

# Chapter 36 Respecting Environmental Limits

## Climate change, flooding, waste, biodiversity, air quality and noise and vibration

### 36.1 Introduction

- 36.1.1 ~~“The Council recognises the scientific consensus that climate change and global warming is happening; that human activity is contributing to it significantly; and that it has potentially damaging environmental, social and economic impacts” RBKC Climate Change Strategy 2008-2015~~ Changes to our climate have an impact on lifestyles, the economy and our natural and built environments. Furthermore, changes in the world’s climate pose a major threat to our long-term well-being. The Council acknowledges that man-made climate change is a global challenge that requires a global response and a call for action at all levels, from governments, local authorities and citizens alike<sup>403</sup>. Continued emission of greenhouse gases will cause further warming and long-lasting changes in all components of the climate system, increasing the likelihood of severe and irreversible impacts for people and ecosystems. Locally, there is already an increasing risk of flooding from intense rainstorms, and during heatwaves the elderly may be exposed to life threatening heat stress but there is a lot that the Council, residents and those who work here can do together to reduce their carbon footprint more quickly and in a sustainable way. The Council is determined to contribute to the achievement of international, European, national and regional CO<sub>2</sub> reduction targets. There is an increasing recognition that the problems caused by air pollution and climate change need to be treated together, not least because the emissions that pollute our air and warm our planet originate from common sources such as vehicles, buildings, power generation and industry. The Council intends to give a high priority to the twin issues of climate change and poor air quality through a joint Air Quality and Climate Change Action Plan (2016-2021<sup>404</sup>).
- 36.1.2 “Planning plays a key role in helping shape places to secure radical reductions in greenhouse gas emissions, minimising vulnerability and providing resilience to the impacts of climate change, and supporting the delivery of renewable and low carbon energy and associated infrastructure. This is central to the economic, social and environmental dimensions of sustainable development.” National Planning Policy Framework, March 2012 (paragraph 93).
- 36.1.3 Across the planet, we are using natural resources too quickly and at a rate beyond the capacity of our planet to replenish them at the same rate. It is important that we all play our part to reduce the impact of human activity on the global and local environment. Respecting Environmental Limits is therefore about ensuring that we live within our means and make decisions to help future generations meet their needs. This will contribute to achieving the environmental elements of sustainable development.
- 36.1.4 The social, economic and other environmental elements of sustainable development are considered elsewhere in the Local Plan, including encouraging the use of public transport, sustainable economic growth, providing local employment opportunities, providing a diversity of housing, providing community facilities and opportunities within walkable neighbourhoods, protecting open space and encouraging greater opportunities for pedestrians and cyclists.

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<sup>403</sup> Air Quality and Climate Change Action Plan 2016-2021, Technical Appendices. RBKC, 2016

<sup>404</sup> Air Quality and Climate Change Action Plan 2016-2021, RBKC, 2016

- 36.1.5 Most of our energy and fuel, including for the production and transportation of food, comes from non-renewable fossil fuels (coal, oil and gas) which emit carbon dioxide when burned. Carbon dioxide is one of the six principal greenhouse gases, which contributes to global warming resulting in climate change. This leads to less predictable weather conditions and more extreme weather events, which may reduce food production and increase the risk of flooding. ~~Over two thirds~~ Three quarters of our waste is currently transported by barge down the River Thames to the Belvedere Energy Waste plant. The remaining waste is either composted and recycled. ~~The loss of biodiversity we are currently experiencing on a global scale, is considered by many, to be the greatest since the mass extinction of the dinosaurs<sup>405</sup>.~~
- 36.1.6 In addition to the global concerns mentioned above, there are several important local concerns including the fact that air pollution can have a serious impact on health. Vehicles, including those passing through the borough, the heating and cooling of buildings, especially the use of old inefficient boilers, comfort cooling and the use of engines and turbines for heating/electricity generation are all significant emitters of gases (some of which are also greenhouse gases) and increase air pollution. The ambient noise levels in many parts of the borough are high, which are exacerbated by noise from plant and equipment attached to buildings, road traffic, construction, noisy neighbours and pubs/clubs. Vibration is also an issue in parts of the borough, mostly caused by surface and underground trains, but also by plant and equipment which has not been properly attenuated.
- 36.1.7 Respecting Environmental Limits is an integral part of the Royal Borough's vision of Building on Success. Tackling these issues is central in upholding our residents' quality of life.

#### **CO7 Strategic Objective for Respecting Environmental Limits**

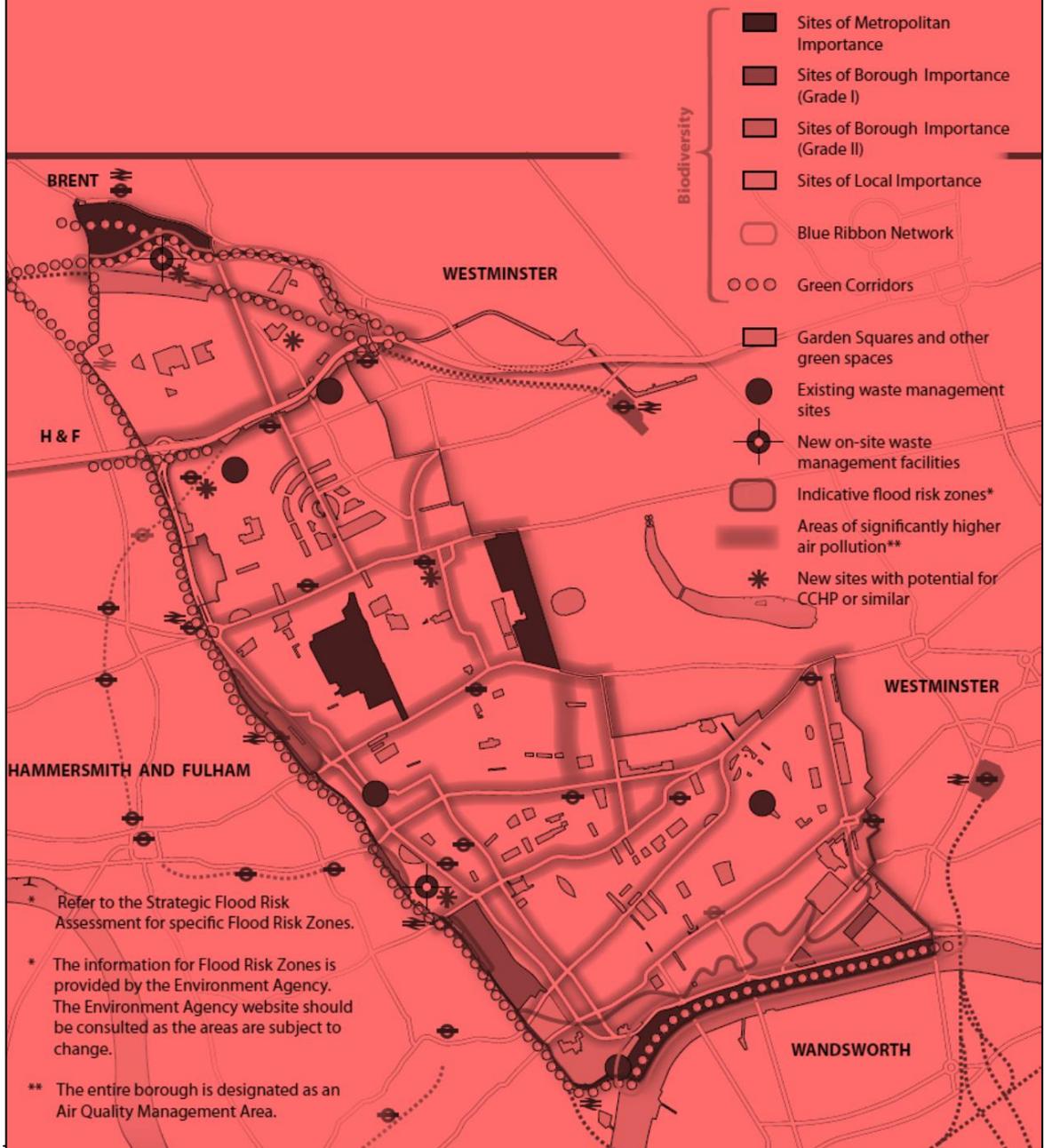
Our strategic objective to respect environmental limits is to contribute to the mitigation of, and adaption to, climate change; significantly reduce carbon dioxide emissions; maintain low and further reduce car use; carefully manage flood risk and waste; protect and attract biodiversity; improve air quality; and reduce and control noise within the borough.

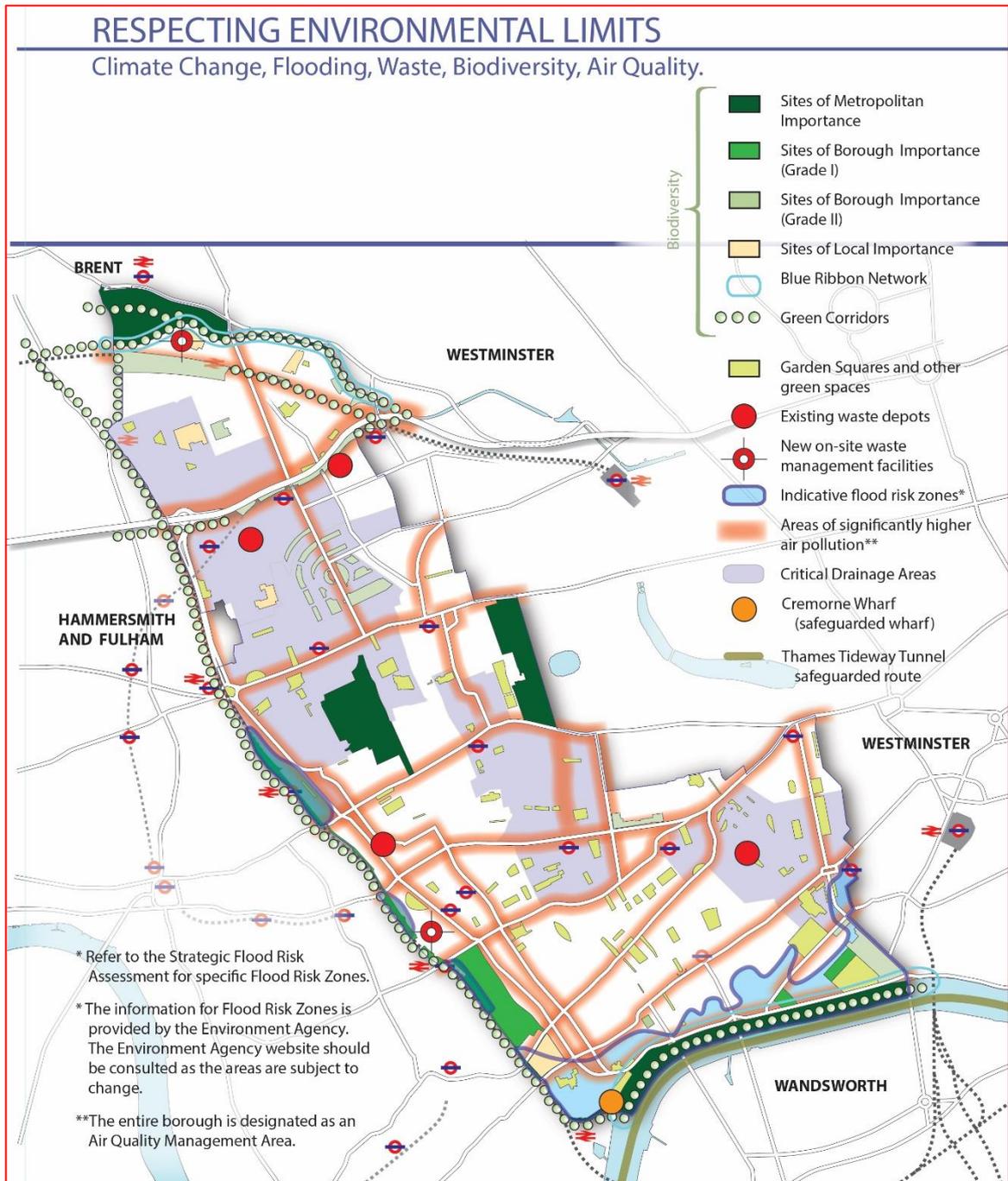
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<sup>405</sup> ~~Global Biodiversity Outlook 2 Report, United Nations, 2006.~~

# RESPECTING ENVIRONMENTAL LIMITS

Climate Change, Flooding, Waste, Biodiversity, Air Quality.





## 36.2 What this means for the borough

36.2.1 We have one of the most cherished historic townscapes in London. If we do not adapt to and limit climate change the historic assets will be irreparably damaged, and the cultural, social and economic benefits will be lost<sup>406</sup>. We have a statutory duty to contribute to the mitigation of, and adaptation to, climate change<sup>407</sup>. Therefore, we need to carefully manage development to ensure that the natural and historic environments do not conflict but complement one another.

<sup>406</sup> Climate Change and the Historic Environment, English Heritage. January 2008. [See also Assessment of Heritage at Risk from Environmental Threat: Key Messages Report, English Heritage. November 2013.](#)

<sup>407</sup> [Section 19\(1A\) of the Planning and Compulsory Purchase Act 2004 as inserted by section 182 of the Planning Act 2008.](#)

36.2.2 The borough is designated as an Area Quality Management Area as levels of nitrogen dioxide and particulate matter exceed national government standards. The Council will therefore take action to carefully control emissions, including emissions from alternative fuel sources.

### 36.3 Planning Policies

#### Climate Change

36.3.1 ~~The United Kingdom emitted 532,373,000 tonnes of carbon dioxide in 2005, compared to approximately 558,000,000 tonnes in 1990. This constitutes an approximate 4.5 per cent saving from 1990. The Royal Borough emitted approximately 1,422,000 tonnes of carbon dioxide in 2010<sup>408</sup>. The Climate Change Act 2008 requires a reduction in CO<sub>2</sub> emissions of at least 26 34 per cent by 2020 and at least 80 60 per cent by 2050, against a 1990 baseline. The Government has recently increased this target to 80 per cent by 2050, which will require far more aggressive measures to reduce CO<sub>2</sub> emissions.~~

36.3.2 ~~Global average temperatures have risen by nearly 0.8°C since the late nineteenth century and risen by about 0.2°C per decade over the past 25 years. This warming is, in part, from the greenhouse effect, i.e. the result of the interaction of certain atmospheric gases with solar and terrestrial radiation<sup>409</sup>. Climate change is emerging as one of the major challenges and one of the biggest health threats of the twenty-first century. The Council acknowledges that urgent action is required to limit temperature rises to 2°C above pre-industrial levels. Global average temperatures have risen by nearly 0.8°C since the late nineteenth century, and have risen by about 0.2°C per decade over the past 25 years<sup>410</sup>.~~

36.3.3 ~~In 2005, the Royal Borough emitted an estimated 8.06 tonnes of CO<sub>2</sub> per capita, which is above the London average of 6.45 tonnes but below the national average of 8.84 tonnes<sup>411</sup>. The CO<sub>2</sub> emissions in the borough since 2005 have fallen at a lower rate than in other local authorities in London. In 2013, The borough emitted 7.09 tonnes of CO<sub>2</sub> per capita, which was the third highest emission level per capita in Greater London. This was above the national average of 7.0 tonnes. Since 2008 the emissions per capita in the borough have been consistently higher than national levels.~~

36.3.4 ~~The Climate Change Strategy 2008 to 2015 states that 57 per cent of the Royal Borough's carbon dioxide emissions are from commercial uses (including shops, offices and hotels), compared to 45 per cent nationally; 28 per cent from domestic sources, compared to 27 per cent nationally; and 15 per cent from road transport, compared to 28 per cent nationally. According to the latest carbon dioxide emissions data (CO<sub>2</sub>) published by the Department for Energy and Climate Change (DECC) for the period 2005-2013, the industry and commercial sector continues to be the largest emitting sector accounting in 2013 for 57% cent of total borough emissions. The sector includes all non-domestic assets; in this borough this includes offices, Council operations, museums, hotels, retail units, schools etc. 31% of CO<sub>2</sub> emissions come from residents' domestic consumption and 12% come from transport<sup>412</sup>.~~

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<sup>408</sup> Department of Energy and Climate Change. Local and Regional Carbon Dioxide Emissions Estimates for 2005-2010 for the UK.

<sup>409</sup> RBKC Climate Change Strategy, 2008 - 2015.

<sup>410</sup> Air Quality and Climate Change Action Plan 2016-2021, Technical Appendices. RBKC, 2016

<sup>411</sup> Department for the Environment and Rural Affairs (Defra) / AEA Technology Plc Environmental Statistics 2005/06.

<sup>412</sup> Department of Energy and Climate Change, UK Local Authority and regional carbon dioxide emissions statistics for 2005-2013

- 36.3.5 Although a higher proportion of the borough's emissions arise from industrial and commercial uses, [the Department for Environment, Food and Rural Affairs \(DEFRA\)](#)'s projections show that a significant proportion of CO<sub>2</sub> savings can be made within the domestic sector<sup>413</sup>.
- 36.3.6 Environmental policy suggests that greenhouse gas emissions can be greatly reduced by significantly reducing the amount of heat and energy we use in our buildings, through energy efficient design, materials and construction, such as maximising natural heating and ventilation. Supplying the heat and energy we require locally, through decentralised district heat and energy networks and renewable sources, also minimises greenhouse gas emissions, minimises heat and energy lost during its transportation and contributes to securing heat and energy supply for the future.
- ~~36.3.7 Using well established tools such as the Code for Sustainable Homes and BREEAM, a meaningful contribution to carbon reduction can be made. These tools also provide a means of achieving increased carbon savings by raising the standards expected over time, and the type of developments to which the standards apply.~~
- ~~36.3.8 Achieving Code for Sustainable Homes Level 4 will cost approximately seven per cent more than delivering to current Building Regulations standards<sup>414</sup>. Refurbishment of existing dwellings to using BREEAM methodology is considered reasonable<sup>415</sup>. The Government also intends for all new homes to be zero carbon by 2016.~~
- 36.3.97 The borough **currently** consumes an average of 159 litres of water per person per day, which is greater than the average for England and Wales (149 litres per person per day) but less than the London average (162 litres per person per day)<sup>416</sup>. [London Plan policy requires designing residential development so that mains water consumption would meet a target of 105 litres or less per head per day<sup>417</sup>. This reflects the 'optional requirement' set out in Part G of the Building Regulations<sup>418</sup>. Since the London Plan is part of the Council's development plan, the 'optional' requirement applies to new residential development in the borough. Therefore, planning conditions should trigger the 'optional requirement' in Part G of the Building Regulations.](#)
- ~~36.3.8 Following the Housing Standards Review, the Government policy<sup>419</sup> is that local planning authorities should not require energy efficiency standards that exceed the energy requirements of Building Regulations for the construction or adaptation of buildings to provide dwellings or the carrying out of any work on dwellings. This national policy is subject to the commencement of amendments proposed to the Planning and Energy Act 2008 in the Deregulation Act 2015. The Government has also withdrawn its commitment to 'zero carbon homes'<sup>420</sup>.~~

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<sup>413</sup> Analysis to support climate change indicators for local authorities, April 2008. Prepared by AEA Technology PLC for the Department for Environment, Food and Rural Affairs

~~<sup>414</sup> Cost Analysis of The Code for Sustainable Homes, CLG, July 2008. Example used for a flat in the best case scenario.~~

~~<sup>415</sup> Residential Evidence Base Report for Planning Policy CE1, 21 October 2009. Evidence Base report for Basements and Climate Change Policy, March 2013.~~

<sup>416</sup> Environment Agency, RBKC Fact Sheet, prepared as part of the Environment Agency's State of the Environment - London.

~~<sup>417</sup> London Plan Policy 5.15: Water Use and Supplies. Excluding an allowance of 5 litres or less per head per day for external water consumption.~~

~~<sup>418</sup> Requirement G2 of Schedule 1 to the Building Regulations 2010. HM Government 2015.~~

~~<sup>419</sup> Announced in the Written Ministerial Statement of 25 March 2015~~

~~<sup>420</sup> Fixing the foundations: creating a more prosperous nation, HM Treasury, July 2015~~

- 36.3.9 The Mayor's Housing SPG, March 2016 (Paragraph 2.3.57) confirms, however, that the London Plan policy on 'zero carbon' homes<sup>421</sup> remains in place. It states that, "This approach will also help ensure that the development industry in London is prepared for the introduction of 'Nearly Zero Energy Buildings' by 2020. (As required by the European Energy Performance of Buildings Regulation which requires periodic review of Building Codes to ensure cost optimal review of energy efficiency standards and that all new buildings are 'nearly zero energy buildings' by 2020)."
- 36.3.10 Paragraph 2.3.58 of the Housing SPG, March 2016 defines 'zero carbon' homes as "homes forming part of major development applications where the residential element of the application achieves at least a 35 per cent reduction in regulated carbon dioxide emissions (beyond Part L 2013) on-site (in line with policy 2.5B). The remaining regulated carbon dioxide emissions, to 100 per cent, are to be off-set through a cash in lieu contribution to the relevant borough to be ring fenced to secure delivery of carbon dioxide savings elsewhere (in line with policy 5.2 E)."
- 36.3.11 The Council supports the approach in the London Plan and the guidance in the Mayor of London's Housing SPG, March 2016. The Council policy therefore requires compliance with the London Plan for major residential development. Advice on how to complete an Energy Assessment is provided in the Mayor's Energy Planning guidance<sup>422</sup>.
- 36.3.12 In line with the guidance in the Mayor's Housing SPG, March 2016 the Council will accept payments in lieu for offsetting any remaining carbon, over and above the 35 per cent reduction on-site, in regulated carbon dioxide emissions (beyond Part L 2013) to meet the zero carbon standard. The carbon offset price<sup>423</sup> of £60 per tonne of carbon dioxide for a period of 30 years will be used.
- ~~36.3.9a BREEAM Domestic Refurbishment (BDR) is the appropriate assessment method for refurbishment and conversion where the whole property requires retrofitting. In order to meet the policy objectives relating to carbon reduction, water and waste minimum standards have been set for these criteria. The standards will assist in reducing the carbon footprint, enable water to be saved and ensure that construction and demolition waste is diverted from landfill.~~
- ~~36.3.4013~~ The Royal Borough contains over 4,000 listed buildings and over 703 per cent of the borough has conservation area status. Re-using historic buildings may significantly reduce energy consumption as existing buildings represent the 'embodied' energy used to produce them; whereas demolishing a brick building wastes the embodied energy and uses up more energy in demolition and rebuilding. The embodied energy in the bricks of a typical Victorian terraced house would drive a car more than ten times around the world<sup>424</sup>.
- ~~36.3.1414~~ English Heritage Historic England acknowledges the importance of making reasonable alterations to the existing building stock to mitigate climate change and state that often the energy efficiency of the historic buildings can be increased in ways sympathetic to their historic character<sup>425</sup>.
- ~~36.3.14a5~~ While listed buildings generally represent a greater challenge in terms of retrofitting for carbon reduction, it is possible in most cases, by careful selection of credits to avoid causing

<sup>421</sup> London Plan Policy 5.2: Minimising Carbon Dioxide Emissions

<sup>422</sup> Mayor of London, Energy Planning, GLA guidance on preparing energy assessments, GLA, 2015

<sup>423</sup> Evidenced by the Mayor's Housing Standards Viability Assessment, 2015

<sup>424</sup> Heritage Lottery Fund. Written Evidence for Heritage White Paper, 19 January 2006.

(<http://www.publications.parliament.uk/pa/cm200506/cmselect/cmcmds/912/912we59.htm>)

<sup>425</sup> Climate Change and the Historic Environment, English Heritage. January 2008 ~~and draft Planning Policy Statement 15.~~

harm to the special architectural character or historic interest of the building. However, this may not be possible in all cases and where it is not possible to demonstrate that harm to the building will not result then the Council is likely to resist such proposals ~~the principle of a basement extension.~~

36.3.4316 The ecological footprint in the borough is 6.39 global hectares per capita, which is the second highest in London (The London average is 5.48 and national average is 5.30). The primary contributors in the borough are food (28 per cent) and housing (21 per cent)<sup>426</sup>. This, together with the greenhouse gases emitted during the transportation of food and manufacture of packaging, makes food production close to its consumption an important consideration for the borough. There is opportunity, even in small developments, to use private garden space, green/living roofs and sheds to facilitate small scale on-site food production, and larger developments present different opportunities.

36.3.4417 The evidence on climate change shows that we need a policy to ensure that development mitigates against, and adapts to, climate change without unacceptable impacts on air quality. The Council also intends to take a leading role in identifying new and existing opportunities for decentralised heat and energy networks through heat and energy masterplanning.

#### Policy CE1 Climate Change

The Council recognises the Government's targets to reduce national carbon dioxide emissions by ~~26~~ **34** per cent against 1990 levels by 2020 in order to meet a ~~80~~ **60** per cent reduction by 2050 and will require development to make a significant contribution towards this target.

To deliver this the Council will:

- a. require an assessment to demonstrate that ~~all new buildings and extensions of 800sq.m or more~~ **major** residential development ~~meets the carbon reduction requirements set out in the London Plan. or 1,000sq.m or more non-residential achieve the following Code for Sustainable Homes/BREEAM standards:~~
  - ~~i. residential development should meet Code for Sustainable Homes Level 4.~~
  - ~~ii. non-residential development should meet BREEAM very good with 60 per cent of the unweighted credits available in the energy, water and materials sections.~~
- b. require an assessment to demonstrate that ~~non-residential development of 1,000 sq m or more~~ **meets BREEAM very good with 60 per cent of the unweighted credits available in the energy, water and materials sections and** conversions and refurbishments of ~~800sq.m or more residential development or 1,000sq.m or more non-residential~~ **development** achieve **BREEAM very good rating.** ~~the following relevant BREEAM standards:~~
  - ~~i. residential development: BREEAM excellent for domestic refurbishment including the following minimum standards:~~
    - ~~(a) the minimum standards of excellent for energy;~~
    - ~~(b) 80 per cent or more of the un-weighted credits in the waste category~~
  - ~~ii. non-residential development should achieve BREEAM very good rating.~~
- c. require that carbon dioxide and other greenhouse gas emissions are reduced ~~to meet the Code for Sustainable Homes and BREEAM standards~~ in accordance with the following hierarchy:
  - i. energy efficient building design, construction and materials, including the use of passive design, natural heating and natural ventilation;
  - ii. decentralised heating, cooling and energy supply, through Combined Cooling Heat and Power (CCHP) or similar, while ensuring that heat and energy production does not result in unacceptable

<sup>426</sup> Environment Agency: RBKC Environmental summary factsheet, quoting REAP (Resources and Energy Analysis Programme) 2004

levels of air pollution in particular on site allocations such as Kensal, Wornington Green, Latimer and Earl's Court;

iii. on-site renewable and low-carbon energy sources;

~~d. require the provision of a Combined Cooling, Heat and Power plant, or similar, which is of a suitable size to service the planned development and contribute as part of a district heat and energy network for:~~

~~i. strategic site allocations at Kensal, Wornington Green, Kensington Leisure Centre and Earl's Court; and~~

~~ii. significant redevelopment and regeneration proposals at Notting Hill Gate and Latimer as set out in the places section of this document;~~

~~ed. require all CCHP plant or similar to connect to, or be able to connect to, other existing or planned CCHP plant or similar to form a district heat and energy network;~~

~~fe. require development to connect into any existing district heat and energy network, where the necessary service or utility infrastructure is accessible to that development;~~

~~gf. require development to incorporate measures that will contribute to on-site sustainable food production commensurate with the scale of development;~~

~~h. require, in due course, development to further reduce carbon dioxide emissions and mitigate or adapt to climate change, especially from the existing building stock, through financial contributions, and planning conditions, and extending or raising the Code for Sustainable Homes and BREEAM standards for other types of development.~~

**Consultation:** Please provide your comments on the Draft Policies, supporting text and any options and alternatives (set out in respective Policy Formulation Reports) by completing the Consultation Response Form at <https://planningconsult.rbkc.gov.uk/consult/ti/LPPRDP/>

## **Flooding and drainage**

### **Flood Risk**

36.3.158 ~~Winter rainfall will increase as a result of global warming, although summer rainfall will decrease. Sea levels will also rise<sup>427</sup>. Global temperatures are predicted to continue rising, bringing changes in weather patterns, rising sea levels and increased frequency and intensity of extreme weather for the UK<sup>428</sup>. Climate projections show that London will experience warmer, wetter winters and hotter, drier summers in the future. As well as the gradual change in overall climate, we can expect to see more frequent and intense episodes of extreme weather, meaning that we will need to consider adapting our buildings, communities and lifestyles to prepare for more frequent heatwaves, flooding and droughts<sup>429</sup>.~~

36.3.169 In the medium to longer term it is likely that the height of flood defences along the River Thames will have to be raised. Setting buildings back from the river's edge will enable this to be done in a more cost-effective, aesthetically acceptable and more sustainable way<sup>430</sup>.

36.3.1720A The updated Strategic Flood Risk Assessment 2014 (SFRA) and the Surface Water Management Plan 2014 (SWMP) show the flood risk zones in the borough which are Flood Zones 1, 2, and 3 for fluvial and tidal flooding and the Council's designated Critical Drainage

<sup>427</sup> ~~<https://www.gov.uk/government/publications/2010-to-2015-government-policy-climate-change-adaptation/2010-to-2015-government-policy-climate-change-adaptation>.  
<http://ukcp09.defra.gov.uk/content/view/full/16/6/index.html>~~

<sup>428</sup> [www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/69257/pb13274-uk-climate-projections-090617.pdf](http://www.gov.uk/government/uploads/system/uploads/attachment_data/file/69257/pb13274-uk-climate-projections-090617.pdf)

<sup>429</sup> <http://climatelondon.org.uk/climate-change/>

<sup>430</sup> London Plan Policy 5.12 4A.13.

~~Areas for the Royal Borough of Kensington and Chelsea was prepared jointly with the London Borough of Hammersmith and Fulham. The SFRA assessed the risk of flooding of different areas of the borough and identified that there is no fluvial flood risk in the borough. However, the borough is affected by tidal flood risk, ranging from Flood Zone 1 with low probability of flooding to Flood Zone 3 with high probability of flooding. Very little of the borough is located in Flood Zone 2 and 3, close to the Thames. The majority of the borough is located within Flood Zone 1, with a one in 1,000 year risk of flooding. The threat of fluvial flooding is low, but sewer flooding occurred in the Holland and Norland wards in 1981 and 2007<sup>431</sup>. To ensure that development is directed first to sites at the lowest probability of flooding, the Council has carried out the 'Sequential Test' on a range of sites<sup>432</sup>. However, sites within Flood Risk Zones 2 and 3 and Critical Drainage Areas that are not included within this appraisal will may have to undertake a 'Sequential Test' in line with PPS25. In some cases, the Exception Test will also be required. As new information becomes available nationally or regionally such as breach analysis and climate change guidance, this should also be considered both, by the Council and applicants.~~

~~36.3.21 Flood Risk Assessments are required for development within Critical Drainage Areas. However, this is only relevant if the development has any drainage implications which could lead to flooding elsewhere or could be more vulnerable as a result of the development proposed (due to the land use being more vulnerable or to the infrastructure proposed). For example, Flood Risk Assessments will be required for basement applications; when the development is at ground level and could potentially lead to a decrease in the site's permeability or an increase in the site's vulnerability to flooding; or if the proposed development could have an impact on any physical structure which could reduce the effect of flooding in the area (flood risk assets). Most development at first floor level and above may not require a Flood Risk Assessment. However, the requirement for an assessment will need to be considered at an early stage. It will be expected that any proposed flood risk measures and flood risk assets are protected and maintained to remain operational and built to a standard where they would provide adequate protection for the lifetime of the development.~~

~~36.3.22 There is a wealth of available guidance regarding flood defence and flood mitigation measures which may be suitable for developments contained in Building Regulations and British Standards. Any proposed measures should take into consideration the predicted flood depth in different storm scenarios and reflect site conditions in relation to contributing to, or suffering from, flooding, or both. Measures can affect the materials, layout and design of buildings so it is important that they are shown as part of planning applications.~~

~~36.3.23 The Thames Estuary (2100) plan, produced by the Environment Agency, was reviewed in 2014. The Council is committed to work with the Environment Agency and others to ensure the recommendations of the TE2100 Plan are implemented in new and existing developments, to keep communities safe from flooding in a changing climate and improving the local environment. The key messages for our borough are:~~

- ~~• Raising existing flood defences to the required TE2100 Plan levels in preparation for future climate change impacts or demonstrate how tidal flood defences protecting sites can be raised to the required TE2100 levels in the future through submission of plans and cross-sections of the proposed raising;~~

<sup>431</sup> RBKC Strategic Flood Risk Assessment. Flood Zones refer to the probability of river and sea flooding, ignoring the presence of defences.

<sup>432</sup> <http://www.rbkc.gov.uk/pdf/70-per-cent20RBKC-per-cent-20Sequential-per-cent20Test-per-cent202009.pdf>  
<https://www.rbkc.gov.uk/planning-and-building-control/planning-policy/flooding/strategic-flood-risk-assessment>

- Demonstrating the provision of improved access to existing flood defences and safeguarding land for future flood defence raising and landscape, amenity and habitat improvements;
- Maintaining, enhancing or replacing flood defences to provide adequate protection for the lifetime of development;
- Where opportunities exist, re-aligning or setting back flood defence walls and improving the river frontage to provide amenity space, habitat, access and environmental enhancements.
- Securing financial contributions towards the anticipated costs of flood risk management infrastructure required to protect the proposed development over its lifetime.

### **Surface Water Run-off and Sustainable Drainage Systems (SuDS)**

36.3.1824 Thames Water has identified a 17 per cent increase in the amount of impermeable area in the borough between 1971 and 2009, which increases the amount of rainfall discharging to the storm water sewer. This, together with rainfall surface water and foul flows from upstream development Camden and Brent, may contribute to surface water and sewer flooding, as the Counters Creek sewer does not currently have the capacity to discharge storm water during extreme rainfall. Thames Water are is currently looking at improving capacity in the Counters Creek storm water sewer by in about 2020<sup>433</sup>. Moreover, this risk is increased by the use of impermeable surfaces as they decrease the capacity of the ground to drain water.

36.3.1925 There is evidence which shows the lack of capacity of the Counters Creek sewer system and this should be addressed to ensure that residents are protected from future flooding due to further development in its catchment and climate change. Furthermore, surface water run-off and any other flows such as groundwater, which could potentially end up in the sewer system, should be controlled to future proof the capacity of the sewer and reduce flood risk. The use of permeable surfaces and removal of existing impermeable surfaces is necessary as it will have a positive cumulative impact and will future-proof any sewerage infrastructure project. Surface water run-off should be reduced in order to reduce surface and sewer water flooding in the borough. The reduction rate should be maximised taking into consideration the site's constraints. It should be noted that the policy refers to major and minor development. For the purposes of flooding and drainage, minor development includes up to 9 dwellings (under half a hectare); up to 999m<sup>2</sup> of commercial floorspace (under 1 hectare); up to 9 Gypsy/Travellers pitches; household applications; change of use applications (no operational development) and listed building extensions and alterations. As the evidence for surface and sewer water flooding is evolving rapidly, the Council will undertake an early review to policy CE2, if necessary, once areas with critical drainage problems, as defined in PPS25, have been identified accurately, as agreed with the Environment Agency.

36.3.26 The Flood and Water Management Act 2010 and the Flood Risk Regulations 2009 placed new duties on Councils. As a Lead Local Flood Authority (LLFA), the Council has a responsibility for leading the co-ordination of local flood risk management within the borough. This includes ensuring that flood risks from local sources, including surface water runoff, groundwater and ordinary watercourses and their interactions, are identified and managed. The Council has the duty, under Section 9 of the Flood and Water Management Act 2010, to put in place a Local Flood Risk Management Strategy (LFRMS) to manage all

<sup>433</sup> Thames Water, Counters Creek Study, 2009. [www.thameswater.co.uk/counterscreek/17222.htm](http://www.thameswater.co.uk/counterscreek/17222.htm)

sources of flood risks consistent with a risk management approach. The Council adopted the LFRMS in July 2015<sup>434</sup>.

36.3.27 Local planning authorities should consult the LLFA on the management of surface water (including SuDS); satisfy themselves that the proposed minimum standards of operation are appropriate and ensure through the use of planning conditions or planning obligations that there are clear arrangements in place for ongoing maintenance over the lifetime of the development. SuDS should be designed to ensure that the maintenance and operation requirements are economically proportionate. It is very important that SuDS are well designed from the outset, when the site layout has not been defined to ensure their design will maximise their benefits for water attenuation, water quality, ecology, etc. SuDS should be maintained in order to be effective. Their maintenance is normally the responsibility of the owner or maintenance company.

### Water Infrastructure Projects

36.3.208 Thames Water has been instructed by the Government<sup>435</sup> to develop and implement a scheme, the Thames Tideway Tunnel, which will reduce the amount of untreated sewage that currently overflows directly to the river Thames after rainfall. The proposed Thames Tideway Tunnel will capture sewage discharges from existing Combined Sewage Overflows (CSOs) into a new tunnel and transfer the collected sewage for treatment. The Thames Tideway Tunnel is a sewerage infrastructure project which will capture the flows of storm sewage from sewer overflow points along the River Thames. The tunnel will run approximately 25 kilometres through the heart of London, and up to 75 meters beneath the River Thames, broadly following the path of the river. A Development Consent Order for the project was granted on the 12 September 2014. The Thames Tideway Tunnel will be built by Bazalgette Tunnel Limited - the 'infrastructure provider'. The importance and London-wide benefits of the Thames Tideway Tunnel are recognised by the Government and the Greater London Authority<sup>436</sup>. On this basis, the Council will ensure that the impacts of the works associated with the tunnel are carefully managed.

36.3.29 To address sewer flooding in the borough, Thames Water is proposing to build the Counters Creek Storm Relief Sewer. Ofwat approved the funds needed to undertake the Counters Creek Sewer Alleviation Scheme in December 2014. Thames Water's proposal includes four elements: a new storm relief sewer to increase the sewer capacity; SuDS to reduce surface water run-off; anti-flooding (FLIP) devices to stop the sewers surcharging into lower properties; and, local sewer improvements to increase the capacity of local sewers.

36.3.2430 The evidence on flooding shows that we need a policy to ensure that development considers potential flood risk from all sources and incorporates measures to reduce and mitigate this risk, especially the risk of surface water and sewer flooding.

#### **Policy CE2 Flooding**

The Council will require development to adapt to fluvial flooding and mitigate the effects of, and adapt to, surface water and sewer flooding, address and reduce flood risk and its impacts.

To deliver this the Council will:

#### **Flood Risk**

<sup>434</sup> [www.rbkc.gov.uk/planning-and-building-control/planning-policy/flooding/local-flood-risk-management-strategy](http://www.rbkc.gov.uk/planning-and-building-control/planning-policy/flooding/local-flood-risk-management-strategy)

<sup>435</sup> ~~The Government needs to comply with the 1991 EU Urban Waste Water Treatment Directive.~~

<sup>436</sup> London Plan Policy ~~4A.18~~ 5.14.

- a. resist vulnerable development, including self-contained basement dwellings, in Flood Risk Zone 3 and Critical Drainage Areas as defined in the Strategic Flood Risk Assessment and the Surface Water Management Plan;
- b. require a site-specific Flood Risk Assessment, including an 'Exception Test' for all development in Flood Risk Zone 2 and 3 as defined in the Strategic Flood Risk Assessment, for sites in Critical Drainage Areas ~~areas with critical drainage problems~~ and for all sites greater than one hectare;
- c. where required undertake the 'Sequential Test' for planning applications within Flood Risk Zones 2 and 3, and for sites in Critical Drainage Areas ~~areas with critical drainage problems~~;
- d. require development at risk from flooding in Flood Risk Zones 2 and 3, in Critical Drainage Areas ~~areas with critical drainage problems~~, or sites greater than 1ha to incorporate suitable flood defence or flood mitigation risk measures to account for site conditions in accordance with Building Regulations, existing guidance and the recommendations of the site-specific Flood Risk Assessment, the Strategic Flood Risk Assessment and the Local Flood Risk Management Strategy. These measures should:
  - i. address flooding for the 1 in 100 year storm event with flood depths of 0.5m and above;
  - ii. take into account access, egress and emergency exit routes;
  - iii. ensure buildings remain safe for occupants in case of flooding;
  - iv. consider the measures and actions included in the Local Flood Risk Management Strategy Action Plan
- e. require that flood risk measures and flood risk assets are protected and maintained to remain operational and provide adequate protection for the lifetime of development;
- f. require development adjacent to the Thames to be set back from the Thames flood defence to enable the sustainable and cost effective upgrade of flood defences and to implement any other recommendations of the Thames Estuary 2100 plan (TE2100).

### Surface Water Run-off and Sustainable Drainage Systems (SuDS)

- eg. require major development to aim to achieve greenfield run-off rates and minor development to achieve a reduction of 50% of existing rates, ensuring that surface water run-off is managed as close to its source as possible, through:
  - i. the reduction of impermeable surfaces;
  - ii. recognising opportunities for SuDS to provide other environmental benefits;
  - iii. factoring all flows into the sewer system (including swimming pools discharges, groundwater or other flows) in the calculations of greenfield run-off rates.
- ~~require sustainable urban drainage (SUDs SuDS), or other measures, to reduce both the volume and the speed of water run-off to the drainage system ensuring that surface water run-off is managed as close to its source as possible in line with the hierarchy in the London Plan. In particular, major development must make a significant reduction in the current volume and speed of water run-off to the drainage system;~~
- fh. require SuDS to have regard to DEFRA non-statutory SuDS standards and local guidance and to ensure SuDS are adequately designed, built and maintained for the lifetime of development;
- i. resist impermeable surfaces in front gardens and landscaped areas where planning permission is required;
- j. encourage the retrofitting of SuDS in buildings even if the development will not have drainage implications;
- g. ~~require development adjacent to the Thames to be set back from the Thames flood defence to enable the sustainable and cost effective upgrade of flood defences over the next 50 to 100 years;~~

### Water Infrastructure Projects

- hk. support the Thames Tideway Tunnel in principle require works associated with the construction of the Thames Tideway Tunnel to:
  - i. ~~preserve or enhance the character or appearance of the Cheyne, Royal Hospital and Thames Conservation areas;~~

- ii. ~~preserve listed buildings and their settings, and Parks and Gardens of Special Historic Interest (i.e. the Royal Hospital grounds);~~
- iii. ~~not adversely impact on amenity;~~
- iv. ~~not compromise the future of Cremorne Wharf which is a Safeguarded Wharf.~~

I. support the provision of water and sewage infrastructure which will lead to a substantial and long-term reduction of local flooding, providing the need outweighs any adverse effects during construction and operation and appropriate mitigation measures are in place.

**Consultation:** Please provide your comments on the Draft Policies, supporting text and any options and alternatives (set out in respective Policy Formulation Reports) by completing the Consultation Response Form at <https://planningconsult.rbkc.gov.uk/consult.ti/LPPRDP/>

## Waste

36.3.2231 In ~~2007-08~~ 2015-16, the Council collected ~~92,206~~ 79,068 tonnes (~~28,300,000~~ 26,797,000 tonnes nationally) of municipal waste (including ~~62,176~~ 52,695 tonnes of domestic waste), of which ~~78.3~~ 77.1 per cent was sent to Belvedere Energy from Waste (EfW) plant landfill and ~~22.9~~ 21.7 per cent of this waste was recycled or composted, which is lower than the national average of ~~34.5~~ 44.9 per cent. No waste was sent to landfill. These figures have improved in 2008-09 to 88,069 tonnes of municipal waste (including 59,533 tonnes of domestic waste), of which 76.3 per cent was sent to landfill and 23.7 per cent recycled or composted (versus a national average of 37.6 per cent). The average of waste produced per household in ~~2007-08~~ 2015-16 was ~~349~~ 464kg in the Royal Borough, this has increased from 450kg in 2013-14 and 461 kg in 2014-15 compared with a London average of 429 kg and an England average of 433kg<sup>437</sup>. In a highly built up borough such as the Royal Borough, it is important that adequate well designed and functional bin stores, refuse and recycling storage space is allocated and integrally designed into ~~in~~ all developments to ease collection and keep the streets litter free. Such storage space will need to be fully functional to the end user.

36.3.2332 Major development in Kensal and Earl's Court will have an impact on the borough's population, with an increase in the production of waste. It is important that waste management is taken into account in all development to handle waste arising from the new uses.

36.3.2433 The borough is very accessible by river and rail, which can provide opportunities for sustainable transportation of residual waste. All the borough's residual waste ~~Over two thirds of the borough's municipal waste~~ is transported from Wandsworth by barge to Belvedere EfW plant landfill. ~~Until the Belvedere Energy from Waste plant is fully commissioned in 2011, the remaining waste is composted and recycled. Recyclable material is transported to different locations in the UK and abroad.~~

36.3.2534 Considerable volumes of waste come from the construction process. Over the last two and a half years, almost 2,000 incidents of dumped builders waste were reported in the borough. Ensuring this waste is managed responsibly is therefore important. ~~Moreover, under the Site Waste Management Plans Regulations 2008, every construction project in England, valued at over £300,000, is required to create, monitor, update and complete a Site Waste Management Plan.~~

36.3.2635 The Waste Management Plan for England confirms a 'waste hierarchy' setting out how waste should be dealt with (prevention, preparing for re-use, recycling, other recovery and

<sup>437</sup> <http://www.audit-commission.gov.uk/SiteCollectionDocuments/Downloads/200708bvpidataquartiles190309.xls>.

disposal) and confirms the importance of the National Planning Policy for Waste (NPPW). The evidence on waste management shows that we need to examine new ways of dealing with waste in the borough. Moreover, the Mayor of London requires that the borough meets its waste apportionment figure which was is set out in the London Plan<sup>438</sup>. ~~On this basis a separate DPD will be produced which will set out how the Council will meet its waste apportionment figure and move towards a more sustainable way of dealing with the borough's waste. Applications for waste management facilities will be assessed against policy CE3 and relevant policies within the Environment Chapter of the Unitary Development Plan until the Waste DPD is formally adopted. The selection of sites for waste management and disposal will follow the criteria identified in the London Plan<sup>439</sup>.~~

36.3.36 The Council is statutorily required to deliver its municipal waste to places as directed by the Western Riverside Waste Authority (WRWA). Currently all of the municipal waste goes to WRWA facilities in Wandsworth for transfer and treatment (Western Riverside Transfer Station near Wandsworth Bridge and Cringle Dock Transfer Station next to Battersea Power Station). Since 2011, recyclables go to a Materials Recycling Facility at Smugglers Way in Wandsworth and residuals are barged down river to the Riverside Resource Recovery Limited (RRRL)'s facility at Belvedere, in the London Borough of Bexley where the waste is incinerated to generate electricity. It is the largest EfW facility in the UK and one of the largest in Europe, which will eventually generate 72MW of power. This is confirmed by the WRWA's Policy Statement<sup>440</sup> (July 2013) which also states that the facility can handle 670,000 tonnes of waste per year although the WRWA supplies around 300,000 tonnes of residual waste to it. The contract runs until 2031 meaning that, in reality, waste arisings from the borough and the other WRWA Waste Planning Authorities (WPAs) are dealt with in Bexley. The Belvedere Energy from Waste plant opened in Bexley in May 2012. The Council is working jointly with the WRWA to agree with the Waste Planning Authority that its apportionment gap is met at the plant.

#### **Policy CE3 Waste**

The Council will plan for the sustainable management of waste streams, including meeting the waste apportionment figure as set out in the London Plan and will ensure that waste is managed in accordance with the waste hierarchy, which is to reduce, reuse or recycle waste as close as possible to where it is produced.

To deliver this the Council will:

- ~~a. prepare a specific waste DPD to show how the waste apportionment figure of 309,000 tonnes per annum by 2020 required by the London Plan will be met. This will include:~~
  - ~~i. identifying suitable sites for the purpose of managing the waste;~~
  - ~~ii. identifying which boroughs the Council will be working with the WRWA Waste Planning Authorities (WPAs) and other London boroughs and to establish how much the pooled apportionment of those boroughs will be so that the apportionment figure can be met;~~
  - ~~iii. working in partnership with the GLA and neighbouring other London boroughs to meet the apportionment figure;~~
  - ~~iv. safeguarding the existing waste management sites along with Cremorne Wharf, maximising its use for waste management, water transport and cargo handling purposes;~~
- ~~b. require on-site waste management facilities as part of development at Kensal and Earl's Court to handle waste arising from the new uses on the site (this could include facilities such as recycling facilities and anaerobic digestion);~~

<sup>438</sup> London Plan Policy ~~4A.25, 5.16, 5.17~~

<sup>439</sup> ~~London Plan Policy 4A.23.~~

<sup>440</sup> [www.wrwa.gov.uk/media/44808/waste-policy-statement-july-2013.pdf](http://www.wrwa.gov.uk/media/44808/waste-policy-statement-july-2013.pdf)

- ee. require all new development to provide adequate well designed, functional and accessible refuse and recycling storage space which allows for ease of collection in all developments, such facilities must;
- i. be within each flat to allow for temporary separate storage of recyclable materials
  - ii. include communal storage for waste, including for separated recyclables, pending its collection
  - iii. manage impacts on amenity including those caused by odour, noise and dust
  - iv. set out adequate contingency measures to manage any failure of such facilities in a waste management strategy<sup>441</sup> for the development.
- ef. require that development proposals make use of the rail and the waterway network for the transportation of construction waste and other waste;
- eg. require applicants for major developments to prepare and implement Site Waste Management Plans for demolition and construction waste.

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*No changes are proposed to the existing Local Plan section and policy on Biodiversity (Policy CE4).*

## Air Quality

- 36.3.43 Poor air quality is damaging our health at every stage of life. The report: Every Breath We Take – The Lifelong Impacts of Air Pollution<sup>442</sup> underlines the harm that air pollution is causing not only to people with respiratory and cardiovascular diseases, but also impairing lung development in children.
- 36.3.44 To address the unacceptable concentrations of nitrogen dioxide in major UK cities the Government published an updated action plan<sup>443</sup> aimed at achieving the nitrogen dioxide annual mean objective in London by 2025. However the Government's predictive modelling may have to be revised in the light of vehicle emission testing unreliability, and also the threat of EU Court fines may result in this timescale being shortened.
- 36.3.3345 The entire borough is designated as an Air Quality Management Area (AQMA) due to seriously elevated levels of nitrogen dioxide (NO<sub>2</sub>) and particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>)<sup>444</sup> which are harming residents' health. Planning New developments can have an impact on air quality, through building design, construction, energy, heating and cooling systems and vehicle movements associated with the construction and operational phase.
- 36.3.3446 Nitrogen dioxide levels in the borough remain unacceptable. The 2015 (Air Quality) Updating and Screening Assessment shows that at three continuous monitoring sites in the south of the borough the annual average concentrations in 2014 exceeded 70 µg/m<sup>3</sup> whereas the national objective is 40 µg/m<sup>3</sup>. Although levels declined in the four years before

<sup>441</sup> See [www.lwarb.gov.uk/wp-content/uploads/2015/05/Template-waste-management-strategy-new-build-flats-FINAL.pdf](http://www.lwarb.gov.uk/wp-content/uploads/2015/05/Template-waste-management-strategy-new-build-flats-FINAL.pdf) for a template recycling and waste management strategy for new build flats.

<sup>442</sup> Royal College of Physicians and Royal College of Paediatricians and Child Health, 2016 [www.rcplondon.ac.uk/projects/outputs/every-breath-we-take-lifelong-impact-air-pollution](http://www.rcplondon.ac.uk/projects/outputs/every-breath-we-take-lifelong-impact-air-pollution)

<sup>443</sup> Air Quality Plan for Nitrogen Dioxide (NO<sub>2</sub>) in UK: Defra 2015 [www.gov.uk/government/collections/air-quality-plan-for-nitrogen-dioxide-no2-in-uk-2015](http://www.gov.uk/government/collections/air-quality-plan-for-nitrogen-dioxide-no2-in-uk-2015)

<sup>444</sup> Local Air Quality Management Progress Report, April 2008.

~~2014 by between 10 and 20%, continued reductions cannot be relied on unless road traffic and building emissions are substantially reduced<sup>445</sup>. In 2008, the borough emitted an estimated 86 tonnes of NOx per km<sup>2</sup> per annum, compared to an inner London borough average of 51.5 tonnes per km<sup>2</sup> per annum. The borough emits an estimated four tonnes of PM10 (particulate matter) per km<sup>2</sup> per year, compared to an inner London borough average of 2.4 tonnes per km<sup>2</sup> per year<sup>446</sup>.~~

36.3.~~3547~~ The largest source of NO<sub>2</sub> is domestic and commercial gas burning while the largest source of PM10 is road traffic exhaust emissions.

36.3.~~3648~~ The worst air quality is found along the main vehicle routes, with poor air quality found in the areas between these routes. Typical annual average concentrations of nitrogen dioxide at many roadside locations are twice the Government's air quality objective level of 40 micrograms per cubic meter. Daily exceedences of the 24 hour fine particle (PM10) objective continue to occur at some roadside locations.

~~*Local Air Quality Management Progress Report, April 2008. Updating and Screening Assessment report: RBKC 2015*~~

36.3.~~3749~~ Some measures introduced may have an adverse impact on air quality. Biomass, derived from biological materials such as plants and timber, is a renewable source of fuel for producing heat and power that delivers significant reductions of CO<sub>2</sub>. However, the use of biomass and biomass/ gas fired CCHP and CHP increases NO<sub>x</sub> (and particle emissions in the case of biomass). CHP technologies often emit higher levels of NO<sub>x</sub> than biomass boilers. Diesel generators, which can be used routinely or to feed electricity to the grid also emit high levels of NO<sub>x</sub> and particulates. This is undesirable in an Air Quality Management Area and Smoke Control Area and the technology does not yet exist to achieve acceptable emission levels.

36.3.~~3850~~ The evidence on air quality shows that we need to ensure that development proposals address the potential impact on air quality ~~in isolation~~ both as individual development proposals alongside and their combined cumulative impact with neighbouring developments. Any air quality assessment and low emission strategy must set out the potential impact of the development on local air quality. Given the ongoing exceedences of air pollutants throughout the borough, every opportunity ~~ies~~ needs to be taken to improve air quality in accordance with the Council's ~~Local Air Quality Action Plan~~ Air Quality and Climate Change Action Plan 2016-2021<sup>447</sup>.

### **Policy CE5 Air Quality**

The Council will carefully control the impact of development on air quality, including the consideration of pollution from vehicles, construction and the heating and cooling of buildings. The Council will require development to be carried out in a way that minimises the impact on air quality and mitigates exceedences of air pollutants.

To deliver this the Council will:

a. require an air quality assessment for all major developments~~s~~;

<sup>445</sup>

[www.rbkc.gov.uk/sites/default/files/atoms/files/Air%20Quality%20Updating%20and%20Screening%20Assessment%202015.pdf](http://www.rbkc.gov.uk/sites/default/files/atoms/files/Air%20Quality%20Updating%20and%20Screening%20Assessment%202015.pdf)

<sup>446</sup> ~~Calculated using national figures from the London Atmospheric Emissions Inventory 2006 GLA (released April 2009)~~

<sup>447</sup> [www.rbkc.gov.uk/AQCCAP](http://www.rbkc.gov.uk/AQCCAP)

b. require developments to be 'air quality neutral' and resist development proposals which would materially increase exceedences levels of local air pollutants and have an unacceptable impact on amenity or health unless the development mitigates this impact through physical measures, or and financial contributions to implement proposals in the Council's Local Air Quality and Climate Change Action Management Plan;

~~c. require that the Code for Sustainable Homes and BREEAM assessments obtains all credits available for reducing pollution and emissions, and improving air quality;~~

~~dc. resist biomass combustion and combined heat and power technologies/CCHP, which may lead to an increase of in emissions, and seek to use greater energy efficiency and non combustion renewable technologies to make carbon savings, unless its use will not have a detrimental impact on air quality;~~

~~ed. Control-require that emissions of particles and NOx are controlled during demolition and construction, and carry-out-a risk assessments are carried out to identify potential impacts and corresponding mitigation measures, including on site monitoring, if required by the Council.~~

**Consultation:** Please provide your comments on the Draft Policies, supporting text and any options and alternatives (set out in respective Policy Formulation Reports) by completing the Consultation Response Form at <https://planningconsult.rbkc.gov.uk/consult.ti/LPPRDP/>

*No changes are proposed to the existing Local Plan sections and policies Noise and Vibration (Policy CE6) and Contaminated Land (Policy CE7).*

## 36.4 Corporate And Partner Actions

### Introduction

36.4.1 Delivering the strategic objective of Respecting Environmental Limits will take more than the planning policies above. A range of activities undertaken across the Council and by our partner organisations will also deliver this objective. This section sets out the main strategies and action plans that have been prepared and that will play a part in delivering this objective. It then sets out specific actions that will be undertaken to further the objective.

### Corporate or Partnership Strategies that will contribute to the delivery of the Strategic Objective

~~Climate Change Strategy 2008—2015Air Quality and Climate Change Action Plan (2016-2021)~~

36.4.2 The Council's Environment, Leisure and Residents Services Department has produced a ~~seven year strategy which aims to make a difference on three levels: in the operation of the Council's own estate, in delivering services, and in stimulating behavioural change amongst businesses, residents and partner organisations in the community. This strategy does not come with a detailed long term action plan but it sets the direction of travel that the Council believes it should follow to achieve measurable change. It focuses on how the Council can mitigate global warming by reducing the emission of greenhouse gases (including carbon dioxide (CO2), water vapour, methane (CH4) and nitrous oxides (NO2) and how the Council can help our residents to mitigate climate change and adapt to its impacts on our community. plan which is a combination of measures aimed at reducing emissions of greenhouse gases and urban air pollutants. The plan includes the Council's aims and~~

objectives for the next five years to tackle poor air quality and climate change and a list of actions to meet these aims and objectives.

#### *Carbon Management Programme*

- 36.4.43 This Council is part of the Carbon Trust's Local Authority Carbon Management Programme. Through the programme the Council is committed to setting targets for carbon reduction and monitoring carbon emissions. The Carbon Management Plan published in August 2009 set out the Council's ambition to reduce carbon emissions from its own operations by 40 per cent by 2020.

#### *Western Riverside Waste Authority ~~Joint Municipal~~ Waste Management Strategy 2006–2011 Policy July 2013*

- 36.4.54 This strategy policy was produced by the Western Riverside Waste Authority and its constituent councils (the London Boroughs of Hammersmith and Fulham, Lambeth, Wandsworth and the Royal Borough of Kensington and Chelsea). It ~~covers the period 2006 to 2011 and establishes integrated waste management systems, which ensure that the Best Practicable Environmental Option is pursued for each particular waste stream. Although it covers the period 2006 to 2011, it is not intended to be a static document and it is expected to continually evolve through the process of feedback and review seeks to embrace the concepts of waste provision, reduce waste produced, increase waste re-use, recycle waste that is collected, minimise environmental impact, encourage job opportunities, minimise disruption to others and reduce costs of operations.~~

#### *Biodiversity Action Plan 2010/11 to 2014/15*

- 36.4.65 The Royal Borough's Local Biodiversity Action Plan is a strategy and set of objectives that has been produced in consultation with conservation experts, local organisations and individuals, and linked to the Mayor's Biodiversity Strategy for London. The key aims and objectives of the Biodiversity Action Plan are to:
- (a) audit and monitor the ecological status of habitats and species,
  - (b) raise awareness of the importance of biodiversity and protect and enhance the borough's biodiversity resource.

#### *The National Air Quality Strategy 2007 and Air Quality Plan for Nitrogen Dioxide (NO<sub>2</sub>) in UK 2015*

- 36.4.76 Some years ago the National Air Quality Strategy was prepared by the Department for the Environment and Rural Affairs and sets out air quality objectives and policy options to improve air quality in the UK. The strategy provides a long term vision for improving air quality in the UK and offers options for further consideration to reduce the risk to health and the environment from air pollution. In certain respects the Government may need to revisit the strategy in view of the continued failure to meet some EU air quality objectives in inner urban areas such as central London. The updated Air Quality Plan for Nitrogen Dioxide (NO<sub>2</sub>) aims to achieve the nitrogen dioxide annual mean objective in London by 2025.

#### *Air Quality Action Plan*

- ~~36.4.8 The Royal Borough's Air Quality Action Plan (2009-2014) sets out how to meet local air pollution goals and objectives, through a range of measures aimed at reducing emissions from existing buildings, new developments and from transport including environmental advice for businesses; improved energy efficiency in buildings; promote cleaner and more economical road vehicles; and promote the use of less polluting modes of transport. A new~~

~~Action Plan is to be published in 2014 including existing initiatives which have proved successful and can be developed further. It will also set out new measures to meet the challenge of air quality hotspots and unacceptable levels of pollution.~~

~~*Local Air Quality Management: Annual Review and Assessment Report*~~

~~36.4.9 The Royal Borough's Local Air Quality Management report provides information on the review and assessment of air quality in the borough. This review includes monitoring data collected during the previous year on the key pollutants identified in the national Air Quality Strategy, which are chiefly nitrogen dioxide (NO<sub>2</sub>), particulate matter (PM10), carbon monoxide, benzene, 1,3-butadiene, lead and sulphur dioxide.~~

*The Mayor of London's Ambient Noise Strategy*

36.4.107 The Ambient Noise Strategy sets out a comprehensive agenda and policy aims to secure support for minimising noise and improving soundscape quality across the capital. The important issues considered securing noise reducing surfaces on Transport for London's roads; securing a night aircraft ban across London; and reducing noise through better planning and design of new housing and for road traffic noise and fostering better and quieter driving styles.

### **Corporate or Partnership Actions for Respecting Environmental Limits**

1. The Council as a whole, and the Directorate Department of Environment, Leisure and Residents Services and the Environmental Health Directorate in particular, will implement the Council's Climate Change Strategy Air Quality and Climate Change Action Plan.
2. The Council as a whole, and the Environment, Leisure and Residents Services Department in particular, will implement the Carbon Management Plan.
3. ~~The Directorate of~~ Planning and Borough Development and the ~~Directorate of~~ Environment, Leisure and Residents Services Department will work with the Greater London Authority, London Development Agency and London Councils to take a leading role in identifying new and existing opportunities for decentralised heat and energy networks through heat and energy masterplanning.
4. ~~The Directorate of~~ Planning and Borough Development along with the ~~Directorate of~~ Environment, Leisure and Residents Services Department will explore the potential for partnerships for delivering decentralised energy networks through Energy Service Companies (ESCo) and/or Multiple Utility Service Companies (MUSCo).
5. ~~The Directorate of~~ Planning and Borough Development will work with Thames Water and Bazalgette Tunnel Limited to ensure that the timely implementation of the Thames Tideway Tunnel has a minimal impact on the borough.
6. ~~The Directorate of~~ Planning and Borough Development together with the Environment, Leisure and Residents Services Department will actively support Thames Water in the delivery of short-term mitigation against sewer flooding and will continue to support the planning and development of a long-term solution to reduce the risk of sewer flooding in the borough.
7. ~~The Directorate of~~ Planning and Borough Development will lead the Council's Lead Local Flood Authority duties to reduce and manage the risk of flooding thorough the borough.

8. ~~The Directorate of Planning and Borough Development along with the Directorate of Environment, Leisure and Residents Services Department will actively work the Environment Agency and Thames Water to identify areas with critical drainage problems; The Council as a whole, and the Directorate of Panning and Borough Development in particular, will implement the Council's Local Flood Risk Management Strategy.~~
9. ~~The Directorate of Planning and Borough Development and the Directorate of Environment, Leisure and Residents Services Department will work with emergency planners, drainage and highways authorities, Thames Water and the Environment Agency to prepare and implement a Surface Water Management Plan; a Local Flood Risk Management Strategy and a Flood Risk Management Plan.~~
109. The Directorate of Environment, Leisure and Residents Services Department will work in partnership with constituent authorities within the Western Riverside Waste Authority to implement ~~the agreed Joint Municipal Waste Management Strategy~~ its policy.
11. ~~The Directorate of Planning and Borough Development will work with neighbouring boroughs and the GLA to prepare a Waste Development Plan Document by the end of the plan period.~~
120. Environment, Leisure and Residents Services, and the Council as a whole, will strive to manage waste as effectively as possible, and aim to increase the recycling rate and reduce recycle contamination to under 14 per cent. In 2015-16 the recycling rate was 22.9 per cent and aiming for 24.09 per cent domestic recycling and a reduction in the recycle contamination rate was to 15.57 14.09 per cent.
- 131 The Directorate of Environment, Leisure and Residents Services Department will regularly review the sites of Strategic Nature Conservation Importance (SINC) as part of the implementation of the national, regional and local Biodiversity Action Plans.
142. The Directorate of Environment, Leisure and Residents Services Department will work with the GLA and the Port of London Authority (PLA) to enhance the function of the Blue Ribbon Network, and particularly the use of the Thames for transport.
153. The Directorate Department of Transport and Technical Services will implement the Air Quality and Climate Change Action Plan objectives during the life of the Local Plan;
164. The Directorate of Environment, Leisure and Residents Services Department will work with partners to encourage greater use and provision for lower emission vehicles.
175. The Directorate Department of Transport and Technical Services will implement the Mayor's Ambient Noise Strategy and work with the GLA in their responsibility for preparing London Agglomeration Noise Action Plans and other strategic initiatives on regional noise mitigation.
186. The Directorate Department of Transport and Technical Services will explore the feasibility of preparing a Local Ambient Noise Strategy, incorporating resident surveys to identify priority noise issues in the borough.
197. The Directorate Department of Transport and Technical Services will provide comments on various consultation documents, including Heathrow Aviation Noise.