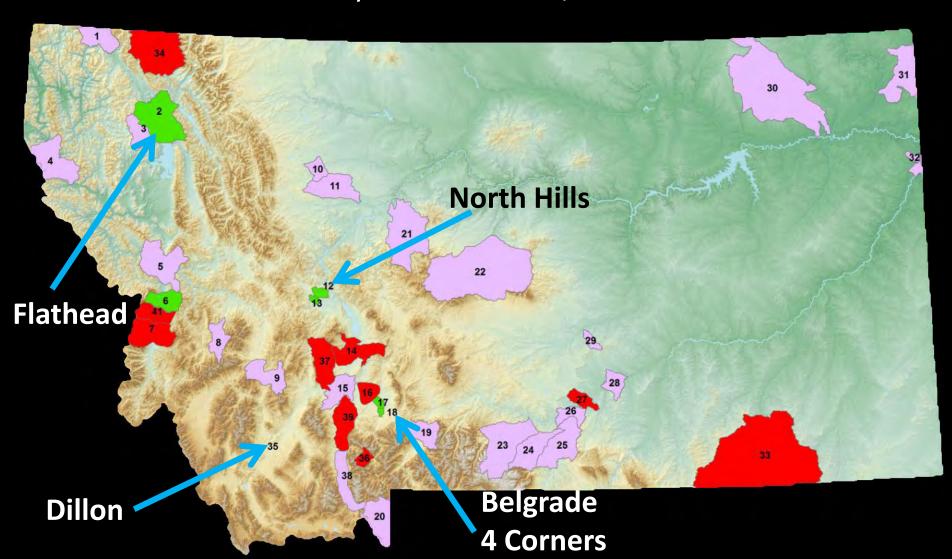
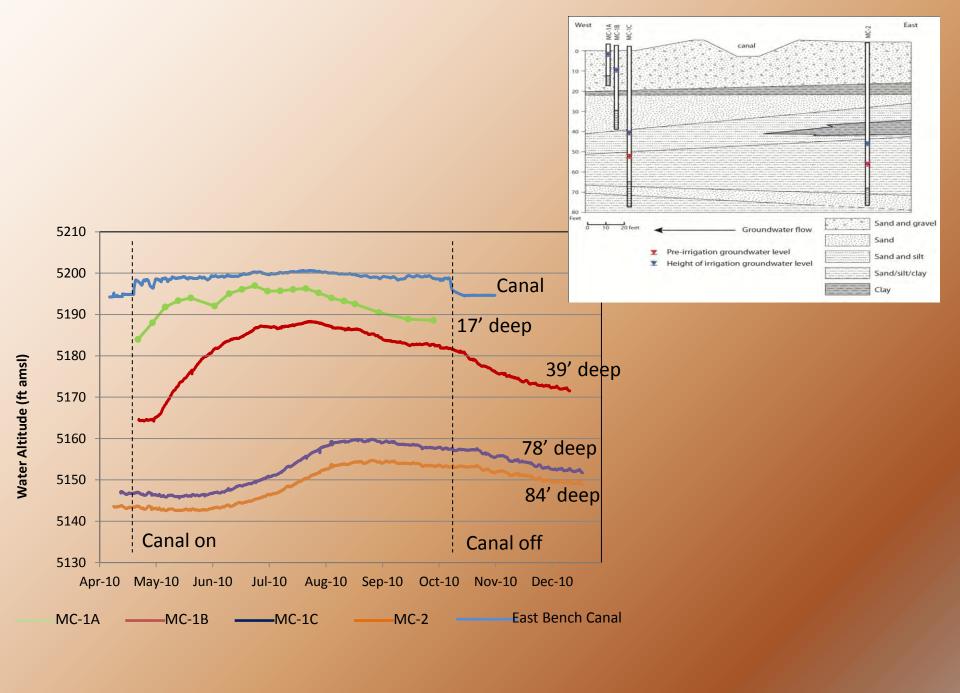
Ground Water Investigation Program (GWIP) WPIC update September 14, 2011 Presented by John Wheaton, MBMG

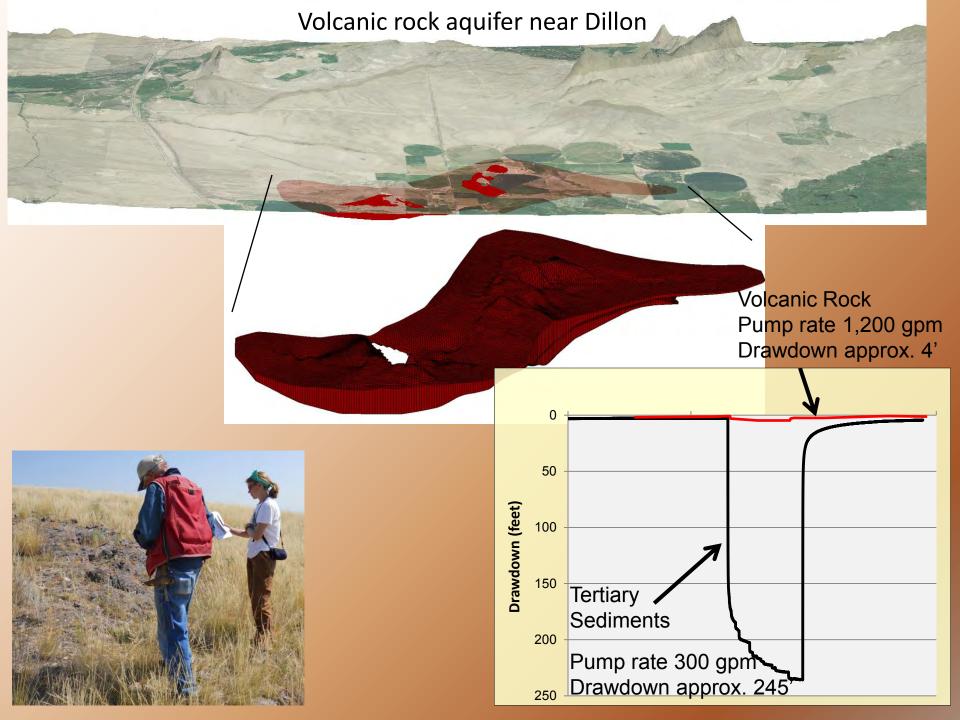


Lower Beaverhead Valley Study

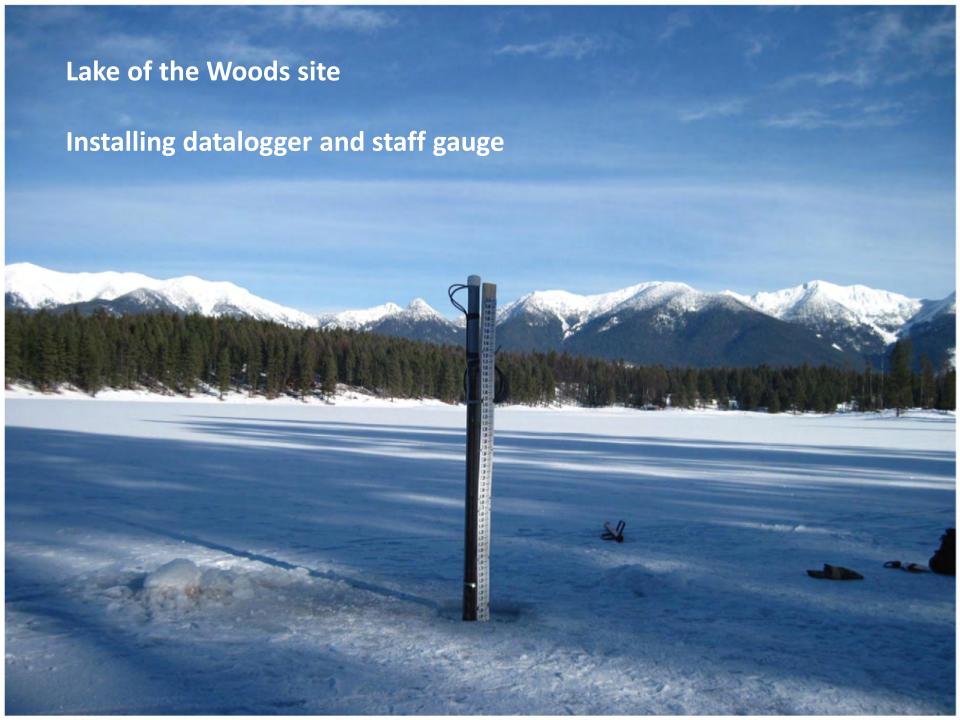
East Bench Canal Influence on groundwater



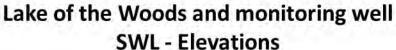


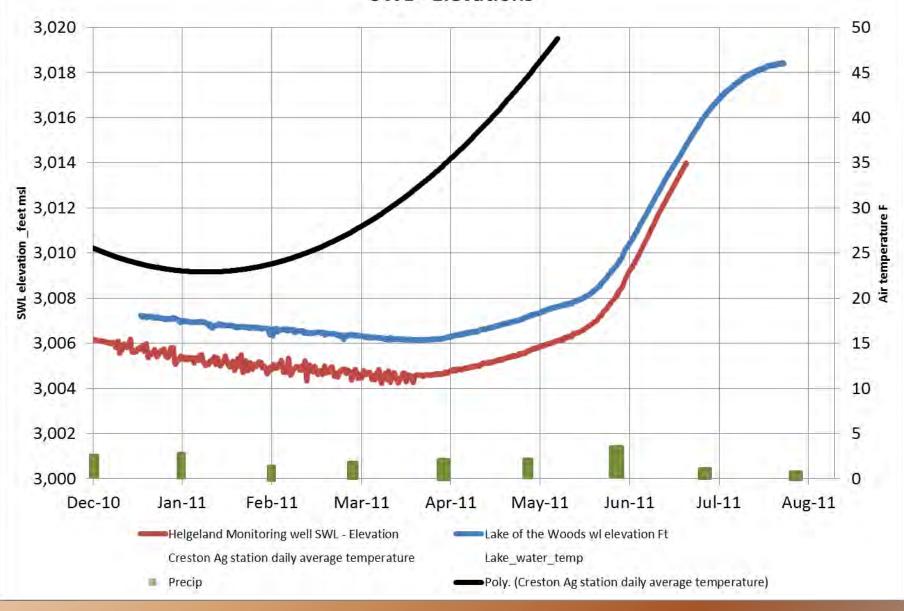


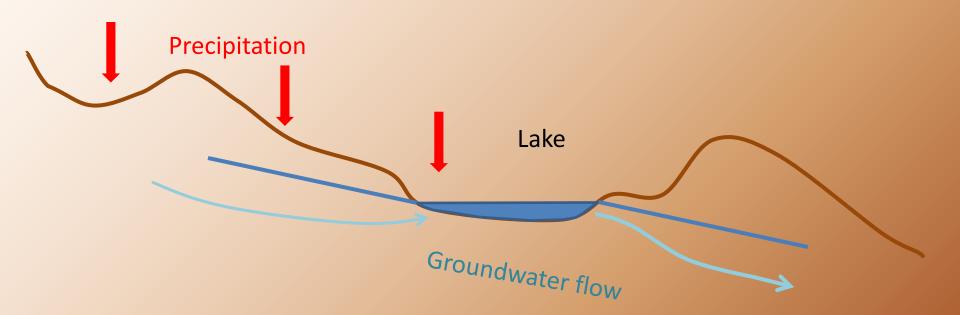


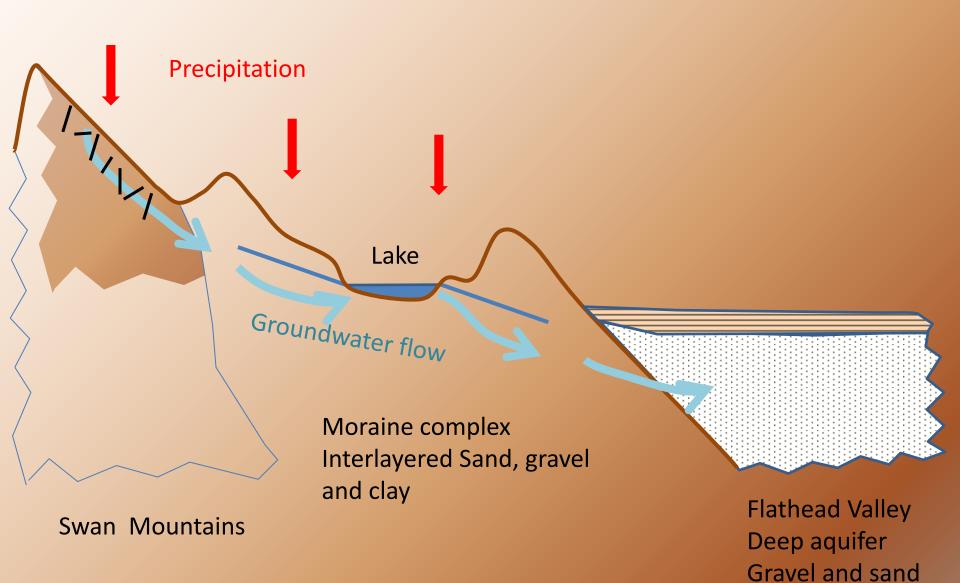


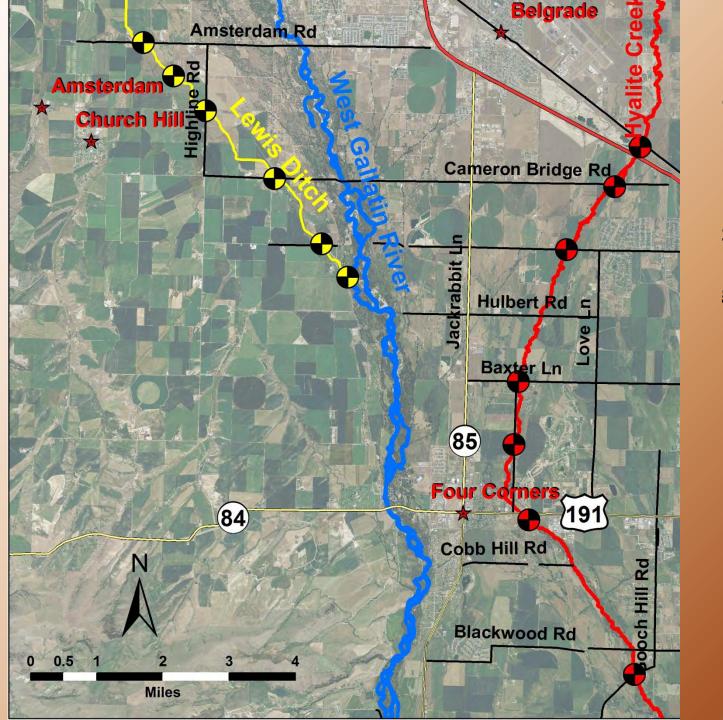






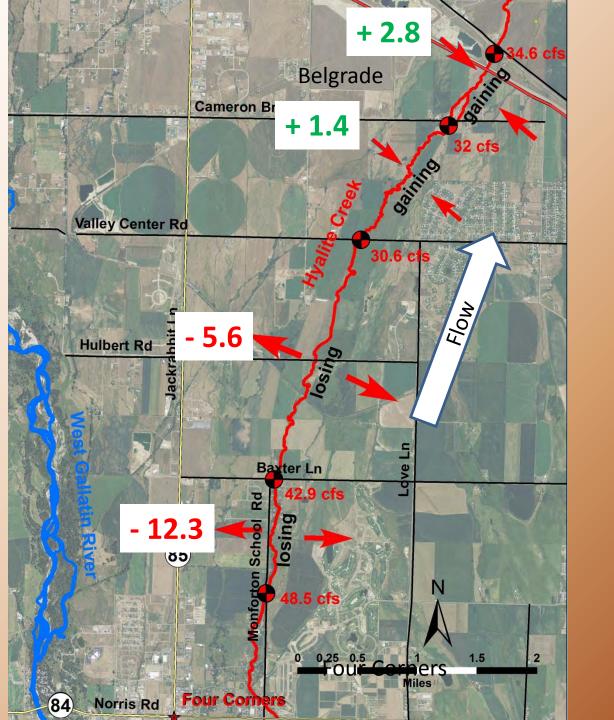




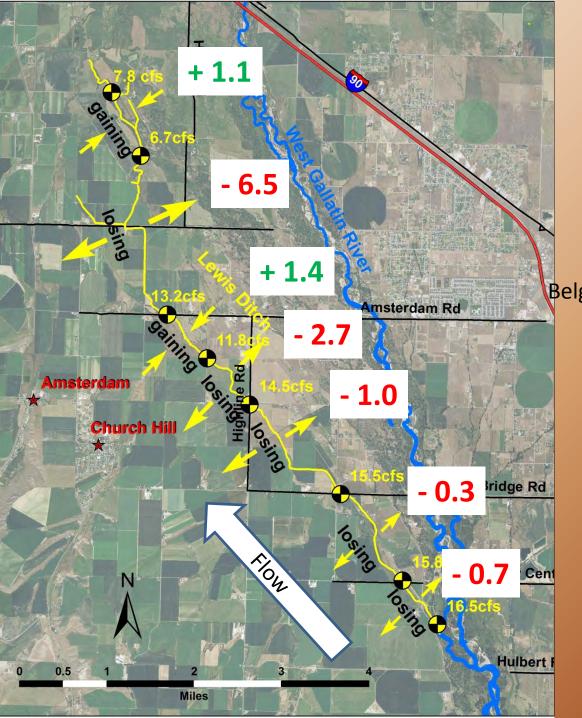


Belgrade Study area

Streams and ditches Both interact with groundwater



Hyalite Creek



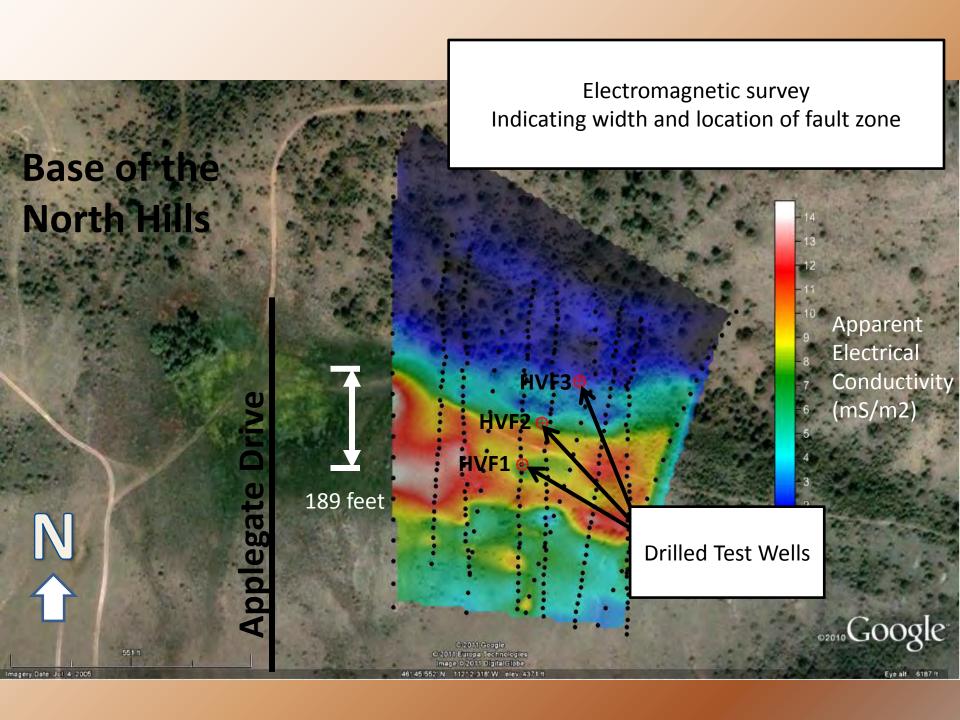
Lewis Ditch

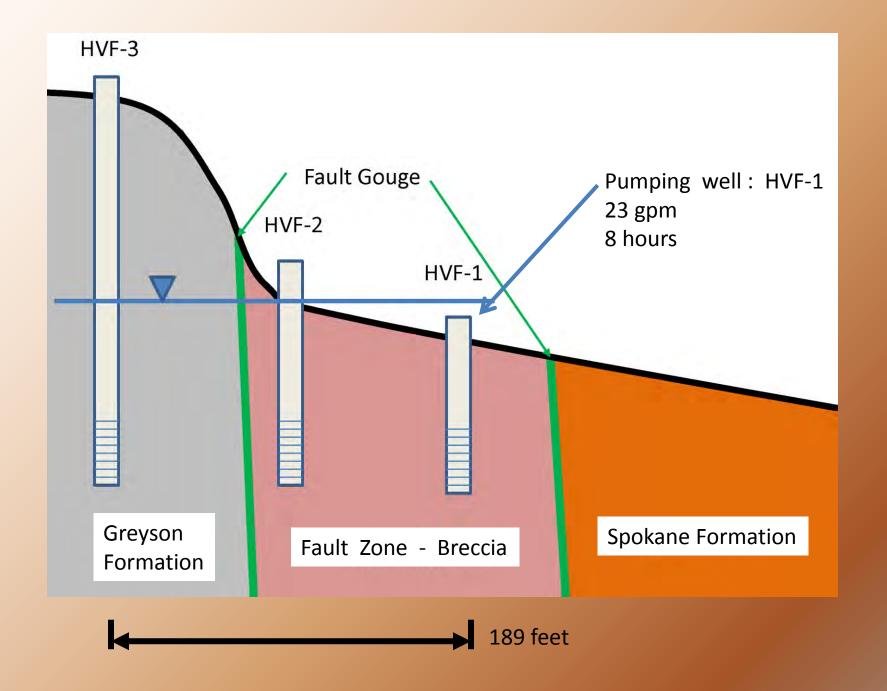
Belgrade

Helena Valley Fault (HVF) Aquifer Test Site

- The Helena Valley fault is a brecciated fault zone some 300 feet wide
- Clayey fault gouge acts as a boundary to groundwater flow
- The fault zone is a groundwater reservoir
- Once water is removed, in some areas it take a long time to recover
- Recharge to the North Hills area crosses the fault.







Well HVF-2
5 feet of drawdown

Well HVF-3
located just north of the fault zone
0.44 feet of drawdown
Little direct connection across the
fault zone

