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Ground subsidence associated with the dissolution of the soluble minerals within the Brooks Mill Mudstone and the Wilkesley Halite Member

Josh Dunlop

(Engineering Geologist, Jacobs)

10th January 2023 | Zoom Video Conference | 6:30pm start

Abstract:

The Middlewich Eastern Bypass is a proposed new bypass to the south and south-east of Middlewich town centre in Cheshire. The strata beneath the scheme comprises mudstones and halite of the Mercia Mudstone Group (MMG), namely the Brooks Mill Mudstone and the Wilkesley Halite Member, and the region local to the scheme has been subject to historical ground subsidence associated with the dissolution of the soluble minerals within the MMG.

A shorter version of this presentation was initially given as a 15min talk at the Glossop Lecture event in November 2021 and will expand on some of the key points briefly mentioned at the Glossop event. This presentation will focus on the dissolution mechanisms associated with the region, geohazards associated with dissolution and the ground investigation strategy deployed to assess the subsidence risk beneath the scheme.



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About the Speaker:

Josh is an Engineering Geologist at Jacobs and has been at Jacobs since completing the Engineering Geology MSc at the University of Leeds in 2019. He has mostly been involved in flood defence and highways schemes across the northwest of England and won the 2021 Glossop Award based on his work to assess the "Impact of Groundwater on the Middlewich Eastern Bypass". He has subsequently joined the Engineering Group of the Geological Society (EGGS) committee and taken the role as Early Career Liaison working to promote networking and collaboration between early career geologists and geo-environmentalists across Civil Engineering.

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