

Environmental considerations

The works have been carefully planned to be as sympathetic as possible to the environment. Vegetation present within the channel will be retained and enhanced. Where possible, marginal ledges will be created to allow amphibians to access the brook.

Japanese Knotweed is common along the banks of Cringle Brook. This invasive weed restricts the growth of native plants and produces an untidy appearance to the watercourse. Methods will be employed to ensure that Japanese Knotweed is not spread as a consequence of constructing the flood defence works.



Japanese Knotweed

Every effort will be made to keep noise and disruption during construction to a minimum, though it is likely that some disturbance will occur.

Contact

Please contact us if you have any questions, or wish to make suggestions about any aspect of this project.

Information

You can obtain further information about the Cringle Brook scheme by contacting Project Manager Celia McNally at the Regional Office address overleaf.

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ENVIRONMENT AGENCY

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Cringle Brook Flood Alleviation Scheme



Potential blockage
of channel



Potential blockage
of culvert



Poor access to channel



Culvert collapse



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The problem

Cringle Brook, a small watercourse that flows through the highly urbanised area of south Manchester, has a history of flooding. Six severe flood events have been recorded between 1962 and 2000. The flooding caused damage and disruption to properties adjoining the brook. This scheme aims to improve the standard of flood protection for the local community.

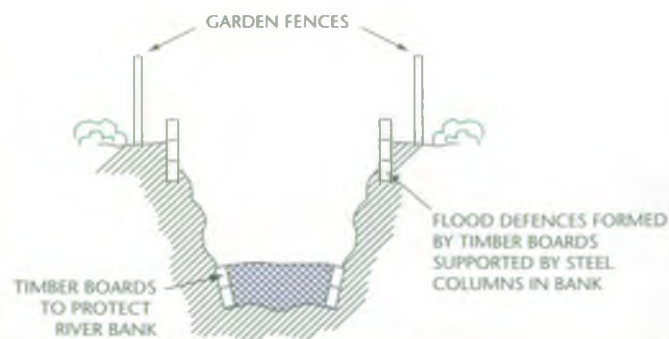
Flooding is normally caused by high river flows in combination with:

1. Insufficient channel capacity – too much water for the size of channel.
2. Culvert blockage, caused by debris from illegal dumping of rubbish, including garden refuse.
3. Culvert collapse, caused by poor state of repair.

1. Flood defence works

Flooding has occurred to gardens and properties along Cringle Brook. The proposed works will increase the capacity of the watercourse, reducing the flood risk.

Some obstructions to flow will be removed where possible and in other areas the flood defences will be raised as shown below:



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2. Access & debris screens

Cringle Brook flows through highly urbanised areas where silt and rubbish accumulate. Rubbish can become trapped at narrow sections of the channel or within the culverts, causing water levels in the brook to rise. Flooding can occur if the trapped debris is not removed.

At present, access to Cringle Brook to remove debris is poor. By creating or improving the access points and installing water level monitoring equipment, action can be taken to remove trapped debris in the brook to avoid flooding.

New debris screens are proposed to collect this rubbish at Acorn Close and Edgeworth Drive.



The site for the proposed Edgeworth Drive debris screen



Artist's impression of the proposed Edgeworth Drive debris screen

3. Culvert repairs

Many of the culverts through which Cringle Brook flows were constructed over 100 years ago. Several are in good condition, but some need major repair.

Minor repairs, such as the replacement of missing bricks and the removal of tree roots will also be carried out.

Large quantities of silt and debris in the culverts have accumulated over time. These restrict the flow and need to be removed.

Major works are required in some locations where the culvert could become liable to collapse in a severe flood event.

Disruption to the local community whilst these works are carried out will be kept to a minimum.



Typical condition of a poor section of culvert



Location Plan of Scheme

Cringle Brook shown as:

Open Channel Sections

Culvert Sections