

COUPLED FLOW-TRANSPORT SIMULATION - MODEL SETUP

SIMULATION CONFIGURATION

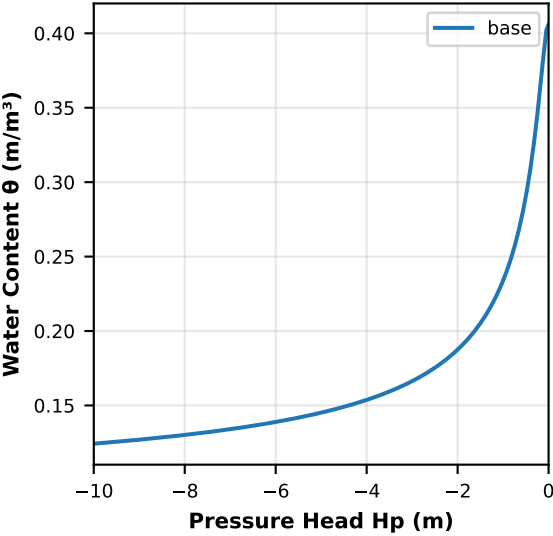
Simulation Name: Transport_Chloride
Start Date: 2024-05-01 00:00
End Date: 2024-08-30 00:00
Duration: 2904.0 hours (121.0 days)
Time Step: 10800.0 seconds (3.00 hours)

Domain: 20.0 m × 5.0 m | Mesh: 80 × 40

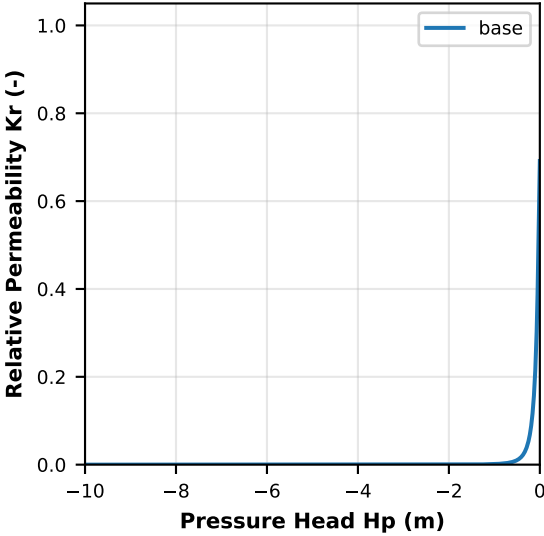
CONTAMINANT PROPERTIES

Contaminant: Chloride (Cl⁻)
Application Rate: 0.1 kg/m²/hr
Application Zone: Deicing zone (9-11m, surface)
Application Duration: 726.0 hours
Dispersivity (α_L): 0.05 m
Bulk Density: 1600 kg/m³

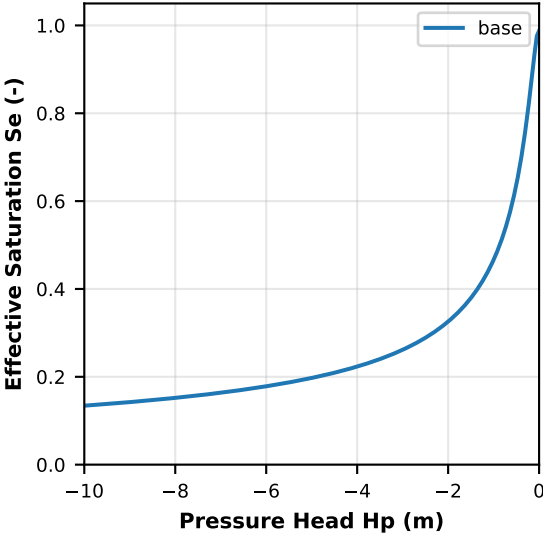
Water Content Curve



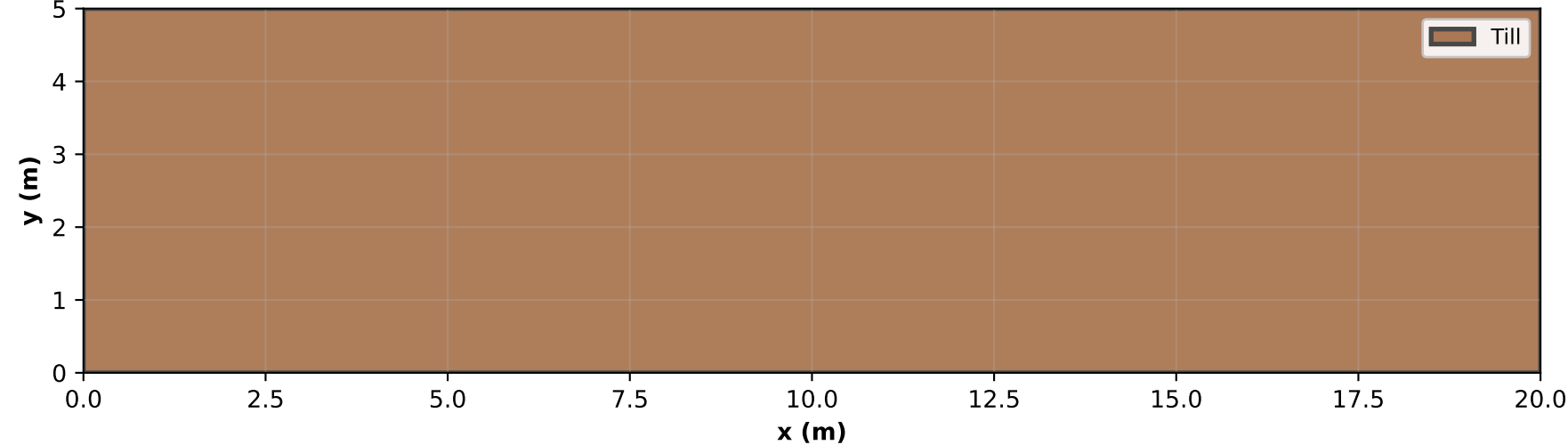
Relative Permeability Curve



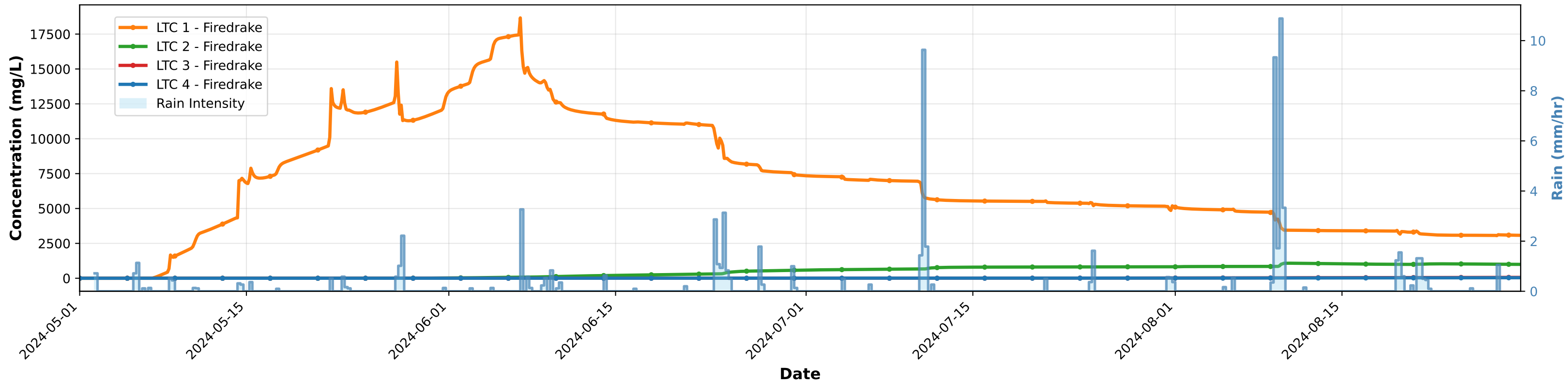
Effective Saturation Curve



Domain Geometry - Project Setup



CONTAMINANT CONCENTRATION - TIME SERIES



CONTAMINANT CONCENTRATION - SPATIAL DISTRIBUTION

