



The British Dam Society

BDS ICOLD YPF presentation

Lessons learnt from the Lower Lliedi Dam Incident

29th July 2024 13:00 - 14:00 British Summer Time (BST)

Presenter: Sam Tudor of Welsh Water



[Lower Lliedi Dam](#)

For synopsis and brief presenter biography see overleaf



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Synopsis

Following a series of named storms through December and early January reservoir levels at Lower Lliedi reservoir had been high for several weeks. During storm Henk on the 2nd January 2024 Lower Lliedi reservoir peaked at 1.217m above top water level. The high flows over the stepped masonry spillway caused a failure at the end of the spillway which put the safety of the dam at risk. This presentation will discuss:

- The identification of the issue onsite.
- Mobilisation of contractors, pumps and implementing a drawdown.
- Carrying out emergency repairs.
- Returning the site back to normal use.

Presenter Biography

Sam has worked in Welsh Water's Dam Safety Team for 12 years in varying roles. He started as a Reservoir Keeper before holding roles as a Dam Safety Technician and Assistant Dam Safety Engineer. He has been a Dam Safety engineering Manager since 2019. Sam has recently returned to North Wales after managing the South West and mid-Wales area. Sam has been a Supervising Engineer since 2018 and supervises a portfolio of reservoirs for Welsh Water and has been a previous BDS YP chair as well as a member of the ICOLD YEF board from 2016-2018. Sam has been involved in a number of large civil, electrical and mechanical projects for Welsh Water and managed incidents of various sizes.