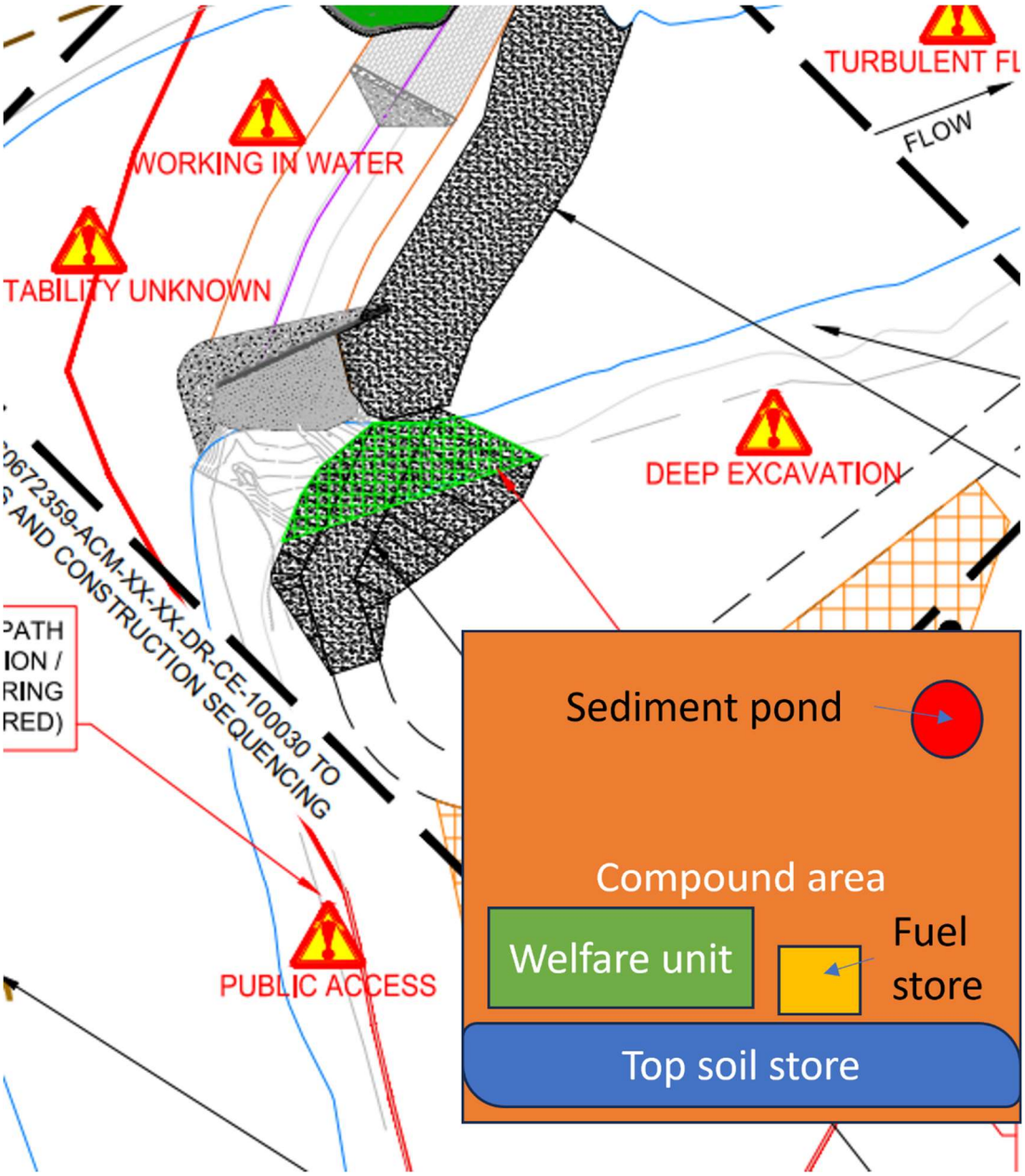
Additional information for Erbistock weir removal temporary works

Following the consultation for the temporary works for the partial removal of Erbistock weir further information was requested regarding the working area, coffer dams, compound area and silt mitigation.

Compound area in relation to weir



Topsoil from compound area is to be stripped and stored and sealed at the back of the compound. Fuel store will be bunded with a bund but will be placed in an accessible area for refuelling within the compound at least 20m from the watercourse.

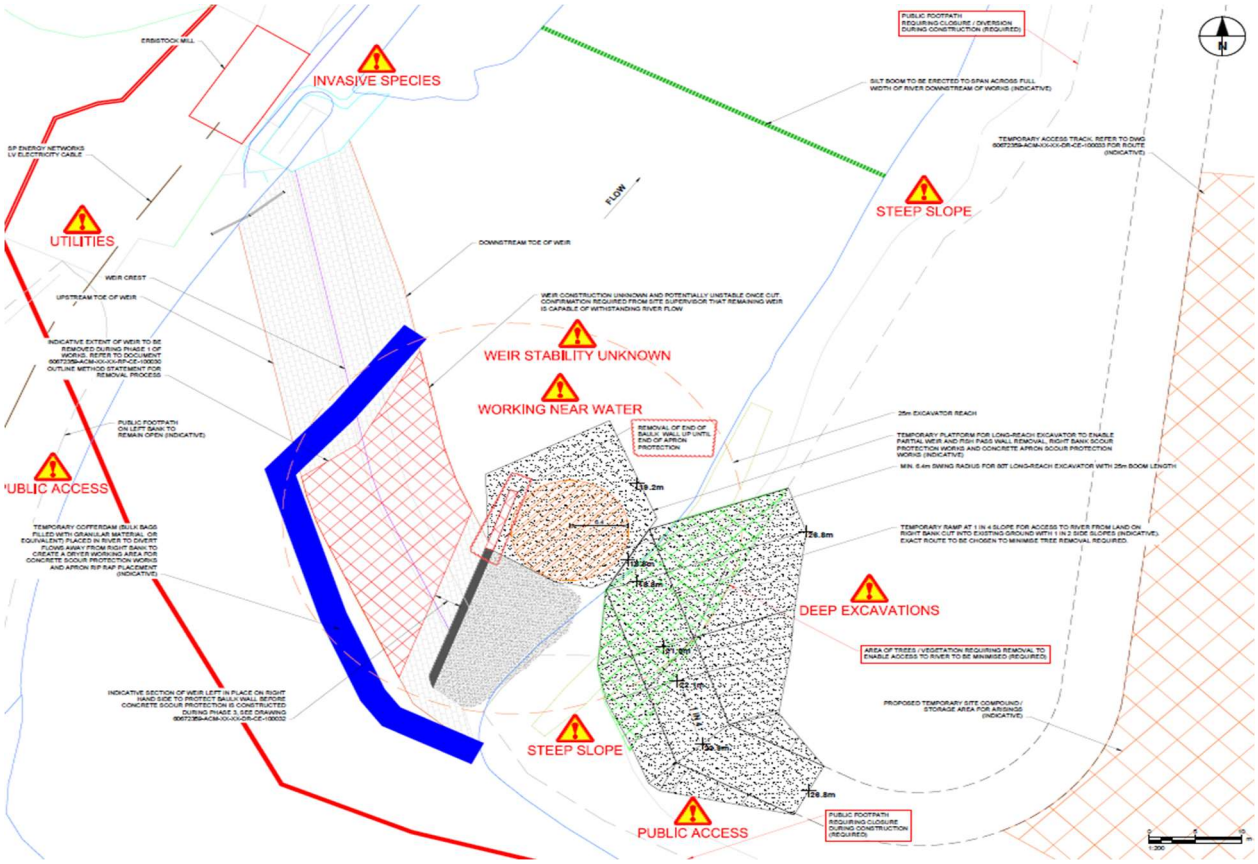
Additional information for Erbistock weir removal temporary works

Sediment pond will be placed within pumping distance of the river but far enough to be effective in removing silt from any water that is pumped into it. It will be of a size adequate to filter the water efficiently.

Coffer dam phased work

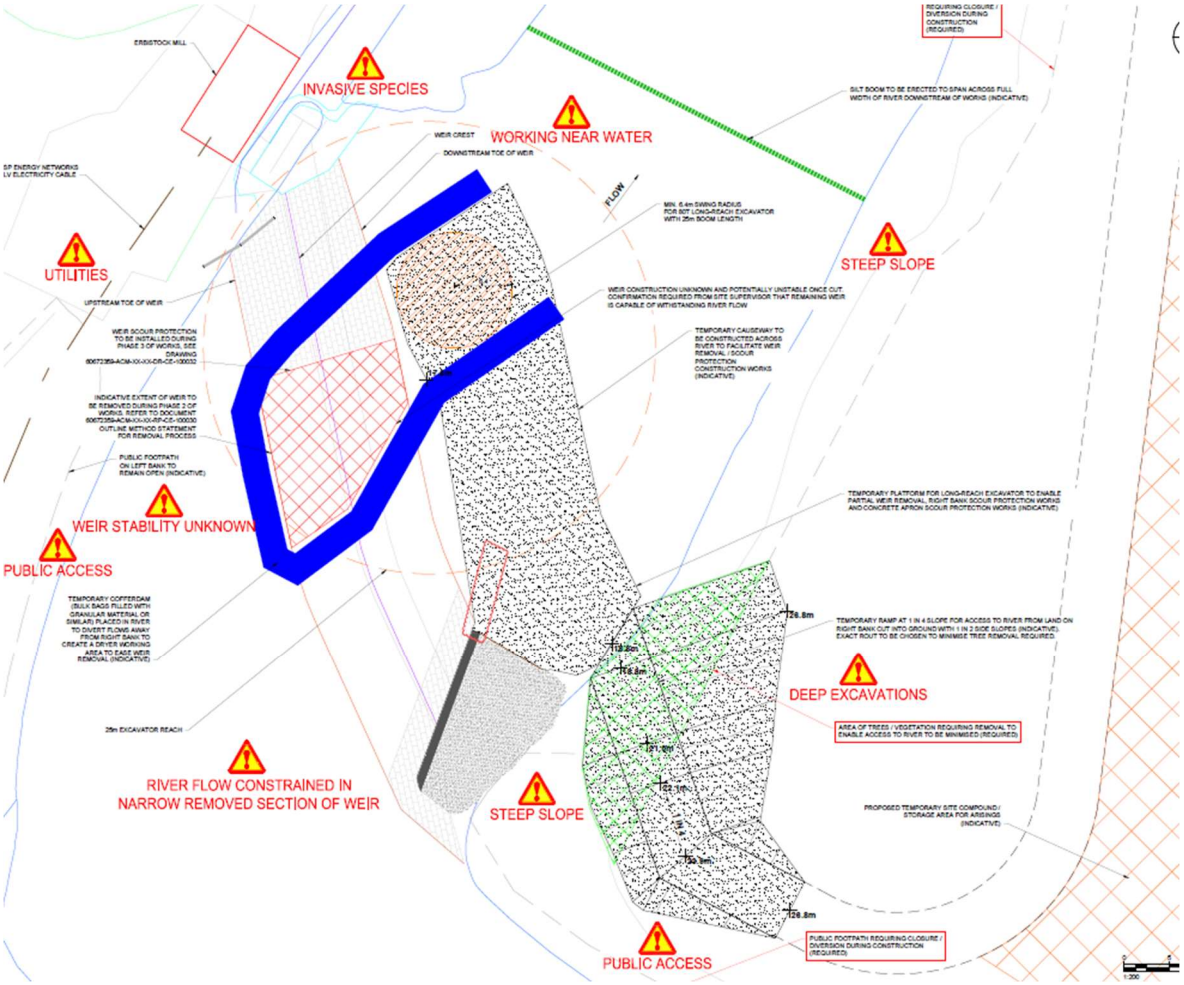
The coffer dams will be placed in 3 phases as indicated in the schematics below.

Phase 1-Coffer dam right bank



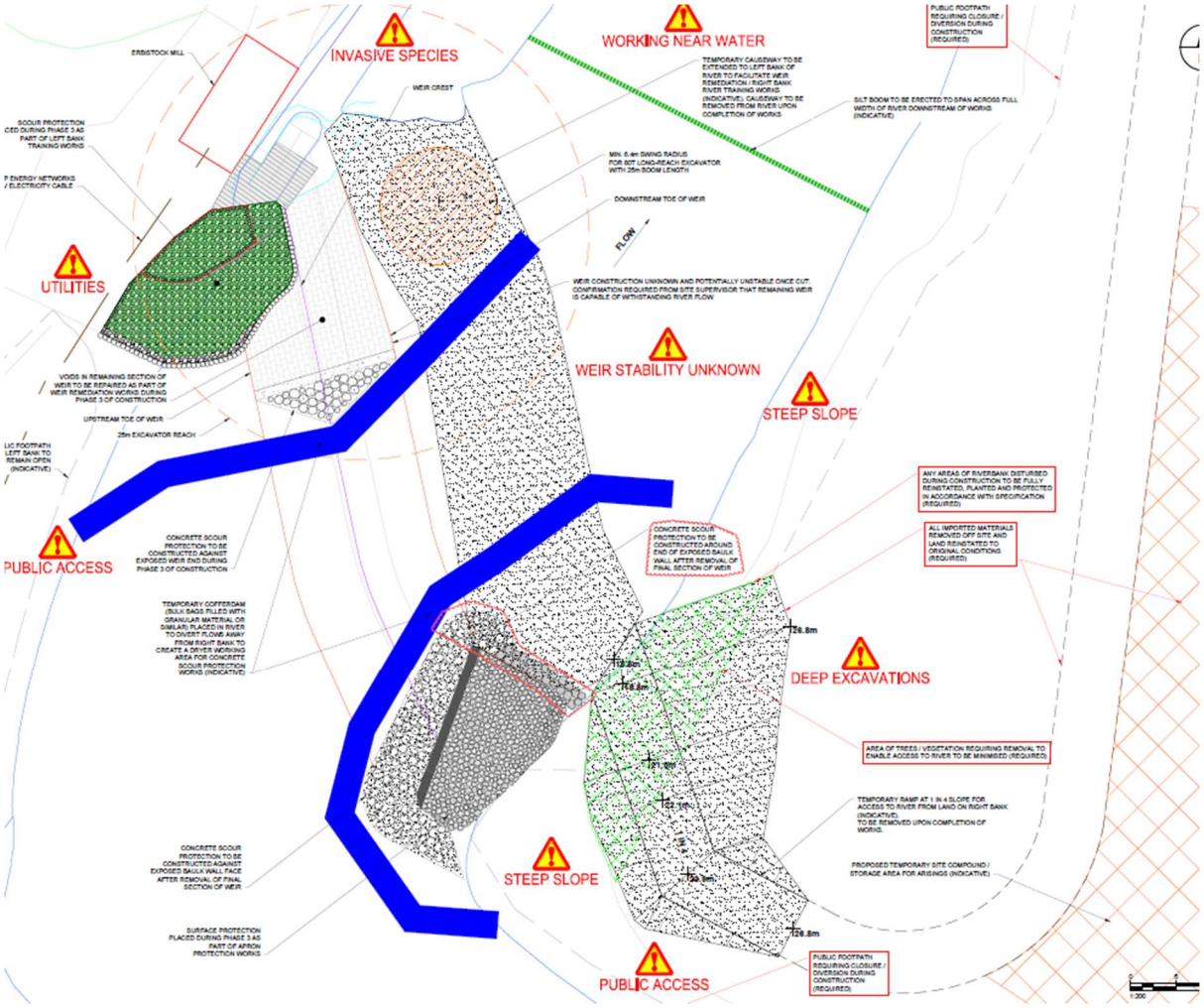
Additional information for Erbistock weir removal temporary works

Phase 2-Coffer dam left bank



Additional information for Erbistock weir removal temporary works

Phase 3-Coffer dams for concrete work



Access ramp

The access ramp will be constructed using imported stone and placed on a geo-textile membrane. The slope of the ramp will provide access from the compound area down to the work area at river level. It is estimated that the angle of the ramp will be about 14degrees. Silt fencing and straw bales will be placed around the ramp.

On the above plans it shows that material will be placed below the weir to form a causeway to work from. On further investigation on the recent low flows there will be no need to import material for this purpose as there is already a stone causeway in place as shown in the photos below.

Additional information for Erbistock weir removal temporary works



Coffer dam dumpy bags

The cofferdams will be constructed using dumpy bags as seen below which will be doubled up to add durability. Each doubled up bag will be filled with gravel imported to site from TG Griffiths Cefn Graianog Quarry.

The height of the cofferdam will be determined using water level data from Manley Hall gauging weir located 2km upstream of the work. The summer statutory minimum flow of 8.2cumecs will be considered, with the height of the cofferdam being above this level plus 50%





Additional information for Erbistock weir removal temporary works

Silt mitigation measures

During the investigation work for the weir removal a survey was undertaken to ascertain the make up of the riverbed above and below the weir. It was found that there was very little build up of fine silt immediately behind the weir. However, it is inevitable that there will be silt within the weir structure itself and some behind the structure.

The access ramp will be constructed with imported stone placed on a geo-textile membrane. Channels will be placed in the ramp to divert any water that comes off any machinery exiting the river towards the silt fencing and straw bales.

The river below the weir is unsuitable for placing a silt boom across. The width and flow would make any boom ineffective. The approach to all work on the weir removal will be to implement a phased work pattern with constant communications between machine operatives and a permanent banksman via radio link headsets. The banksman will be observing the river downstream for discolouration and will immediately inform the machine operative to pause work if discoloured water is observed. A dynamic assessment will continually be made through the work.

The concrete scour work will only go ahead when the work area within the coffer dam is completely dry, and the weather forecast shows dry weather for at least 3 days as to avoid any possibility of river level rising. During the curing process any water within the coffer dam area will be pumped to the settlement pond.

The banksman will keep a record of any water discolouration and inform NRW’s incident on 03000653000 if a pollution incident occurs.