

**United States 2006 State  
Stockholm Junior Water Prize Winners**

**Alabama**

Omar Ahmed

“Ammonium and Nitrate Removal from Simulated Contaminated Water using Aerobic and Anaerobic Bacteria”

Florence High School

Florence, Alabama

Sponsored by the Alabama Water Environment Association

**Alaska**

Alec Jemison

“Hang 10 Alaska”

West Anchorage High

Anchorage, Alaska

Sponsored by the Alaska Water Wastewater Management Association

**Arizona**

Alissa Riggs

“Water Quality on the Navajo Nation”

Rough Rock Community School

Chinle, Arizona

Sponsored by the Arizona Water and Pollution Control Association

**Arkansas**

Rachel Meserole

“What's in Your (Creek) Water? Are Bacteria Becoming More Resistant?”

Arkansas School for Mathematics, Sciences, and the Arts

Hot Springs, Arkansas

Sponsored by the Arkansas Water Environment Association

**California**

Swati Yamadala

“Sourcing and Quantification of Fecal Indicator Bacteria (FIB) in Aquatic Ecosystems: A Three Year Study”

Chadwick High School

City of Palos Verdes Estates, California

Sponsored by the California Water Environment Association

**Colorado**

Tyler Keck

“A Polymeric Treatment for Removal of Heavy Metal Contaminates from Water”

Monte Vista High School

Monte Vista, Colorado

Sponsored by the Rocky Mountain Water Environment Association

**Connecticut**

Maricate Conlon

“Impact of Chitin on Heavy Metal Contaminated Wastewater and Soil”

Newtown High School

Sandy Hook, Connecticut

Sponsored by the New England Water Environment Association &  
Connecticut Water Pollution Abatement Association

**Florida**

Yun Li

“Impact of Water Reclamation: An Analysis of Water Quality and the Growth, Morphology, and

Propagation of Rapid-cycling Brassica rapa”

Stanton College Preparatory High School

Jacksonville, Florida

Sponsored by the Florida Water Environment Association

**Georgia**

Sherrie Hall

“Radionuclides in the Miocene Aquifers of Coastal Georgia Phase II”

Cedar Shoals High School

Athens, Georgia

Sponsored by the Georgia Water and Pollution Control Association

**Hawaii**

Shayna Yatsushiro

“A study of Dissolved Oxygen in Kaelepulu Pond”

Kailua High School

Kailua, Hawaii

Sponsored by the Hawaii Water Environment Association

**Idaho**

No Nominations

Sponsored by the Pacific Northwest Clean Water Association

**Illinois**

Eva Feldman

“The Effect of River Bank Conditions on Aquatic Ecosystems”

Lincoln Park High School

Chicago, Illinois

Sponsored by the Illinois Water Environment Association

**Indiana**

Neeta Kamat

“The Ecotoxicological Effects of Ionic Liquids on Aquatic Life”

John Adams High School

South Bend, Indiana

Sponsored by the Indiana Water Environment Association

**Iowa**

Shala Hawes and Haley Burgess  
"The Levels of Nitrates and Phosphates in Freshwater Systems"  
Central Lee High School  
Donnellson, Iowa  
Sponsored by the Iowa Water Pollution Control Association

**Kansas**

Sameer Surampalli  
"Fate of Antibiotics in Anaerobic Swine Lagoons"  
Shawnee Mission Northwest High School  
Shawnee, Kansas  
Sponsored by the Kansas Water Environment Association

**Kentucky**

Kyle Hunninghake & Reginald Bentley  
"The Effect of Antibiotics on Aquatic Ecosystems"  
duPont Manual High School  
Louisville, Kentucky  
Sponsored by the Kentucky-Tennessee Water Environment Association

**Louisiana**

Elizabeth Lopez  
"Determination of the Capability to Use Pontederia Cordata To Monitor Trace Metal and Hydrocarbon Pollutants in Louisiana Wetlands To Aid in the Reduction of Coastal Erosion"  
East Jefferson High School  
Metairie, Louisiana  
Sponsored by the Louisiana Water Environment Association

**Maine**

Chloe Shields  
"A Trophic Study of Lake Environments and Soil Ecology"  
Greely High School  
Cumberland, Maine  
Sponsored by the New England Water Environment Association &  
Maine Wastewater Control Association

**Maryland**

Emily Brownlee  
"A Tale of Two Oysters - A Vital Management Issue for the Chesapeake Bay"  
Calvert High School  
Prince Frederick, Maryland  
Sponsored by the Chesapeake Water Environment Association

**Massachusetts**

Amanda Duggan  
"Bioremediation"

Upper Cape Cod Regional Technical School  
Bourne, Massachusetts

Sponsored by the New England Water Environment Association &  
Massachusetts Water Pollution Control Association

**Minnesota**

Robert Manduca

"There's Something in the Water: Nitrate Levels through the Seasons"  
Century High School  
Rochester, Minnesota

Sponsored by the Central States Water Environment Association

**Mississippi**

Heather Smith

"Imperiled Waterways - Conserving Sturgeon Fisheries During Dredging"  
St. Andrew's Episcopal School  
Ridgeland, Mississippi

Sponsored by the Mississippi Water Environment Association

**Missouri**

Amber Bryant

"Patching It Up: A Study of Estrogen Leaching into Water"  
Tuscumbia High School  
Tuscumbia, Missouri

Sponsored by the Missouri Water Environment Association

**Montana**

Emily Munday

"Mollusks in Decline: an ecological study of a rare freshwater mussel (*Margaritifera falcata*)"  
Butte High School  
Butte, Montana

Sponsored by the Montana Water Environment Association

**Nebraska**

Laura Johnson

"The Phytoremediation of Bio-Solids using *Lemna minor* and *Populus deltoides* x *Populus nigra*"  
Newman Grove Public School  
Newman Grove, Nebraska

Sponsored by the Nebraska Water Environment Association

**Nevada**

Lindsay Gilbertson

"Assessing Bioaccumulation of Waterborne Arsenic and Selenium in Plants from the Poaceae  
and Linaceae Families"  
Elko High School  
Elko, Nevada

Sponsored by the Nevada Water Environment Association

**New Jersey**

Michael Kreisel

“Quantitative Analysis of DEET and Triclosan in Local Tap Waters”

Woodbridge High

Woodbridge, New Jersey

Sponsored by the New Jersey Water Environment Association

**New Mexico**

Kendra Valdez

“Long Term Monitoring of the Rio San Jose Watershed”

Grants High School

Grants, New Mexico

Sponsored by the Rocky Mountain Water Environment Association

**New York**

Miguel Bustos

“Rescuing Our Natural Waters: Fighting Eutrophication Globally through the Electrical Attraction of Nitrate and Phosphate”

Uniondale High School

Uniondale, New York

Sponsored by the New York Water Environment Association

**North Dakota**

Drew Mac Donald

“The Effect Of Herbicide On Pond Organisms”

Valley High School

Hoople, North Dakota

Sponsored by the North Dakota Water Environment Association

**Ohio**

Stephanie Andrus

“What is the Effect of Phosphate Loading on the Algae Cladophora sp. in a Simulated Lake Erie Near Shore Environment Versus a Control? Phase II”

Beaumont School

Cleveland Heights, Ohio

Sponsored by the Ohio Water Environment Association

**Oklahoma**

Molly Steen

“Tributary Impact: Three Points of Interest. A field & laboratory study of Honey Creek and its tributary, Cave Springs Branch”

Grove High School

Grove, Oklahoma

Sponsored by the Oklahoma Water Environment Association

**Oregon**

Katie VanderWeele Snyder

“Removal of Arsenic From Drinking Water by Water Hyacinths (*Eichhornia crassipes*): Year II”

Oregon Episcopal School

Portland, Oregon

Sponsored by the Pacific Northwest Clean Water Association

**Pennsylvania**

Anastasia Roda

“Human Factor III: The Impact of a Boiling Water Nuclear Reactor On Its Intake and Discharge

Creeks in a Semi-Eutrophic Estuary”

Lancaster Catholic High School

Lancaster, Pennsylvania

Sponsored by the Pennsylvania Water Environment Association

**Puerto Rico**

Sara Justiniano

“Pyrodinium and Peridinium bahamense used as biosensors of water pollution”

Southwestern Educational Society Society

Mayaguez, Puerto Rico

Sponsored by the Puerto Rico Water & Environment Association

**South Carolina**

Yupeng Liu

“Effects of Salinity on the Growth and Toxin Production of a Harmful Algal Species, *Microcystis aeruginosa*”

Academic Magnet High School

North Charleston, South Carolina

Sponsored by the Water Environment Association of South Carolina

**Tennessee**

Ashley Boaz

“Against the Barrier”

Notre Dame High School

Chattanooga, Tennessee

Sponsored by the Kentucky-Tennessee Water Environment Association

**Texas**

Alex Burger

“Phytoremediation of Heavy Metals as Water Contaminants”

Academy of Science & Technology

The Woodlands, Texas

Sponsored by the Water Environment Association of Texas

**Utah**

Shannon Babb

“Deadly Waters: A Twelve Month Water Quality Study of a Newly Erupted Sulfur Spring and its Longitudinal Effect on Diamond Fork Creek ”

American Fork High School

American Fork, Utah

Sponsored by the Water Environment Association of Utah

**Vermont**

Cheng Cheng (Charles) Li  
"Water Quality Index: Potash Brook vs. Brown's River"  
South Burlington High School  
South Burlington, Vermont  
Sponsored by the New England Water Environment Association &  
Green Mountain Water Environment Association

**Virginia**

Matthew Karrenbauer, Ryan Akrami & Daniel Saboe  
"Fecal Matters II: An Exploration of the Filtering Capacity of Feces"  
Centreville High School  
Clifton, Virginia  
Sponsored by the Virginia Water Environment Association

**Washington**

Morgen Anyan  
"Immobilization and Recovery of Aquatic Metal Contaminants"  
Selah High School  
Selah, Washington  
Sponsored by the Pacific Northwest Clean Water Association

**West Virginia**

Kelydra Welcker  
"Quantification, Removal and Recovery of APFO from Contaminated Drinking Water With a  
Concomitant Endocrinological and Epidemiological Assessment"  
Parkersburg South High School  
Parkersburg, West Virginia  
Sponsored by the West Virginia Water Environment Association

**Wisconsin**

Megan O'Brien  
"Zebra Mussels vs Quagga Mussels: The survival in oxygen deficient conditions"  
Divine Savior  
Milwaukee, Wisconsin  
Sponsored by the Central States Water Environment Association

**Wyoming**

Tucker Hamilton  
"The Effect of Pressure on Water Freezing"  
Newcastle High School  
Newcastle, Wyoming  
Sponsored by the Rocky Mountain Water Environment Association