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**The Waterside Village – Opulwood
River Wall Report
Date: 01.06.2022**



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Document History and Status

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1.0 Introduction

Elluc Projects have been commissioned by Opulwood Developments to provide a report on the condition of the River Irwell retaining wall in order to close out planning condition 16.

'Rebuilding of the river wall, incorporating a minimum parapet height of 1.1m adjacent to the riverside walkway.'

The author of this report carried out a site visit on the 10th May 2022 in order to view the structural condition of the existing River Irwell retaining wall and propose any remedial works required.

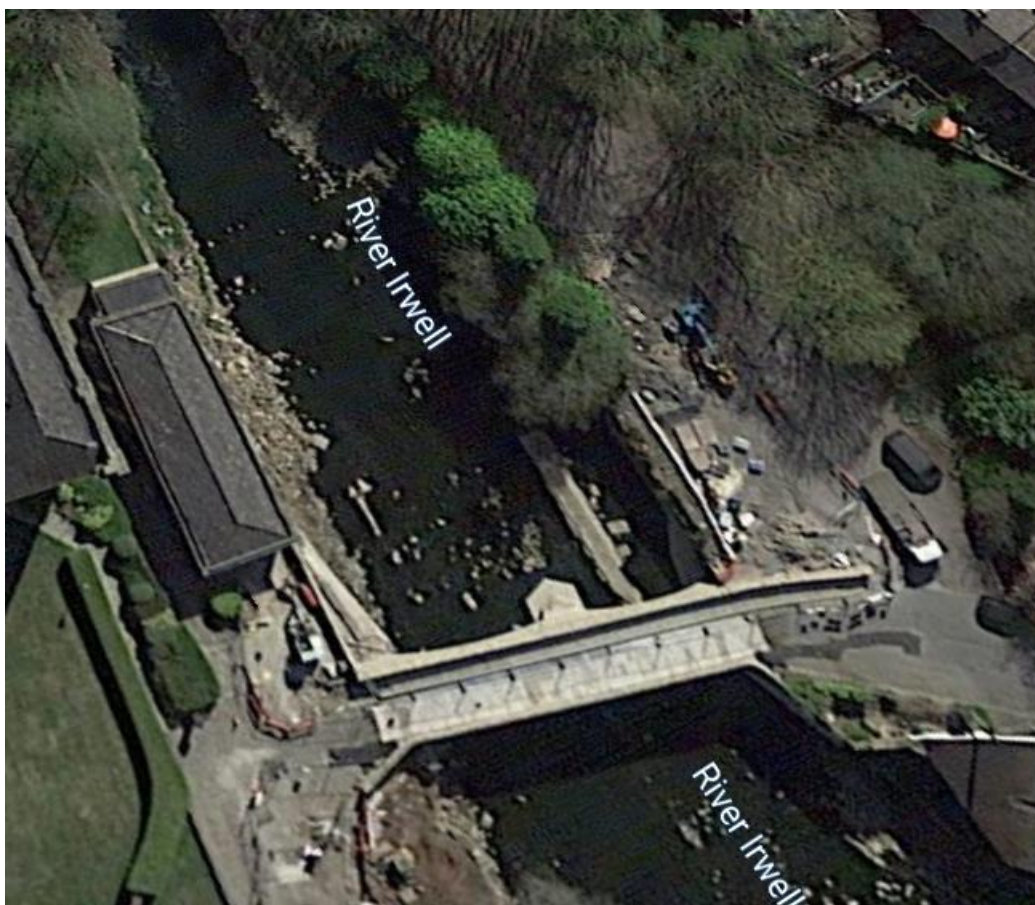


Figure 1. Google Earth View

2.0 Survey Observations

The wall on the northern boundary is approximately 5.5m high retaining wall. The wall is constructed out of stone and ties into the masonry bridge spanning over the River Irwell. There is no evidence of any cracking, bowing or failure of the existing wall at low levels.



The top section of the wall however is not present and has either failed or been demolished.

The missing section of the wall confirms the construction of the wall as solid masonry construction, this is as expected for the age and location of the retaining wall.





On the opposite side of the river there is evidence of the existing retaining wall with a new build stone wall being constructed above.





3.0 Structural Proposal

We propose that the missing top section of the wall is rebuilt with a solid masonry construction to match the construction on the opposite bank and on the bridge. The wall thickness should be approximately 400 thick which would be adequate to retain 500mm of earth with the footpath, and this construction should continue above ground up to a height of 1.1m to provide fall protection.