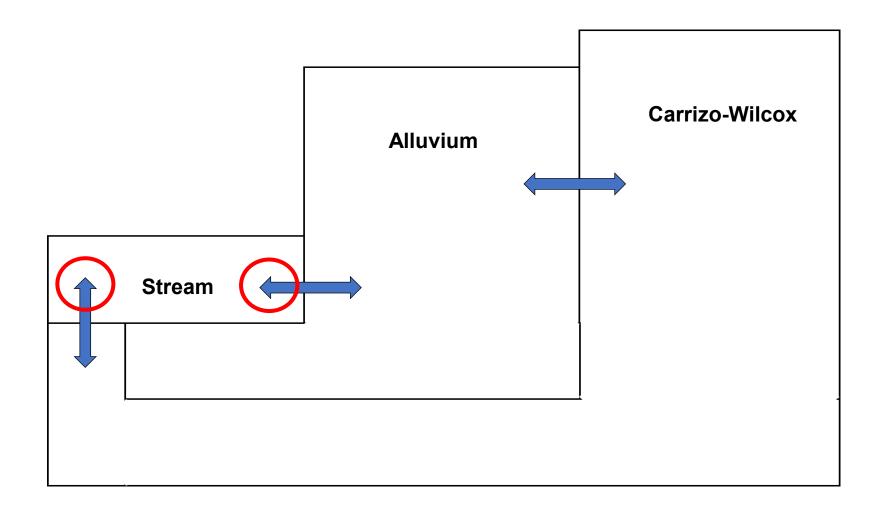
DFC to Protect Groundwater Discharges to Colorado River and Tributaries

George Rice Presentation to GMA-12 April 20, 2021

Schematic Cross-Section

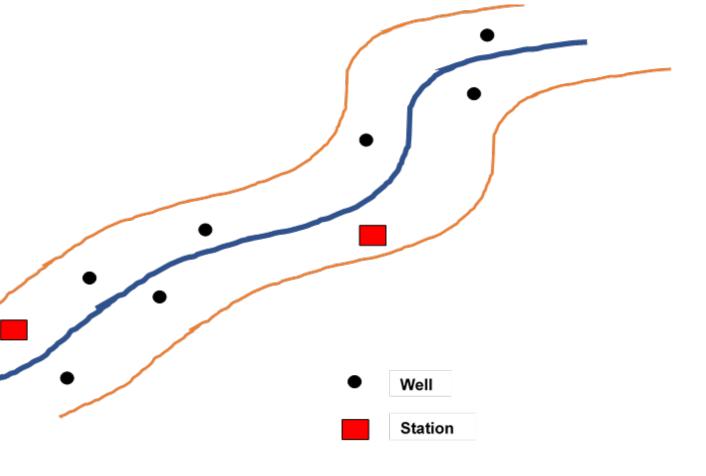


- Problem cannot directly measure groundwater discharge to streams
- Proxy water levels in alluvium (and other aquifers?)

Proposal

Monitor well network in alluvium

 Additional stations to study groundwater/surface water interaction

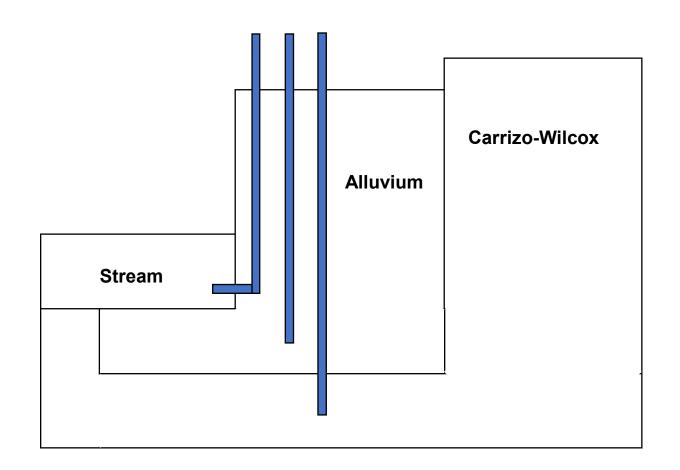


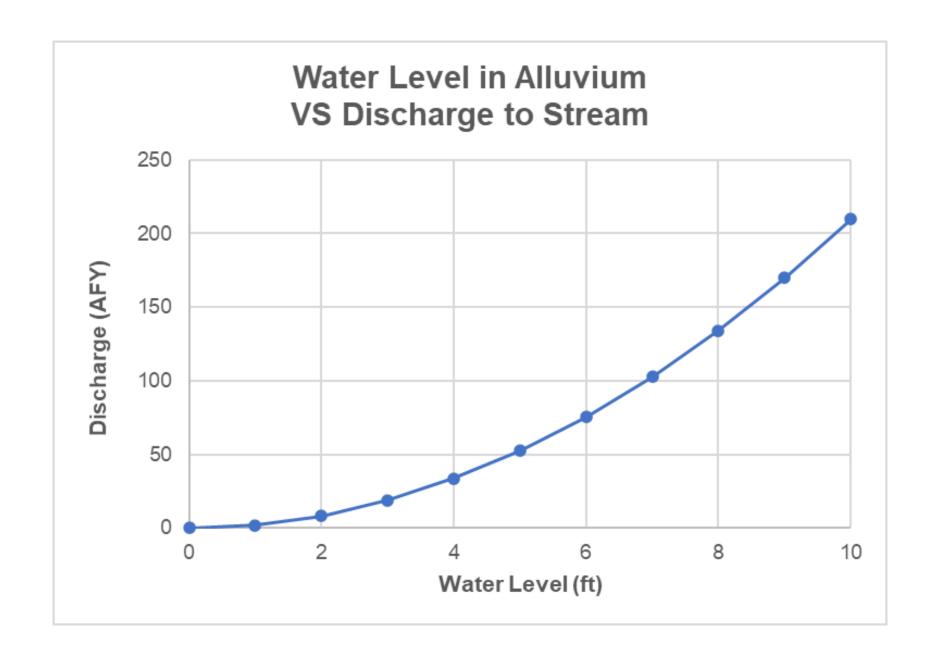
Network in Alluvium

- Colorado River and tributaries
- Baseline water levels, trends
- Other measurements if practical, e.g., aquifer properties, water quality

Groundwater/Surface Water Interaction Stations

- Similar to Vista site
- Water levels in stream and aquifers
- Aquifer properties, water quality
- Calculate groundwater discharge to stream





To Establish DFC

- 1) Determine relationship between water levels in alluvium and discharge of groundwater to streams
- 2) Agree on minimum acceptable discharge rate
- 3) Set DFC for water levels in alluvium corresponding to minimum discharge rate

