

## Appendix 7

### Climate Change Impacts for Library Local

<b>Aim is to reduce Carbon Emissions (CO2) by 80% by 2050</b>	<b>Positive impact</b>	<b>Negative impact</b>	<b>Mitigation measure</b>	<b>Effect on CO2 emissions (+ or - tonnes of CO2)</b>	<b>Opportunity to promote</b>
<b>Water</b> Water Use and Flooding	Enhanced water efficiency in the new libraries	New builds/existing premises	Enhanced water efficiency in the new libraries. Redesigned public realm where possible	Not known – will be identified as detailed plans are worked up.	Awareness raising campaigns with library users
<b>Energy</b> Energy efficiency and energy saving in buildings, including opportunities for installation of renewable energy generation	Library buildings will meet minimum level for public buildings. Standards of new build sites to meet Council Policy which is BREEAM very good, including for refurbishment at Lea Bridge site. Also reduction in carbon emissions to 35% beyond Building Regulations.	There will be disruption while the libraries are being built/refurbished but this will be mitigated in part by having a more efficient energy standard.	Design of the libraries with more ambitious and efficient energy efficiency. Energy efficiency strategy and plan to be required/agreed through the Construction	Not known – will be identified as detailed plans are worked up.	New heating and water systems will help to meet the required planning policy carbon reduction targets.
<b>Air</b>	Discouraging car	2-4 year project	Co-location with	Not known – will be	Awareness raising

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Air quality, pollution	use and encouraging walking, cycling and use of public transport	development period may see short term drops.	other retail and service offers should reduce journeys	identified as detailed plans are worked up.	campaigns with library users
<b>Waste</b> – reducing, reusing and recycling waste	Efficient and up to date waste management and recycling both within any demolition and construction processes through a waste strategy, but also in terms of the facilities provided for the libraries once the development is completed	Demolition of existing libraries	Waste strategy and plan to be agreed through the Construction process.	Not known – will be identified as detailed plans are worked up.	Awareness raising campaigns with library users
<b>Land</b> Use of brown-field and green-field sites	The proposed developments are on existing brownfield sites or in already completed buildings	Increased footfall new locations	The libraries are being built on existing brownfield sites, an already built unit or refurbishing an existing library	Not known – will be identified as detailed plans are worked up.	Redevelopment of brownfield sites, minimises impact on green field land and improves upon existing standard of libraries
<b>Bio-diversity</b>	New builds on	Temporary	Bio-diversity	Not known – will be	Plans will be shown

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Effects on bio-diversity including green space, trees, rivers and streams	brownfield sites, with greenspace likely to be included and existing site alongside established park	interruption during construction phases	management plan will be developed, where possible, as detailed plans are worked up.	identified as detailed plans are worked up.	during ongoing consultation period
<b>Transport</b> Travelling to deliver service. Discouraging car use and encouraging walking, cycling and use of public transport	The new developments will take account of the PTAL score of the new sites in line with standards in the Local Plan	2 - 4 year project development period will see short term interruptions.	The sites are well served by both bus and over ground rail services, as alternatives to road transport.	Not known – will be identified as detailed plans are worked up.	Awareness raising campaigns, ongoing promotion and information provided to library users
<b>Buildings</b> Adaptability of buildings to heat or flooding. Use of green roofs, rainwater harvesting etc.	New sites will take this into consideration when detailed plans are drawn up	Minimal	These measures will be built into the development plans where possible	Not known – will be identified as detailed plans are worked up.	As the design process evolves, aspects of the redevelopment can be showcased to library users.

**Commentary on any differences in financial costings for climate change mitigation / adaptation measures including energy efficiency and potential external grant sources**

Not known – will be identified as detailed plans are worked up.

**Potential “whole life costing” savings ie: increased installation costs will achieve running cost savings over lifetime; including reduced use of resources eg: water saving devices**

Not known – will be identified as detailed plans are worked up.

**Explanation of Proposal chosen in context of results matrix assessment, including what mitigating steps can and have been taken**

The options chosen for delivery of the Library Local Improvement Programme where two new libraries are being built will give the Council more control and influence over final design before and during the construction process.

**Total Tonnes of CO2 & DEC rating of building to be occupied:** Not known at this stage