

**Environment and Natural Resources Trust Fund
2014 Proposals**

First Name	Last Name	Title	Organization	\$ Requested
Mark	Abrahamson	Brown Marmorated Stink Bug Monitoring and Biocontrol Evaluation	MN Department of Agriculture	\$266,024
Scott	Alexander	Rain Water Reuse and Valuation Investigation	U of MN	\$310,000
David	Andersen	Sandhill Crane Populations and Management in Minnesota	U of MN	\$306,904
Mark	Anderson	District Heating With Renewable Biomass at Camp Ripley	Minnesota Department of Military Affairs/Minnesota National Guard	\$1,970,000
William	Arnold	Water: Solar Driven Destruction of Pesticides, Pharmaceuticals, Contaminants	U of MN	\$291,000
William	Arnold	Antibiotics and Antibiotic Resistance Genes in Minnesota Lakes	U of MN	\$338,000
Brian	Aukema	Mountain Pine Beetle: Invasive Threat to Minnesotas Pines	U of MN	\$382,100
Robert	Backman	Red River "Living with a River" Interpretive Trail	River Keepers	\$190,185
Lawrence	Baker	Enhanced Street Sweeping to Restore Nutrient-Impaired Lakes	U of MN	\$474,536
Keith	Barker	Online Access to Minnesota's Biodiversity for Environmental Management	U of MN	\$342,428
Stephen	Bartell	Triclosan Occurrence and Bacterial Resistance in Minnesota Wastewater	Normandale Community College	\$51,992
John	Beckwith	Creating Foundations for Farmer Led Conservation Planning	Minnesota Association of Resource Conservation and Development Councils, Inc.	\$61,736
Rob	Bergh	Minnesota EV Trail: Solar Chargers for Electric Vehicles	MN DNR	\$250,000
Darcy	Berus	The Wolf At Our Door	International Wolf Center	\$123,672
Richard	Biske	Protecting the Best of the Best in Southeast	The Nature Conservancy	\$258,500
Peggy	Booth	SNA Acquisition, Restoration, Improvement & Citizen Engagement	MN DNR	\$3,951,870
Suzy	Boysen	Land Stewardship in Secondary Education	River Bend Nature Center	\$130,000
Kyle	Bozentko	Citizen Input on Silica Sand Mining	The Jefferson Center	\$99,672
Wiley	Buck	Restoring our Lands and Waters	Great River Greening	\$414,000
Monika	Chandler	Biosurveillance and Biocontrol of EAB - Phase 2	MN Department of Agriculture	\$628,100
Katy	Chayka	Expand the Minnesota Wildflowers Online Botanical Reference	MN Wildflowers Information	\$222,450
Laura	Cina	Creating a Statewide Solar Resource Inventory and Map	Minnesota Renewable Energy Society	\$287,000
Carl	Colwell	Connecting the Minnesota River Water Trail and Morton	City of Morton	\$198,200
Jeffrey	Corney	Making a Splash in Water Resources Education	U of MN	\$160,000
James	Cotner	Using CO2 and Drawdown to Manage Shallow Lakes	U of MN	\$452,000

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Joe	Courneya	Regional Aquatic Invasive Species Project	Red River Basin Commission	\$219,890
Tim	Cowdery	Measuring hydrologic benefits from Glacial Ridge habitat restoration	Red Lake Watershed District	\$168,500
Anthony	DAmato	Assess and Improve Ecological Health of Trust Lands	U of MN	\$514,395
Anthony	D'Amato	Mitigating Drought and Windstorm Impacts on Minnesota's Forests	U of MN	\$270,000
Susan	Damon	Long-Term Conservation Easement Stewardship Account	MN DNR	\$1,186,667
Gino	D'Angelo	Movements and Seasonal Habitat Use of Minnesota Elk	MN DNR	\$257,473
Mae	Davenport	Climate Readiness in Tourism-Dependent North Shore Communities	U of MN	\$279,185
Michael	Delong	River Management Strategy Before Asian Carp Invasion	Winona State University	\$279,868
Karl	DeWahl	Wastewater Facility Energy Conservation and Air Pollution Reduction	U of MN - MnTAP	\$208,616
Alan	Ek	Restoring Long-Lost Forest Data and Extending Ecological Monitoring	U of MN	\$196,000
Daniel	Engstrom	Sedimental Journey: Watershed-scale monitoring of BMP effectiveness	Science Museum of Minnesota - St. Croix Watershed Research Station	\$972,000
Sherry	Enzler	Achieving Clarity: Impacts of Agricultural Tiling and BMPs	U of MN	\$849,877
Sherry	Enzler	The Human Dimensions of Wolf Management	U of MN	\$144,099
Leslie	Everett	Restoring Aquatic Habitat by Reducing Sediment from Streambanks	U of MN - Water Resources Center	\$276,000
Jan	Falteseik	State Spring Inventory for Resource Management and Protection	MN DNR	\$875,746
Jacques	Finlay	Remote Sensing Characterization to Improve Water Quality Monitoring	U of MN	\$207,000
Hank	Fisher	Reducing Dioxin Emissions Grant Program	MN Pollution Control Agency	\$620,000
James	Forester	Impacts of Forest Quality on Declining Minnesota Moose	U of MN	\$394,496
Lana	Fralich	Victus Farms: Expanding in New Directions	Silver Bay, MN	\$356,000
Tracy	Fredin	Waters to the Sea: Rivers of Minnesota	Hamline University - Center for Global Environmental Education	\$451,494
Charles	Fritz	WQExPertApp	International Water Institute	\$882,500
Charles	Gantzer	Quantifying Acrylamide Detoxification in Frac Sand Washwater	Barr Engineering Company	\$174,560
Jason	Garms	Native Prairie Stewardship & Prairie Bank Easement Acquisition	MN DNR	\$5,153,680
Ralph	Garono	Will Superior Sediment Plumes Produce Harmful Algal Blooms?	U of MN Duluth - Large Lakes Observatory	\$413,443
Alex	Gehrig	Reducing Lake Quality Impairments through Citizen Action	Freshwater Society	\$59,375
James	Gibson	MN Agricultural Interpretive Center Energy Education Project	MN Ag Interpretive Center - Farmamerica	\$160,000

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Jenny	Gieseke	Minnesota Conservation Apprenticeship Academy	BWSR	\$392,000
Amanda	Graeber	Contract Management	MN DNR	\$135,000
Elise	Griffin	Eco Educations Environmental Service-Learning Program	Eco Education	\$90,000
Timothy	Griffis	Wind Energy from Gravity Waves and Nocturnal Jetstreams	U of MN	\$191,779
Shalini	Gupta	Human Health, High Risk Populations and Climate Change	Center for Earth, Energy and Democracy	\$225,000
Patrick	Hamilton	River Lab: Engaging Minnesotans in Water Quality Issues	Science Museum of Minnesota	\$730,747
Kipp	Hanson	Community Green Space Mapping Project	Project Get Outdoors, Inc.	\$15,000
Mark	Hanson	Shallow Lakes: Assessing Quality and Predicting Future Change	MN DNR	\$433,223
Michele	Hanson	Building Bridges to a Diverse Natural Resources Community	MN DNR	\$1,100,000
Jane	Harper	3,500-Foot Shoreland Acquisition on St. Croix River	Washington County	\$2,500,000
Lynn	Hayes	Minnesota Farmers' and Landowners' Guide to Frac Sand Mining	Farmers' Legal Action Group	\$142,230
Richard	Hemmingssen	Developing Minnesotas Clean Energy Carbon Neutral BioEconomy	U of MN, Dept. of Bioproducts and Biosystems Engineering	\$195,950
Carrol	Henderson	Contaminants in Minnesotas Loons and Pelicans: Phase 2	MN DNR	\$259,936
Brendan	Henehan	TV Documentary: The Great Mille Lacs Walleye Mystery	Twin Cities Public Television	\$102,372
Kevin	Hennessy	Eliminating Sulfur from On-Farm Anaerobic Digester Emissions	MN Department of Agriculture	\$300,000
Calder	Hibbard	Minnesotas Forest Invasives: Threats, Assessment and Recommendations	Minnesota Forest Resources Council	\$308,000
Randall	Hicks	Bacterial Biodiversity for Sustainable St. Louis River Estuary	U of MN - Duluth	\$359,849
Cheryal	Hills	Region Five Development Commissions Sustainable Communities Initiative	Region Five Development Commission	\$971,080
Howard	Hoganson	Strategies For Restoring Pine in Minnesota's Forests	U of MN	\$356,289
Andy	Holdsworth	Precision Conservation Models - Applications to Working Forest Lands	MN DNR	\$377,000
Matt	Holland	Minnesota Pollinator Partnership	Pheasants Forever	\$104,600
George	Host	Quality of Life under Climate Change in Minnesota	U of MN - NRRRI	\$493,784
Bo	Hu	Next Generation Septic TankSystems	U of MN	\$258,810
George	Hudak	Silica/Frac Sand Mining Air/Water Quality Environmental Impacts	U of MN - NRRRI	\$607,924
Rich	Huelskamp	CREED - Energy Education Project	CREED (Center for Renewable Energy Education and Domonstration)	\$148,500
Jay	Huseby	Wolf Research Red Lake Reservation (5,500 square miles)	Red Lake Department of Natural Resources	\$404,535

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Kurt	Illig	Estrogen exposure analyses in Minnesotas Shallow Lake Wildlife	St. Thomas Univesity	\$136,000
Kent	Jacobson	Increasing Habitat and Ecosystem Benefits through Forest management	MN DNR - Div of Forestry	\$268,600
Bart	Johnson	Itasca Boiler/Woody Biomass Utilization Project	Itasca Community College	\$1,035,100
Lucinda	Johnson	Protecting North Shore Trout Steams for the Future	U of MN - NRRI	\$361,758
Margaret	Johnson	Middle Fork Crow River Sediment and Nutrient Reduction	Middle Fork Crow River Watershed District	\$320,800
Thomas	Kalahar	Protection of Granite Rock Outcrop Ecosystem	Renville County Soil & Water Conservation District	\$4,216,275
Allan	Kean	Drainage Records Modernization and Statewide GIS Database	BWSR	\$730,000
Cathy	Kindem	Trailblazers: District 196 Students Ensure Sustainable School Environments	District 196 - Rosemount-Apple Valley-Eagan	\$1,876,026
Joseph	Knight	Mapping Landscapes for Better Land and Water Management	U of MN	\$378,718
Ken	Kornack	Minnesota Zoo Site Restoration and Native Wildlife Study	Minnesota Zoological Garden	\$477,200
Jessica	Kozarek	Conserving Minnesotas Freshwater Mussel Legacy: Quantifying Habitat	U of MN	\$356,843
Vera	Krischik	Protecting Bees by Understanding Systemic Insecticides	U of MN	\$326,869
Dale	Krystosek	Northeast Minnesota White Cedar Restoration, Phase 2	BWSR	\$335,800
Gregory	Lais	Urban Environmental Education Engaging Students in Local Resources	Wilderness Inquiry	\$1,093,000
Harold	Langowski	City of Ely Joint Biomass District Heating Project	City of Ely	\$150,000
Timothy	LaPara	Does Triclosan Create Super Bugs During Wastewater Treatment	U of MN	\$382,000
Diane	Larson	Impact of Grazing on Native Plants and Pollinators	U.S. Geological Survey	\$465,457
Mike	Larson	Moose Decline and Air Temperatures in Northeastern Minnesota	MN DNR	\$743,648
Jack	Lauer	Southwest Minnesota Asian Carp Watershed Deterrents	MN DNR	\$3,268,800
Zea	Leguizamon Grant	Urban Youth-Led Ecological Regeneration Partnership	Ce Tempoxcalli	\$208,200
Clarence	Lehman	New Data Directions for Understanding Our Natural Systems	U of MN	\$253,000
Megan	Lennon	Increasing Cover Crop Adoption on Working Lands	BWSR	\$162,500
Tom	Levar	Dredged Sediment for Forest Restoration on Unproductive Minelands	U of MN - NRRI	\$495,585
Ann	Lewandowski	Protecting Water Quality in Northeast Minnesota Mining Areas	U of MN	\$406,000
Tom	Lewanski	Protect, Restore and Enhance Significant Watershed Habitat.	Friends of the Mississippi River	\$204,000
Jeff	Lewis	Nutrient Capture Through Water Management and Biomass Harvesting	Red River Basin Commission	\$478,500

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Donald	Liu	Integrating Environmental Education in Grade 3-12 Economics Curriculum	Minnesota Council on Economic Education	\$96,816
David	Lorenz	Watershed Water Budgets for Managing Minnesota's Water	U.S. Geological Survey	\$129,300
Gerry	Maciej	Restoring Groundwater and Trout Habitat Through Irrigation Efficiencies	Benton County Soil and Water Conservation District	\$490,649
Rylee	Main	Lake Pepin Preservation: Enhancing Local Water Management Capacity	Lake Pepin Legacy Alliance	\$109,275
Jim	Manolis	Building Habitat and Watershed Resilience to Climate Change	MN DNR	\$510,000
Robert	Manzoline	Mesabi Trail Development - Soudan to Ely Segment	St. Louis & Lake Counties Regional Railroad Authority	\$1,000,000
Mark	Martell	Analyzing and sharing the Minnesota Breeding Bird Atlas	Audubon Minnesota	\$386,831
Dalma	Martinovic	Pharmaceuticals and Nitrogen Interact to Harm MN Fish/Ecosystems?	St. Thomas University	\$269,000
Katsumi	Matsumoto	Characterizing Urban Metabolism to Help Manage Carbon Emissions	U of MN	\$189,523
Jake	McAlpine	Reduction of Carbon Emissions in Residential Buildings	Sustainable Resources Center, Inc.	\$500,000
Jennifer	McGuire	Does Water Contaminated with Oil Affect Your Hormones?	St. Thomas University	\$233,089
Allen	Mensingher	Bioacoustics to Detect, Deter and Eliminate Flying Carp	U of MN Duluth	\$262,907
Linda	Meschke	Demonstrating Farmer Led Conservation in Elm Creek Watershed	Rural Advantage	\$460,360
John	Mesko	Improving St. Croix River Basin Water Quality	Sustainable Farming Association of MN	\$304,000
Dylan	Millet	Minnesotas Methane Emissions: Potential Energy and Climate Benefits	U of MN	\$362,680
Peter	Moe	Bee Discovery Center at the Minnesota Landscape Arboretum	U of MN, Landscape Arboretum	\$615,279
Megan	Moeller	Testing Triggers for Adopting Sustainable Water Practices	City of Rochester	\$317,000
Ron	Moen	Improving Stream Trout Habitat by Beaver Management	U of MN - NRRRI	\$219,755
Ron	Moen	Improving Wildlife Habitat Analysis with Value-Added LiDAR	U of MN - NRRRI	\$230,428
Bruce	Monson	Identifying Causes of Exceptionally High Mercury in Fish	MN Pollution Control Agency	\$2,700,869
Rebecca	Montgomery	Assessing Species Vulnerability to Climate Change Using Phenology	U of MN	\$189,845
Paul	Moss	Building Environmental and Community Resilience to Extreme Weather	MN Pollution Control Agency	\$846,000
Kimberly	Musser	Minnesota River Basin Water Quality Success Stories	Minnesota State University, Mankato - Water Resources Center	\$135,871
Edward	Nater	Determining Climate Change Effects on Mercury in Peatlands	U of MN	\$442,779
Jon	Nelson	Redesigned Updating of State and County Forest Inventories	MN DNR	\$1,794,640

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First Name	Last Name	Title	Organization	\$ Requested
Kirsten	Nielsen	Emerging Threats to Minnesotas Wildlife	U of MN	\$874,447
Gerda	Nordquist	Wild Bee Surveys in Prairie-Grassland Habitats	MN DNR	\$370,736
Paige	Novak	Protecting Bacteria from Contaminants to Preserve Water Quality	U of MN	\$279,000
Paige	Novak	Wastewater Estrogen: Removal Options, Fish Abundance, and Cost	U of MN	\$516,000
Dave	Pederson	Youth-led Sustainability Initiatives in 40 Greater MN Communities	Prairie Woods Environmental Learning Center	\$397,000
Lee	Penn	Solar Cell Materials from Sulfur and Common Metals	U of MN	\$494,092
Donald	Pereira	Structured Decision Making for Mille Lacs Fisheries Management	MN DNR	\$299,000
Rich	Perrine	VanderWert Scientific and Natural Area and County Park	Fox Lake Conservation League, Inc.	\$455,000
Ann	Pierce	Accelerated Effort to Understand and Control Zebra Mussels	MN DNR	\$5,180,800
Steve	Polasky	Clean Water Benefits Tool for Smarter Resource Investments	U of MN	\$347,253
Julia	Ponder	Raptor Lab: Online and Outdoors!	U of MN	\$186,676
Kristen	Poppleton	Minnesota Stories in a Changing Climate	Will Steger Foundation	\$413,860
Michael	Reese	Transitioning Minnesota Farms to Local Energy	U of MN	\$1,049,992
Peter	Reich	Forecasting Minnesotas Future Forests	U of MN	\$642,764
Jennifer	Ringold	Ecological Management Plans - Mississippi River Watershed and Minneapolis	Minneapolis Park and Recreation Board	\$228,800
Patrick	Rivers	Accelerated Reinvest in Minnesota Critical Habitat Matching Program	MN DNR	\$2,017,920
Stacie	Robinson	Minnesota Deers Risk of Invading Epizootic Hemorrhagic Disease	U of MN - College of Veterinary Medicine	\$135,847
Roger	Ruan	Demonstrating Innovative Technologies to Fully Utilize Wastewater Resources	U of MN	\$2,041,626
Erik	Runquist	Prairie Butterfly Conservation, Research and Breeding Program	Minnesota Zoological Garden	\$638,439
Deb	Ryun	St. Croix Priorities and Conservation Action Plans	St. Croix River Associaion	\$230,000
Martin	Saar	Innovative Groundwater-Enhanced Geothermal Heat Pump Study	U of MN	\$196,000
Michael	Sadowsky	Sources of Microbial Pollution in the Upper Mississippi River	U of MN	\$690,972
Eli	Sagor	Forest Wildlife and Climate Change Research and Outreach	U of MN	\$308,000
Patrick	Schoff	Predicting Smallmouth Bass Exposure to Endocrine Active Compounds	U of MN - NRRI	\$241,073
Dan	Shaw	Increasing the Resiliency of Conservation Projects in Minnesota	BWSR	\$166,710
Ruth	Shaw	Healthy Prairies: Seed Storage, Beneficial Microbes, and Adaptation	U of MN	\$695,000

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First Name	Last Name	Title	Organization	\$ Requested
Lian	Shen	Simulating Surface Flows to Inform Water Resources Management	U of MN - St. Anthony Falls Laboratory	\$336,000
William	Sierks	GreenStep Schools Program: School-based Environmental Education and Stewardship	MN Pollution Control Agency	\$900,000
Robert	Slesak	Disseminating Sustainable Forest Management Guidelines for Resource Protection	Minneosta Forest Resources Council	\$112,000
Peter	Sorensen	Blocking Asian Carp by Optimizing Lock and Dams	U of MN	\$463,449
Scott	Sparlin	Minnesota River Community Clean-Ups for Water Quality	Friends of the Minnesota Valley	\$85,100
Marla	Spivak	Achieving Pollinator Landscapes with the Greatest Multiple Benefits	U of MN	\$1,714,040
James	Stark	Protecting the State's Confined Drinking-Water Aquifers	U. S. Geological Survey	\$394,000
Arne	Stefferdud	Metropolitan Regional Park System Acquisition--Phase 3	Metropolitan Council	\$2,250,000
Anne	Stevenson	Engaging Youth With Nature Through Mobile Technology	U of MN	\$362,000
Otto	Strack	Small-scale Groundwater sustainability assessment	U of MN	\$118,214
Tom	Sullivan	Wolf-Livestock Conflict Reduction Using Cost-Effective Non-Lethal Prevention	Howling For Wolves	\$417,250
Daniel	Svedarsky	Cattail Management for Wetland Wildlife and Bioenergy Potential	U of MN	\$74,600
Lawrence	Svien	Demonstration Water Quality Protection Practices on Zumbro River	Zumbro Watershed Partnership	\$413,934
Joel	Tallaksen	Life Cycle Energy of Renewably Produced Nitrogen Fertilizers	U of MN	\$512,732
Brooke	Tapp	Duluth Post-Flood Trout Stream Riparian Habitat Restoration	Community Action Duluth	\$250,000
Michael	Tenney	Achieve Conservation Objectives through Grazing - Monitor Response	MN DNR	\$1,416,480
Steve	Thomas	Developing Building Deconstruction into a Sustainable Enterprise	Better Futures Minnesota	\$150,000
Anne	Timm	Chemical Removal from Minnesota Lakes by Aquatic Plants	USDA Forest Service, Northern Research Station	\$346,334
Robert	Tomlinson	Strategic Land Acquisition, Accelerating Sales and Exchanges	MN DNR	\$500,000
Ulrike	Tschirner	Greenhouse Gas Reduction through Forest Based Bio-Chemicals	U of MN	\$199,280
Kenneth	Valentas	Removing Phosphorous and Endocrine Disruptors from our Waterways	U of MN	\$493,000
Aaron	Vande Linde	Preserving Old Growth Forests on School Trust Lands	MN DNR	\$2,082,104
Dana	Vanderbosch	State Parks and Trails Land Acquisition	MN DNR	\$2,200,000
Paul	Venturelli	Better Trout Fishing Through Better Stream Restoration Planning	U of MN	\$615,464
Paul	Venturelli	A Smartphone Application to Benefit Anglers and Fish	U of MN	\$138,229
Lawrence	Wackett	Environmentally-Friendly Frac Sand Water Cleanup	U of MN	\$812,428

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Neil	Wilmot	Economic Impact of Frac Sand Mining on Minnesota	Labovitz School of Business and Economics	\$39,967
Bruce	Wilson	Evaluating Clean Water Legacy: Has the Water Improved?	U of MN	\$388,500
Jenny	Winkelman	Reducing Salt Pollution Through Winter Maintenance Training	Mississippi Watershed Management Organization	\$415,900
Brian	Winter	Invasive Species Control in Grassland Habitats	The Nature Conservancy	\$892,000
Gary	Wyatt	Innovative Technology to Seed Plants on Streambanks	U of MN	\$189,000
Donald	Wyse	Developing Forever Green Crops for Minnesotas Agricultural Landscapes	U of MN	\$847,900
Dale	Yerger	Solar PV at Minnesotas Residential Environmental Learning Centers	Eagle Bluff, Wolf Ridge, Deep Portage , Long Lake , Audubon Center of the Northwoods, Laurentian ELC	\$150,000
Diomy	Zamora	Maintaining Expiring CRP Land Benefits Using Integrative Cropping	U of MN	\$467,000
Darrick	Zarling	Biomass Gasification to Produce Electricity for CO2 Reduction	U of MN	\$175,000
Russ	Zastrow	Anoka Rum River Dam Asian Carp Barrier Improvements	City of Anoka	\$150,000
Jun	Zhu	Clean Water/Renewable Energy from Beet Waste/Manure	U of MN	\$403,685
				\$111,435,013