

# KATHERINE DOWDELL

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## EDUCATION

University of Colorado - Boulder, CO	August 2008-
Concurrent BS/MS in Environmental/Civil Engineering, Minor in Political Science	December 2012
Graduate GPA: 3.933, Undergraduate GPA: 3.870	
Bioremediation, Hazardous Waste Remediation, Water Utilities Management, Wastewater Treatment	
Syracuse University - Madrid, Spain	Fall 2009
Cultural Immersion Study Abroad Program	
University of Southern California - Los Angeles, CA	August 2007-
Chemical Engineering	May 2008

## AWARDS

University of Colorado Environmental Engineering Distinguished Senior Award	2011
Engineering Dean's Graduate Fellowship	2011-2012
University of Colorado School of Engineering Dean's List	2008-2012

## RESEARCH EXPERIENCE

Research Assistant, University of Colorado - Boulder, CO	2012
PI's: Dr. R. Scott Summers and Dr. Karl Linden	
<ul style="list-style-type: none"><li>Examining the use of biological filtration for the removal of CCL3 compound toxicity post-AOP and the sensitivity of biosand to peroxide</li><li>Developing a relationship between ATP and phospholipid biomass analyses</li></ul>	
NSF Undergraduate Research Fellow, University of Colorado - Boulder, CO	2011
PI: Dr. R Scott Summers	
<ul style="list-style-type: none"><li>Performed experiments comparing the removal of MIB and 2,4-D in biosand and biological GAC filters under varying influent conditions</li><li>Determined that the coupling of biological and adsorptive processes in biological GAC enhanced the removal of micropollutants</li></ul>	
Engineering Intern, Denver Water - Denver, CO	2008
<ul style="list-style-type: none"><li>Assisted in the operation of the recycled water treatment facility, including the use of SCADA to operate the treatment system, performing lab work to evaluate system performance, and conducting regular sampling</li><li>Maintenanced chemical and water pumps, blowers, and other system components</li></ul>	

## PUBLICATIONS AND PAPERS

Presenter at WQTC 2011 - Phoenix, AZ	2011
<i>"Micropollutant Biodegradation and Adsorption in Biologically Active Drinking Water Filters with Granular Activated Carbon"</i>	

## CERTIFICATIONS AND MEMBERSHIPS

HAZWOP 40 Hour	2012
Engineering in Training - Colorado	2011

## LANGUAGE AND SKILLS

Conversational Spanish, Microsoft Office Suite, MATLAB, MODFLOW, Mathematica  
References Available Upon Request