

Goal

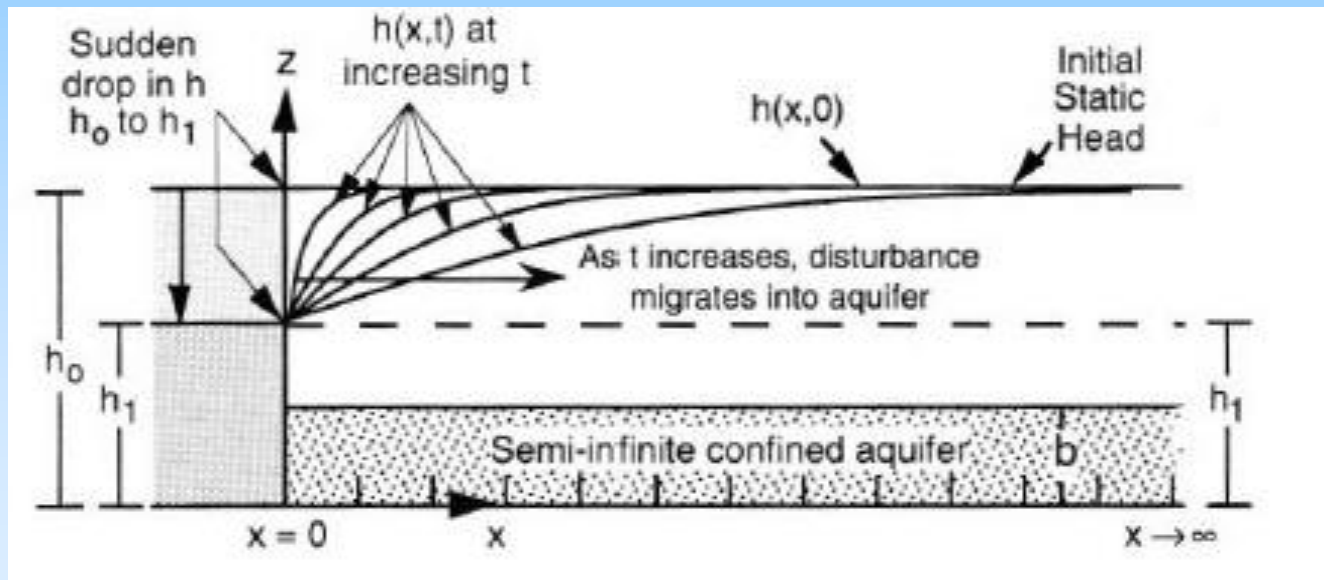
- Evaluation of potential impact of CWF on interconnected groundwater supplies in the South American Subbasin
- Evaluation of Petitioners Analysis and identification of gaps in the information presented

Available tools

- Simple analytical methods
- Complex numerical models

Analytical tools

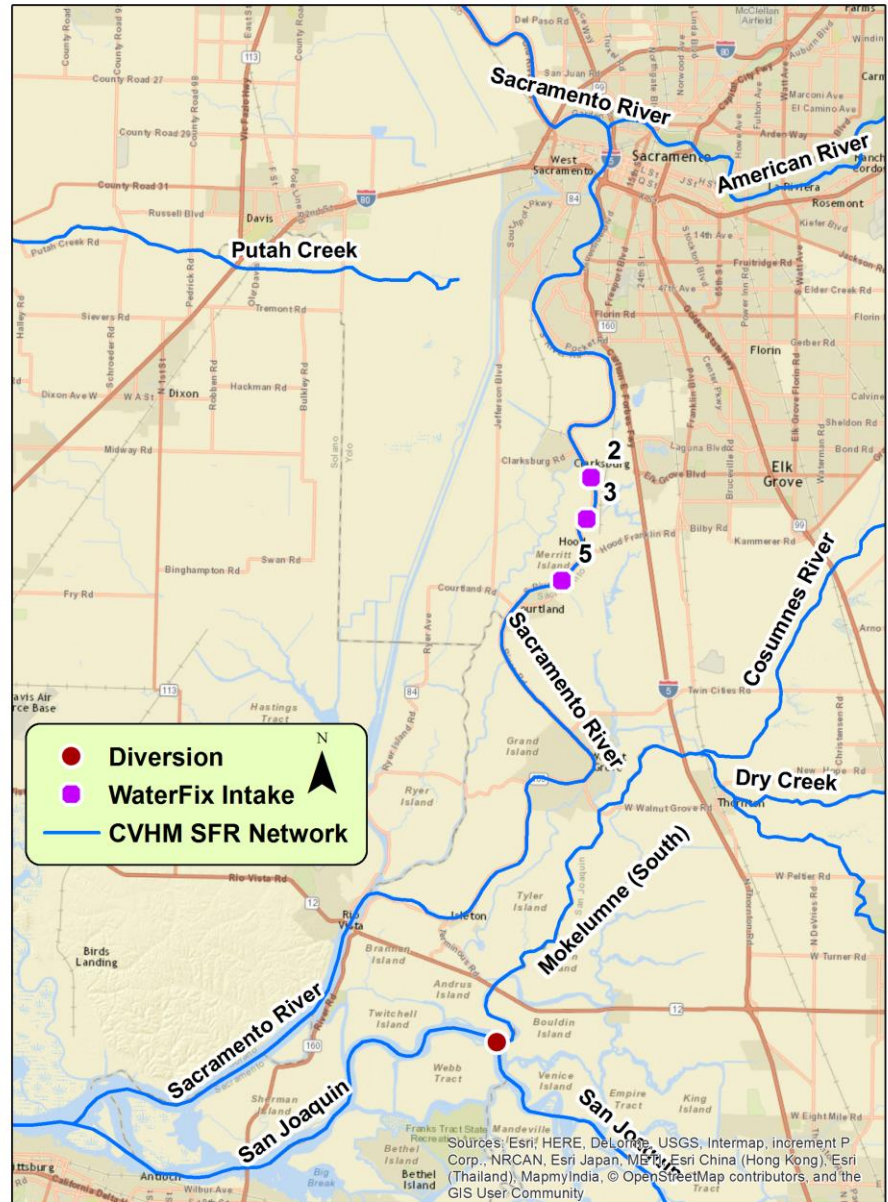
Impact of changes on stream elevation on the surrounding GW system and propagation of the hydraulic response



Available modeling tools

- **C2VSIM:** calibrated integrated SW/GW finite element model developed by DWR for the entire Central Valley. Simulation time includes the period 1921 - 2009.
- **CVHM:** calibrated integrated SW/GW model developed by USGS. Simulation period from 1961 – 2003 and recognized and approved by the state.
- **Sac-IGSM:** finite element model built on the Integrated Groundwater and Surface-Water Model (IGSM) platform. The model domain includes the area directly downstream of the diversions
- **CVHM-D:** refined version of the CVHM in the delta area with a grid resolution of one quarter of a mile. Additional modifications include more detailed representation of the water balance regions, streams and sloughs, and was used to simulate various scenarios of the CWF.

Location of WaterFix planned intake location and of the diversion implemented in the CVHM-D model



0 2.5 5 10 Miles

SCWA_48