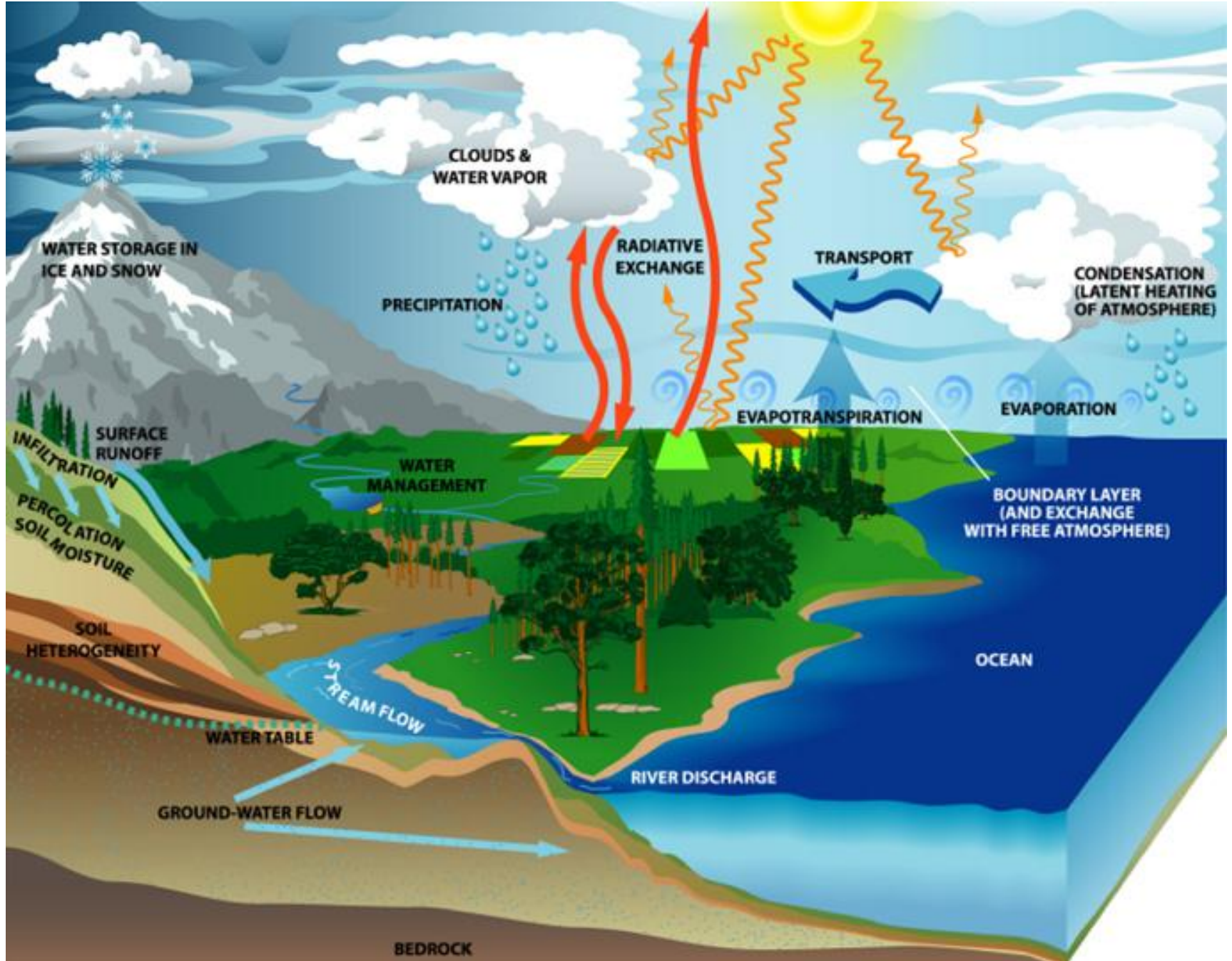
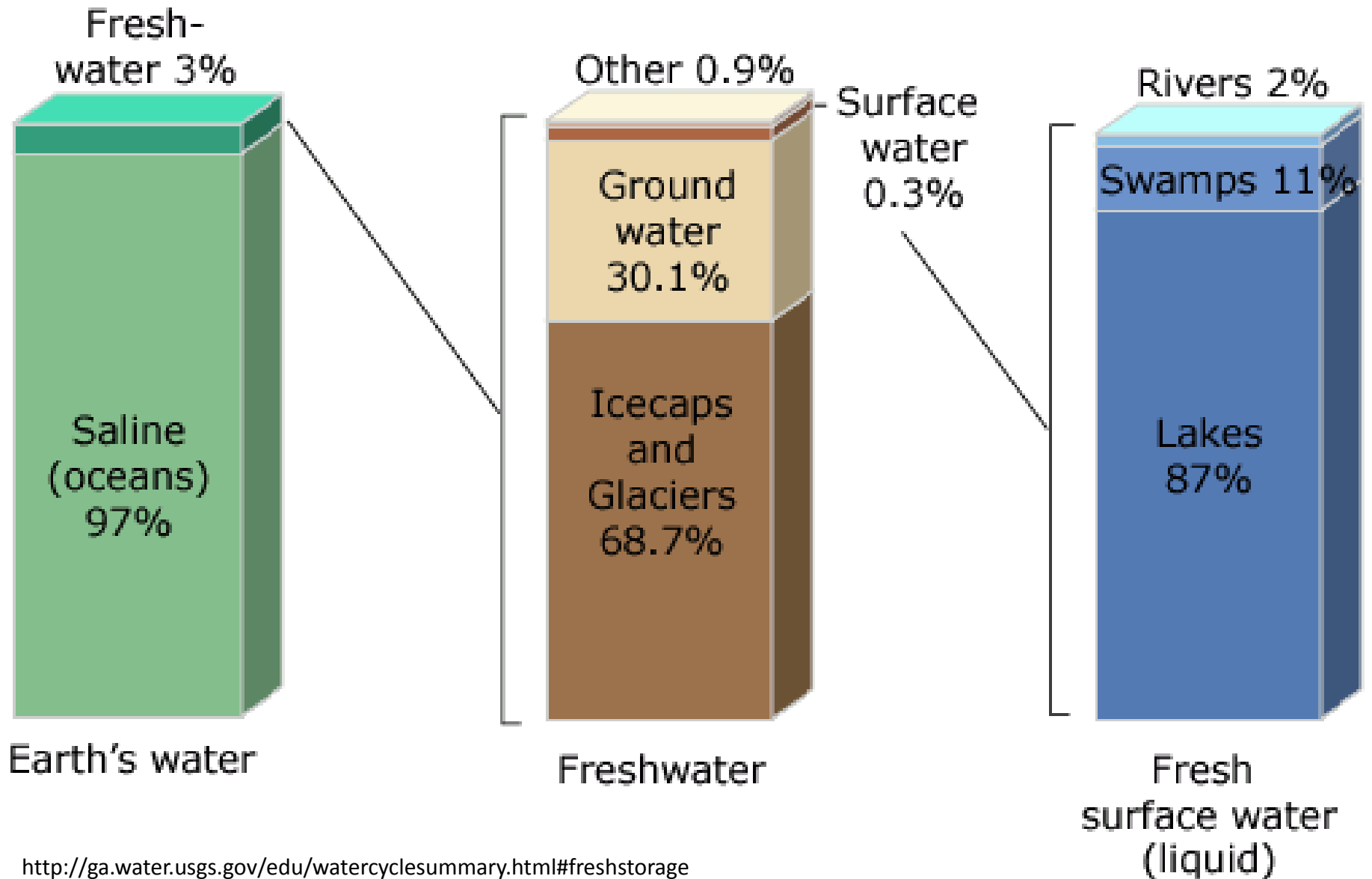


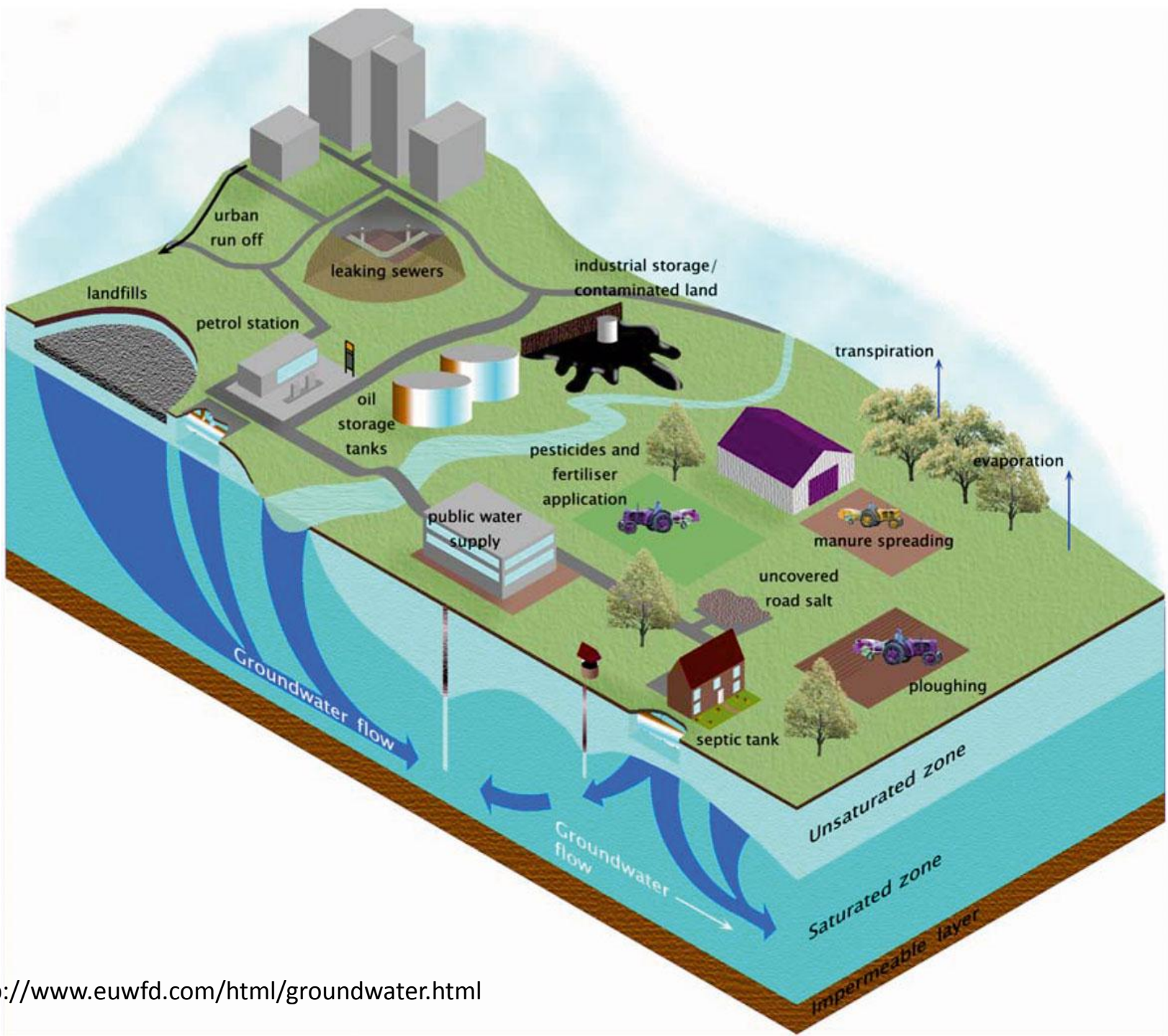
How Groundwater Works

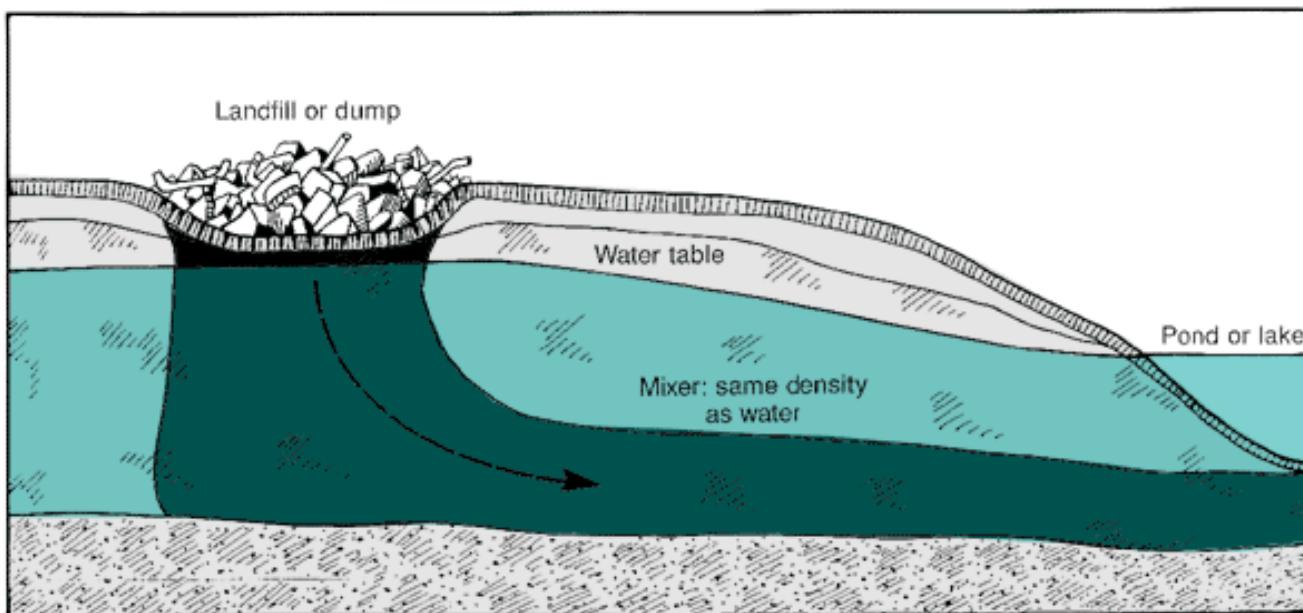
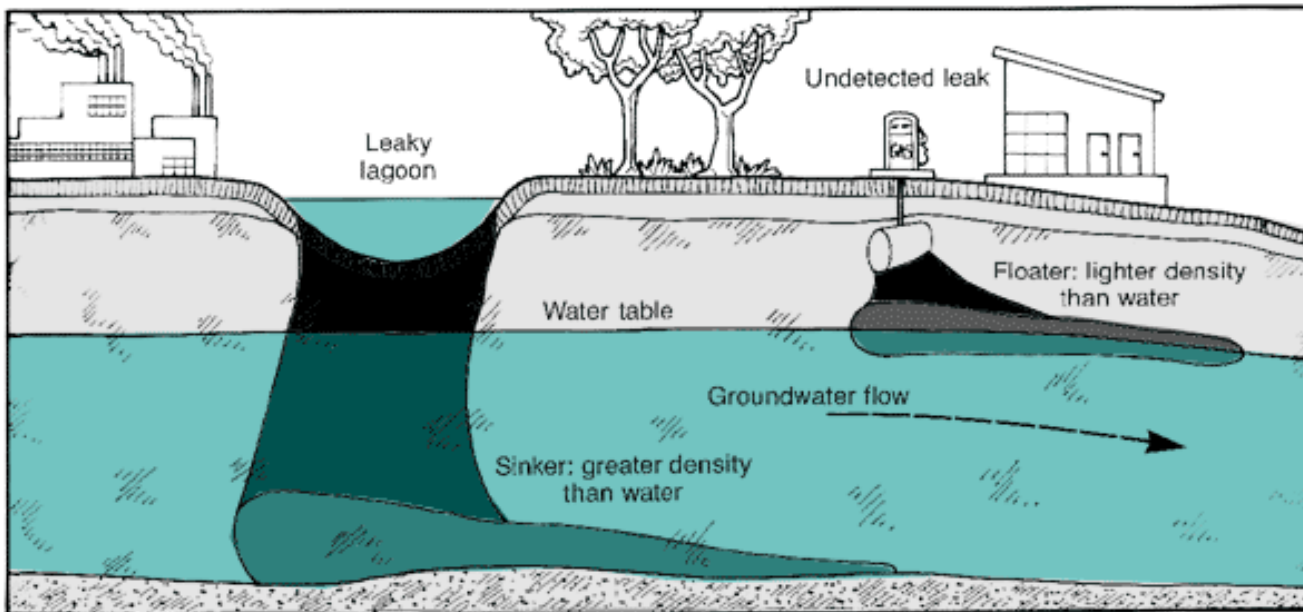
Natalie Kruse and Jen Bowman
Voinovich School, Ohio University

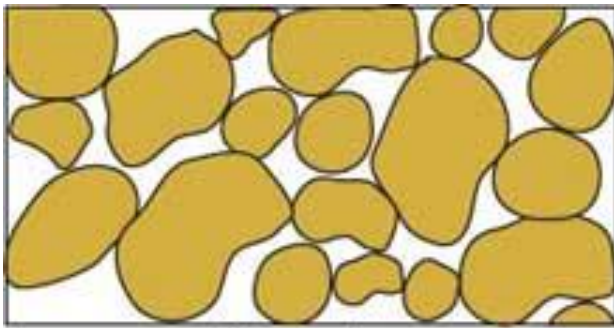


Distribution of Earth's Water

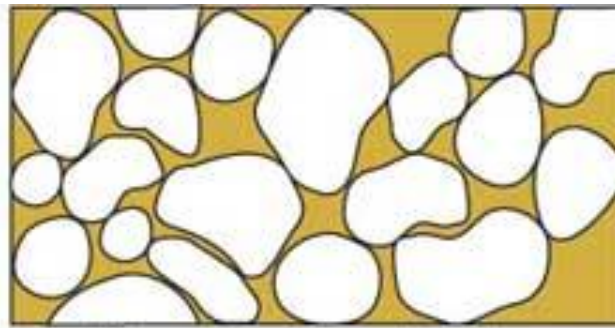




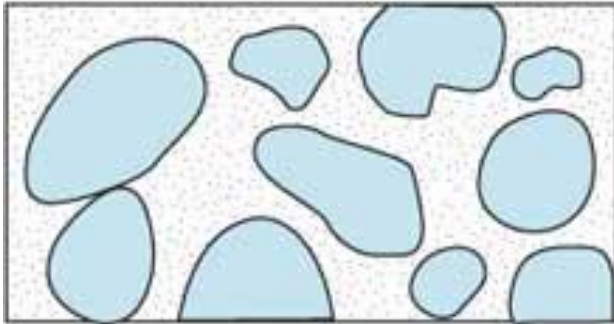




Gravel
well sorted, high porosity



Gravel - Sand - Clay
poorly sorted, low porosity



Cemented Sandstone
low porosity



Clay
high porosity

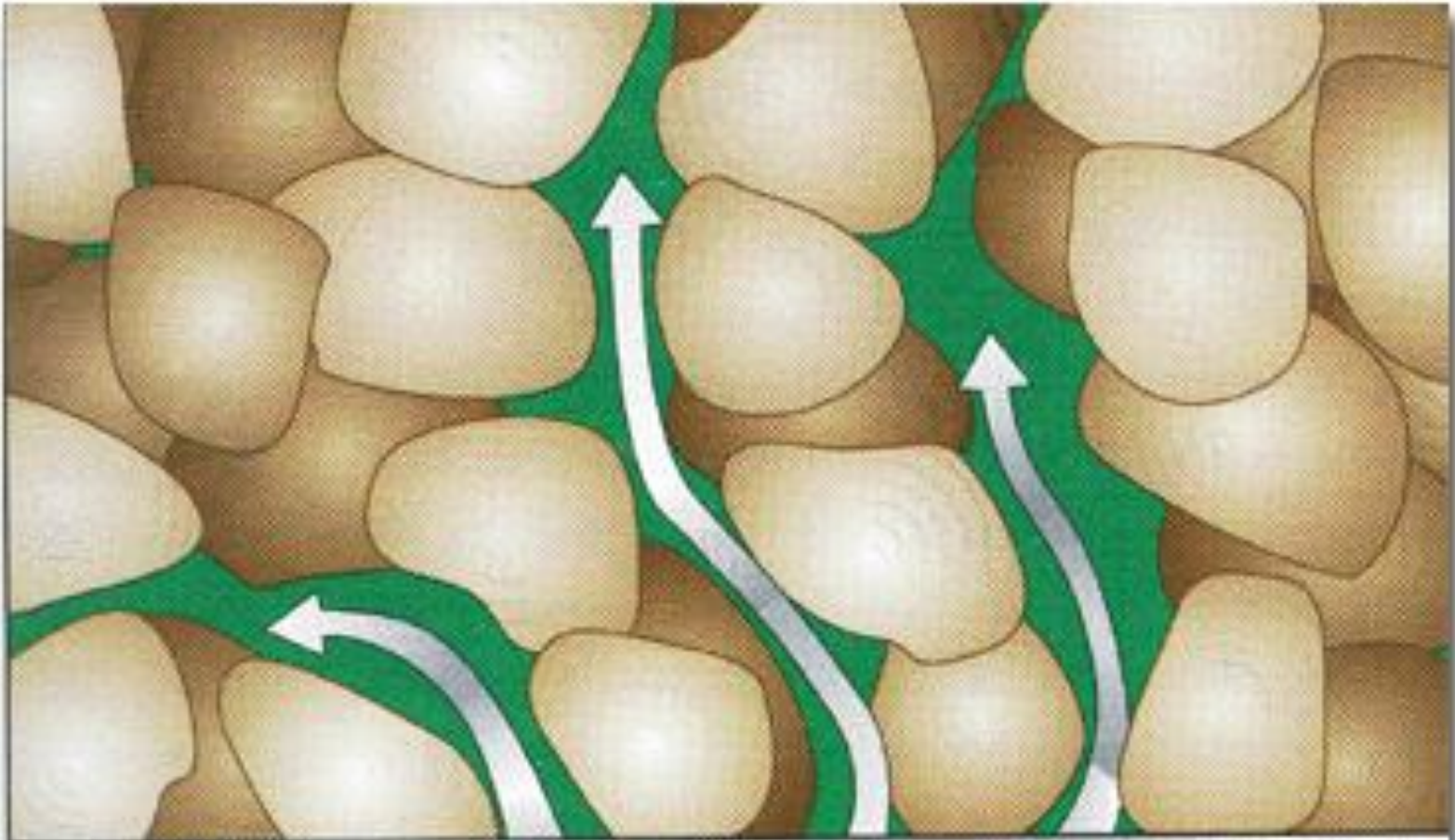


Limestone
low porosity



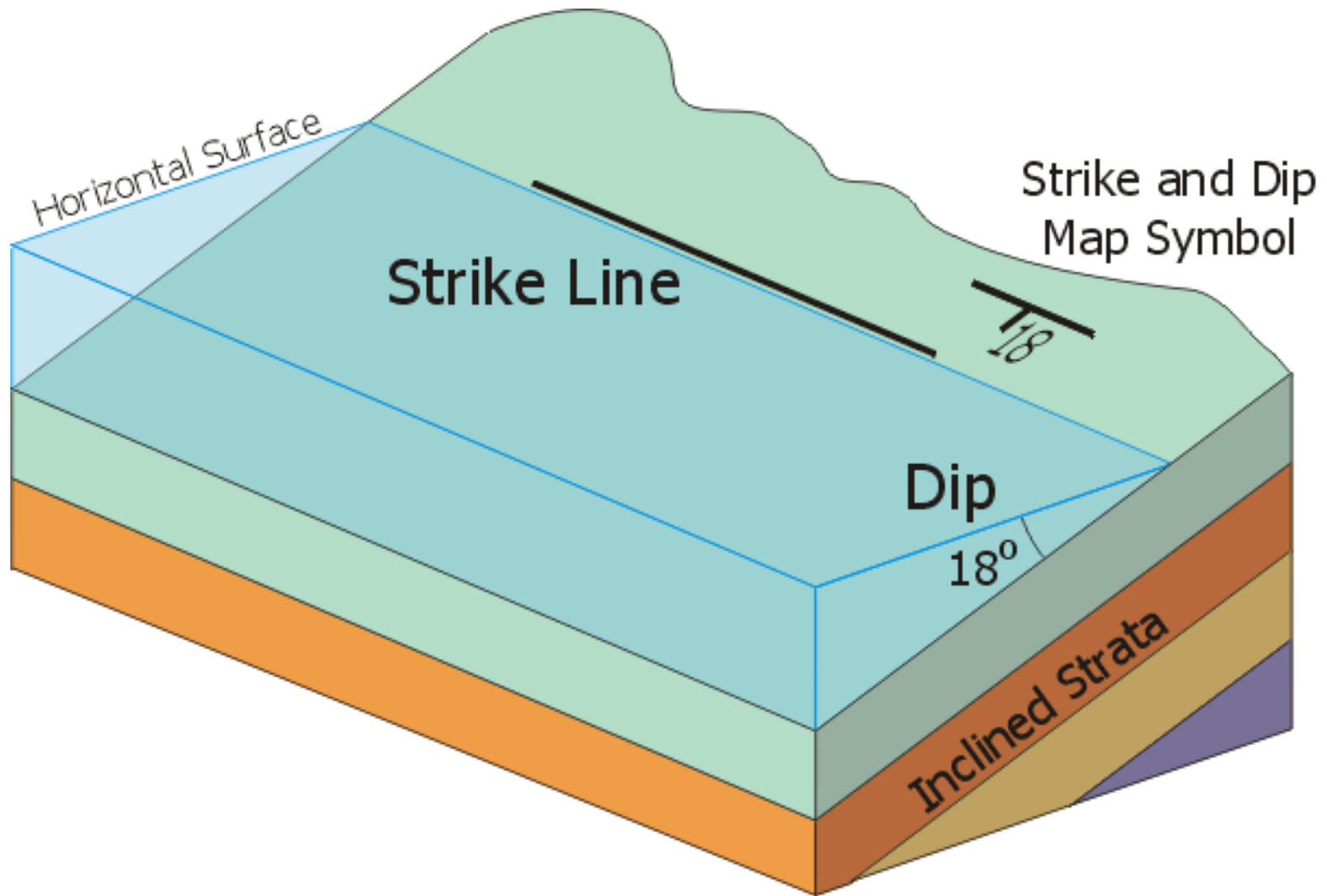
Shale
low porosity

Permeability



Connected pores give a rock permeability.

Strike and Dip



Geological Structure at PORTS

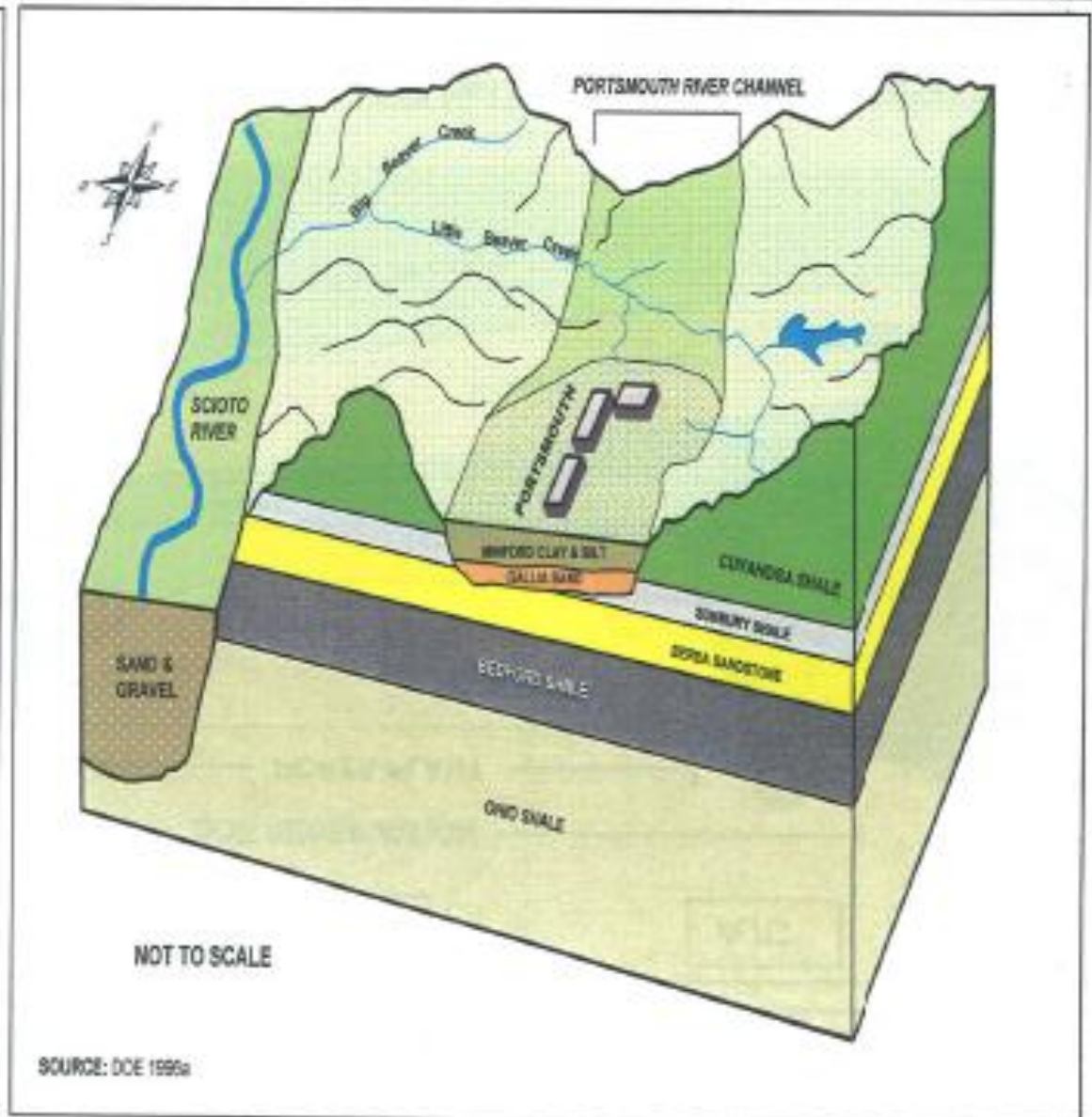
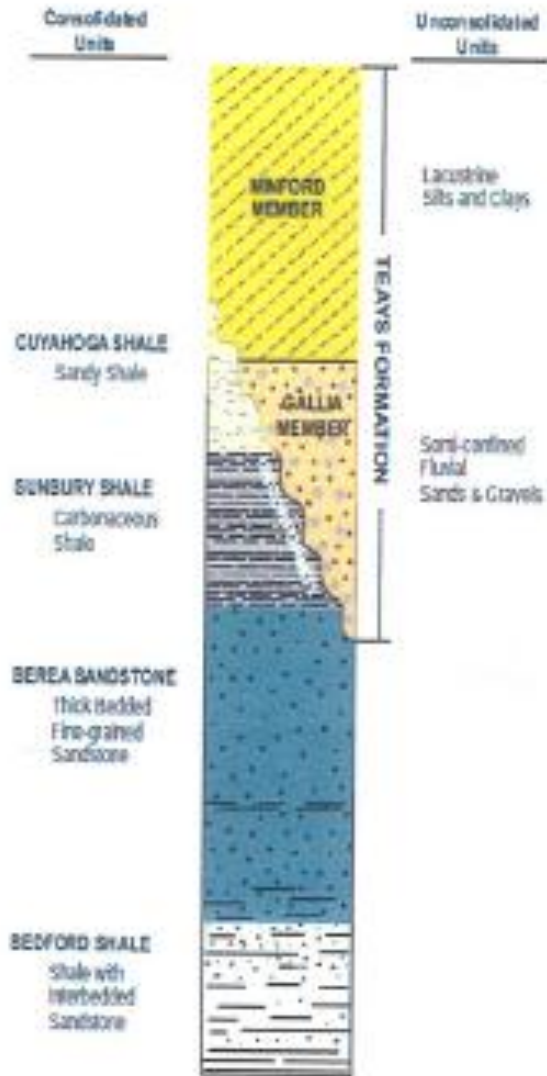


Diagram taken from a DOE August 4, 2011 Technical Meeting created by Fluor

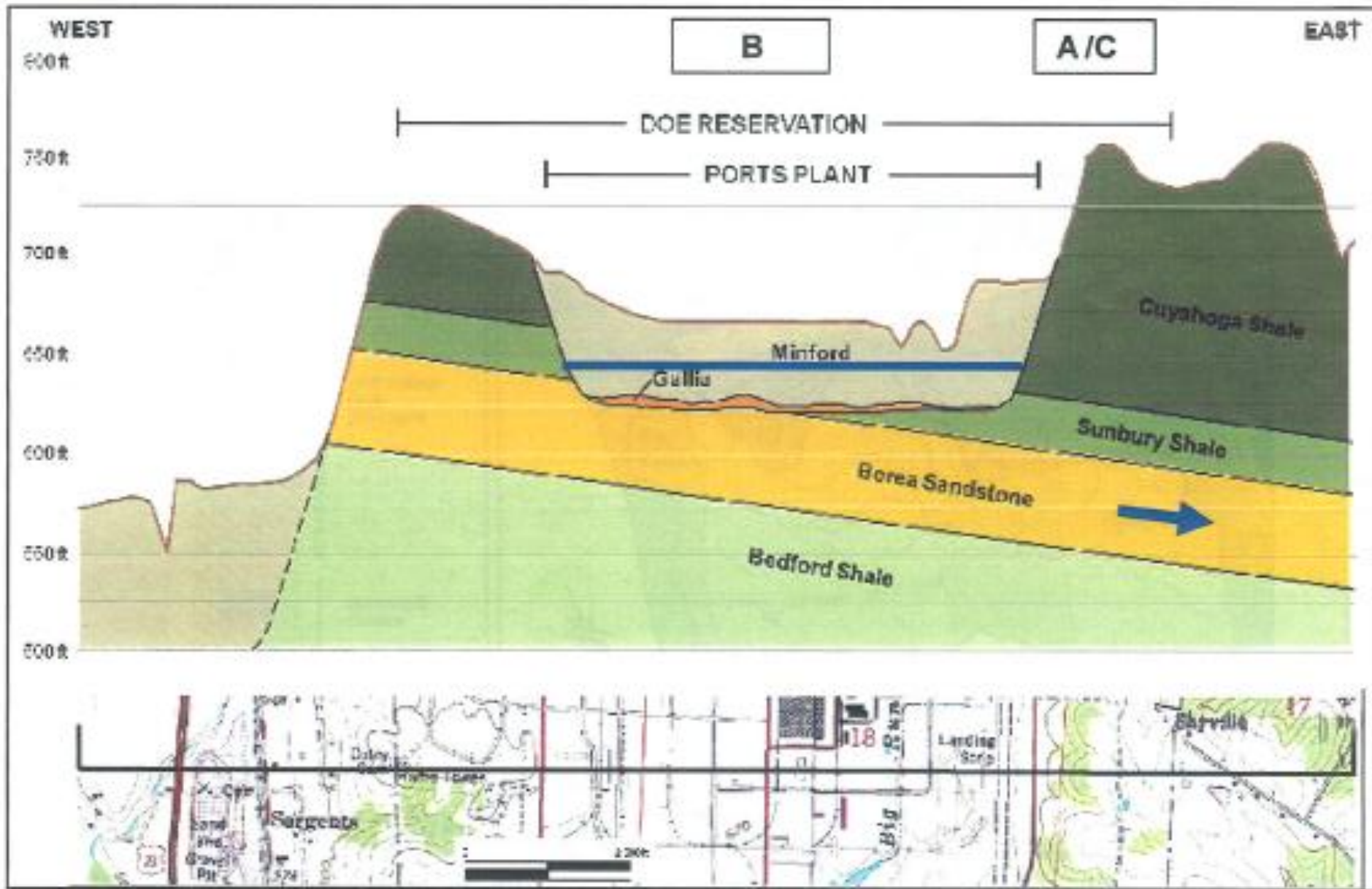
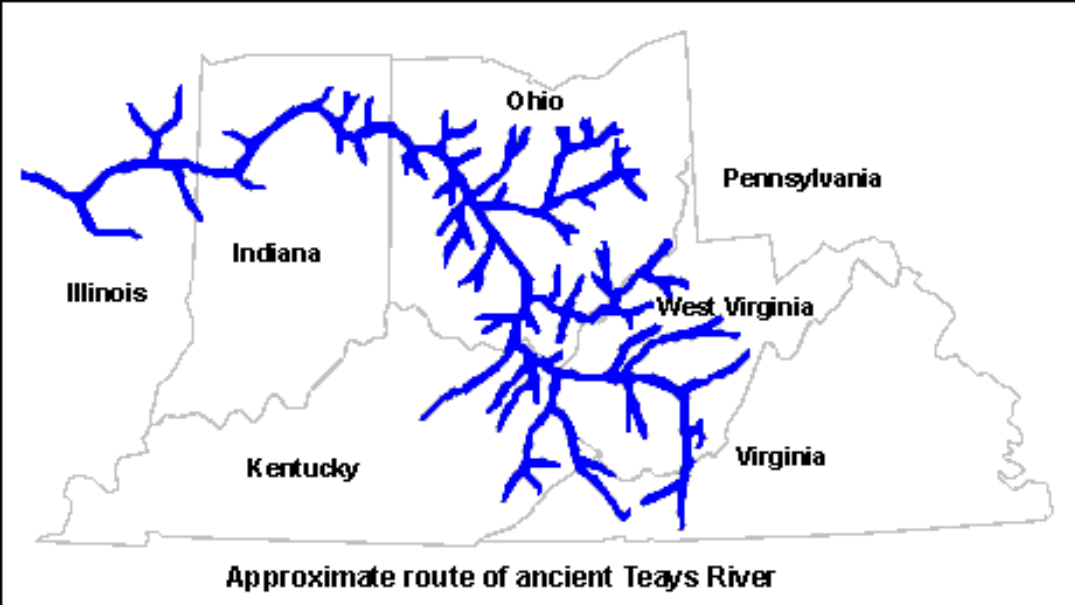
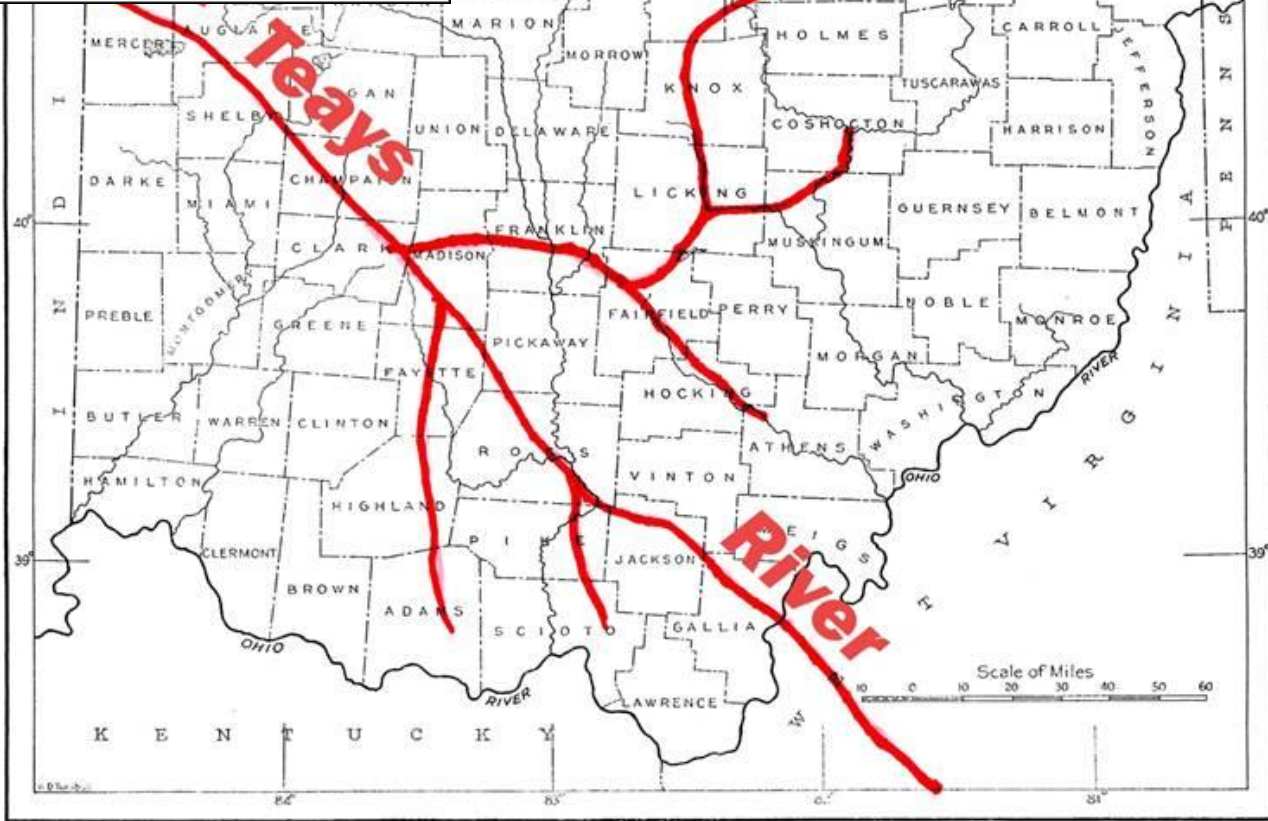


Diagram taken from a DOE August 4, 2011 Technical Meeting created by Fluor

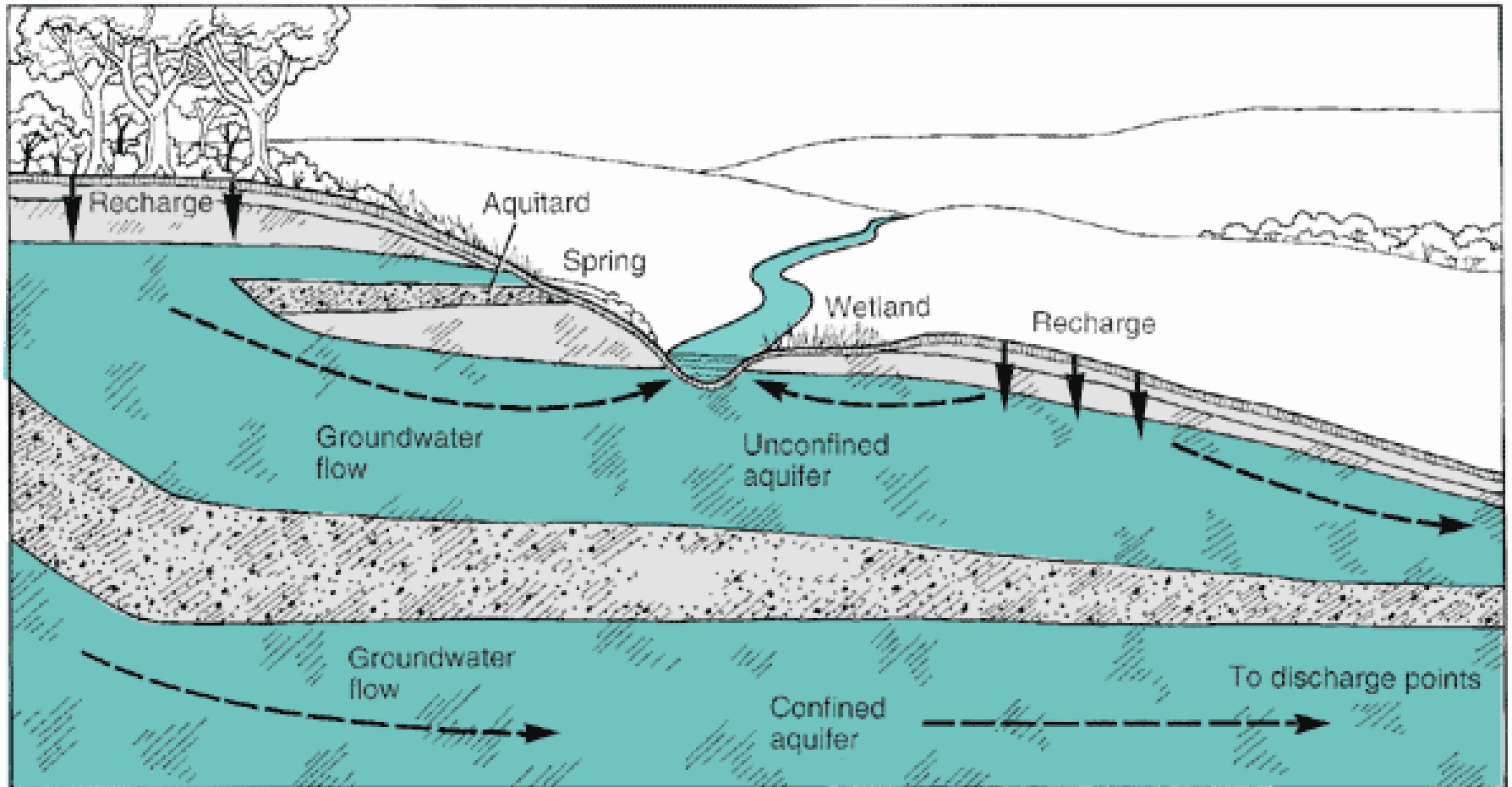


http://media.photobucket.com/image/teays%20river%20system/Northstar-Gemini/Teays_River_watershed3Bgeo2.gif

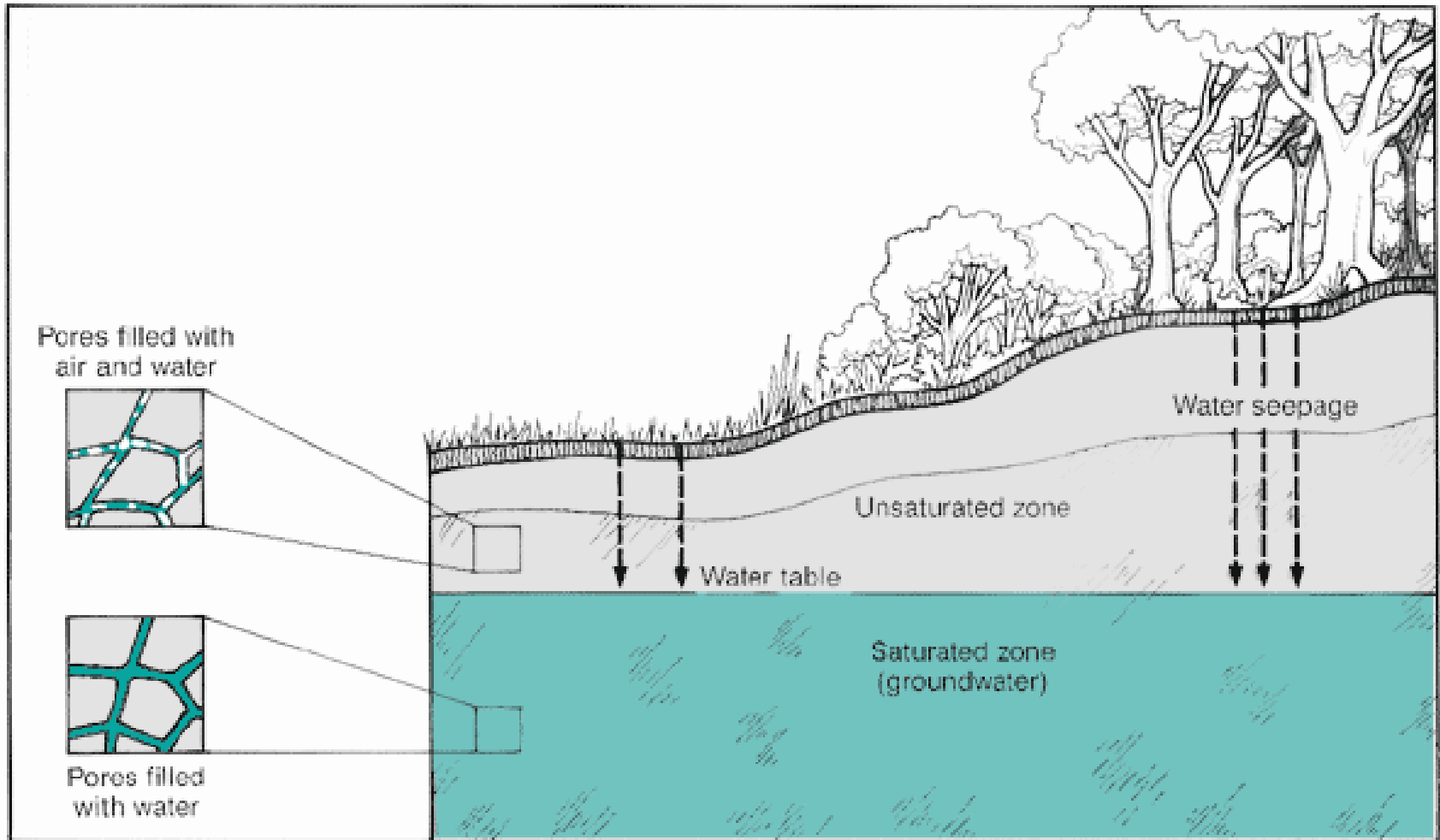


http://nedgreenwood.blogspot.com/2011_01_01_archive.html

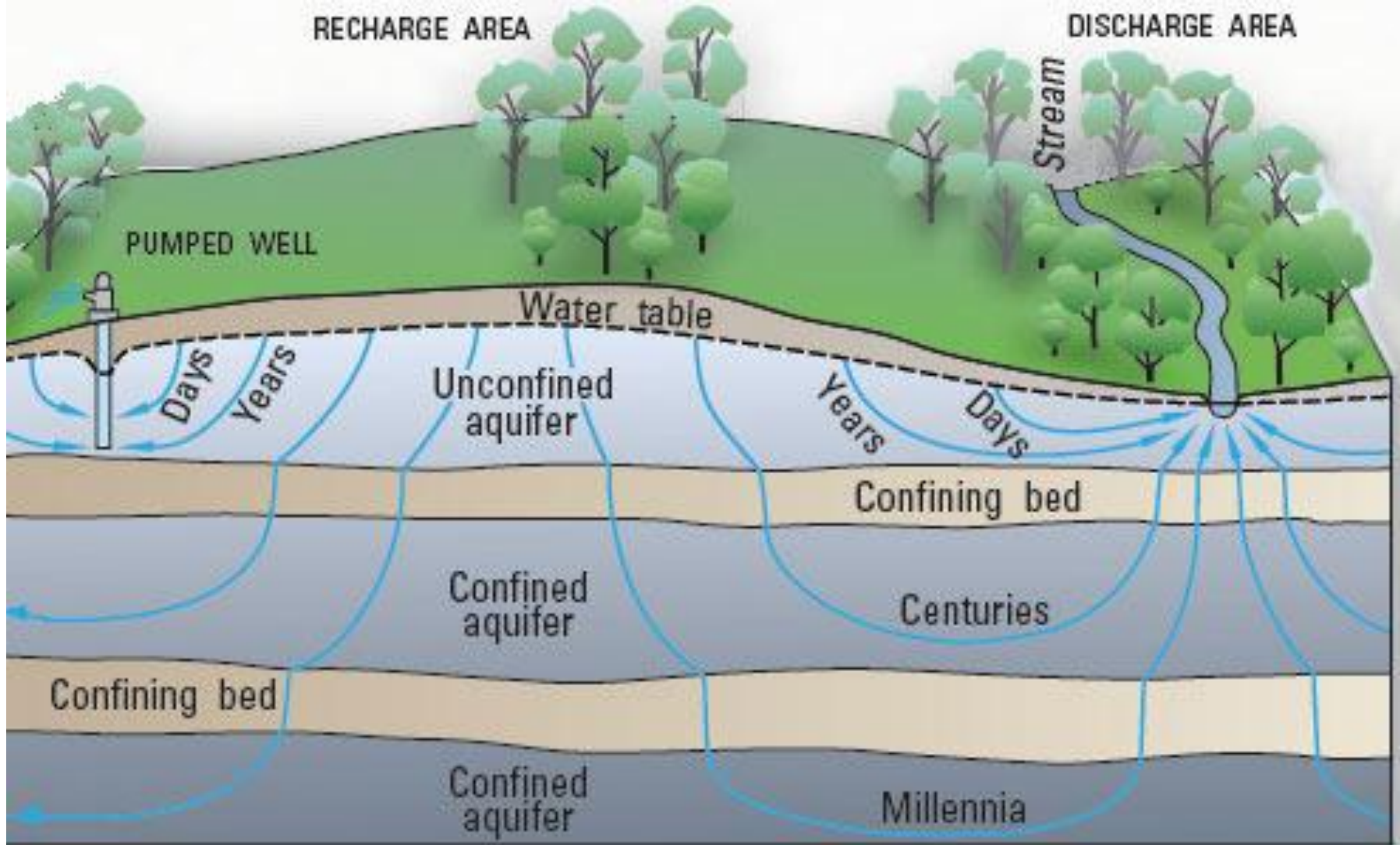
Groundwater-Surface Water Interaction



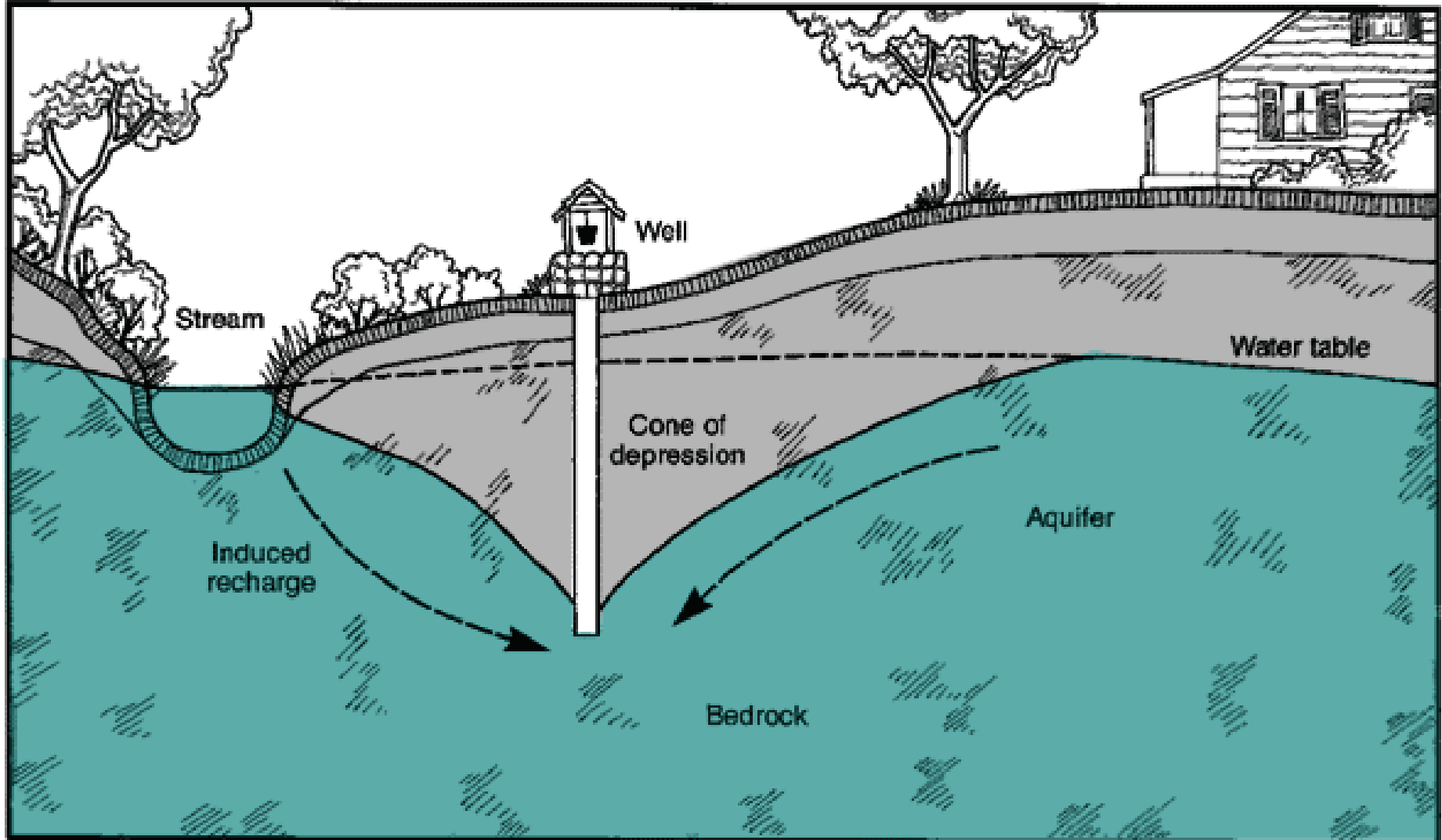
Unsaturated vs. Saturated Zones



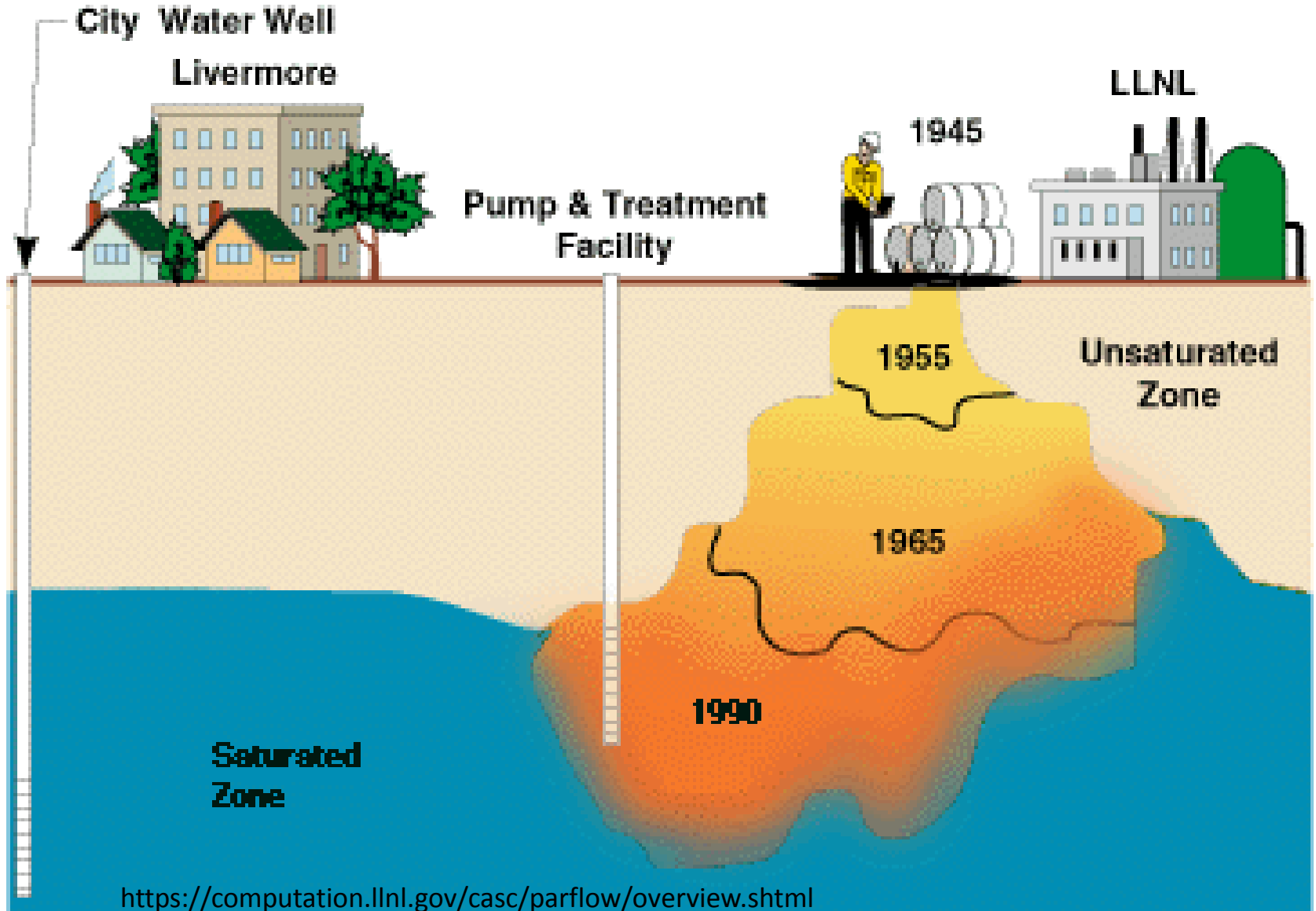
Groundwater Recharge



Pumping Groundwater



Groundwater Pollution



Groundwater Sampling



<http://www.waterrauk.com/pages/range/bailers.asp>



http://www.waterrauk.com/pages/range/interial_pumps_powered.asp



<http://waterpumpsz.com/447-groundwater-sampling-pumps.html>



<http://www.equipcervices.com/rentals/water-level/water-level-meters.html>



<http://www.cdmupdate.com/directory/showprofile.asp?pid=5091>



<http://www.campbellsci.co.uk/index.cfm?id=288>