

ML 2013 Environment and Natural Resources Trust Fund Appropriations - M.L. 2013, Chp. 52, Sec. 2

For the next biennium (July 1, 2013 - June 30, 2014), approximately \$33.8 million is available each fiscal year (Total = \$67,620,000) for funding from the Environment and Natural Resources Trust Fund. In response to the 2013 Request for Proposal, 169 proposals requesting a total of approximately \$155 million were received. Through a competitive, multi-step process 66 of these proposals, requesting a total of \$73 million, were chosen to present to the LCCMR and 46 of those proposals, totaling \$38.2 million (all FY 2014 funds and part of the FY 2015 funds), were chosen to receive a recommendation for funding to the 2013 MN Legislature. The Legislature adopted all 46 of these project recommendations and added one additional project. All 47 appropriations were signed into law by the Governor on 05/09/13. \$29.6 million remains available for LCCMR funding recommendations to the ML 2014 Legislature.

Subdivision	\$ Appropriated (\$38,360,000)	Percentage of Total Appropriations
Subd. 03 Natural Resource Data and Information 10 Appropriations	\$8,076,000	21.05%
Subd. 04 Land, Habitat, Restoration, and Recreation 12 Appropriations [18 Projects]	\$13,722,000	35.77%
Subd. 05 Water Resources 8 Appropriations	\$3,819,000	9.96%
Subd. 06 Aquatic and Terrestrial Invasive Species 7 Appropriations [8 Projects]	\$10,982,000	28.63%
Subd. 07 Environmental Education 2 Appropriations	\$636,000	1.66%
Subd. 08 Administration and Contract Agreement Reimbursement 2 Appropriations	\$1,125,000	2.93%
TOTAL \$ APPROPRIATION	\$38,360,000	100.00%

Fund Source

FY 2014 - Environment and Natural Resources Trust Fund Recommended	\$33,810,000
FY 2015 - Environment and Natural Resources Trust Fund Recommended	\$4,350,000
Transfer from ML 2009, Ch. 143, Sec. 2, Subd. 8(b) to ML 2013, Ch. 52, Sec. 2, Subd. 4(l)	\$200,000
TOTAL \$ RECOMMENDATION	\$38,360,000

M.L. 2013 ENVIRONMENT AND NATURAL RESOURCES TRUST FUND APPROPRIATIONS
BY SUBDIVISION - M.L. 2013, Chapter 52, Section 2

Subd.	Title	Summary	Affiliation	Program Manager	Total \$ Appropriated	FY2014 Trust Fund \$ (\$33,810,000)	FY2015 Trust Fund \$ (\$4,350,000)	ML 2009 Transfer (\$200,000)	Region of Impact
Subd. 03 Natural Resource Data and Information (10 Appropriations - Subtotal = \$8,076,000)									
03a	Minnesota Biological Survey	To provide a foundation for conserving biological diversity by systematically collecting, interpreting, monitoring, and delivering data on plant and animal distribution and ecology, native plant communities, and functional landscapes.	MN DNR	Carmen Converse	\$2,650,000	\$2,650,000	\$0	\$0	Statewide
03b	County Geologic Atlases - Part A	Continuing statewide effort to provide comprehensive geologic mapping essential to effective and efficient management of surface and ground water resources. Users include local, state, and federal agencies and private businesses.	U of MN - MN Geological Survey	Dale Setterholm	\$1,200,000	\$1,200,000	\$0	\$0	Statewide
03c	County Geologic Atlas - Part B	To continue the analysis and compilation of groundwater data for the production of county geologic atlases, publication of geospatial groundwater data, and continued mapping of springsheds and karst features for Winona and Houston Counties.	MN DNR	Jan Falteisek	\$1,200,000	\$1,200,000	\$0	\$0	Central, Metro, NE, SE
03d	Updating the National Wetland Inventory for Minnesota - Phase IV	This is the fourth phase of a multi-phase project to update and enhance the National Wetland Inventory for Minnesota. This phase will update wetland maps for northeastern Minnesota.	MN DNR	Steve Kloiber	\$1,000,000	\$1,000,000	\$0	\$0	NE, NW
03e	Conservation Easement Stewardship Program Phase III	Acceleration of DNR ongoing work to bring existing conservation easements up to minimum standards through monitoring, baseline data collection and baseline report preparation; development of technology to enhance monitoring efficiency.	MN DNR	Susan Damon	\$200,000	\$200,000	\$0	\$0	Statewide
03f	Harnessing Soudan Mine Microbes: Bioremediation, Bioenergy and Biocontrol	To continue the characterization of unique microbes discovered in the Soudan Underground Mine State Park that have potential applications for metal remediation in water resources, microbial electrofuels, and inhibition of White-Nose Bat Syndrome.	U of MN	Christine Salomon	\$838,000	\$838,000	\$0	\$0	Statewide
03g	Improved Rapid Forest Ecosystem and Habitat Inventory	Evaluate a new approach to forest inventory, based on imputation of statewide Forest Inventory and Analysis (FIA) data, to speed updates, improve usability, and reduce costs.	U of MN	Alan Ek	\$262,000	\$262,000	\$0	\$0	Central, NE, NW
03h	Finding Disease Resistant Elm Trees in Minnesota	To evaluate and identify native Minnesota elms resistant to Dutch elm disease to assist with limiting the susceptibility of the state's elms to Dutch elm disease.	U of MN	Robert Blanchette	\$200,000	\$200,000	\$0	\$0	Statewide
03i	Enhancing Timber Sale Program Environmental and Economic Sustainability	Evaluate how timber payment methods impact post-harvest forest ecological conditions, net revenue generated from public timber sale programs, and barriers perceived by forest managers and loggers.	U of MN	Charles Blinn	\$336,000	\$336,000	\$0	\$0	Central, NE, NW
03j	Enhancing Environmental and Economic Benefits of Woodland Grazing	To evaluate management options of woodlands used for grazing to improve ecological and economic benefits.	U of MN	Diomy Zamora	\$190,000	\$190,000	\$0	\$0	Central, NW
Subd. 03 Natural Resource Data and Information Subtotal =					\$8,076,000	\$8,076,000	\$0	\$0	
Subd. 04 Land, Habitat, Restoration, and Recreation (12 Appropriations/19 Projects- Subtotal = \$13,522,000)									
04a	State Parks and State Trails Land Acquisition	Acquire approximately 275 acres from willing sellers within the statutory boundaries of State Parks, State Recreation Areas and authorized State Trails. State land acquisitions provide ecological and recreational benefits to the public.	MN DNR	Jennifer Christie	\$1,000,000	\$1,000,000	\$0	\$0	Statewide
04b	Scientific and Natural Areas Restoration, Enhancement and Citizen Engagement	To conserve sites of biodiversity significance by restoring and enhancing lands established as scientific and natural areas as provided in Minnesota Statutes, section 86A.05, subdivision 5, and providing volunteer engagement and outreach.	MN DNR	Peggy Booth	\$1,500,000	\$1,500,000	\$0	\$0	Statewide

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04c	Native Prairie Stewardship and Prairie Bank Easement Acquisition	To acquire approximately 195 acres of native prairie bank easements, prepare baseline property assessments, restore and enhance native prairie sites, and provide technical assistance to landowners.	MN DNR	Jason Garms	\$750,000	\$750,000	\$0	\$0	Central, Metro, NW, SE, SW
04d	Metropolitan Conservation Corridors (MeCC) - Phase VII	Protect and restore a connected network of critical habitat in the 16 county greater metropolitan area by acquiring fee title and conservation easements on 526 acres and restoring and enhancing 264 acres.	7 partners (8 individual projects)	Kris Larson	\$2,000,000	\$2,000,000	\$0	\$0	Metro
04d-1.1/1.2	MeCC VII - 1.1/1.2: Coordination and Mapping	Coordination of Partnership, accomplishment mapping and outreach.	Minnesota Land Trust	Kris Larson	\$20,000	\$20,000	\$0	\$0	Metro
04d-2.1/3.4	MeCC VII - 2.1 & 3.4: Protect, Restore and Enhance Significant Watershed Habitat	Restore 10 acres of prairie and enhance 120 acres of prairie/savanna and 108 acres of forest. Six acres within the Fish Creek Natural Area will be acquired in the City of Maplewood.	Friends of the Mississippi River	Tom Lewanski	\$304,000	\$304,000	\$0	\$0	Metro
04d-2.3	MeCC VII - 2.3: Restoring Our Lands and Waters	Restore and enhance 90 acres of shoreline, engaging volunteer community members.	Great River Greening	Wiley Buck	\$208,000	\$208,000	\$0	\$0	Metro, SE
04d-2.6/3.7	MeCC VII - 2.6 & 3.7: Dakota County Lakeshore and Riparian Protection	Acquire 32 acres of conservation easements along rivers, streams and undeveloped lakeshore; and restore and enhance 40 acres.	Dakota County	Al Singer	\$368,000	\$368,000	\$0	\$0	Metro
04d-3.1	MeCC VII - 3.1: 2013 TPLs Critical Land Protection Program	Acquisition of 24 acres of high quality habitat and .2miles of shoreline in scientifically evaluated wildlife corridors within the greater Twin Cities Metro Area.	The Trust for Public Land	Bob McGillivray	\$400,000	\$400,000	\$0	\$0	Metro
04d-3.2	MeCC VII - 3.2: Protect Significant Habitat by Acquiring Conservation Easements	Protect 100 acres of critical habitat in the greater metropolitan area by securing permanent conservation easements and dedicating funds for the perpetual monitoring and enforcement of those easements.	Minnesota Land Trust	Kris Larson	\$300,000	\$300,000	\$0	\$0	Metro
04d-3.3	MeCC VII - 3.3: Priority Expansion of Minnesota Valley National Wildlife Refuge	Acquire in fee 100 acres to expand the Minnesota Valley National Wildlife Refuge, improving wildlife habitat and water quality and increasing public access to wildlife-dependent recreation.	Minnesota Valley National Wildlife Refuge Trust Inc	Deborah Loon	\$400,000	\$400,000	\$0	\$0	Central, Metro, SE
04e	Landscape Arboretum Acquisition Lake Tamarack	To acquire land surrounding Lake Tamarack in Hennepin County as part of the acquisition of approximately 80 acres for the MN Landscape Arboretum.	U of MN - MN Landscape Arboretum	Peter Moe	\$2,000,000	\$2,000,000	\$0	\$0	Metro
04f	Conservation Program Technical Assistance	To continue providing grants to soil and water conservation districts and other units of local and state government for the employment of staff to re-enroll expiring lands into new programs for conservation purposes.	Board of Water and Soil Resources	Tabor Hoek	\$3,000,000	\$3,000,000	\$0	\$0	Statewide
04g	Moose Habitat Restoration in Northeastern Minnesota	To develop best practices guidelines for creating moose foraging habitat efficiently and cost-effectively.	U of MN - NRRRI	Ron Moen	\$200,000	\$200,000	\$0	\$0	NE
04h	Bee Pollinator Habitat Enhancement	To assess the potential to supplement traditional turf grass by providing critical floral plant resources to enhance bee pollinator habitat.	U of MN	Marla Spivak	\$200,000	\$200,000	\$0	\$0	Statewide
04i	Conservation Grazing to Improve Wildlife Habitat on Wildlife Management Areas	To develop grazing plans and provide infrastructure to support conservation grazing on 5,000 acres of targeted Wildlife Management Areas in partnership with local livestock producers.	MN DNR	Bill Penning	\$600,000	\$600,000	\$0	\$0	Central, NW, SE, SW
04j	Preserving the Avon Hills Landscape - Phase II	To secure permanent conservation easements on high quality habitat in Stearns County, prepare conservation management plans, and provide public outreach.	Saint Johns Arboretum and University	Thomas Kroll	\$772,000	\$772,000	\$0	\$0	Central
04k	Frogtown Farm and Park Acquisition	To acquire a portion of twelve acres for Frogtown Farm and Park to be established as a St. Paul city park.	The Trust for Public Land	Robert McGillivray	\$1,500,000	\$1,500,000	\$0	\$0	Metro
04l	Restoration Evaluations	To evaluate lands restored using money from the Environment and Natural Resources Trust Fund.	U of MN	TBD	\$200,000	\$0	\$0	\$200,000	Statewide

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Subd. 04 Land, Habitat, Restoration, and Recreation Subtotal =					\$13,722,000	\$13,522,000	\$0	\$200,000	
Subd. 05 Water Resources (8 Appropriations - Subtotal = \$3,819,000)									
05a	Sustaining Lakes in a Changing Environment - Phase II	To continue development and implementation of monitoring, modeling, and reporting protocols for Minnesota lakes to be used in water quality and fisheries management.	MN DNR	Donald Pereira	\$1,200,000	\$1,200,000	\$0	\$0	Statewide
05b	Assessment of Natural Copper-Nickel Bedrocks on Water Quality?	To assess impacts of existing mineralization and potential mining on northeastern Minnesota regional water quality from copper, nickel, and other metal concentrations in rocks, streambed sediments, and soils in areas of potential base-metal mining.	U of MN - NRRRI	Steve Hauck	\$585,000	\$585,000	\$0	\$0	NE
05c	Heron Lake Sediment and Phosphorus Reduction Implementation Projects	For public outreach and installation and monitoring of water quality improvement projects.	Heron Lake Watershed District	Jan Voit	\$122,000	\$122,000	\$0	\$0	SW
05d	Southern Minnesota Lakes Restoration	To install shoreland and agricultural best management practices to improve water quality for fourteen lakes in a tri-county area in Southern Minnesota.	Le Sueur County	Lauren Klement	\$463,000	\$463,000	\$0	\$0	SE
05e	Measuring Hydrologic Benefits from Glacial Ridge Habitat Restoration	To compare the hydrology of habitats before and after restorations to evaluate and quantify the impacts on flood-reduction and water-quality in order to inform improvements to restoration techniques.	Red Lake Watershed District	Tim Cowdery	\$400,000	\$400,000	\$0	\$0	Statewide
05f	Evaluation of Lake Superior Water Quality Health	To evaluate impacts to Lake Superior from a changing thermal structure and invasive species in order to implement lake water quality management strategies.	U of MN - Duluth	Erik Brown	\$600,000	\$600,000	\$0	\$0	NE
05g	Membranes for Wastewater-Generated Hydrogen and Clean Water	To develop, optimize, and test membranes made of thin film polymers embedded with selected bacteria to generate clean water and energy in the form of hydrogen from wastewater.	U of MN	Paige Novak	\$246,000	\$246,000	\$0	\$0	Statewide
05h	Antibiotics in Minnesota Waters - Phase II - Mississippi River	To measure antibiotic concentrations and antibiotic resistance levels and assess the contributions of farm runoff and wastewater treatment in a portion of the Mississippi River.	University of St Thomas	Kristine Wammer	\$203,000	\$203,000	\$0	\$0	Central, Metro, SE
Subd. 05 Water Resources Subtotal =					\$3,819,000	\$3,819,000	\$0	\$0	
Subd. 06 Aquatic and Terrestrial Invasive Species (7 Appropriations - Subtotal = \$10,982,000)									
06a	An Aquatic Invasive Species Research Center	To develop and support an Aquatic Invasive Species (AIS) research center at the University of Minnesota that will develop new techniques to control aquatic invasive species including Asian carps, zebra mussels, and plant species.	U of MN	Peter Sorensen	\$8,700,000	\$4,350,000	\$4,350,000	\$0	Statewide
06b	Detection and Monitoring of Asian Carp Populations	To establish a search and monitoring program directly targeting Asian carp to be used in the development of potential control strategies.	MN DNR	Bradford Parsons	\$540,000	\$540,000	\$0	\$0	Statewide
06c	Improving Emerald Ash Borer Detection Efficacy for Control	To evaluate and implement options for effective detection of the presence of emerald ash borer.	Minnesota Department of Agriculture	Mark Abrahamson	\$600,000	\$600,000	\$0	\$0	Metro, SE, Statewide
06d	Elimination of Target Invasive Plant Species	To train volunteers and professionals to find, control, and monitor targeted newly emergent invasive species.	Minnesota Department of Agriculture	Monika Chandler	\$350,000	\$350,000	\$0	\$0	Statewide
06e	Biological Control of Garlic Mustard	To continue the implementation of biological control for invasive garlic mustard plants.	MN DNR	Laura Van Riper	\$140,000	\$140,000	\$0	\$0	Statewide

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06f	Zebra Mussel Control Research and Evaluation in Minnesota Waters	To assess the ecological impacts of a commercially available molluscicide formulation on the reproduction and development of native fish as well as impacts on larval aquatic insect survival and evaluate the effectiveness of these treatment options for detection and control of zebra mussels.	US Geological Survey, Upper Midwest Environmental Sciences Center	Mark Gaikowski	\$600,000	\$600,000	\$0	\$0	Statewide
06g	Controlling Terrestrial Invasive Plants with Grazing Animals	To develop cost effective best management practices to control invasive terrestrial species through planned grazing.	Hiawatha Valley Resource Conservation & Development, Inc.	John Beckwith	\$52,000	\$52,000	\$0	\$0	SE
Subd. 06 Aquatic and Terrestrial Invasive Species Subtotal =					\$10,982,000	\$6,632,000	\$4,350,000	\$0	
Subd. 07 Environmental Education (2 Appropriations - Subtotal = \$636,000)									
07a	Minnesota Conservation Apprentice Academy	To continue a program to train and mentor future conservation professionals by providing apprenticeship service opportunities with soil and water conservation districts.	Board of Water and Soil Resources	Steve Woods	\$186,000	\$186,000	\$0	\$0	Statewide
07b	Youth Outdoors: Mississippi River Education and Employment Opportunities	To provide outdoor education, recreation, and youth employment on the Mississippi River from Grand Rapids to St. Cloud, the Twin Cities, Hastings, and Red Wing.	Wilderness Inquiry	Sarah Milligan-Toffler	\$450,000	\$450,000	\$0	\$0	Statewide
Subd. 07 Environmental Education Subtotal =					\$636,000	\$636,000	\$0	\$0	
Subd. 08 Administration and Contract Agreement Reimbursement									
08a	Legislative-Citizen Commission on Minnesota Resources Administration	For administration in fiscal years 2014 and 2015 as provided in Minnesota Statutes, section 116P.09, subdivision 5.	Legislative-Citizen Commission on Minnesota Resources	Susan Thornton	\$990,000	\$990,000	\$0	\$0	Statewide
08b	Contract Management	For expenses incurred for contract agreement reimbursement for the agreements specified in this section.		N/A	\$135,000	\$135,000	\$0	\$0	Statewide
Subd. 08 Administration and Contract Management Subtotal =					\$1,125,000	\$1,125,000	\$0	\$0	
Grand Total =					\$38,360,000	\$33,810,000	\$4,350,000	\$200,000	