

ES476 Hydrology – Final Portfolio Checklist (updated 3/10/10)

Assemble the following exercises in a neat, tab-separated, 3-ring binder, in the following order:

Cascade Ice Budget Lab

Groundwater Video Exercise

Groundwater Exposition Field Trip Summary

Drilling Terms Review Sheet

Well Log Exercise

Groundwater Problem Set I (Q4,7,8,9,16)

Groundwater Problem Set II (Q3,8,9,10,12)

Introduction to Monmouth Groundwater Exercise

Working with Groundwater Contour Maps

Final Exam Practice Problems (Q. 1, 3, 5)

Key Groundwater Equation Summary (problem focus for exam):

Work	Transmissivity
Force	Storativity
Weight	Hydraulic Gradient
Pressure	Darcy's Flux (Q)
Density	Seepage Velocity
Porosity	Well Drawdown
Permeability	Well Yield
Specific Yield	Well Specific Capacity
Specific Retention	
Darcy's Law / Permeameter Equations	Hydraulic Conductivity