

Groundwater Project Book Links to Educational Videos

This list provides links to online Groundwater Project (GWP <https://gw-project.org>) educational videos related to technical items. Instructors are welcome to download this spreadsheet and to add or delete lines to customize the list for individual courses. The list is provided in both

The Groundwater Project <https://gw-project.org/> Links to Educational Videos (v01 2022/10/30)

The Groundwater Project - <https://gw-project.org/>

Video Topic version 1 - Oct 2022

We welcome you to download this spreadsheet and delete or add topics to fit your class needs

Link to Educational Video

Link to PDF of Groundwater Project Book that Links to the Video

Hydrologic cycle animation (USA National Aeronautics and Space Administration)	https://gpm.nasa.gov/education/videos/water-cycle-animation	Groundwater in Our Water Cycle
Animation of global evaporation and evapotranspiration in white and precipitation in orange (USA National Center for Atmospheric Research)	https://www.youtube.com/watch?v=n0mupl4FZsQ	Groundwater in Our Water Cycle
Water well drilling and installaiton	https://www.youtube.com/watch?v=8K6V450StO4	Domestic Wells – Introduction and Overview
What a well screen looks like and how it is installed in a water well	https://www.youtube.com/watch?v=8ee5dl8xYXI&t=27s	Domestic Wells – Introduction and Overview
Sand Tank Illustrating Groundwater Flow	https://www.youtube.com/watch?v=gbN404Pf8e8&t=7s	Graphical Construction of Groundwater Flow Nets
Hele Shaw Model of Flow under a Dam	https://www.youtube.com/watch?v=UP8X6S9jQ18&t=1s	Graphical Construction of Groundwater Flow Nets
Hele Shaw Model of Flow of Recharge from a Ridge to a Surrounding Water Body	https://www.youtube.com/watch?v=TxpKZhNeY70	Graphical Construction of Groundwater Flow Nets
Hele Shaw Model of Flow of Recharge from a Ridge First to the Lake on the Right and then to the Lake on the Left	https://www.youtube.com/watch?v=h_eN8x-hKmk	Graphical Construction of Groundwater Flow Nets
How to Draw a Flow Net with Pencil and Paper	https://www.youtube.com/watch?v=dtJr0CfC98E&t=20s	Graphical Construction of Groundwater Flow Nets
Using TopoDrive Software to Visualize Groundwater Flow	https://youtu.be/d9f4iTh09bo	Graphical Construction of Groundwater Flow Nets
Animation of groundwater movement in a karst landscape	https://www.youtube.com/watch?v=vAOcqHgwTfg	Introduction to Karst Aquifers
Scuba divers exploring the deepest part of the saturated zone karst conduit network of the Weeki Wachee and Twin Dees springs network in the Floridan aquifer system	https://vimeo.com/326552810	Introduction to Karst Aquifers
Great productivity resulting from the high permeability and some of the political issues that arise when dealing with the Edwards Aquifer	https://www.youtube.com/watch?v=pXq0a_39WDQ	The Edwards Aquifer
Valdina Farms Sinkhole, located in western Medina County, Texas, within the Balcones Fault Zone and the recharge zone of the Edwards Aquifer	https://www.facebook.com/watch/?v=170771556358206	The Edwards Aquifer
Rerouting of Edwards Aquifer Springs led to a need for habitat restoration	https://www.facebook.com/AustinWatershed/videos/442843253211176/	The Edwards Aquifer
Habitat restoration in the Edwards Aquifer	https://vimeo.com/709268740	The Edwards Aquifer
Dense Plume Sinking in a Sand Tank	https://youtu.be/tesX8VjN0U0	Variable-Density Groundwater Flow
Flow in stable and unstable temperature fields with heat applied at the top and bottom of the system respectivley	https://youtu.be/9Ctn9Vm6psc	Variable-Density Groundwater Flow
Salinity distribution and flow pattern in a coastal aquifer	https://youtu.be/n6y_FkoDteg	Variable-Density Groundwater Flow
Concentration distribution of a landfill leachate plume with chloride concentrations for low, medium and high density cases	https://youtu.be/8xZmSvlZix0	Variable-Density Groundwater Flow
Comparison between the numerical model and laboratory tank for dense plume sinking to a low permeability lens	https://youtu.be/jDnnnVYctIU	Variable-Density Groundwater Flow
Stochastic Model Simulations of Variable-Density Groundwater Flow	https://www.youtube.com/watch?v=tps67V0yZTY	Variable-Density Groundwater Flow