

Castell Nos

Overview:

Site Location:	>> Maerdy, Rhondda Cynon Taff
Client:	>> Welsh Water
Contract Value:	>> £650,000
Project Duration:	>> 24 weeks



Back in 2009 under the Reservoir Act of 1974, the existing spillway structure at Castell Nos, Maerdy was highlighted for major improvements as it had fallen into a bad state of repair. A deadline for implementing these works was set by the EA (now the NRW, Natural Resource Wales).

The scope of works was for a complete renovation of existing spillway, including the following elements:

- 150mm – 300mm thick RC floor
- 300mm thick average 2.750m high RC walls
- Construction of associated spillway drainage
- Construction of new RC washout chamber
- Installation of siphon pipework & modification to existing kiosk
- Twin raw water trunk main replacement & associated connections
- Installation of GRP hand railing
- Improvement of access/egress around the reservoir/spillway



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This project was the first spillway improvement scheme undertaken by DCWW. It was a very high profile project & high risk elements associated with scheme.

- 95 individual concrete pours
- Placement of 575m³ of C50 concrete
- Fixing of 105t of reinforcement
- Completion of trunk main connections (which actually fed the whole of the valley) in allocated 12 hour period
- Completion of scheme in allocated time period & budget.
- Average 17 nr of men on site per day & placing concrete via pump truck nearly every day.



During the project a number of key personnel from DCWW visited the site including Chris Jones (CEO for DCWW) and Nikki Kemmery (Head of Health & Safety for DCWW)



Chris Jones commented "It looked a well run site and a well managed scheme to me - and an absolutely crucial job to get right we are returning at last to asset issues that have been around for such a long time".

Nikki Kemmery commented "It was great to see the planning that has gone into this scheme and how health and safety has been considered throughout the process. The site is quite restricted due to the geography and it was also clear to see how much of an impact the changing weather conditions had on the site."



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