

Climate Impact Assessment, Appendix 6 , Cabinet Report - Land Acquisition for Flood Alleviation Schemes

Will the decision/proposal impact...	Impact	If an impact or potential impacts are identified:			
		Describe impacts or potential impacts on emissions from the Council and its contractors.	Describe impact or potential impacts on emissions across the Borough as a whole.	Describe any measures to mitigate emission impacts	Outline any monitoring of emission impacts that will be carried out
Emissions from non-domestic buildings?	None	N/A	N/A	N/A	N/A
Emissions from transport?	None	N/A	N/A	N/A	N/A
Emissions from waste, or the quantity of waste itself?	None	N/A	N/A	N/A	N/A
Emissions from housing and domestic buildings?	None	N/A	N/A	N/A	N/A
Emissions from construction and/or development?	None	N/A	N/A	N/A	N/A

Carbon capture (e.g. through trees)?	None	N/A	N/A	N/A	N/A
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Identify any emissions impacts associated with this decision which have not been covered by the above fields:

This assessment relates only to the purchase / leasing of land required to accommodate the construction of the proposed Flood Alleviation schemes. An additional Cabinet Report will be submitted for the construction phase which will consider carbon emissions on a new assessment

Will the proposal affect Council services' resilience to climate change, or the capacity of people living in the Borough to adapt to climate change?

As detailed in the main report, the proposal relates to the purchase / leasing of land required to accommodate the construction of flood alleviation schemes on Whiston Brook and on Eel Mires Dike, to protect residents, businesses and local roads from flooding, in Whiston and Laughton Common, respectively.

In November 2019, 27 residential properties were flooded in Whiston and 52 in Laughton Common a combined total of eighteen residences were flooded again during storm Babet in October 2023.

In Rotherham, central climate change projections are for warmer, wetter winters and more intense rainfall all year round. National-level flood risk modelling show that with the Boroughs 's existing defences, the number of residences at high risk (greater than 1 in 30 annual probability) of flooding from river could increase 11.36 by mid-century, compared with present day risk. Greater percentage increases are modelled for other levels and sourced of flood risk. Flood alleviation schemes in Whiston, Laughton Common and elsewhere are needed to mitigate the increased risk of flooding due to climate change.

Provide a summary of all impacts and mitigation/monitoring measures:

This assessment relates only to the purchase / leasing of land required to accommodate the construction of the proposed flood alleviation schemes. An additional Cabinet Report will be submitted for the construction phase which will consider mitigation/monitoring measures. Flood alleviation schemes are needed to protect residents, business and local roads from increasing flood risk, driven by climate change

Supporting information:	
Climate Impact Assessment Author	Richard Jackson Head of Highways and Flood Risk Community Safety and Streetscene Regeneration and Environment
Please outline any research, data or information used to complete this Climate Impact Assessment.	<ul style="list-style-type: none"> <li>• Met Office. 2025. <i>Climate Report for Rotherham</i>. [Online]. Local Authority Climate Service. [Accessed 12 May 2025]. Available from: <a href="https://www.reports.esriuk.com/view-report/b8eb3cee8f764147a2cfcd69cf36238f/E08000018">https://www.reports.esriuk.com/view-report/b8eb3cee8f764147a2cfcd69cf36238f/E08000018</a></li> <li>• RMBC. 2024. <i>Overview of the October 2023 Storm Babet Flooding Event and Response (Flood and Water Management Act 2010 Section 19 Investigation)</i>. [Online]. [Accessed 12 May 2025]. Available from: <a href="https://www.rotherham.gov.uk/downloads/file/4006/storm-babet-flood-investigation-report-29-08-24">https://www.rotherham.gov.uk/downloads/file/4006/storm-babet-flood-investigation-report-29-08-24</a></li> <li>• RMBC. 2025. <i>Rotherham JSNA – Environment – Climate Change</i>. [Online]. Rotherham Data Hub. [Accessed 12 May 2025]. Available from: <a href="https://www.rotherham.gov.uk/data/homepage/7/climate-change">https://www.rotherham.gov.uk/data/homepage/7/climate-change</a></li> <li>• </li> </ul>
If quantities of emissions are relevant to and have been used in this form, please identify which conversion factors have been used to quantify impacts.	N/A
Validation	<p>Tracking Reference: Tracking Reference: CIA 463</p> <p>Arthur King Principal Climate Change Officer</p>