Recommended mitigation or
			impact	enhancement measures
Does the proposal	Yes	The D&A statement confirms that consultation has been	Neutral	No mitigation measures required
ncorporate elements to help		undertaken with the Metropolitan Police Secure By Design		
design out crime?		officers.		
		The design has been formulated to comply with the general		
		principles of Secured By Design (SBD). A number of measures to		
		reduce or minimise crime will be (or have been) implemented,		
		these include:		
		Ground floor level private garden areas will be provided behind		
		railings in order to clearly define private space and to provide a		
		more secure threshold to ground floor level dwellings.		
		• The publicly accessible landscaped areas will be designed to		
		avoid areas that are hidden from view.		
		Main entrances to residential buildings will be from well lit main		
		streets and or pedestrian routes through the site.		
		Basement level car parking will have a management strategy that		
		limits access to the basement level during evening hours.		
		Further security measures include CCTV and access control.		
Does the proposal	Yes	The Development would animate and activate the Site and the	Neutral	No mitigation measures required
ncorporate design		mix of uses would mean there would be a new residential		
echniques to help people		population as well as employees and visitors to the Site, in short,		
eel secure and avoid creating		the whole site will be publicly open and accessible. The proposed		
gated communities'?		mix and layout of land uses, high street and publicly accessible		
		spaces would provide active frontages at ground floor level and		



		encourage activity at all times throughout the day. This would		
		maximise natural surveillance, thereby reducing the opportunity		
		for crime and improving perceptions of safety.		
		Furthermore, the Development would include pedestrian routes		
		through the Site which would open up the Site improving access		
		and permeability in and around the Site. This would help to		
		ensure a safe environment for pedestrians.		
		The D&A statement confirms a detailed Lighting Strategy has		
		been developed and is covered in detail in the Lighting Concept		
		section of this report. The overall strategy has been developed in		
		conjunction with the landscape and public realm to allow		
		extended use of amenity spaces and safety and security		
		throughout the site.		
Does the proposal include	Yes	A wide variety of different types of open space, public amenity	Positive	No mitigation measures required
attractive, multi-use public		and recreational areas are proposed as part of the development,		
spaces and buildings?		which will be fully accessible to the public and provide public		
		spaces for community interaction.		
Has engagement and	Yes	The Statement of Community Involvement (February 2018)	Positive	No further mitigation measures required
consultation been carried out		confirms that consultation has been carried out with the local		
with the local community?		community at all stages of the Masterplan Evolution in order to		
		build awareness, initiate contact and engage with the wider		
		community, obtain current opinions and address issues and		
		concerns.		

Table 2.7: Access to Healthy Food					
Assessment criteria	Relevant?	Details/evidence	Potential health	Recommended mitigation or	
			impact	enhancement measures	



Does the proposal facilitate	Yes	The Site does not contain any existing spaces for growing food.	Positive	Further consideration via Reserved
the supply of local food, ie		Dwellings in Development Area 1 will be provided with rooftop		Matters application of how amenity areas
allotments, community farms		gardens, terraces and balconies to allow the growth of food-		in Development Area 2 could also be
and farmers' markets?		related plant species if desired. To the south of the proposed		used for food growing.
		Secondary School there is land which can be utilised for food		3 3
		growing.		
Is there a range of retail uses,	Yes	The Development includes provision of 4,664 sq m floorspace	Neutral	No further mitigation measures required.
including food stores and		which is being applied for flexibly but will include a minimum		
smaller affordable shops for		provision of 1,255 sq m Use Class A1. Other uses are likely to		
social enterprises?		include A2, A3 and A4 retail space as part of the flexible use		
		floorspace element of the Development, along with B1 and D1		
		uses and a boathouse. Maximum caps are proposed for each		
		Use Class to encourage a mix and range of uses. Each cap on		
		floorspace use is not large and there will likely be a range of		
		units of a relatively small size. This approach will allow flexibility		
		and enable the scheme to better respond to local demand.		
Does the proposal avoid	No	No Use Class A5 floorspace is proposed as part of the	N/A	N/A
contributing towards an		Development		
overconcentration of hot food				
takeaways in the local area				

Table 2.8: Access to Work and Training					
Assessment criteria	Relevant?	Details/evidence	Potential health	Recommended mitigation or	
			impact	enhancement measures	
Does the proposal provide	Yes	The Socio Economics chapter of the ES finds that up to 1,110 FTE	Positive	Measures to target local employment	
access to local employment		construction related jobs per annum will be created during the		during Site preparation and construction	
and training opportunities,		Works. A Local Area Agreement is required by the emerging			



including temporary		Local Plan and would help to ensure local residents have access		to be secured through a Section 106
construction and permanent		to these job opportunities. Between 499 (scenario 2a) and 649		agreement.
'end-use' jobs?		(scenario 1b) FTE jobs are likely to be generated within LBRuT.		
		These jobs will provide opportunities for local residents to access		
		employment across a wide range of occupations and sectors.		
Does the proposal provide	No	The Development does not currently include provision of built in	Neutral/Negati	Contributions may be required via
childcare facilities?		childcare facilities. The Socio Economics chapter of the ES found	ve	planning conditions in order to improve
		there to be adequate provision at present, but that in the future		the capacity of existing providers where
		pressure on capacity will increase, the scale of which will depend		necessary.
		on the Development scenario that occurs.		
Does the proposal include	Yes	The Development will include up to 2,424 sq m (GIA) of	Positive	Detailed design of flexible floorspace
managed and affordable		dedicated Use Class B1 business space, 10% of which will be		uses to be agreed controlled via
workspace for local		affordable subject to viability. As part of the flexible floorspace		planning condition.
businesses?		element of the scheme, further Use Class B1 floorspace could be		
		provided up to a maximum of 2,000 sq m.		Provision of affordable workspace to be
				agreed subject to viability assessment
				via S106 agreement.
Does the proposal include	Yes	In line with Policy LP29 of the Local Plan publication version, the	Positive	Local Employment Agreement to be
opportunities for work for		Applicant intends to secure a Local Employment Agreement		secured as part of S106 agreement for
local people via local		during the construction phase of the Development.		the construction phase.
procurement arrangements?				

Table 2.9: Social Cohesion and Lifetime Neighbourhoods					
Assessment criteria	Relevant?	Details/evidence	Potential health	Recommended mitigation or	
			impact	enhancement measures	
Does the proposal connect	Yes	The network of open spaces and range of different community	Positive	No mitigation measures required.	
with existing communities, ie		facilities throughout the site have been designed to encourage			



layout and movement which		social interaction. This will be complemented by the proposed		
avoids physical barriers and		access points and network of walking and cycling routes which		
severance and land uses and		will link existing communities with new leisure and recreation		
spaces which encourage		facilities.		
social interaction?				
Does the proposal include a	Yes	The Development includes a wide range of different uses	Positive	Detailed design of flexible use units to
mix of uses and a range of		including residential, commercial, leisure, and education and as		be agreed via planning condition.
community facilities?		well as a range of open space and play space facilities, including		
		provision for children and young people.		
		As part of the flexible use provision, there is potential for a		
		maximum of 1,148 sq m of GIA of community space.		
Does the proposal provide	Yes	The Development includes up to a maximum 1,148 sq m GIA of	Positive	Planning condition to control the type,
opportunities for the		community space as part of the flexible floorspace provision. The		amount and nature of community
voluntary and community		Development also includes 10,305 sq m of play space associated		floorspace as part of the flexible
sectors?		with the school and comprising a semi-enclosed informal play		floorspace designation.
		space at roof level, an indoor sports hall and activity studio, an		
		external Multi Use Games Area and a full sized artificial all		
		weather playing pitch with spectator facilities. A Community Use		
		Agreement has been submitted with the application which will		
		enable local groups, teams, clubs, organisations and bodies to		
		use the external play pitch, indoor sports hall, activity studio and		
		MUGA of the school out of school hours.		
		In addition, the variety of open space provided as part of the		
		Development will be accessible to all and could be used by local		
		community groups with interests in nature, wildlife, exercise etc		
Does the proposal address	Yes	The Development addresses the following principles of lifetime	Positive	Planning Conditions (in relation to
the principles of Lifetime		neighbourhoods:		Development Area 1) and Reserved
Neighbourhoods?		Access: multiple pedestrian and cycling routes will be provided		matters application (in relation to
		throughout the site, which will enable residents to get out and		• •
				Development Area 2) to specify in more



about and connect with people and services in the immediate neighbourhood and beyond. Pedestrian access within the site has been designed to meet the needs of disabled people by creating a barrier free environment.

**Services and amenities:** The Development includes new retail and commercial floorspace which will provide local amenity and employment opportunities and complement the existing offer in Mortlake.

**Built and natural environments**: the proposals aspire to meet Secure By Design standards by providing safe and welcoming environments (although not yet certified). The proposals provide good access to a range of different types of open space which will promote social interaction and active lifestyles.

Social networks/well being: the proposals do not directly outline how opportunities for learning/training, social interaction and volunteering will be encouraged. However (as described above) the range of different uses and types of open space will provide an environment for these types of activities to take place.

**Housing:** the Development includes a mix of different house types and sizes, a proportion of which will be affordable housing as well accommodation for the elderly population and will be suitable to meet a diverse range of needs.

detail how it addresses the principles of lifetime neighbourhoods. Specifically, the application should:

- Demonstrate that the design is SBD certified
- Ensure there is safe and affordable access to key amenities including banks, shops, and key employment centres
- Specify the provision of affordable housing by tenure

Table 2.10: Minimising Use of Resources						
Assessment criteria	Relevant?	Details/evidence	Potential health	Recommended mitigation or		
			impact	enhancement measures		



Does the proposal make best	Yes	The Masterplan has been designed to respond to the context in	Positive	No additional mitigation measures
use of existing land?	. 00	which it sits and to bring back in to use a redundant industrial		required
3		site to provide a new village heart for Mortlake. The D&S		·
		statement confirms the Masterplan responds to various		
		environmental constraints to ensure development only takes		
		place where it can be found acceptable.		
		All new buildings will be on previously developed land and		
		optimises the use of the land making efficient use of it.		
Does the proposal encourage	Yes	The D&S statement confirms that materials are selected for	Neutral	No mitigation measures required
recycling (including building		durability and functionality as well as appearance. Where		
materials)?		feasible, materials will utilise recycled and recyclable materials		
		and techniques and minimise energy and resource use		
		throughout their lifecycle.		
		A Resource Management Plan (RMP) will be produced that will		
		outline how recycling of construction, demolition and excavation		
		material can be maximised and reused on site.		
		Recyclable waste storage will be provided for the occupants to		
		manage their operational waste.		
Does the proposal	Yes	The Sustainability Statement notes a number of sustainable design	Neutral	No mitigation measures required
incorporate sustainable		features. Building elements will be selected in accordance with the		
design and construction		BRE Green Guide to Specification, with the aim of selecting	RE Green Guide to Specification, with the aim of selecting	
echniques?		elements in the range A+ to C to minimise environmental impact.		
		All timber used at the Proposed Development will be FSC certified		
		and where possible and practicable materials will be locally		
		sourced.		
		Buildings will be designed to achieve high levels of energy		
		efficiency and will include a number of efficiency reduction		
		measures. Measures to include renewable energy and low carbon		



technologies are confirmed in the Sustainability Strategy, including PV arrays.

Assessment criteria	Relevant?	Details/evidence	Potential health	Recommended mitigation or
			impact	enhancement measures
Does the proposal	Yes	The Sustainability Statement confirms the inclusion of on-site	Neutral	Reserved matters application to identif
ncorporate renewable		renewable energy generation has been assessed.		further opportunities to increase the
energy?				area of the PV array in relation to
		In respect of the Outline Application, it is anticipated that a PV array		Development Area 2.
		with a total area of 520m2 would be provided on the roof area of		
		the Proposed Development. Based on the solar irradiance data for		
		London, an array of this size would generate approximately		
		57,200kWh of electricity per annum, reducing CO2 emissions by		
		30tonnes per annum. This is equivalent to a reduction in regulated		
		CO2 emissions of 1.0% beyond the Building Regulations Part L		
		(2013) 'baseline' for the anticipated emissions of the Proposed		
		Development. Further opportunities to increase the area of the PV		
		array will be provided in the reserved matters submission(s).		
		A total solar PV system size in the region of 520m2 array area will		
		be included in Development Area 1 for Application A of the		
		Proposed Development.		
		Based on the solar irradiance data for London, an array of this size		
		would generate approximately 57,200kWh of electricity per annum,		
		reducing CO2 emissions by 30.0 tonnes per annum. This is		
		equivalent to a reduction in regulated CO2 emissions of 2.6%		



		beyond the Building Regulations Part L (2013) 'baseline' on the CO2		
		emissions of Phase 1.		
Does the proposal ensure	Yes	, s	utral	Reserved matters application to identif
that buildings and public		to the adaption and mitigation of the effects of climate change,		detailed design measures for
spaces are designed to		designed to enable sunlight access, and to minimise		Development Area 2.
respond to winter and		overshadowing and adverse wind conditions.		
summer temperatures, ie		The Detailed D&A statement indicates that Development Area 1 will		
ventilation, shading and		aim to maximise sun light and day light via the following measures:		
landscaping.		Ground floor level units sit flush with outer face of upper level		
		balconies to avoid overshadowing of fenestration		
		<ul> <li>Living/ kitchen windows provided on outer face of buildings (at</li> </ul>		
		all levels) to avoid overshadowing of fenestration by projecting		
		balconies		
		Play space has been distributed in landscaped areas that receive		
		greater amounts of light		
		In addition, the Proposed Development has been designed in		
		accordance with the cooling hierarchy to minimise cooling demand		
		and limit the likelihood of high internal temperatures. Mitigation		
		measures such as suitable glazing ratio and g-value, appropriate		
		ventilation levels and minimisation of internal heat gains will be		
		implemented. Through these measures, relevant areas of the		
		Proposed Development will achieve compliance with Criterion 3 of		
		the Building Regulations Part L (2013).		
Does the proposal maintain	Yes	The D&S statement confirms it is proposed to implement Pos	sitive	No mitigation measures required
or enhance biodiversity?		extensive green / brown roof systems on a number of the		
		buildings with flat roofs, exploiting the ecological potential of		
		upper levels and to provide biodiversity and energy benefits, as		



well as contributing to stormwater drainage and short-term attenuation storage.

Each roof will be seeded with plant species collected from the site or nearby, to boost local endemic habitat and foraging for local species. Certain features will be introduced to maximise potential for biodiversity and habitat for target species. These will include log piles, slabs or twigs gathered from the local area, combined with bird and bat boxes noted below. Where possible, the substrate depth will be varied to provide opportunities for small pools of water to collect on the roof

New planting will be incorporated close to the river edge, responding to the existing flora located in the community park to the south of the proposed School.

Does the proposal incorporate sustainable urban drainage techniques

Yes

The D&A statement confirms surface treatments in the public and Neutral private realm are proposed as predominantly permeable, with soft landscape, turf and grasses, together with permeable pavements of gravel (self-binding or bonded) as a contrast to hard paving surfaces.

Paved areas will be designed where feasible to drain into tree pits and planting areas, providing natural watering and assisting infiltration and storage of stormwater. A designed 'rain garden' forms a landscape feature within the central Green Linear Park, draining one side of the pavement directly into a planted storage 'trench' which ultimately connects to the stormwater attenuation system. This feature provides an effective sustainable drainage system while creating an obvious sustainable feature in the public realm, accentuating the visibility of sustainable measures taken in the development.

No mitigation measures required



## 3. Summary/Conclusions

- 3.1 The HIA has been conducted where the findings can be used to inform the evolution of the design for the Detailed and Outline elements of the Applications as well as when the application as a whole progresses to the reserved matters stage.
- 3.2 At this stage, the findings suggest that the Development will lead to a number of positive health impacts. The key positive impacts are as follows:
  - Housing: the Development will provide up to 667 residential units of varying size and tenure making a contribution to the borough's annual housing target as well as helping to meet local demand for family housing, affordable housing and housing for the older population.
  - Social Infrastructure: the Development includes provision of education, leisure and community uses therefore improving the current provision of social infrastructure in the local area.
  - Improved access to open space and nature: the Site currently has no publicly accessible open space provision. The Development would result in the loss of 2.07 ha of private open space but would provide a total of 3.89 ha or publicly accessible open space. Overall, the amenity space throughout the Site amounts to 4.57 ha i.e. 51% of the Site's area.
  - Pedestrian and Cycling Activity: The Development prioritises pedestrian and cycling modes of travel, both in terms of accessing the Site and within the Site itself.
  - Access to work and training: The construction phase of the Development will generate up to 1,110 FTEs per annum over an 8-year period. A local Employment Agreement will ensure that local residents have access to these employment opportunities. Once completed, the Development will generate long term employment opportunities of between 499 and 649 FTEs across a range of different occupations and sectors.
  - Best use of existing land: The Masterplan has been designed to respond to the
    context in which it sits and to bring back in to use a redundant industrial site to
    provide a new village heart for Mortlake. The D&S statement confirms the
    Masterplan responds to various environmental constraints to ensure development
    only takes place where it can be found acceptable. All new buildings will be on



previously developed land and optimises the use of the land making efficient use of it.

- 3.3 The HIA has identified a number of mitigation or enhancement measures which should be considered during the determination period and controlled by agreed planning conditions and for within the reserved matters stage of Development Area 2. The key measures are:
  - Further consideration and detail via planning condition (Development Area 1) and reserved matters (Development Area 2) on the quantum, mix and tenure of affordable housing provision
  - Further consideration and detail via reserved matters (Development Area 2) on how the designs for housing will meet Lifetime Home Standards
  - Planning conditions will be used to control the type and nature of the proposed flexible uses
  - Provision of affordable workspace to be agreed subject to viability assessment via \$106/CIL agreement.
  - Development of a Travel Plan in line with the principles and timelines set out in the Transport Assessment which will promote sustainable modes of transport whilst providing adequate parking facilities.
  - An application for SBD certification. The feedback received should influence the detailed design of the site and ensure that crime and anti-social behaviour is minimised and that local residents feel secure
  - Further consideration and detail on the waste reduction techniques, recycling and renewable technologies which will be incorporated in to the designs for Development Area 2
  - Detailed Estate Management Plan to be agreed and finalised as part of Planning Condition or Section 106 Agreements.
  - Implementation of all embedded mitigation and mitigation measures proposed in the chapters of the ES





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