



# The British Dam Society

## TECHNICAL SITE VISIT

Thursday 28th September 2023 at 9.00am

## Calverley FSR, Leeds

**CONSTRUCTION OF A NEW ONLINE STORAGE RESERVOIR TO ALLEVIATE FLOODING TO LEEDS**



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## SYNOPSIS

Calverley Flood Storage Reservoir (FSR) will provide online storage for 1.8Mm<sup>3</sup> of flood waters, resulting in an increase in the standard of protection to downstream communities from 1% (1 in 100) annual exceedance probability (AEP) to 0.5% (1 in 200) AEP with allowance for climate change.

The scheme was granted planning permission in May 2021, with works commencing on site the following month. The works are designed and built by the joint venture between Mott MacDonald and BAM Nuttall (BMMJV) on behalf of Leeds City Council, with AECOM providing NEC supervision.

In order to meet an accelerated programme with overlapping design and construction phases, the joint venture team have had to work closely to allow works to progress at pace whilst meeting the requirements of the design.

The FSR is formed by a zoned earthfill embankment dam constructed from site won material. The dam spans the valley, interfacing with a live railway embankment and water utility assets.

An online gated flow control structure will provide active management of water levels within the FSR to attenuate the flow passing downstream to the city of Leeds. This required the temporary diversion of the River Aire and construction of a 70m x 30m cofferdam to enable a dry working area approximately 7m below existing ground level.

This technical site visit will focus on the construction stage of the Calverley FSR and the challenges encountered including variable ground conditions, interface challenges and working in a fluvial environment.

This visit offers an opportunity to visit the working construction site during an exciting time in the programme, as earthworks are nearing completion, and the installation of the gates and cylinders are ongoing.

## GUIDANCE FOR ATTENDEES

The visit will be a half day visit commencing with a short presentation at the Mott MacDonald office in Leeds. Arrival from 8.30am. Tea and coffee will be available.

Travel via public transport to Leeds is recommended. Mott MacDonald will provide a coach to transport attendees from Leeds to Calverley FSR construction site.

Full PPE will be required to be worn on site (hard hat, safety boots, safety glasses, gloves and long sleeve high visibility vest & trousers). Orange is preferred in line with the site's safety policy.