

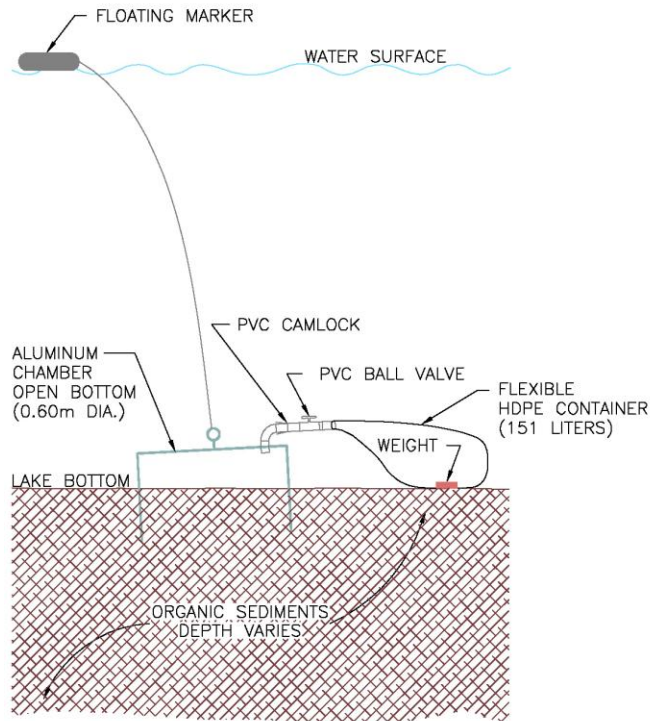
Spring Lake Study

Environmental Research & Design, Inc. (ERD) is currently conducting a study to develop a water and nutrient budget for Spring Lake. This study, funded by Seminole County, includes a 12 month field monitoring program to assist in quantifying water and nutrient inputs to the lake. One of the inputs under evaluation by ERD is groundwater seepage, which consists of shallow subsurface inflow around the perimeter of the lake.

Groundwater seepage has been shown to be a significant input to many lakes in the Central Florida area. This input is evaluated using an aluminum underwater chamber which is placed on the bottom of the lake. A schematic of a typical chamber is shown below. Water which seeps into the lake from groundwater is collected in a plastic bag that is attached to the seepage meter. The bag is retrieved by a diver, and the volume of water is measured and a sample collected for lab analyses. This information is used to estimate the volume and quality of groundwater seepage entering the lake.

A total of 15 seepage meters are currently being installed in Spring Lake by ERD. These meters will remain in the lake for the 12 month field monitoring period. ERD personnel will collect samples from the meters on a monthly basis. The locations of the seepage meters are indicated by orange or white floats connected to the meter by a steel cable.

Schematic and photo example of seepage meter:



Please do not disturb this equipment. Valuable data for the lake will be lost in the event of vandalism. If you notice a meter which has been damaged, please call ERD at **407/855-9465**.