

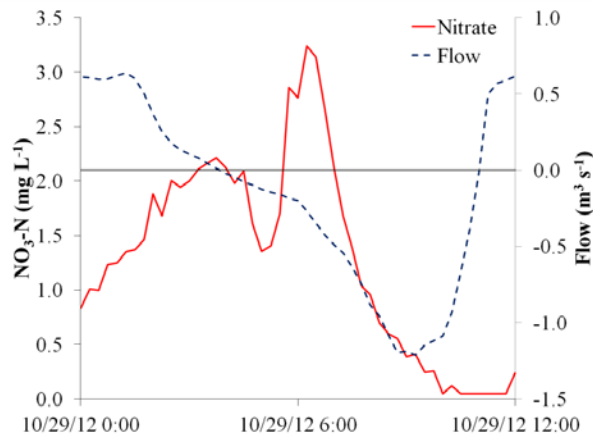


Randall Etheridge, PhD, PE
Assistant Professor
Department of Engineering, Center for Sustainability
Ecological engineering, Agricultural engineering, Water quality,
Ecosystem restoration, Hydrology, High temporal resolution in situ
nutrient monitoring, Watershed modeling

Ecosystem Restoration and Management



High Temporal Resolution Water Quality Monitoring



Ecological Engineering

- Coastal stream and wetland restoration
- Water management
- Hydrology and water quality modeling
- Drainage in shallow water table soils

Water Quality Monitoring

- Collect water quality parameters multiples times per hour
 - Nitrate
 - Organic Nitrogen
 - Dissolved Organic Carbon
 - Total Suspended Solids
 - pH
 - Many more
- Use optical instruments, such as UV-Visual spectrometers, in brackish or highly organic water