

Watch the [Karst Topography and Mammoth Cave](#) video & read the [Karst Topography](#) link.

Lab Questions

1. Determine the elevation of the water table in this region by noting the elevation of the water in each of the lakes on the map. Record a few of those lakes and elevations on your blank map on the back of this sheet. Yes, sketch them.
2. Draw arrows indicating the direction of the *hydraulic gradient*.
3. In which direction does the ground water move in the Lake Wales region? _____
4. Calculate the hydraulic gradient in feet/mile between Lake Wales and Lake Pierce.

CALCULATIONS

ANSWER

5. Find the sewage treatment plant in the SW corner of the topographic map, is a red box labelled with a red 3. If this sewage treatment plant were to leak effluent (raw sewage) into the ground, in which direction would the pollutants flow & where would those pollutants eventually end up? On your map on the back, mark the eventual destination for pollutants.
6. What are two environmental implication of leakage of effluent in the Lake Wales region.
A

B
7. What type of topography occurs in this area & what is the cause of this kind of topography?

Summary Questions

8. What is the importance of groundwater for the safe delivery of clean water for private, municipal and commercial use?
9. Considering how toxins may move through groundwater and the ensuing risks, what is the value of monitoring groundwater for pollutants?

Lake Wales - Blank Map