Higher magnitude dam spills have **many benefits**, but it takes more than one moderate flow event to **scour** vegetation-armed banks.

**Results** of 2017 spill:
- Channel scour improved fish habitat.
- Groundwater recharge was substantial.
- Willow stem density did not change pre- (2010) vs post-spill (2017) (n=36, p=0.9).
- Post-spill sediment deposition increased bare ground and decreased litter cover (n=36, p<0.01)

**Key take-homes**:
- High magnitude spills have many benefits!
- Multiple years of low flow leads to bank armoring
- 1 year high flow not enough to un-do – but what about multiple years of high flows? ...post-2019...?
- Timing of high flows key for recruitment of cottonwood; 2017 spill may have missed this window
- Riparian habitat – novel system?
  - Down-scaled flow → fundamentally different floodplain
- Max flows now possible are not high enough magnitude (max 4000) to re-set the system