

**Environment and Natural Resources Trust Fund
Final Reports for 2017-2018**

Year	Subd.	Title	Organization	First Name	Last Name	Funding Amount	Final Received
FINAL REPORTS ENDING JUNE 30, 2016							
M.L. 2013, Chp. 52, Sec. 2							
2013	04g	Moose Habitat Restoration in Northeastern Minnesota	U of MN - Duluth NRRI	Ron	Moen	\$ 200,000	yes
						TOTAL	\$ 200,000
FINAL REPORTS ENDING JUNE 30, 2017 (71 Final Reports)							
M.L. 2011, 1st Special Session, Chp. 2, Art. 3, Sec. 2							
2011	04d	Regional Park, Trail, and Connections Acquisition and Development Grants	MN DNR	Laura	Preus	\$ 2,000,000	Yes
M.L. 2013, Chp. 52, Sec. 2							
2013	03c	County Geologic Atlases - Part B	MN DNR	Jim	Berg	\$ 1,200,000	Yes
2013	04d3.3	MeCC VII - 3.3: Priority Expansion of Minnesota Valley National Wildlife Refuge	Minnesota Valley National Wildlife Refuge Trust Inc	Deborah	Loon	\$ 400,000	Yes
2013	04i	Conservation Grazing to Improve Wildlife Habitat on Wildlife Management Areas	MN DNR	Greg	Hoch	\$ 600,000	Yes
2013	05b	Assessment of Natural Copper-Nickel Bedrocks on Water Quality	U of MN - NRRI	Stephen	Monson Geerts	\$ 585,000	Yes
2013	05e	Measuring Hydrologic Benefits from Glacial Ridge Habitat Restoration	Red Lake Watershed District	Myron	Jesme	\$ 400,000	Yes
2013	05f	Evaluation of Lake Superior Water Quality Health	U of MN - Duluth	Erik	Brown	\$ 600,000	Yes
2013	06a-02	AIS Research Center Sub-Project 02: Delaying the Spread of AIS: Monitoring the Abundance and Distribution of AIS Using New Molecular Tools so Techniques to Delay Their Spread can be Implemented	U of MN - AIS Center	Michael	Sadowsky	\$ 602,580	Yes
2013	06a-04	AIS Research Center Sub-Project 04: Common carp management using biocontrol and toxins	U of MN - AIS Center	Przemyslw	Bajer	\$ 413,247	Yes
2013	06a-05	AIS Research Center Sub-Project 05: Reducing and Controlling AIS: Developing and Evaluating New Techniques to Selectively Control Invasive Plants	U of MN - AIS Center	Ray	Newman	\$ 214,996	Yes
2013	06a-06	AIS Research Center Sub-Project 06: Determining Heterosporosis Threats to Inform Prevention, Management, and Controls	U of MN - AIS Center	Paul	Venturelli	\$ 111,889	Yes
2013	06a-11	AIS Research Center Sub-Project 11: Reducing and controlling AIS: Risk analysis to identify AIS control priorities and methods - Phase 2: Risk Analysis	U of MN - AIS Center	David	Andow	\$ 126,676	Yes
2013	06cA	Improving Emerald Ash Borer Detection Efficacy for Control	Minnesota Department of Agriculture	Mark	Abrahamson	\$ 240,000	Yes
2013	06cB	Improving Emerald Ash Borer Detection Efficacy for Control	U of MN	Brian	Aukema	\$ 360,000	Yes

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2013	06g	Controlling Terrestrial Invasive Plants with Grazing Animals	Hiawatha Valley Resource Conservation & Development, Inc.	John	Beckwith	\$ 52,000	Yes
M.L. 2014, Chp. 226, Sec. 2							
2014	03a	Solar Driven Destruction of Pesticides, Pharmaceuticals, Contaminants in Water	U of MN	William	Arnold	\$ 291,000	Yes
2014	03b	Methods to Protect Beneficial Bacteria from Contaminants to Preserve Water Quality	U of MN	Paige	Novak	\$ 279,000	Yes
2014	03c	Triclosan Impacts on Wastewater Treatment	U of MN	Timothy	LaPara	\$ 380,000	Yes
2014	03e	Antibiotics and Antibiotic Resistance Genes in Minnesota Lakes	U of MN	William	Arnold	\$ 300,000	Yes
2014	03f	Impacts of Estrogen Exposure on Minnesota's Shallow Lake Wildlife	St. Thomas University	Kurt	Illig	\$ 136,000	Yes
2014	03g	Watershed-Scale Monitoring of Long-Term Best Management Practice Effectiveness	Science Museum of Minnesota	Daniel	Engstrom	\$ 900,000	Yes
2014	03h	Protection of State's Confined Drinking Water Aquifers	US Geological Survey	Jared	Trost	\$ 394,000	Yes
2014	03i	Watershed Water Budgets for Managing Minnesota's Groundwater	US Geological Survey	Erik	Smith	\$ 129,000	Yes
2014	03j	Identifying Causes of Exceptionally High Mercury in Fish	Minnesota Pollution Control Agency	Bruce	Monson	\$ 743,000	Yes
2014	03k	Reducing Lake Quality Impairments through Citizen Action	Freshwater Society	Jen	Kader	\$ 59,000	Yes
2014	03l	Rainwater Reuse and Valuation Investigation	U of MN	Scott	Alexander	\$ 300,000	Yes
2014	03m	Measuring Hydrologic Benefits from Glacial Ridge Habitat Restoration	Red Lake Watershed District	Myron	Jesme	\$ 168,000	Yes
2014	04a	Blocking Bighead, Silver, and Other Invasive Carp by Optimizing Lock and Dams	U of MN	Peter	Sorensen	\$ 854,000	Yes
2014	04d	Biosurveillance and Biocontrol of Emerald Ash Borer - Phase 2	Minnesota Department of Agriculture	Monika	Chandler	\$ 447,000	Yes
2014	04e1	Mountain Pine Beetle Invasive Threat to Minnesota's Pines	U of MN	Brian	Aukema	\$ 175,000	Yes
2014	04e2	Mountain Pine Beetle Invasive Threat to Minnesota's Pines	Minnesota Department of Agriculture	Mark	Abrahamson	\$ 75,000	Yes
2014	04f2	Brown Marmorated Stink Bug Monitoring and Biocontrol Evaluation	Minnesota Department of Agriculture	Mark	Abrahamson	\$ 99,000	Yes
2014	05a	Update Statewide Land Cover Use Map	U of MN	Joseph	Knight	\$ 300,000	Yes
2014	05b	State Spring Inventory for Resource Management and Protection	MN DNR	Jim	Berg	\$ 200,000	Yes
2014	05c	Drainage Records Modernization and Statewide Geographic Information System Database	Board of Water and Soil Resources	Tim	Gillette	\$ 230,000	Yes
2014	05e	Assessing Species Vulnerability to Climate Change Using Phenology	U of MN	Rebecca	Montgomery	\$ 175,000	Yes
2014	05f	Minnesota Breeding Bird Atlas - Final Phase	Audubon Minnesota	Lee	Pfannmuller	\$ 300,000	Yes

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2014	05h	Sandhill Crane Populations and Management in Minnesota	U of MN	David	Andersen	\$ 250,000	Yes
2014	05j1	Imperiled Prairie Butterfly Conservation, Research and Breeding Program	Minnesota Zoological Garden	Erik	Runquist	\$ 380,000	Yes
2014	05j2	Imperiled Prairie Butterfly Conservation, Research and Breeding Program	MN DNR	Robert	Dana	\$ 245,000	Yes
2014	05l	Impacts of Forest Quality on Declining Minnesota Moose	U of MN	James	Forester	\$ 300,000	Yes
2014	05m	Moose Decline and Air Temperatures in Northeastern Minnesota	MN DNR	Mike	Larson	\$ 600,000	Yes
2014	05n	Expansion of Minnesota Wildflowers Online Botanical Reference	MN Wildflowers Information	Katy	Chayka	\$ 150,000	Yes
2014	06b	Understanding Systemic Insecticides as Protection Strategy for Bees	U of MN	Vera	Krischik	\$ 326,000	Yes
2014	06c	Prairie Sustainability through Seed Storage, Beneficial Microbes, and Adaptation	U of MN	Ruth	Shaw	\$ 600,000	Yes
2014	06d	Northeast Minnesota White Cedar Restoration - Phase 2	Board of Water and Soil Resources	Dale	Krystosek	\$ 335,000	Yes
2014	06e	Southeast Minnesota Watershed Protection Plan	The Nature Conservancy	Richard	Biske	\$ 200,000	Yes
2014	06f	Upland and Shoreline Restoration in Greater Metropolitan Area	Great River Greening	Wiley	Buck	\$ 300,000	Yes
2014	06g	Prairie, Forest, and Savanna Restoration in Greater Metropolitan Area	Friends of the Mississippi River	Tom	Lewanski	\$ 200,000	Yes
2014	07a	Scientific and Natural Area Acquisition, Restoration, Improvement and Citizen Engagement	MN DNR	Peggy	Booth	\$ 2,540,000	Yes
2014	07f	Minnesota River Water Trailhead and Landing in Morton	MN Valley History Learning Ctr	Ted	Suss	\$ 198,000	Yes
2014	08a	Solar Cell Materials from Sulfur and Common Metals	U of MN	Lee	Penn	\$ 494,000	Yes
2014	08b	Innovative Groundwater-Enhanced Geothermal Heat Pump Study	U of MN	Martin	Saar	\$ 196,000	Yes
2014	08c	Demonstrating Innovative Technologies to Fully Utilize Wastewater Resources	U of MN	Roger	Ruan	\$ 1,000,000	Yes
2014	08d	Transitioning Minnesota Farms to Local Energy	U of MN	Mike	Reese	\$ 500,000	Yes
2014	08e	Life Cycle Energy of Renewably Produced Nitrogen Fertilizers	U of MN	Joel	Tallaksen	\$ 250,000	Yes
2014	08f	Clean Water and Renewable Energy from Beet Processing Wastewater and Manure	U of MN	Shaobo	Deng	\$ 400,000	Yes
2014	08g	Next Generation Large-Scale Septic Tank Systems	U of MN	Bo	Hu	\$ 258,000	Yes
2014	09a	Minnesota Conservation Apprenticeship Academy	Board of Water and Soil Resources	Jenny	Gieseke	\$ 392,000	Yes
2014	09c	Urban Environmental Education Engaging Students in Local Resources	Wilderness Inquiry	Meg	Krueger	\$ 1,093,000	Yes
2014	09d1	Diversifying Involvement in the Natural Resources Community	MN DNR	Gina	Bonsignore	\$ 416,000	Yes

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2014	09d2	Diversifying Involvement in the Natural Resources Community	U of MN	Ray	Newman	\$ 84,000	Yes
2014	09g	Minnesota Pollinator Partnership	Pheasants Forever Inc	Drew	Larson	\$ 100,000	Yes
M.L. 2015, Chp. 76, Sec. 2							
2015	03c	Minnesota Biological Survey	MN DNR	Bruce	Carlson	\$ 2,450,000	Yes
2015	03j	Assessing Contaminants in Minnesota Loons and Pelicans - Phase III	MN DNR	Carrol	Henderson	\$ 141,000	Yes
2015	03n	Digitization of Historic Gullion Ruffed Grouse Research	Central Lakes College	Kent	Montgomery	\$ 75,000	Yes
2015	05d	Students Engaging Local Watersheds Using Mobile Technologies	Twin Cities Public Television	Joan	Freese	\$ 147,000	Yes
2015	05e	Mississippi River Water Journey Camps	U of MN	Beth	Mercer-Taylor	\$ 25,000	Yes
2015	07b	Reducing Emissions from Open Burning through Biomass Gasification	U of MN - Morris	William	Northrop	\$ 268,000	Yes
2015	08k	Redwood and Renville Counties Outdoor Recreation and Conservation Master Plan	Redwood County and Renville County	Scott	Refsland	\$ 75,000	Yes
2015	09h	Metro Conservation Corridors Phase VIII - Wildlife Management Area Acquisition	MN DNR	Patrick	Rivers	\$ 400,000	Yes
2015	11b	Contract Agreement Reimbursement	MN DNR	Katherine	Sherman-Hoehn	\$ 135,000	Yes
					TOTAL	\$ 30,363,388	
FINAL REPORTS ENDING JUNE 30, 2018 (45 Final Reports)							
M.L. 2012, Chp. 264, Art. 4, Sec. 2							
2012	Sec. 03	Aquatic Invasive Species Cooperative Research Center	U of MN - AIS Center	Peter	Sorensen	\$ 2,000,000	Yes
M.L. 2013, Chp. 52, Sec. 2							
2013	06a-13	AIS Research Center Sub-Project 13: Eco-Epidemiological Model to Assess AIS Management	U of MN - MAISRC	Nicholas	Phelps	\$ 215,000	Yes
M.L. 2014, Chp. 226, Sec. 2							
2014	03d	Evaluation of Wastewater Nitrogen and Estrogen Treatment Options	U of MN	Paige	Novak	\$ 500,000	Yes
2014	04b	Bioacoustics to Detect, Deter and Eliminate Silver Carp	U of MN - Duluth	Allen	Mensingher	\$ 262,000	Yes
2014	04f1	Brown Marmorated Stink Bug Monitoring and Biocontrol Evaluation	U of MN	Robert	Koch	\$ 167,000	Yes
2014	05k	Conserving Minnesota's Native Freshwater Mussels	U of MN	Jessica	Kozarek	\$ 350,000	Yes
2014	06h	Nutrient Capture Through Water Management and Biomass Harvesting	Red River Basin Commission	Julie	Goehring	\$ 300,000	Yes
2014	07e	Martin County Park and Natural Area Acquisition	Fox Lake Conservation League, Inc.	Rich	Perrine	\$ 435,000	Yes
M.L. 2015, Chp. 76, Sec. 2							

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2015	03a	County Geologic Atlases - Part A	U of MN - MN Geological Survey	Dale	Setterholm	\$ 2,040,000	Yes
2015	03d	Minnesota Biodiversity Atlas for Enhanced Natural Resource Management	U of MN - Bell Museum of Natural History	Keith	Barker	\$ 340,000	Yes
2015	03e	Updating the National Wetland Inventory for Minnesota - Phase V	MN DNR	Steve	Kloiber	\$ 1,500,000	Yes
2015	03f	Creating a Statewide Wetland Bird Survey	Audubon Minnesota	Kristin	Hall	\$ 146,000	Yes
2015	03h	Reintroduction and Interpretation of Bison in Minnesota State Parks	MN DNR	Edward	Quinn	\$ 600,000	Yes
2015	03i	Endangered Bats, White-Nose Syndrome, and Forest Habitat	MN DNR	Richard	Baker	\$ 1,250,000	Yes
2015	03k	Movement and Seasonal Habitat Use of Minnesota Elk	MN DNR	Lou	Cornicelli	\$ 200,000	Extension granted to end of Dec.
2015	03l	Genetic and Camera Techniques to Estimate Carnivore Populations	U of MN - Duluth NRRI	Ron	Moen	\$ 200,000	yes
2015	03o	Effects of Grazing Versus Fire for Prairie Management	U of MN - AIS Center	Susan	Galatowitsch	\$ 414,000	Yes
2015	03q	Foundational Dataset Characterizing Historic Forest Disturbance Impacts	U of MN	Michael	Falkowski	\$ 200,000	Yes
2015	03r	Hydrologic Effects of Contemporary Forest Practices in Minnesota	U of MN	Diana	Karwan	\$ 150,000	Yes
2015	03s	Habitat Mitigation for Goblin Fern Conservation	Leech Lake Band of Ojibwe	Bobby	Henderson	\$ 61,000	Yes
2015	04b	Biofilm Technology for Water Nutrient Removal	U of MN	Bo	Hu	\$ 281,000	Yes
2015	04c	Biological Consequences of Septic Pollution in Minnesota Lakes	St. Cloud State University	Heiko	Schoenfuss	\$ 364,000	Yes
2015	04d	Preventing Phosphorous from Entering Water Resources through Drain Tiles	U of MN	Kenneth	Valentas	\$ 505,000	Yes
2015	04e	Southeast Minnesota Cover Crop and Soil Health Initiatives	Board of Water and Soil Resources	Matt	Drewitz	\$ 253,000	Yes
2015	04i	Shoreview Water Consumption and Groundwater Awareness Project	City of Shoreview	Mark	Maloney	\$ 54,000	Yes
2015	05b	Connecting Students with Watersheds through Hands-On Learning	Minnesota Trout Unlimited	John	Lenczewski	\$ 400,000	Yes
2015	05c	Zumbro River Watershed Recreational Learning Stewardship Sites	Zumbro Watershed Partnership	Sarah	Middleton	\$ 845,000	Yes
2015	07c1	Building Deconstruction to Reduce Greenhouse Gas Emissions and Solid Waste	The NetWork for Better Futures	Steve	Thomas	\$ 845,000	Yes
2015	07c2	Building Deconstruction to Reduce Greenhouse Gas Emissions and Solid Waste	U of MN - Duluth NRRI	Victor	Krause	\$ 155,000	Yes
2015	08a	Prioritizing Future Management of North Shore Trout Streams	U of MN - Duluth NRRI	Lucinda	Johnson	\$ 416,000	Extension granted to end of Jan.

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2015	08c	Preserving and Protecting Minnesota Native Orchid Species	U of MN - Landscape Arboretum	David	Remucal	\$ 167,000	Yes
2015	08d	Acceleration of Minnesota Conservation Assistance - Final Phase	Board of Water and Soil Resources	Tabor	Hoek	\$ 1,000,000	Yes
2015	08e	Metro Conservation Corridors Phase VIII - Prairie, Forest, and Savanna Restoration in Greater Metropolitan Area	Friends of the Mississippi River	Betsy	Daub	\$ 276,000	Yes
2015	08f	Metro Conservation Corridors Phase VIII - Enhancing Restoration Techniques for Improved Climate Resilience and Pollinator Conservation	Great River Greening	Wiley	Buck	\$ 400,000	Yes
2015	08j	Shoreland Protection for the Lower St. Croix River	St. Croix River Association	Deb	Ryun	\$ 190,000	Yes
2015	09e	Metro Conservation Corridors Phase VIII - Coordination and Mapping and Conservation Easements	Minnesota Land Trust	Wayne	Ostlie	\$ 515,000	Yes
2015	09j	Multi-benefit Watershed Scale Conservation on North Central Lakes	Leech Lake Area Watershed Foundation	Lindsey	Ketchel	\$ 950,000	Yes
2015	09k	Conservation Easement Assessment and Valuation System Development	U of MN - Humphrey School of Public Affairs	Bonnie	Keeler	\$ 250,000	Yes
M.L. 2016, Chp. 186, Sec. 2							
2016	04w	Roseau Lake Watershed Targeted Water Quality Improvement	MN DNR	Henry	Van Offelen	\$ 65,000	Yes
2016	05c	Youth-Led Sustainability Projects in 50 Minnesota Communities – Phase III	Prairie Woods Environmental Learning Center	Shelli-Kae	Foster	\$ 400,000	Yes
2016	05e	Wildlife and Habitat Conservation Education for Southwest Minnesota High Schools	Minnesota Zoological Garden	Carol	Strecker	\$ 147,000	Yes
2016	05g	Wolf Management Education in the Classroom – Phase II	International Wolf Center	David	Kline	\$ 240,000	Yes
2016	05i	Promoting Water Quality Stewardship through Student Mentoring and River Monitoring	Minnesota State University - Southwest	Emily	Deaver	\$ 39,000	Yes
2016	07a	Community Solar Garden Installation	Rural Renewable Energy Alliance	BJ	Allen	\$ 490,000	Yes
2016	10a	Contract Agreement Reimbursement	MN DNR	Katherine	Sherman-Hoehn	\$ 135,000	Yes
					TOTAL	\$ 20,712,000	