

LAB EXERCISE 14 - GROUNDWATER MAPPING

Name:	Course ID:
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During this exercise you will create a second contour line map showing the contour of groundwater overlapping the elevation map of the topography as shown in the graphic. (Hint: Your secondary groundwater contours will NOT be the same as the surface contours!)

In the Map below you are given the elevation of the ground via contour lines (in feet above sea level), as well as the location of water wells. Each water well has a number corresponding with the depth of the water in inches measured from the top of the well. (Hint: You must convert the inches of groundwater depth into feet first and then subtract this number from the indicated surface elevation to get the groundwater level in feet above sea-level. You may then proceed to construct your groundwater elevation map from the new data.)

Which way is the groundwater flowing? (Hint: draw a contour map **in blue** for the elevations of the groundwater table in the subsurface)

What would happen if the well in the middle (31.5) was contaminated? (Indicate the possible consequence **in red** on your map!)

