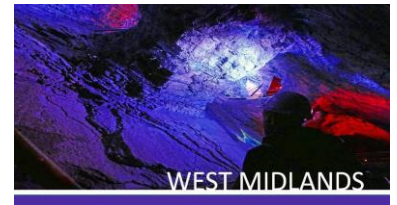




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National Highways Geotechnical Data Improvements: Better Use of AGS Data

Verity Wadesmith

(Principal Geotechnical Engineer, Mott MacDonald)

11th October 2022 | Zoom Video Conference | 6:30pm start

Abstract:

National Highways have been long-time supporters of the AGS format with functionality available for the storage and display of AGS data within the Geotechnical and Drainage Management Service (GDMS). Currently hosting over 800 AGS files, National Highways wants to ensure that these are referenced and re-used as effectively as possible, and that new data coming into the system is of consistent high quality. Improving quality and access to AGS data adds significant value to preliminary ground modelling and limits unnecessary duplication of ground investigations. Therefore, saving time, money, disruption to road users and exposure of the supply chain to unnecessary risk on the network. This presentation will summarise the work National Highways have done to improve the quality and access to the AGS data that they host and showcase the potential benefits to the wider industry.

The screenshot displays the GDMS (Geotechnical and Drainage Management Service) web interface. At the top, there are logos for Mott MacDonald and National Highways. The interface includes a navigation menu, a search bar, and a map view. A sidebar on the left shows a filter menu with categories like 'Basemap', 'Historical mapping', 'Third party mapping', 'Brine features', 'Subterranean features', 'The Coal Authority', 'Groundwater flooding sus', 'Mining hazard (not includi', and 'British Geological Survey I'. Below the map, there is a list of AGS files with columns for ID, Name, Date, and In data online. An inset image shows a construction site with a large pipe being installed, with a caption: 'Image courtesy of Structural Soils Ltd an RSK company'. Another inset image shows an aerial view of a highway interchange.

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About the Speaker:

Verity is a Principal Geotechnical Engineer at Mott MacDonald and a chartered geologist with over fifteen years' experience in infrastructure geotechnical engineering, specialising in geotechnical asset management. She has experience in the operations and maintenance of high-profile geotechnical assets, and contribution to strategic knowledge developments in geotechnical asset management, through industry leading research. She has a passion for data led knowledge and improving the way that data is collected and managed to support better and longer-term decision making.

Forthcoming Talks:

| DATE | TITLE | SPEAKER | VENUE |
|--|---|---|---------|
| 8 th November 2022 6:30pm | Radon the Silent Geohazard | Doctor Antonio Ferreira, Environmental Geochemist, British Geological Survey | Zoom VC |
| 13 th December 2022 6:30pm | WMRG Annual General Meeting, followed by Recipes for Making the Earth | - Professor Tim Elliot, University of Bristol | Zoom VC |
| 10 th January 2023 6:30pm | Ground subsidence associated with the dissolution of the soluble minerals within the Brooks Mill Mudstone and the Wilkesley Halite Member | Josh Dunlop, Jacobs | Zoom VC |

The WMRG is constantly on the lookout for fascinating talks. If you would like to present, know someone who is willing, or would like to request a subject please contact the WMRG committee (details below) and we will try our very best to accommodate your requests.

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