

**United States 2005 State
Stockholm Junior Water Prize Winners**

Alabama

Jennifer Taylor

"Determination of Antibiotic Presence in the Tennessee River and Inflowing Waters"

Florence High School

Florence, Alabama

Sponsored by the Alabama Water Environment Association

Alaska

Clay Wertheimer and Brenna Heintz

"Seasonal Dynamics of Polynuclear Aromatic Hydrocarbons in Gastineau Channel"

Juneau Douglas High School

Juneau, Alaska

Sponsored by the Alaska Water Environment Association

Arizona

Oanh Nguyen and Nicole Carbajal

"Comparison of Rockwool versus Sand When Used as Filter Media in a Biological Water Filter"

Basha High School

Chandler, Arizona

Sponsored by the Arizona Water and Pollution Control Association

Arkansas

Colin Sears

"Non Point Source Pollution Comparative Analysis of the White River and Beaver Lake, Arkansas"

Alma High School

Alma, Arkansas

Sponsored by the Arkansas Water Environment Association

California

Megan Yoo

"Wanted: Safe and Healthful Water - No Strings Attached (Phases II and III)"

Northwood High School

Irvine, California

Sponsored by the California Water Environment Association

Colorado

Ananth Sridhar

"A Novel Method to Assist Regulators Determine Site-specific Water Quality Criteria for Copper"

Cherry Creek High School

Greenwood Village, Colorado

Sponsored by the Rocky Mountain Water Environment Association

Connecticut

Margaret Boushell

"The Effects of a Home Heating Oil Spill on the Local Environment"

Newtown High School

Sandy Hook, Connecticut

Sponsored by the New England Water Environment Association

Delaware

No Nominations

Sponsored by the Chesapeake Water Environment Association

District of Columbia

Genevieve Allen

"Pesticides and Ghost Shrimp: A Lethal Combination"

Alice Deal Junior High School

Washington, D.C.

Sponsored by the Federal Water Quality Association

Florida

Hasib Nasirullah

"An Interdisciplinary Approach to Trichloroethylene Pollution in Groundwater Systems Phase II: Computer Modeling"

American Heritage High School

Plantation, Florida

Sponsored by the Florida Water Environment Association

Georgia

Abby Blocker-Joyner

"Sampling & Analysis of Agriculture Related Chemicals in Bulloch County Farm Ponds As Indicators of Accumulation From Runoff, Phase II"

Statesboro High School

Statesboro, Georgia

Sponsored by the Georgia Water and Pollution Control Association

Hawaii

April Due and Aimi Latore

"The Viability of Processing Cruise Ship Waste at Land-based Wastewater Treatment Facilities"

Kapolei High School

Kapolei, Hawaii

Sponsored by the Hawaii Water Environment Association

Idaho

No Nominations

Sponsored by the Pacific Northwest Clean Water Association

Illinois

Daria Zelasko

"Benevolent Bacteria: Indigenous Bacterial Remediation"

Guerin College Preparatory High School

River Grove, Illinois

Sponsored by the Illinois Water Environment Association

Indiana

Abigail Hines

"A Comparison of Herbs and Bti as Larvicides on Culex pipiens and Their Effect on

Daphnia magna: Year II"

Orchard Day School

Fort Wayne, Indiana

Sponsored by the Indiana Water Environment Association

Iowa

Mauree Gibson

"Daphnia magna: A Possible Smoke Detector for New Water Pollutants?"

Central Lee High School

Donnellson, Iowa

Sponsored by the Iowa Water Pollution Control Association

Kansas

No Nominations

Sponsored by the Kansas Water Environment Association

Kentucky

Kyle Huninghake

"Pesticide Runoff on Aquatic Photosynthesis"

DuPont Manual High School

Louisville, Kentucky

Sponsored by the Kentucky-Tennessee Water Environment Association

Louisiana

Alicia Ranney

"Geographical Variation in Concentrations of Metal Residues in Louisiana Bivalves (*Crassostrea*

virginica)"

Lafayette High School

Lafayette, Louisiana

Sponsored by the Louisiana Water Environment Association

Maine

Ashley Malinowski

"A Point Source of Ortho-phosphate in the Sabattus Pond (Maine) Watershed?"

Oak Hill High School

Wales, Maine

Sponsored by the New England Water Environment Association

Maryland

Emily Brownlee

"The Use of Clay to Remove Algal Blooms from Chesapeake Bay Waters"

Calvert High School

Prince Frederick, Maryland

Sponsored by the Chesapeake Water Environment Association

Massachusetts

Eric Wilson

"Improving Phycoremediation via Artificial Directional Selection and Its Application to Mercury Pollution"

North Attleborough High School

North Attleborough, Massachusetts

Sponsored by the New England Water Environment Association

Michigan

Amanda Bennett

"Toxins of the Round Goby: Phase I"

Marysville High School

Marysville, Michigan

Sponsored by the Michigan Water Environment Association

Minnesota

Elizabeth Welsh

"The Use of Barley Straw to Control Algal and Macrophyte Growth on Wild Rice Lake-Pre and Post-Eutrophic Conditions"

Proctor High School

Proctor, Minnesota

Sponsored by the Central States Water Environment Association

Mississippi

Veniece Kirksey

"The Effects of Pollutants on Freshwater Algae and Planaria from Local Eutrophic Waters"

Yazoo City High School

Yazoo City, Mississippi

Sponsored by the Mississippi Water Environment Association

Missouri

Sky Vanderburg

"The Pipe Dream?: An Analysis of Haloacetic Acids in Wastewater Effluent"

Moberly High School

Moberly, Missouri

Sponsored by the Missouri Water Environment Association

Montana

Cherry Tomscheck

"The Effect of a Selected Herbicide (Trifluralin) on the Flagellar Regeneration and Resorption of Chlamydomonas reinhardtii"

North Toole County High School

Sunburst, Montana

Sponsored by the Montana Water Environment Association

Nebraska

Laura Johnson

"Duckweed: A Solution to Pollution? Phase II Hog Sludge"

Newman Grove High School

Newman Grove, Nebraska

Sponsored by the Nebraska Water Environment Association

Nevada

Lindsay Gilbertson

"Bulrush Burning as a Solids Removal Management Technique- A Study of Ruby Lake National Wildlife

Refuge - Year Three"

Elko High School

Elko, Nevada

Sponsored by the Nevada Water Environment Association

New Hampshire

No Nominations

Sponsored by the New England Water Environment Association

New Jersey

Jonathan Chester

"The Effect of Soil Texture on the Adsorption of Escherichia Coli"

The Peddie School

Hightstown, New Jersey

Sponsored by the New Jersey Water Environment Association

New Mexico

Abigail Gray

"Nitrate and Groundwater in the East Mountains of Bernalillo County - Phase III - Nitrate Variability & Using an Environmental Tracer to Determine Aquifer Recharge Travel Time"

Manzano High School

Albuquerque, New Mexico

Sponsored by the Rocky Mountain Water Environment Association

New York

David Kashi

"Distribution of Cholera Through Natural Water Sources"

Solomon Schechter High School

New York, New York

Sponsored by the New York Water Environment Association

North Carolina

No Nominations

Sponsored by the North Carolina Water Environment Association

North Dakota

Megan Bladow

"Regional Rivers: Ecological Attributes and Natural Decontaminators"

Hankinson Public School

Hankinson, North Dakota

Sponsored by the North Dakota Water Environment Association

Ohio

Valerie Andrus

"Bioremediation of Parking Lot Run-off Water with Duckweed (Lemna sp. and Wolffia sp.) Phase III:
Environmental Fate Analysis of Zinc Over a Six Week Period"

Beuamont School

Cleveland Heights, Ohio

Sponsored by the Ohio Water Environment Association

Oklahoma

Molly Steen

"The Direct Effects of Increased Nutrient Levels on Aquatic Organisms a Bioassay Model of Cave Springs
Branch and Honey Creek"

Grove High School

Grove, Oklahoma

Sponsored by the Oklahoma Water Environment Association

Oregon

Kathryn VanderWeele

"Removal of Arsenic From Drinking Water by Water Hyacinths"

Oregon Episcopal School

Portland, Oregon

Sponsored by the Pacific Northwest Clean Water Association

Pennsylvania

Megan Conroy

"Acid Mine Drainage Remediation Year II"

Conroy Learning Center

Export, Pennsylvania

Sponsored by the Pennsylvania Water Environment Association

Rhode Island

No Nominations

Sponsored by the New England Water Environment Association

South Carolina

Jenny Labadorf

"Seeking the Source: A Longitudinal Study and Analyzation of the Reedy River Watershed in Greenville,
S.C. for Sources of Fecal Coliform Nonpoint Source Pollution"

Home School

Travelers Rest, South Carolina

Sponsored by the Water Environment Association of South Carolina

South Dakota

Kaitlynn Krack

"Hamlin County Watershed Analysis: Phase III"

Hamlin High School

Hayti, South Dakota

Sponsored by the South Dakota Water Environment Association

Tennessee

Christine Li

"Analysis of Macroinvertebrate Population and Diversity and Their Influence on Water Quality - Phase 3 -

A Watershed Study"

Cookeville High School

Cookeville, Tennessee

Sponsored by the Kentucky-Tennessee Water Environment Association

Texas

James Kucherka

"Wastewater Doesn't Have To Be A Waste"

Seguin High School

Seguin, Texas

Sponsored by the Water Environment Association of Texas

Utah

Natalie Hewlett

"A Comparison of Inversion and Snowfall pH Levels"

Weber High School

Pleasant View, Utah

Sponsored by the Water Environment Association of Utah

Vermont

Kevin White

"Zebra Mussel Extermination"

South Burlington High School

South Burlington, Vermont

Sponsored by the New England Water Environment Association

Virginia

Ryan Akrami, Matthew Karenbaue, and Daniel Saboe

"Fecal Matters: Exploring the Filtering Use of Feces"

Centreville High School

Clifton, Virginia

Sponsored by the Virginia Water Environment Association

Washington

Morgen Anyan

"Immobilization of Hazardous Materials Utilizing Gallionella sp, Klebsiella sp, and Desulfovibrio sp
Bacteria"

Selah High School

Selah, Washington

Sponsored by the Pacific Northwest Clean Water Association

West Virginia

Holly Temple

"Home Sweet Home: Can pH Affect the Search for It?"

Martinsburg High

Martinsburg, West Virginia

Sponsored by the West Virginia Water Environment Association

Wisconsin

Laura Jones

"Determining the Environmental Impact of Sodium Chloride from Road De-icing in Northern Areas"

University School of Milwaukee

Milwaukee, Wisconsin

Sponsored by the Central States Water Environment Association

Wyoming

Megan Kuper

"Water-Borne PAH Concentrations Associated With Fossil Fuel Production and Their Impact on Apoptosis-Related Proteins"

Greybull High School

Greybull, Wyoming

Sponsored by the Rocky Mountain Water Environment Association

Puerto Rico

Angélica Valdés

"Filtering Roof Rainwater Using Zeolites"

Southwestern Educational Society

Mayagüez, Puerto Rico

Sponsored by the Puerto Rico Water and Environment Association