

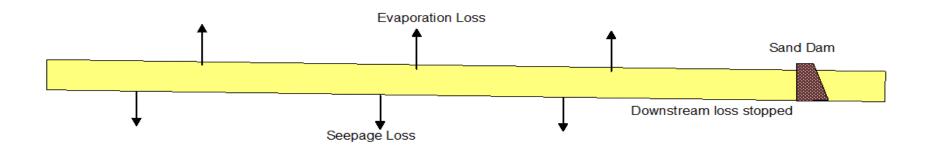
# **Gabion Weirs**

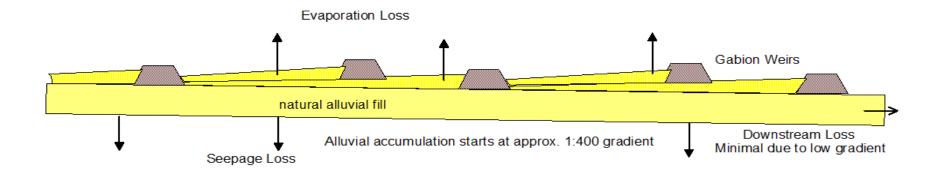
An alternate to sand dams

Richard Owen

## Long Section – Gabion Weirs

### Gabion Weirs An alternative conventional to sand dams

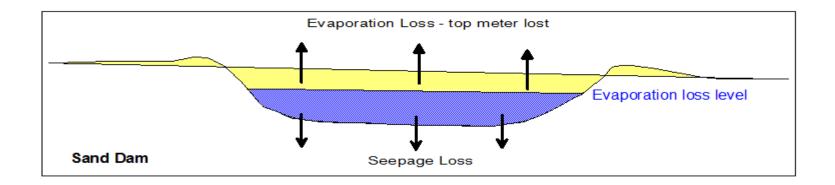


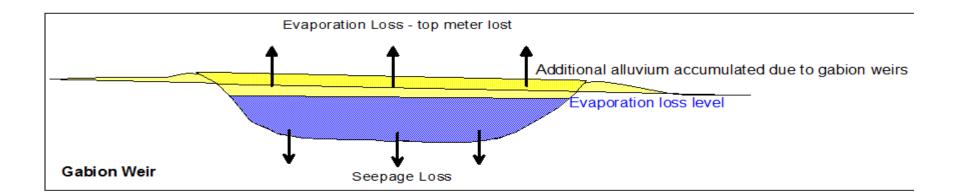


Gabion weirs - easier to construct and cheaper
Gabion weirs - increase thickness of alluvial fill - reduce % loss to evaporation
Sand dams - reduce downstream loss - but this is minor compared to evaporation loss
Appropriate where alluvial fill is thin ~ 2 - 3m

## Gabion Weirs – Cross Section

#### **Gabion Weirs & Sand Dams**

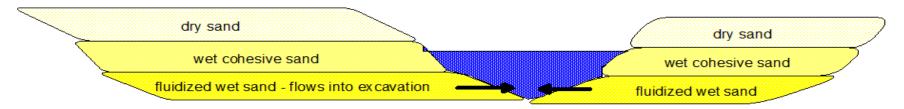




Gabion weirs preserve a higher saturated percentage of the alluvial fill Easier and cheaper to construct Appropriate where alluvial fill is thin

## Gabion Weirs – Construction Issues

Sand Dam Construction - excavate saturated sand to bedrock foundations Problems: Dewatering excavation; fluidized sand flowing into excavation



#### Gabion Weir: Construction: diamond mesh laid on sand bed, filled with rocks and tied

