

NC RED CLAY ISN'T DIRT IT'S A DRAINAGE LIABILITY

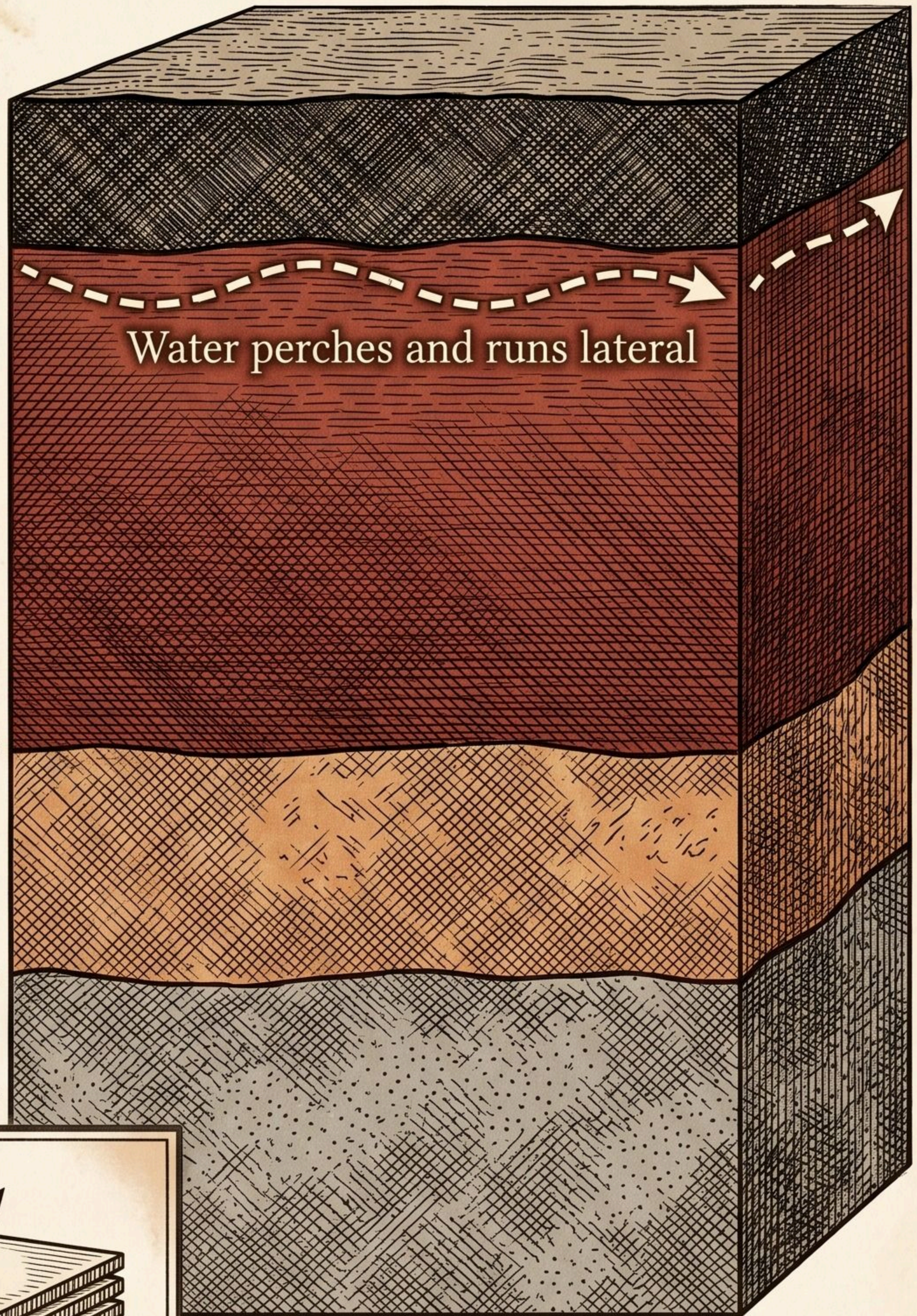
The soil science behind every Piedmont water problem.

A-HORIZON:
Topsoil -- water enters here

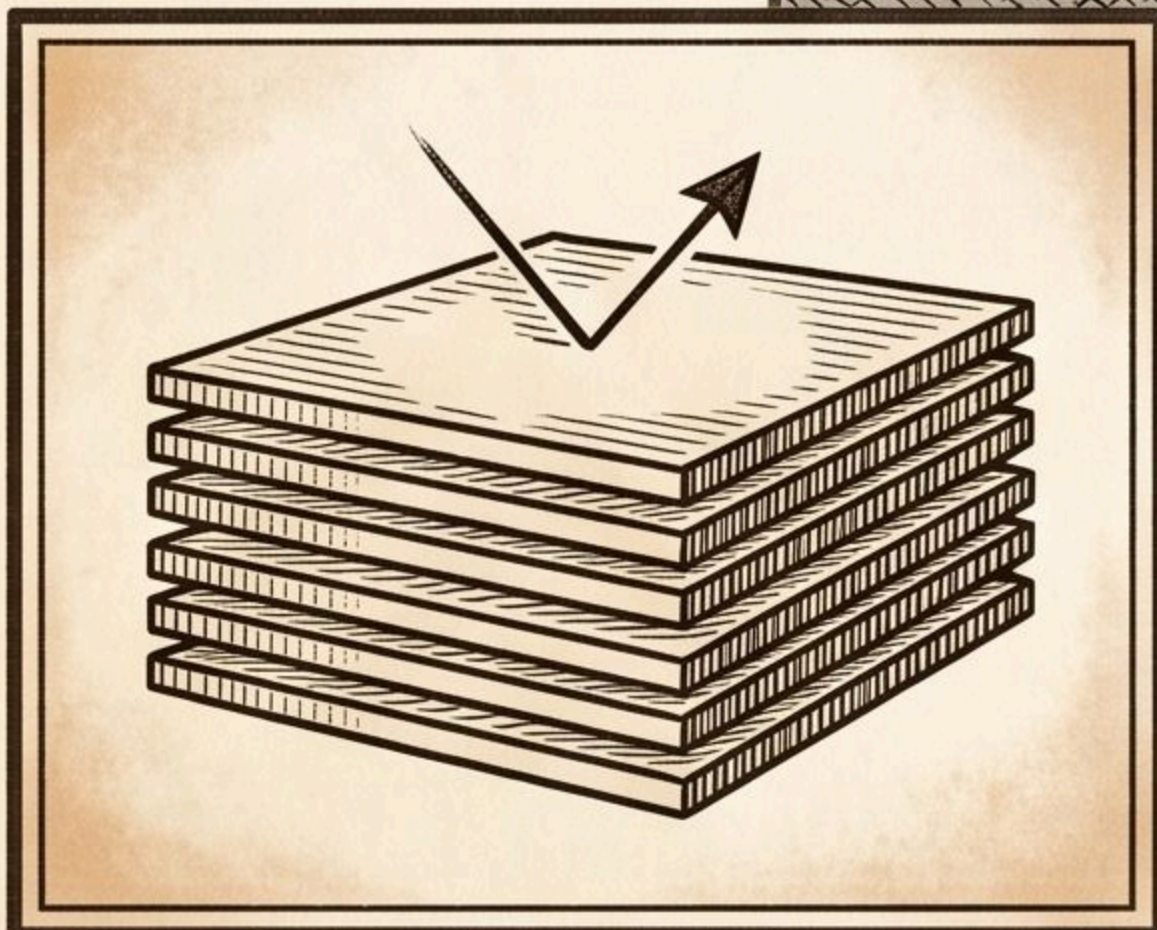
Bt HORIZON:
Dense kaolinite clay pan -- permeability 0.6-2.0 in/hr

SAPROLITE:
Weathered granite

BEDROCK:
Granite/gneiss



Water perches and runs lateral



Kaolinite: 1:1 clay mineral -- plates stack, water deflects