

Eco Impact Checklist

| Title of report: Bristol Avon Flood Strategy | | | | |
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| Report author: Matthew Sugden | | | | |
| Anticipated date of key decision March 2021 | | | | |
| Summary of proposals: The strategy sets out the Strategic Outline Case (SOC) to deliver a strategic flood risk management approach to central Bristol. The preferred approach is to construct new or improved flood defences at low spots along the banks of the river Avon in two phases; phase one in 2025 – 2030 and phase two in the 2060s | | | | |
| 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 / +ve | There will be embodied carbon in concrete, but there may also be potential to store carbon in any timber that is used. | A carbon assessment has been carried out and will be updated as designs are progressed. Consideration will be given to minimising the quantity of concrete or other materials high in embodied carbon through design. The use of concrete that is lower in embodied and in-use emissions, or the inclusion of biomass materials could be used to create a carbon sink will also be considered. Carbon offsetting will be considered as a last resort. |
| Bristol's resilience to the effects of climate change? | Yes | +ve | Flood risk will be reduced including account of climate change | No mitigation required. |
| Consumption of non-renewable resources? | Yes | -ve | Concrete and other resources will be required for the delivery of the defences | Consideration will be given to minimising the quantity of concrete needed through design, and the use of concrete that is lower in embodied and in-use emissions. |
| Production, recycling or disposal of waste | Yes | -ve | Waste material arising from construction | Good written plans and construction practices around material storage and waste management |

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| | | | | will be used. |
| The appearance of the city? | Yes | +ve and –ve | Designs will be developed that enhance the local landscape. Construction sites will temporarily adversely impact appearance of the city | Appropriate phasing plan to minimise concurrent construction sites in the city |
| Pollution to land, water, or air? | No | | There is potential to contaminate ground or watercourses by carrying out construction works in near watercourses. | Good written plans construction practices for pollution prevention will be followed. |
| Wildlife and habitats? | | +ve and -ve | Opportunities to enhance biodiversity will be incorporated in to designs. Potential adverse impact during construction | Appropriate timing of works to avoid impact on wildlife (e.g. nesting birds) and good practice construction techniques. Checks for the presences of non-native invasive species will be made and precautions taken to avoid spreading them, if needed. The project will aim to achieve biodiversity net gain. |

Consulted with:

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

The significant impacts of this proposal are the beneficial reduction of flood risk and the harmful emissions associated with embodied carbon in materials, waste and pollution associated with construction. Potential impacts on biodiversity may be beneficial or harmful.

The proposals include the following measures to mitigate the impacts: measures to reduce the use of materials with high embodied carbon, good construction practices, and careful planning to enhance biodiversity and appearance with good designs.

The net effects of the proposals are likely to be beneficial in the longer term if all the mitigation measures outlined are followed.

Checklist completed by:

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Dept.:

Strategic City Transport

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| Date: | 19/01/2021 |
| Verified by Environmental Performance Team | Giles Liddell |