

## Eco Impact Checklist

<b>Title of report: Building Practice Capital Programme</b>				
<b>Report author: David Martin</b>				
<b>Anticipated date of key decision April</b>				
<b>Summary of proposals: Essential repair and maintenance to prevent litigation and ensure the lower carbon operation of BCC estate</b>				
Will the proposal impact on...	Yes/ No	+ive or -ive	If Yes...	
			Briefly describe impact	Briefly describe Mitigation measures
Emission of Climate Changing Gases?	Yes	+ve	The proposals contain various opportunities to replace building components with more energy efficient, or zero carbon alternatives. There are opportunities to installing additional efficiency measures at the same time. Security could also be upgraded where doors, windows, and boundaries are being replaced, reducing the likelihood or break-ins or vandalism causing the need for future works.	Investigate options for installing the most energy efficient and secure measures using Salix capital (including opportunities to improve insulation). Investigate options for installing rooftop energy generation and heating systems that do not use fossil fuels, or that are heat network ready (in areas where heat networks are due to be installed).
		-ve	There will be embodied carbon in replacement materials and equipment.	Select lower embodied carbon materials where available.
Bristol's resilience to the effects of climate change?	Yes	+ve	Works will contribute to better thermal building envelopes, providing greater resilience to extreme temperatures and storms.	Where boundary walls, boundary fences, gates, door, windows, or drainage systems are being repaired or replaced on flood risk sites, ensure that works maintain or improve suitable flood defences / resilience at those sites.

Consumption of non-renewable resources?	Yes	+ve and -ve	Some measures may have been made by using non-renewable resources.	The overall impact in use will outweigh the costs, but ensure that products are readily recyclable wherever possible.
Production, recycling or disposal of waste	Yes	-ve	Projects will produce waste.	The environmental impact of waste for each bid will be evaluated during tenders. This will include waste produced during works, and at the end of life for installed products.
The appearance of the city?	Yes	+ve	Repairs and other measures may improve the visual appearance of buildings.	No mitigation required.
Pollution to land, water, or air?	Yes	+ve	The opportunity to investigate the possibility of historical oil contamination on one site after removing a wall may prevent any pollution reaching a sensitive habitat.	Ensure any contamination is thoroughly remediated.
Wildlife and habitats?	Yes	+ve	See 'Pollution to land, water, or air'. Installing hedgehog holes at the base of boundary walls, fencing, or gates can help create wildlife corridors.	Where feasible, add wildlife enhancement measures, in line with BCC Ecologist advice.

**Consulted with: BCC Energy Service**

**Summary of impacts and Mitigation - to go into the main Cabinet/ Council Report**

The significant impacts of this proposal are embodied carbon in materials used, the impact of works, and the in-use impacts of installed materials and products. Some of the proposed works have the potential to significantly influence the energy efficiency and carbon footprints of the sites where they are applied.

Impacts will be mitigated by considering the embodied and in-use energy efficiency and security properties of specified materials and products, and taking opportunities to add related low or zero carbon measures during installation. Flood risk, wildlife corridors, and the visual appearance or properties will also be considered. Projects will be subject to

competitive tenders which will involve evaluating the bidders approach to reducing environmental impact, including the embodied carbon of materials proposed.

The Building Practice Team is committed to working with colleagues including BCC Energy Service to identify opportunities to implement energy efficiency measures, in line with the council's commitment to carbon neutrality for its own estate by 2025.

If opportunities are taken to implement energy efficiency measures, the net effects of the proposals are positive, and are likely to significantly reduce carbon emissions during the operation of some sites.

**Checklist completed by:**

Name:	David Martin
Dept.:	Facilities Management
Extension:	74910
Date:	11/03/2020
Verified by Environmental Performance Team	Giles Liddell