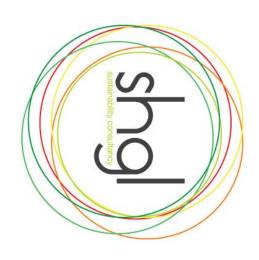


SHGL is a member of The Building Consultancy Group

Sustainability Statement for Camden Council

26-27 Kirby Street, Camden, London, EC1N 8TE



Sustainability Statement 26-27 Kirby Street, Camden, London, EC1N 8TE



Client: Peter Tuson
Furo Mounts

Euro Mounts and Findings,

Antwerp House, 26-27 Kirby Street, EC1N 8TE

Antwerp

Site:

Antwerp 26-27 Kirby Street, Camden,

London, EC1N 8TE

Proposals:

An existing office building over three storey's with a basement, which is to be extended to add three new storey's above refurbished office space. The proposed storey's are to be three new residential apartments.

Report Details:

Carina Clarke BSc (hons) Peter Kinsella BSc (hons) 06.10.2015 Rev2	Prepared by	Checked by	Date	Version
	Carina Clarke BSc (hons)	Peter Kinsella BSc (hons)	06.10.2015	Rev2



prepared. responsibility or liability for any use that is made of this document other than by the Client for the purposes for which it was originally commissioned and This document has been prepared solely as a Sustainability Statement for Peter Tuson Sustainable Homes and Gardens Ltd (SHGL) accepts no

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26-27 Kirby Street, Camden, London, EC1N 8TE



This sustainability report has been prepared in support of the planning application for the construction of three new flats above refurbished office

to meet, while also providing an approach the proposed site can adopt to meet the sustainability standards of the London Plan. Planning Guidance on Sustainable Design and Construction (2014). The report will provide details of the standards to which the proposed site will need The report responds to the Local Planning Authority's Core Strategy which sets out the requirement to comply with The London Plan Supplementary

planning polices for the Sustainability Statement. Camden District Council Core Strategy requires that a ~Sustainability Statement is required for planning submission of new sites. Below highlights the

National Planning Policy

Consolidated London Plan 2015 which refers to Policy 5.3 Sustainable Design and Construction 2014

The Consolidated London Plan is now required to be considered with all planning applications

Policy 5.3 Sustainable Design and Construction

developments and to adapt to the effects of climate change over their lifetime. A - The highest standards of sustainable design and construction should be achieved in London to improve the environmental performance of new

Planning Decisions

operation, and ensure that they are considered at the beginning of the design process. B - Development proposals should demonstrate that sustainable design standards are integral to the proposal, including its construction and



the following sustainable design principles: this should be clearly demonstrated within a design and access statement. The standards include measures to achieve other policies in this Plan and C - Major development proposals should meet the minimum standards outlined in the Mayor's supplementary planning guidance and

b avoiding internal overheating and contributing to the urban heat island effect a minimising carbon dioxide emissions across the site, including the building and services (such as heating and cooling systems

d minimising pollution (including noise, air and urban runoff) c efficient use of natural resources (including water), including making the most of natural systems both within and around buildings

e minimising the generation of waste and maximising reuse or recycling

f avoiding impacts from natural hazards (including flooding)

h securing sustainable procurement of materials, using local supplies where feasible, and g ensuring developments are comfortable and secure for users, including avoiding the creation of adverse local climatic conditions

i promoting and protecting biodiversity and green infrastructure.

LDF Preparation

outlined above and those which are outlined in the Mayor's supplementary planning guidance that are specific to their local circumstances D - Within LDFs boroughs should consider the need to develop more detailed policies and proposals based on the sustainable design principles

The Consolidated London Plan (March 2015) has been used for the basis of this report, while also using the following local authority policies:

Camden Council Local Authority Policies

Policy DP22 Sustainable Design and Construction

Reducing the effects of and adapting to climate change

a) ensuring patterns of land use that minimise the need to travel by car and help support local energy networks; to meet the highest feasible environmental standards that are financially viable during construction and occupation by: "The Council will require all development to take measures to minimise the effects of, and adapt to, climate change and encourage all development

b) promoting the efficient use of land and buildings;

Street, Bloomsbury and proposed Euston Road decentralised energy networks; - generating renewable energy on-site; and the following energy hierarchy: - ensuring developments use less energy, - making use of energy from efficient sources, such as the King's Cross, Gower c) minimising carbon emissions from the redevelopment, construction and occupation of buildings by implementing, in order, all of the elements of



to the cost of installing measures to tackle climate change as well as the cumulative future costs of delaying reductions in carbon dioxide emissions d) ensuring buildings and spaces are designed to cope with, and minimise the effects of, climate change. The Council will have regard

Ensuring developments use less energy

supplementary document. Building Research Establishment's Environmental Assessment Method (BREEAM) and the Code for Sustainable Homes provide helpful assessment tools Development Policies provides further guidance on what measures can be implemented to achieve an environmentally sustainable building. The cooling design, lighting and source of energy can further reduce energy use. Policy DP22 - Promoting sustainable design and construction in Camden using buildings and materials and the size and location of the development. In addition to design and materials, a building's internal heating and for general sustainability. Further details on these assessment tools can be found in Development Policy DP22 and our Camden Planning Guidance Council will encourage all developments to meet the highest feasible environmental standards taking into account the mix of uses, the possibility of re-13.8 A building's use, design, choice of materials and other measures can minimise its energy needs during both construction and occupation. The

3 of the development, sustainable design features can be infused within the proposed development. Consolidated London Plan 2015, Sustainable Design and Construction. By having a solid approach to sustainability from early on at Riba stages 2 and The aim of this report is to enable the proposed dwelling/s to meet the standards set out by the local planning authority Policy DP22 and the

encourage more building in the future to be built to higher environmental standards. Having more buildings being built to a higher sustainable level, will create more of a demand for a higher standard of environmental buildings and



3 Existing and Proposed Development

The site is at the corner of St Cross Street and Kirby Street and is within the Hatton Garden Conservation area.

ground floor, and offices on the floors above. The existing site currently consists of a three storey (with basement) mid terrace commercial building known as Antwerp House. There is retail on the

The proposals are for the construction of three additional storey's over the existing commercial space to create further office space and three new

Access and egress for the proposed dwellings will be provided off Kirkby Street which leads from St Cross Street.

From the front entrance the proposed building faces in a north-easterly direction.

and energy efficient measures technologies (as discussed in Section 4 of this report). of the layout, positioning and orientation of the proposed dwelling. Subsequently, these constraints will impact on the feasibility of certain sustainability Given the scale and nature of the site (in particular the adjacent buildings situated in the terrace), this constrains the development proposals in terms



Sustainability Statement

The following sustainability statement is based on the policies and best practise standards set out in The London Plan Sustainable Design and Construction (2014), as required by Policy 5.3 of the Consolidated London Plan (2015) and DP22 of the Local Authority Policy.

Best Practise	London Plan	Local Policy	Proposed Development details
	1.1 , 3.3		Land The proposed development will be on previously developed land
			reducing the impact of building on new land.
	3.4, 4.3, 7.6		Optimising the Use of Land
			The proposed development will be on previously developed land
			consisting of three storey (with basement) mid terrace commercial
			building known as Antwerp House. There is retail on the ground
			floor, and offices on the floors above. Therefore optimising the use
			of land having a reduce building footprint and have a high ratio of
			net internal floor area to net ground floor area.
	5.12, 5.13,		Basement and Lightwells
	/.13, /.19		Basements have been proposed for the building to accomate
			carried out to take account of the effects on aeological and
			hydrological conditions
	Best Practise	<u> </u>	



		Local Food Growing To protect existing established food growing spaces.	adjoining buildings and uses, including green infrastructure. Basements and Lightwells When planning and constructing a basement development, developers should consider the amenity of neighbours.	area, proportionate to the local conditions, the size of the basement and lightwell
Local Food Growing - To take advantage of	Local Food Growing - To provide space for individual or communal food growing, where possible and appropriate.			
7.18, 7.22.	2.18, 3.2, 5.3, 5.10,	2.18, 3.2, 5.3, 5.10, 5.11, 7.18, 7.22.	5.3, 5.18, 6.3, 7.14, 7.15	
	Local Food Growing The Proposed Development is on previously developed land and has very little or no opportunity to provide space for individual or communal food growing.	Local Food Growing The proposed site does not contain any existing established spaces for growing food.	Basements and Lightwells A 'Basement Impact Assessment' will be carried out to take account of the effects on geological and hydrological conditions, and construction and demolition processes will fall in accordance with procedures for reducing construction site impacts for air pollution (dust), surface water pollution, and noise. The site is expected to be in accordance with the Considerate Constructors Scheme standards and therefore, any noise, vibration, dust, air and light pollution as a result of works to these new spaces would be adequately mitigated.	



for food growing.	temporary spaces	adapting	including	grow food,	existing spaces to

Site Layout / Building Design

Site Layout & Building Design - A mix of uses, where suitable should be included to provide a range of services commensurate to the public transport accessibility.	Site Layout and Building Design - Any existing buildings that can be practically refurbished, retrofitted, altered, or extended should be retained and reused.
4.3, 6.1	5.3, 5.4
CS11, DP16, DP17	DP24
Site Layout and Building Design - The proposed development will contain a combination of commercial space and dwellings. Considering the Site has a Public Transport Accessibility Level of 8 e.g. 'Excellent' it is not considered necessary to provide further amenities as users are able to access a wide range of amenities via public transport.	Site Layout and Building Design - The site consists of existing commercial space where the refurbished elements and new buildings will be of high quality design beyond building regulations requirements.



7	Dei	Site
<u>)</u>	Design	
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		Layout & Building
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5.3, 5.4, 5.6

CS11, CS13, CS15, DP16

2.18, 5.2,

The design of the Site and building layout, footprint, scale and height of buildings as well as the location of land uses should consider:

Existing Features

- The possible retention and reuse of existing buildings and structures;

6.11. 6.13, 7.1, 7.6, 7.14, 7.15, 7.18, 7.19,

- The retention of existing green infrastructure, including trees and other ecological features, and potential for its improvement anextension; and
- Access routes to public transport and other facilities that minimise the use of private transport.

6.7,	5.21, 6.1,	5.16, 5.18,	5	5.10, 5.11,	5.7, 5.9,
			DP25, DP31	DP22, DP24,	DP17, DP18,

Site Layout & Building Design

The proposed development would make use of the existing buildings and be refurbished to a high standard.

Existing Features

The existing site contains a number of significant structures that would be maintained and repaired. There is no existing green infrastructure located on site.

There will be some demolition on site and therefore some waste that arises from demolition. The demolition waste will consist of concrete floor slabs, and bricks from the facades. These materials will be crushed, cleaned and recycled and where possible the materials will be reused. However due to the nature of the site, this would be unlikely.

The proposed development would not provide off street parking, however there will be space provided for cycle storage in the basement to provide space for four bicycles. Transport access in the local areas is also very good for the future occupies. Therefore with the cycle storage and nearby transport nodes this will help to reduce private transport and reduce CO2 emissions.

Sustainability Statement

26-27 Kirby Street, Camden, London, EC1N 8TE

New Design of Development

- The existing landform;
- The potential to take advantage of natural systems such as wind, sun and shading;
- The principles set out London Plan policies 7.1 and 7.6;
- The potential for adaption and reuse in the future;
- Potential for incorporating green infrastructure, including enhancing biodiversity;
 Potential for incorporating
- Potential for incorporating open space, recreation space and child play space;
- Energy demands and the ability to take advantage of natural systems and low and zero carbon energy sources:
- Site wide infrastructure;

Access to low carbon

- transport modes;
 The promotion of low
- The promotion of low carbon transport modes, including walking and cycling;
- Potential to address any local air quality, noise disturbance, flooding and



New Design of Development

It is considered that the proposed development will be designed to the highest architectural standards and will be of a proportion, composition, scale and orientation that enhances, activates and defines public realm.

The proposed development will comprise details and materials that complement the local character of the Hatton Garden Conservation area.

New Design of Development cont:-

It will incorporate best practice in terms of resource management and climate change adaptation. The following measures will be targeted at the Proposed Development:

- Secured by Design principles will be incorporated, and
- The Site will contribute to the adaptation and mitigation of the effects of climate change and is designed to maximise natural daylighting and sunlight access, and to minimise overshadowing.

26-27 Kirby Street, Camden, London, EC1N 8TE **Sustainability Statement**



land contamination issues;

- The potential effect on the microclimate.

Energy

minimised through the development should be emissions from a **Energy and CO2 Emissions** The overall carbon dioxide

Energy and CO2 Emissions

5.2

Sustainability

CS13, SPD

standards, in line with designed to meet the Developments should be regulated carbon dioxide London Plan Policy 5.2.

5.2, 5.3 Sustainability CS13, SPD **Energy and CO2 Emissions**

an energy statement. The proposed development has been assessed in accordance where developments are over 10 units there is a requirement for requirement to go beyond the current building regulations. Only which is 6% improvement over Part L 2010. The local council has no the Building Regulations with the current building regulations, guidance. The proposed development will target compliance with with the requirements of LP Policy 5.2, and the Part L 2013

2013. regulations, however the design will aim to improve over Part L There is no energy efficiency requirement over building

systems. passive design, high efficient and potentially heat recovery achieved through a combination of fabric energy efficiency, The requirements of the Building Regulations Part L 2013 will be

energy hierarchy set out in implementation of the London Plan Policy 5.2.

13



Energy Demand Assessment Development applications are to be accompanied by an energy demand assessment		
	Emergy and CO2 Emissions Developers are encouraged to include innovative low and zero carbon technologies to minimise carbon dioxide emissions within developments and keep up to date with rapidly improving technologies.	Energy and CO2 Emissions Developments should contribute to ensuring resilient energy infrastructure and a reliable energy supply, including from local low and zero carbon sources.
5.2	5.2, 5.17	5.1, 5.5, 5.6, 5.7, 5.8, 5.17
CS13, SPD Sustainability	CS13, SPD Sustainability	CS13, SPD Sustainability
Energy Demand Assessment An energy demand assessment will be carried out for the proposed development. It is proposed that the energy demand will be reduced through improved fabric insulation with lower u-values for the external envelope and windows, air tightness levels will be designed to be lower than average and therefore a mechanical ventilation system with heat recovery should be installed to reduced the risk of condensation. Having improved insulation will mean the annual primary energy demand will be lower reduced.	Tenants will generally be responsible for their own fit-out which shall be subject to minimum efficiency requirements in order to minimise the amount of CO2 emissions and in accordance defined by the tenant handbook.	Energy and CO2 Emissions A preliminary appraisal of the proposed development has been carried out to look in to the opportunity to install low or zero carbon technologies, this takes into account solar, heat pumps, wind, biomass, CHP and district heating. See more details in the renewable section below.



it; or - Establish a Site wide network, and enable the connection of existing buildings in the vicinity of the development.	district heating or cooling network; - Expand an existing district heating or cooling network, and connect to	Energy Efficient Supply Developers should assess the potential for their development to: - Connect to an existing				Use Less Energy The design of developments should prioritise passive measures
				efficiency alone, as far as is practical.	lations rements	Use Less Energy Developers should aim to achieve Part L
		5.5, 5.6				5.2, 5.3, 5.9
		CS13, SPD Sustainability				CS13, DP22, SPD Sustainability
The development should be designed to be potentially connected to a local district heating system or CHP in the future. AS this area is growing in district heating and the heat map shows that the site is in an area of district heating and the cost of this will be taken into account in the project design.	Camden does have district heating in the Gospel Oak area which redirects heat form the Royal Free Hospital. However this area is too far from the site to be consider for a connection to district heating.	Energy Efficient Supply The London Heat Map shows the availability of connection to a district heating network. (http://www.londonheatmap.org.uk/Mapping)	 Improved fabric u-values to meet or exceed Part L 2013 fabric efficiency Air test design air permeability of 5 m3/hm2 (@50Pa) Cross ventilation to reduce cooling in the summer 	 Cross ventilation Solar gains in winter Cooling in summer Air tight building These will be accomplished through: 	To incorporate passive design measures the building will be design to have the following features to aid in reducing energy demand:	Use Less Energy Passive design measures help to maximise the use of natural sources of heating, cooling and ventilation.



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Major developments should incorporate renewable energy technologies to minimise overall carbon dioxide emissions, where feasible.

CS13, SPD **Renewable Energy**Sustainabili There is the potenti

5.7

There is the potential for a low or zero carbon technology, where solar PV could be installed. However due to the location and surrounding building, the following technologies are not feasible: Wind - insufficient space

Ground source heat pump - insufficient space

Air source heat pump - problematic with vicinity to neighbouring properties

Biomass - insufficient space

Tenants will advised on the potential for renewable energy installation and be responsible for any installation.

Retrofitting

Where works to existing developments are proposed developers should retrofit carbon dioxide and water saving measures.

DP24, SPD

Sustainability

5.4, 5.15

RetrofittingRetrofitting

Retrofitting

Measures will include, indoor water fittings with low flow rates for taps, showers, reduced size baths, and dual flush toilets. External areas will incorporate water butts for watering garden area and reducing the need for a watering hose.

Where areas of the building are below a certain level of efficiency the of the existing building will be refurbished to reduce their CO2 emissions. Where areas are not feasible to be improved consequential Improvements maybe more technically and economically feasible.

Monitoring Energy Use



energy use.	reduce their	to monitor and	enable occupiers	appropriate to	systems where	equipment and	monitoring	to incorporate	are encouraged	Use Developers	Monitoring Energy

Monitoring Energy

5.2, 5.3

CS13

Where feasible, 'energy display devices' will be installed to record and monitor energy usage in the dwelling/s.

The purpose of the energy display device is to educate occupants on how much energy they are using. The device will show in real time how much energy is being used. An energy display device which can allow tenant sot input tariff costs will show accurate costs of the energy usage and therefore will have more of an impact on the tenants to reduce their energy usages.

Supporting a Resilient Energy Supply

Mon	Monitoring Energy	5.2, 5.3
Use	Developers	
are	encouraged	
♂	incorporate	
equ	equipment that	
would	ld enable	
their	their schemes to	
part	participate in	
dem	demand side	
resp	response	
000	opportunities.	

Monitoring Energy

CS13

During the detailed design stages, consideration would be given to the installation of 'smart meters' which could enable demand side response opportunities in the future.

Water Efficiency



Water Efficiency Where a building is to be retained, water efficiency measures should be retrofitted.	a BREEAM assessment or the 'best practice' level of the AECB (Association of Environment Conscious Building) water standards.	Water Efficiency New non-residential developments, including refurbishments, should aim to achieve the maximum	Water Efficiency Developers should maximise the opportunities for water saving measures and appliances in all developments, including the reuse and using alternative sources of water.
5.3, 5.4, 5.15		5.3, 5.15	5.3, 5.13, 5.15
15 CS13, DP23		CS13, DP22, DP23	CS13, DP22, DP23
Water Efficiency Existing water fixtures and fittings will be upgraded in order to minimise water consumption.	credits.	Water Efficiency Water efficient fixtures and fittings will be installed in all commercial spaces, including the landlord areas. As a minimum, tenants will be encouraged to fit-out their spaces appropriately to meet the requirements of the Building Regulations Part G, with the assistation to achieve a reduction beyond this level of RPEEA M.	Water Efficiency The Proposed Development will be provided with water efficient fixtures, fittings and appliances as outlined below.



	Water Efficiency All developments should be designed to incorporate rainwater harvesting.
Water Efficiency All residential units, including individual flats / apartments and commercial units, and where practical, individual leases in large commercial properties should be metered.	
5.15	5.3, 5.13, 5.15
DP22, DP23	CS13, DP22, DP23
Water Efficiency All uses at the Proposed Development will be provided with water meters. During detailed design, consideration will be given to the provision of digital meters with connectivity to a central building management / billing system, rather than standard analogue meters.	Water Efficiency We have done a preliminary appraisable for rainwater harvesting, and the location, layout of the development does not lend itself to rainwater harvesting. To achieve the 105L/person/day this can be done without rainwater harvesting.

Materials and Waste



recycled;

- At least three of the key elements of the building envelope (external walls, windows roof, upper floor slabs, internal walls, floor finishes / coverings) are to achieve a rating of A+ to D in the BRE's The Green Guide of specification;

Can be sustainably sourced;

- At least 50% of timber and timber products should be sourced from accredited Forest Stewardship Council (FSC) or Programme for the Endorsement of forestry Certification (PEFC) source;

- Are durable to cater for their level of use and exposure; and

 Will not release toxins into the internal and external environment, including those that deplete

stratospheric ozone

certified

It is intended that insulation materials will have an Ozone Depletion Potential (ODP) of zero, and a Global Warming Potential (GWP) of less than five. Where specified by the developer (e.g. low VOC paint), finishes and other materials will not contain or emit toxic substances.

Design PhaseAt the design stages, modular systems fabricated off site will be considered in the construction of the development to improve construction time and reduce onsite waste. Using prefabricated building elements will save costs by reducing the length of time of construction.

elements.

the potential to use prefabrication

should

maximise

developments

The

design

Design

Phase



There is no net loss in the quality and quantity of biodiversity. Developers make a contribution to biodiversity on their	Nature Conservation and Biodiversity	The design of development should meet borough requirements for the size and location of recycling, composting and refuse storage, and its removal.	Occupation Phase	the storage of recyclable and compostable materials and waste in their schemes.	Occupation Phase Developers should provide sufficient internal space for	implementation of the waste hierarchy.	generated during the demolition and construction process	maximise the use of existing resources and materials and minimise waste	Construction Phase Developers should
5.3, 7.19	ersity		5.3, 5.17		5.3, 5.17				5.3, 5.20
CS15			CS18		CS18				
Nature Conservation and Biodiversity Where feasible, improvements in the ecological value of the Site will be targeted.		Please reter to the tloor plans tor areas of external waste storage.	Occupation Phase	household waste. All dwelling/s at the end of construction will be fitted with internal and communal waste storage facilities for the segregation of recyclable materials, in compliance with BS5096.	Occupation Phase The aim of this is to provide adequate internal and external storage space for non-recyclable waste and recyclable	contractors.	from landfill. There will be some demolition waste on site which will be crushed, cleaned and recycled.	construction and incorporate non hazardous waste, demolition and excavation waste if applicable. The use of the SWMP will help educate contractors on how to reduce waste and divert waste	Construction Phase A Site Waste Management Plan (SWMP) will be utilised throughout



development Site.

Tackling Increased Temperature and Drought

	should include measures, in the design of their schemes, in line with the cooling hierarchy set out in London Plan Policy 5.9 to prevent overheating over the scheme's lifetime.	Overheating Developers
Resilient Foundations Developers should consider any long term	Heat and Drought Resistant Planting The design of developments should prioritise landscape planting that is drought resistant and has a low water demand for supplementary watering.	
5.3, 7.6	5.3, 5.15	7270
	<u> </u>	715
Heat and Drought Resistant Planting The structural engineers have considered all applicable geological and hydrological conditions in accordance with relevant design guidance and standards.	The Proposed Development has been designed in accordance with the cooling hierarchy as set out in LP Policy 5.9. Heat and Drought Resistant Planting At the design stage, consideration will be carried out in the landscape plans to use plant species which are heat and drought resistant. Advice from an ecologist should ideally be sought before any plant species are selected.	Tay Clina Ingressed Tomporative and Drought



robust.	to ensure they are	foundations and	building's	events to affect a	extreme weather	potential for

Increasing Green Cover

Major developments in the Central London Activity Area (CAZ) should be designed to contribute to the Mayor's target to increase green cover by 5% in this zone by 2030.	Urban Greenina	infrastructure network.	with wider green	including by creating links	development schemes,	green infrastructure into	Developers should integrate	Urban Greening
	5.10						5.10, 5.11	2.18, 5.3,
	CS15						DP25, DP31	CS15, DP22,
The site is not considered to be a major development.	Urban Greenina			zone.	existing ecological features of significance in the construction	as potentially a green roof, native plant species and protect any	The development will look to encompass ecological features such	Urban Greening

Trees

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Developments should contribute to the Mayor's target to increase tree cover across London by 5% by 2025.

lrees

Any loss of a tree/s resulting from development should be replaced with an appropriate tree or group of trees for the location, with the aim of providing the same canopy cover as that provided by the original tree/s.

Flooding

Surface Water / Sustainable
Drainage Developers
should maximise all
opportunities to achieve
greenfield runoff rates in
their developments.

Surface Water / Sustainable Drainage When designing their schemes developers should follow the drainage hierarchy set out in London Plan Policy 5.13.

Trees

There are not existing trees on site

Tees

There are not existing trees on site

5.12, 5.13 CS13, DP23 **Flooding**

The proposed development is built on to existing pre developed land and will not increase surface water run-off.



Surface Water / Sustainable	5.3, 5.13,	CS13, DP23	Surface Water / Sustainable Drainage
Drainage Developers should design	5.14		The proposed development is built on to existing pre developed land and will not increase surface water run-off.
Sustainable Drainage			
Systems (SuDS) into their			
schemes that incorporate			
attenuation for surface			
water runoff as well as			
habitat, water quality and			
amenity benefits.			
Flood Resilience	5.3, 5.12,	CS13, DP22,	Flood Resilience
Development in areas at	5,13	DP23	The Environment Agency Flood Risk Map shows that the proposed
risk from any form of			site is in Flood risk zone 1 and therefore not a risk of flooding
flooding should include			
flood resistance and			
resilience measures in line			
with industry best practice.			
Flood Risk Management	5.3, 5.12	CS13	Flood Risk Management
Developments incorporate			The proposed site is in Flood risk zone 1 and therefore not a risk of
the recommendation of the			fluvial / tidal flooding.
TE2100 plan for the future			
tidal flood risk management			
in the Thames estuary.			
Flood Risk Management	5.3, 5.12		Flood Risk Management
Where development is			The proposed site is in Flood risk zone 1 and therefore not a risk of
permitted in a flood risk			fluvial / tidal flooding.
zone, appropriate residual			
risk management measures			
are to be incorporated into			
the design to ensure			
resilience and the safety of			



Land Contamination Potentially polluting uses are to incorporate suitable mitigation measures.	Land Contamination Developers should set out how existing land contamination will be addressed prior to the commencement of their development.	Other Flooding All sources of flooding need to be considered when designing and constructing developments
3.2, 5.3, 5.21	3.2, 5.3, 5.21	5.3, 5.12, 5.13
		CS13, DP22, DP23
Land Contamination The proposed development is not proposing to include uses that would lead to land contamination.	Land Contamination The site is not known to be contaminated	Other Flooding The proposed site is in Flood risk zone 1 and therefore not a risk of flooding.

Sustainability Statement

26-27 Kirby Street, Camden, London, EC1N 8TE

Air Quality

Air Quality

Developments should be designed to minimise the generation of air pollution.

Air Quality

Developments should be designed to minimise and mitigate against increased exposure to poor air quality.

ir Quality

7.14

The dwellings/s will use a heating system which will have low NOx emissions therefore adding less NOx to green house gas emissions

Air Quality

The dwellings will also be built to a high standard of energy efficiency and therefore reduce CO2 emissions.

Air Quality

Where there is mechanical ventilation exhaust flues will be positioned away from intake flues for fresh air.

Ventilation pathways will need to be designed to reduce the build up of air pollutants in the dwelling/s, through cross ventilation, and either naturally ventilated or mechanical ventilation. Where there is mechanical ventilation, exhaust flues will be positioned away from intake flues for fresh air.

Mechanical ventilation will be used for this development to maximise air quality.

Ideally for mechanically ventilated buildings the location of the building's air intakes and exhausts, in relation to each other and external sources of pollution, is designed in accordance with BS EN 13779:20071 Annex A2.

In naturally ventilated buildings/spaces: openable windows/ventilators are over 10m from sources of external pollution.



Noise Noise should be reduced at source, and then designed out of a scheme to reduce the need for mitigation measures.	Noise Areas identified as having positive sound features or as being tranquil should be protected from noise.	contractors should follow the guidance set out in the emerging The Control of Dust and Emissions during Construction and Demolition SPG when constructing their development.	Air Onality Developers and
3.2, 5.3, 7.6, 7.15	3.2, 7.15		53 71/
Noise The Site is located in an area with a high level of background noise. High efficiency mechanical ventilation will be used to provide air to the spaces in where natural ventilation is not possible. This will aid noise attenuation as occupants will not be reliant on opening windows to maintain good indoor air quality and control internal temperatures.	Noise The proposed site is surrounded by mainly retail businesses and is not known to have any areas identified as having positive sound features or as being tranquil.	To recognise and encourage construction-sites which are managed in an environmentally and socially considerate, responsible and accountable manner. For the proposed development, the contractor will comply with 'The Control of Dust and Emissions during Construction Demolition SPG'. Control measures will need to be implemented by the contractor on site to prevent air and dust pollution. An example of this could be using dust sheets on materials and skips, damping down in waste areas. The main contractor will be required to register with the considerate constructors scheme to achieve a minimum score of 25 points.	Air Ouglity



comfort for the occupiers and reduce noise from the surrounding road off St Cross St and Kirkby St.	beyond Document E of the building regulations, to provide	partition walls, floors and external walls will be designed to go	For the occupiers of the dwelling/s, the specification of the
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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.

Light Pollution

Developments and lighting schemes should be designed to minimise light pollution.

5.2, 5.3, 6.7

Light Pollution

External lights will be designed to be used only in appropriate areas, and that upward lighting is minimised, this will help to reduce light pollution and effect to neighbours.

Brightness of Illuminated Advertisements Guidance notes. Illuminated advertisements, where specified, of lighting recommended during these hours in Table 2 of the ILP's 07:00, this part of the lighting system complies with the lower levels security lighting is provided and will be used between 23:00 and automatically switched off between 23:00 and 07:00. If safety or pedestrian traffic. The ILP Guidance for the reduction of obtrusive daylight hours and presence detection in areas of intermitted automatically controlled for the prevention of operation during 60 lumens per circuit watt. Second all external lights will be L of the building regulations, with the aim to achieve no less than following standards. First to be energy efficient going beyond Part must be designed in compliance with ILE Technical Report 5 – The light, 2001 will be used to design the lighting strategy. All external ighting (except for safety and security lighting) can be Where there is external lighting, it will have to be designed to the



Water Pollution

	for water quality.	which also provide benefits	(SuDS) into their schemes	urban drainage systems	incorporate sustainable	developers should	greenfield runoff rate	In their aim to achieve a	Surface Water Runoff
:									
1								5.14	5.3, 5.13,
)									CS13, DP23
							London Plan Policy 5.3.	The design team will incorporate the drainage hierarchy set out in	CS13, DP23 Surface Water Runoff

Surface Water Runoff	5.3, 5.13,	CS13, DP23	CS13, DP23 Surface Water Runoff
Encourage good	5.14		It is intended that commercial tenants will be advised of good
environmental			environmental practice to reduce risk on the London water
practice to help			environment.
reduce the risk from			
business activities on			
the London water			

environment.

Surface Water Runoff	5.3, 5.14	CS13, DP23	CS13, DP23 Surface Water Runoff
Encourage those			It is intended that the main contractor will be required to operate
working on			in an environmentally conscious manner to prevent pollution. It is
demolition and			also intended that the main contractor shall register under the
construction-Sites to			Considerate Constructors Scheme and achieve a best practice
prevent pollution by			score.
incorporating			
prevention measures			
and following best			
practice.			



Wastewater Treatment

vater quality.
undertaker. benefits for
elevant sewerage
effluent consent from the
o subject to a trade
where it is reasonable to do
combined sewer network
public foul sewer or
hould connect to the
discharging trade effluent
commercial developments

Water Treatment cont:-

misconnections do not developers to ensure that should be made by post construction checks properly connected and Developments should be

5.3, 5.14

CS13, DP23

Wastewater Treatment

suitable connections to the public foul Wastewater Treatment sewer or combined sewer network, where appropriate. All spaces at the proposed development will be provided with

5.3, 5.14



5 Conclusion

Kirkby Street There are proposals for the construction of a three new residential flats above refurbished office space on land off the corner of St Cross Street and

Design and Construction which refers to The Consolidated London Plan (2015) and of this Policy 5.3 Sustainable Design and Construction (2014). Under the Camden Council Core Strategy, the proposed dwelling/s will need to comply with the guidance set out by the Policy DP22 Sustainable

The above sustainability statement sets out what the requirements are of the planning policies and what can be achieved for the proposed

The main features of the site to meet the building environmental standards are:

- systems, such as the shower heat recovery for waste water, and mechanical ventilation with heat recovery. elements of the building are to be designed to be highly insulated, with low u-values, good air tightness and to incorporate heat recovery The energy efficiency measures of the building is to comply with Part L 2013, with some areas going beyond the requirements. The fabric
- Part G minimum standard of 125L/person/day, with the aim to achieving 105L/person/day through fittings with low flow rates Water efficiency is a big driver of sustainability and indoor fittings which will have water efficiency will be installed. These will help to go beyond
- reference. All timber used on site is to be sustainably sourced. Where possible recycled aggregates will be used Materials to be used in the proposed development are to consist of having a high Green Guide rating, using the BRE Green Guide for
- policies in place for reducing air and surface water pollution and be registered with the Considerate Constructors Scheme The contractor to be used for this development will need to monitor, record construction site impacts (energy, water and transport), having
- construction period. Any demolition waste will be recycled. The contractor will need to have a site waste management plan in place from the beginning of construction and use this throughout the
- The location lends itself to good transport links and cycle storage will be provided