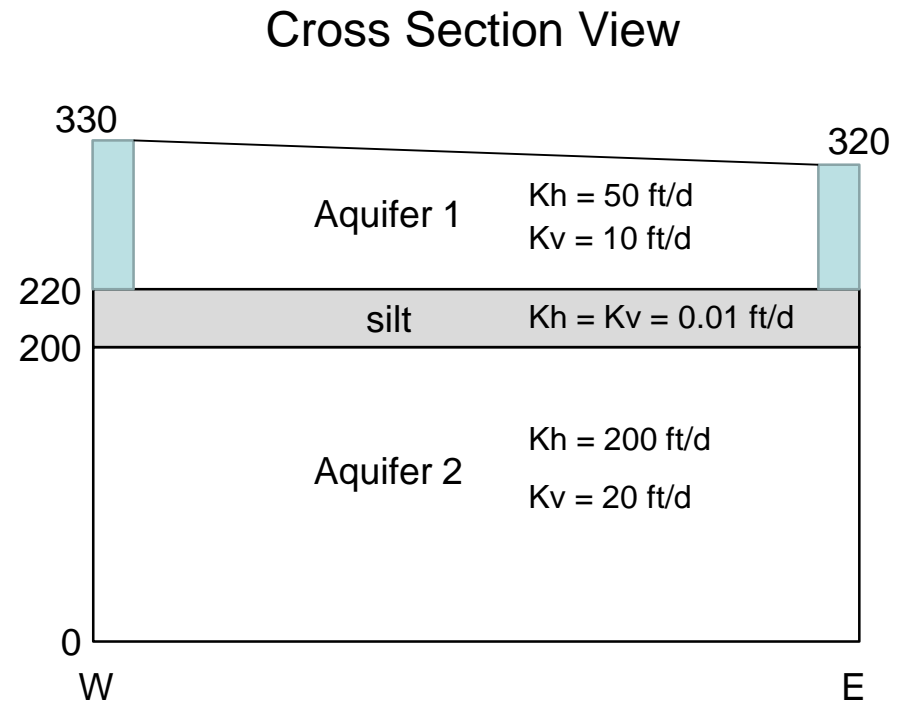
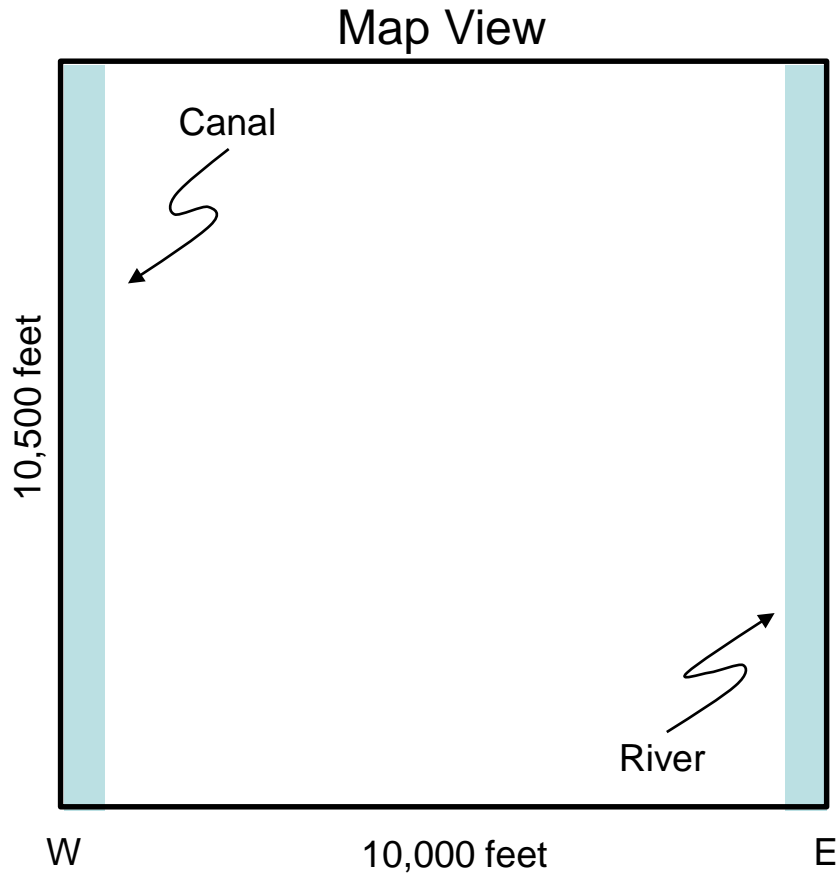


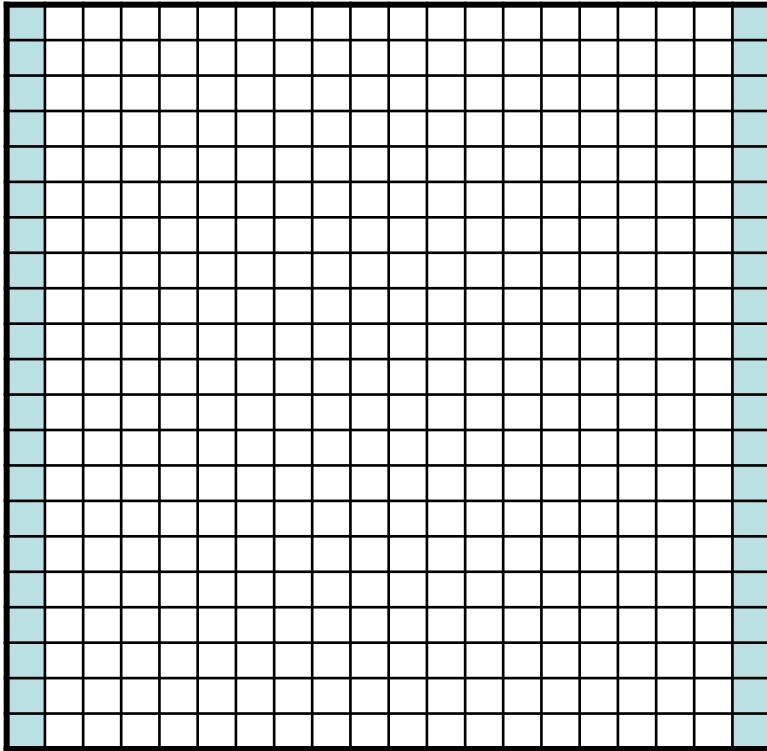
# Problem 1

## Steady-state flow with constant head boundaries



# Problem 1 - MODFLOW Grid and Boundary Conditions

Map View



3 layers, 21 rows, 20 columns

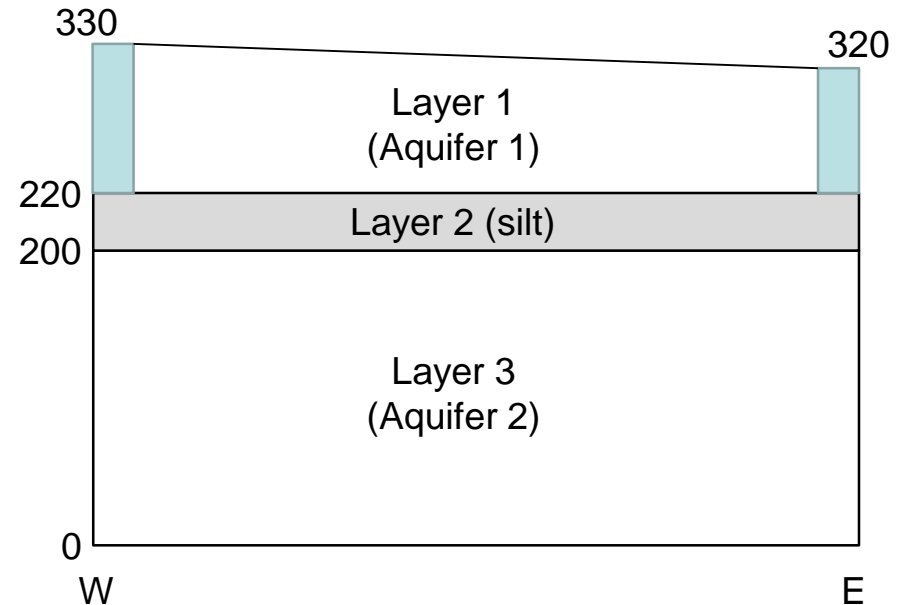
Horizontal grid cell size = 500 feet x 500 feet

Canal simulated with constant head cells in layer 1, column 1, rows 1 - 21

River simulated with constant head cells in layer 1, column 20, rows 1 - 21

No flow boundaries along the North, South, and Bottom

Cross Section View



# MODFLOW Data Files for Problem 1

- **mfsim.nam** – MODFLOW Simulation name file
- **ps1.nam** – Groundwater Flow Process name file
- **ps1.dis** – Spatial Discretization package file
- **ps1.tdis** – Time Discretization package file
- **ps1.ims** – Iterative Model Solution package file
- **ps1.ic** – Initial Conditions package file
- **ps1.chd** – Constant Head package file
- **ps1.npf** – Node Property Flow package file

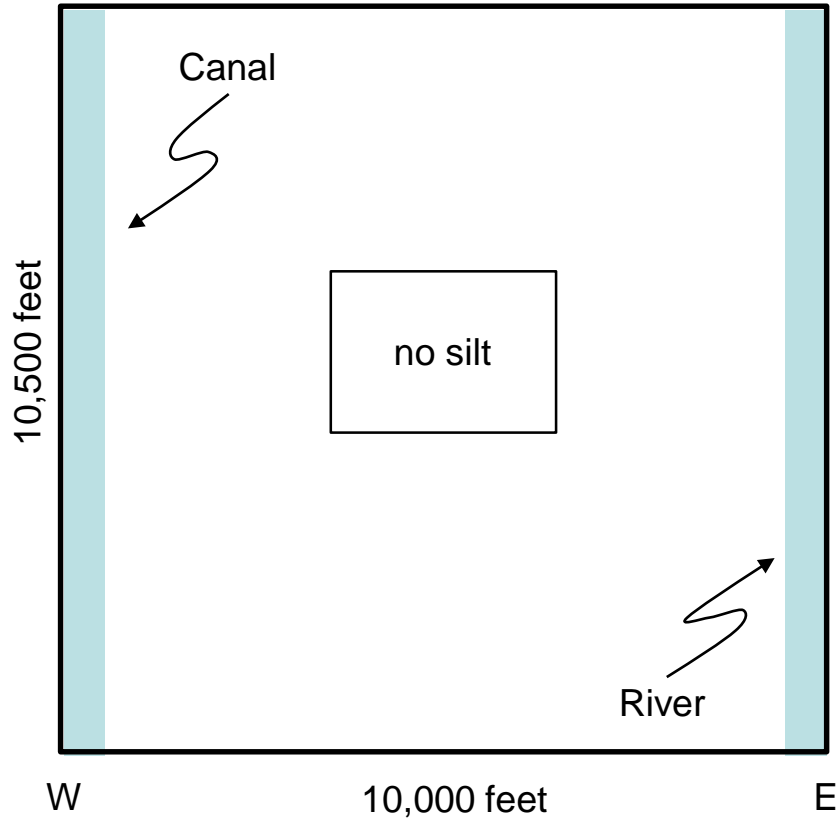
# Building MODFLOW data sets

Chris

# Problem 1E and 1F

## Discontinuous Silt Layer

Map View



Cross Section View

