

Ditch infiltration with impermeable bottom boundary

The ditch was filled with 15 cm of water.

Initial conditions: pressure +50 cm at the lowest point of the domain, the rest in equilibrium

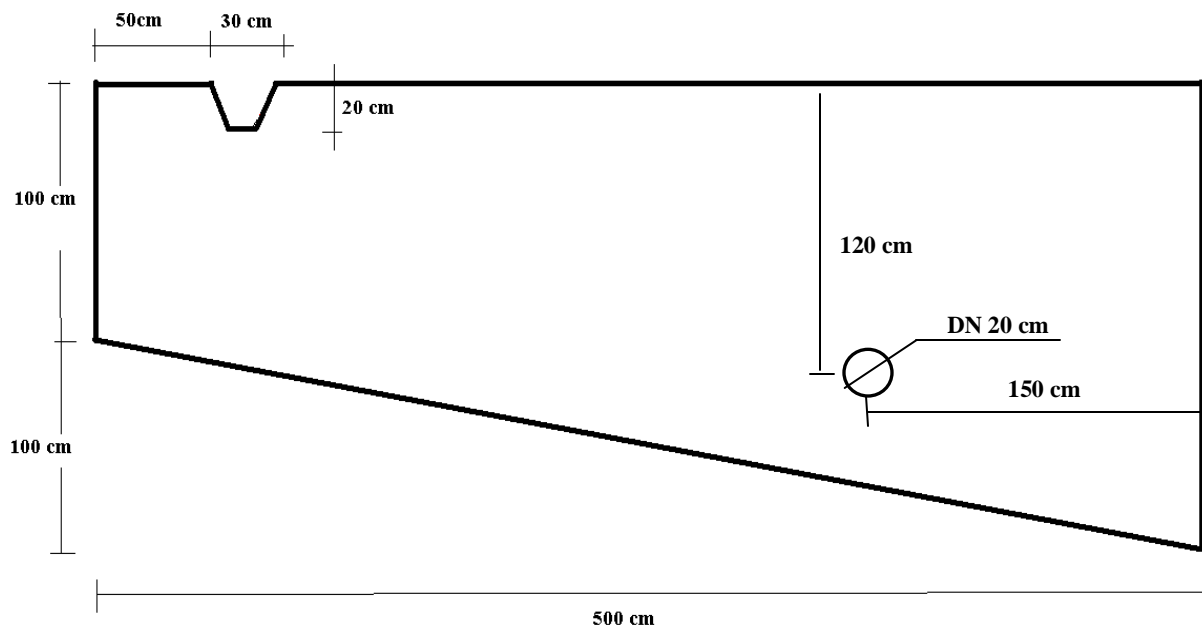
Boundary conditions: no flux – everywhere except the ditch

Duration: 50 days

Soil: clay-loam

Print information: select 100 print times with time step 12 hours

Flowing particles: Insert 5 – 15 flowing particles (few close to the ditch, rest as you wish)



a/ See, how is the domain being filled with water. Create AVI file of the pressure field development.

b/ How much water was infiltrated and drained after 10 and 50 days?

(EXTRA:)

For first 24 hours was water contaminated with chloride. Chloride concentration was 10 g/cm². Track the plum development. (transport parameters will be specified during lecture)