

### Farm Project Conceptual Model

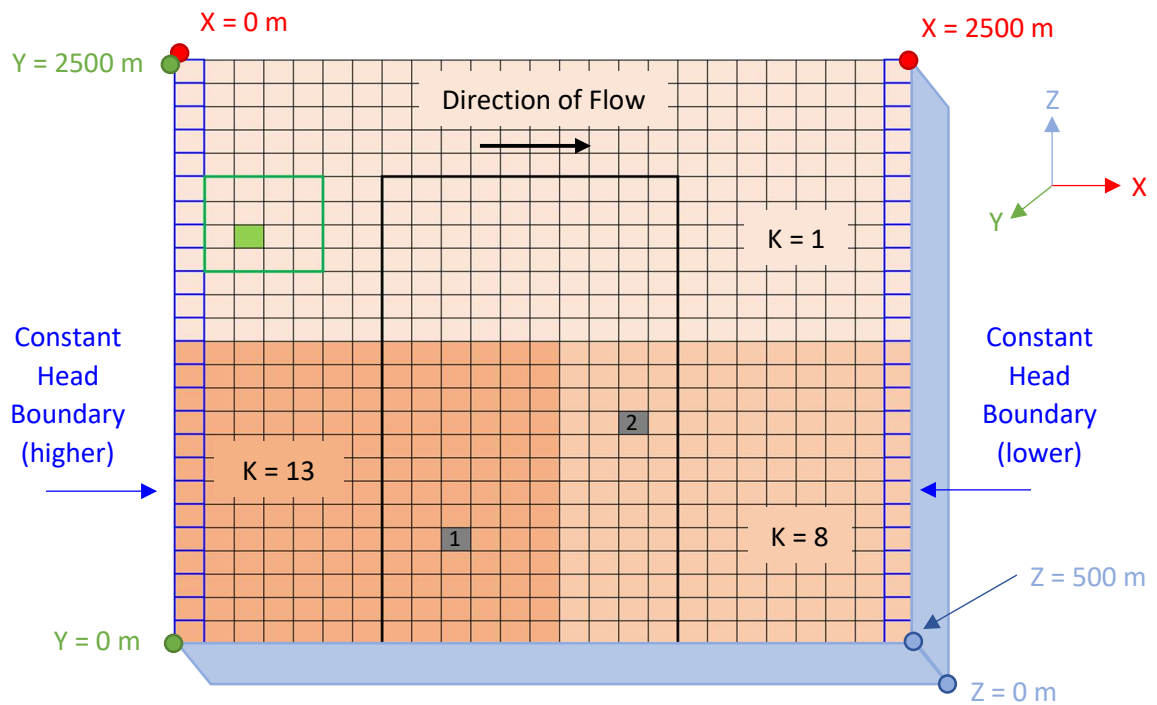


Figure 1: Conceptual model of the area around Wildcat and ACME farms. Each cell in the domain has the x-y-z dimensions 100 m x 100 m x 500 m. Constant head boundaries are located along the left and right edges of the flow domain. A higher head value is set along the left boundary than the right boundary in order to induce flow from left to right within the system. Constant head boundary values were adjusted during some scenarios of the model, but all scenarios model unconfined flow (i.e., where head values are lower than the depth of Z layer). The hydraulic conductivity values of the domain are indicated by the orange background in each of the three areas within the domain. Wildcat Farm is indicated by the green outlined area and the well on its property is noted by the green cell. ACME Farm is outlined in Black, and its two proposed wells are indicated by the two gray cells.