

**Evaluating Residential Development Impacts to Drinking Water Quality in the McKenzie River Watershed: Assessing the Intent, Applicability and Outcomes of Lane County Code and Establishing Partnerships with Universities**

Community Planning Workshop Team, Cody Evers and Sasha Fertig, University of Oregon

The Eugene Water & Electric Board (EWEB) implemented the Source Water Protection Plan 10 years ago in response to threats to water quality of the City of Eugene's sole water source, the McKenzie River. As part of that program, EWEB initiated a survey of development activities that might adversely affect water quality, with a specific focus on the role of the Lane County Code in regulating development. To carry out this study, EWEB partnered with graduate students as part of the University of Oregon's Community Planning Workshop.

Community Planning Workshop (CPW) is an experiential service-learning program within the Department of Planning, Public Policy and Management at the University of Oregon. CPW provides graduate students the opportunity to address Oregon's planning and public policy problems by conducting applied research, evaluating alternatives, and making recommendations.

This poster will highlight CPW's research on historic development activities and the relationship between land use regulation and water quality. CPW conducted a three-part analysis during this project: CPW identified development activities threatening water quality; CPW reviewed administrative actions allowing those development activities; and, CPW researched policy alternatives to strengthen source water protection. Members of the CPW team will discuss methods used in the study, demonstrate project deliverables, relate conclusions from the analysis, and discuss its partnership with Oregon's largest publicly owned utility company.

**Cody Evers**

Cody Evers is a master's student in the Community and Regional Planning Program and the Environmental Studies Program at the University of Oregon. He is interested in the use of GIS in aiding decision-making processes for regional scale problems and planning issues. He participated in the Community Planning Workshop in early 2009 and will be continuing research of water quality and residential development in the McKenzie Watershed through his thesis.

**Sasha Fertig**

Sasha Fertig is a master's student in the Community and Regional Planning Program at the University of Oregon. She participated in the Community Planning Workshop in 2009 and is interested in natural resource management.