

2012 Clarksville Cave

Hydrology Study

Researcher: Chelsea Lynn Walker

Proposal overview:

Researcher will study the hydrology of Clarksville Cave and surrounding preserve area to identify the mechanics of surface water and ground water flow, and the process of infiltration. The study requires monthly visits to the area where water flow measurements will be taken to calculate the total discharge thus over time finding an annual mean discharge. This data will then be compared to previous work conducted in a similar study from the 1980's. In addition to stream flow calculations, water samples will be collected and tested for nitrate concentrations caused by non-point source pollution via infiltration.

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