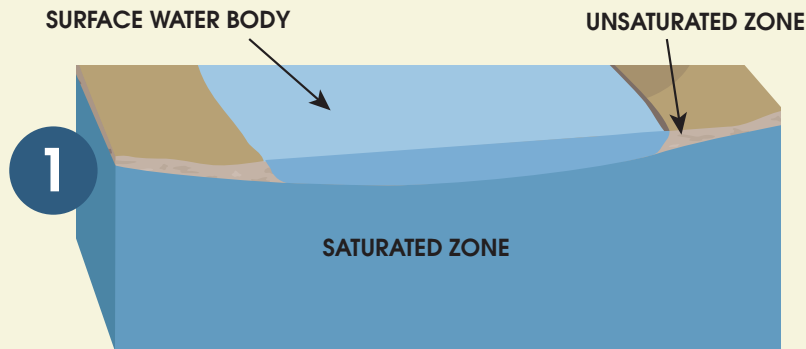


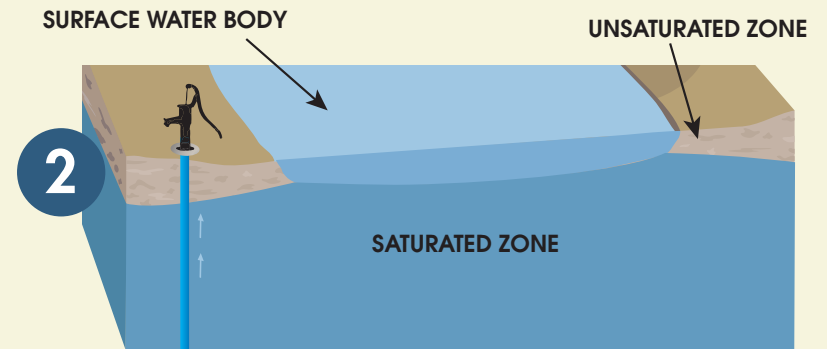
CONNECTION BETWEEN GROUNDWATER PUMPING AND SURROUNDING SURFACE WATER

FULL BASIN



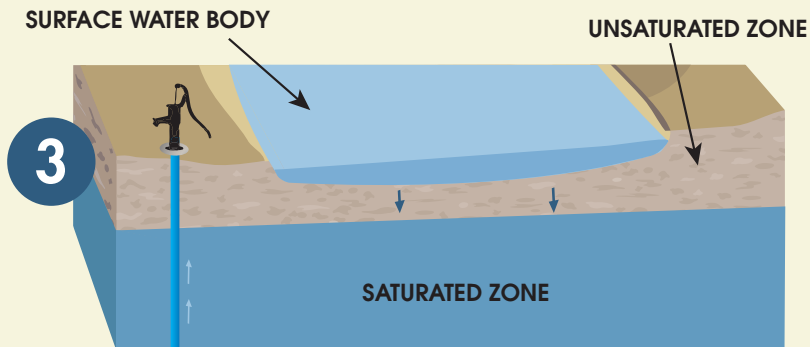
Prior to any groundwater pumping this is what the surface water body would look like

SOME EXTRACTION OF GROUNDWATER



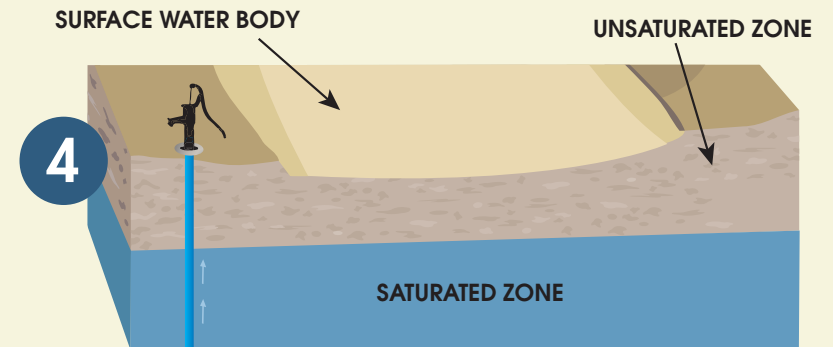
Once groundwater pumping begins, the groundwater table begins to drop

RATE OF EXTRACTION EXCEEDS RATE OF RECHARGE



Increased and constant groundwater pumping without revitalizing can cause a reduction in available surface water body

NO SURFACE WATER AVAILABLE



Continuous groundwater pumping causes surface water body flows to diminish (ex: Cosumnes River)