

## Soil and Water Science Department Seminar

- Speaker:** **Ray Bodrey**  
**M.Sc. Thesis Degree Candidate**
- Advisor:** Dr. Samira Daroub
- Title:** **Preliminary Analysis for Exploring  
Nonpoint Source Pollution Indicator  
Conditions in Coastal Surface Waters of  
Glynn County, Georgia**
- Date:** Monday, June 8th
- Time:** 3:15 pm
- Location:** McCarty Hall A Room G186



Coastal populations are growing at a significant rate, and the issue of nonpoint source pollution (NPS) has become an immediate concern for environmental professionals across the country. Glynn County, the second largest populated county of Georgia's six ocean facing counties, is known for its paradise of recreation, with beautiful beaches and thriving fishing waters, with vital estuaries for marine life. Within this small geographic region, potential threats of NPS from urban sprawl could potentially place surface waters in peril, if these areas are not properly monitored and the proper management decisions are not applied.

This study was designed to assist in protecting coastal waters by gathering and analyzing surface water quality in areas of known onsite wastewater treatment systems (OWTS) densities and stormwater outfalls. The study involved the development of a water quality rubric of standards for evaluation of primary and secondary NPS indicators, with determination of the range and exceedances of various water quality parameters in ten stations of three zones in coastal Glynn County over a one year period. The dataset was analyzed for yearly and seasonal NPS indicator conditions in statistical and geostatistical perspectives with spatial analysis. The protocol and analysis provided in this study was designed to assist Federal, State and local environmental health professionals and natural resource planners on critical decisions of landuse and best management practices for the control of NPS, especially "hot spot" areas where indicator rubric standards failed.

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