ML 2013 Environment and Natural Resources Trust Fund Recommendations

In Minnesota's next biennium (July 1, 2013 - June 30, 2014), approximately \$33.8 million is available each fiscal year (Total = \$67,600,000) for funding from the Environment and Natural Resources Trust Fund. In response to the LCCMR's 2012-13 Request for Proposal, 169 proposals requesting a total of approximately \$155 were received. After full consideration of all proposals received through a competitive, multi-step process, on July 11 and November 28, 2012, the LCCMR selected 46 projects to be included in its appropriation recommendations to the 2013 Minnesota Legislature. These recommendations ranged from full funding for the full proposal and dollar amount requested to partial funding for specific proposal elements and partial dollar amounts requested.

Topic Area	\$ Recommending (\$38,160,000)	Percentage of Total Recommendation
Subd. 03 Natural Resource Data and Information 10 Appropriations	\$8,076,000	21.16%
Subd. 04 Land, Habitat, Restoration, and Recreation 11 Appropriations [17 Projects]	\$13,522,000	35.44%
Subd. 05 Water Resources 8 Appropriations	\$3,819,000	10.01%
Subd. 06 Aquatic and Terrestrial Invasive Species 7 Appropriations	\$10,982,000	28.78%
Subd. 07 Environmental Education 2 Appropriations	\$636,000	1.67%
Subd. 08 Administration and Contract Management 2 Appropriations	\$1,125,000	2.95%
TOTAL \$ RECOMMENDATION	\$38,160,000	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	\$4,350,00	
TC	\$38,160,000	

Subd.	Title	Summary	Affiliation	Program Manager	Total \$ Recommended	FY2014 Trust Fund \$ (\$33,810,000)	FY2015 Trust Fund \$ (\$4,350,000)	Region of Impact
Subd. 03	Natural Resource Data and Information (10 App	propriations - 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 anima distribution and ecology, native plant communities, and functional landscapes.	MN DNR	Carmen Converse	\$2,650,000	\$2,650,000	\$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	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	Central, Metro, NE, SE
	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	NE, NW
	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	Statewide
	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	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	Central, NE, NW
	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	Statewide
	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	Central, NE, NW
-	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	Central, NW
			Resource Data and Informa	ation Subtotal =	\$8,076,000	\$8,076,000	\$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	Statewide

						FY2014	FY2015	
				Program	Total \$	Trust Fund \$	Trust Fund \$	Region of
Subd.	Title	Summary	Affiliation	Manager	Recommended	(\$33,810,000)	(\$4,350,000)	Impact
04b	Scientific and Natural Areas Restoration,	To conserve sites of biodiversity significance by restoring and enhancing	MN DNR	Peggy Booth	\$1,500,000	\$1,500,000	\$0	Statewide
	Enhancement and Citizen Engagement	lands established as scientific and natural areas as provided in Minnesota Statutes, section 86A.05, subdivision 5, and providing volunteer						
		engagement and outreach.						
04c	Native Prairie Stewardship and Prairie Bank	To acquire approximately 195 acres of native prairie bank easements,	MN DNR	Jason Garms	\$750,000	\$750,000	¢n	Central, Metro,
040	Easement Acquisition	prepare baseline property assessments, restore and enhance native prairie	IVIIN DINK	Jason Garris	\$730,000	\$750,000	, ŞO	NW, SE, SW
	Education Acquisition	sites, and provide technical assistance to landowners.						1444, 32, 344
		stee, and provide teaminal assistance to landomiers.						
04d	Metropolitan Conservation Corridors (MeCC) -	Protect and restore a connected network of critical habitat in the 16 county	7 partners	Kris Larson	\$2,000,000	\$2,000,000	\$0	Metro
	Phase VII	greater metropolitan area by acquiring fee title and conservation	(8 individual projects)					
		easements on 526 acres and restoring and enhancing 264 acres.						
04d-	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	Metro
1.1/1.2		р,			7-3,000	, = 5,555	, ,	
	MeCC VII - 2.1 & 3.4: Protect, Restore and Enhance	Restore 10 acres of prairie and enhance 120 acres of prairie/savanna and 108	Friends of the Mississippi River	Tom Lewanski	\$304,000	\$304,000	\$0	Metro
2.1/3.4	Significant Watershed Habitat	acres of forest. Six acres within the Fish Creek Natural Area will be acquired in the City of Maplewood.	KIVEI					
04d-2.3	MeCC VII - 2.3: Restoring Our Lands and Waters	Restore and enhance 90 acres of shoreline, engaging volunteer community	Great River Greening	Wiley Buck	\$208,000	\$208,000	\$0	Metro, SE
		members.						
04d	MeCC VII - 2.6 & 3.7: Dakota County Lakeshore and	Acquire 32 acres of conservation easements along rivers, streams and	Dakota County	Al Singer	\$368,000	\$368,000	\$0	Metro
2.6/3.7	Riparian Protection	undeveloped lakeshore; and restore and enhance 40 acres.						
04d-3.1	MeCC VII - 3.1: 2013 TPLs Critical Land Protection	Acquisition of 24 acres of high quality habitat and .2miles of shoreline in	The Trust for Public Land	Becca Nash	\$400,000	\$400,000	\$0	Metro
	Program	scientifically evaluated wildlife corridors within the greater Twin Cities Metro						
04/02	M 661/11 22 D 1 161 161 161 161	Area.	100		<u> </u>	¢200.000	60	
04d-3.2	MeCC VII - 3.2: Protect Signifcant 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	Minnesota Land Trust	Kris Larson	\$300,000	\$300,000	\$0	Metro
	Acquiring Conservation Lusements	monitoring and enforcement of those easements.						
04d-3.3	MeCC VII - 3.3: Priority Expansion of Minnesota	Acquire in fee 100 acres to expand the Minnesota Valley National Wildlife Refuge,	Minnesota Valley National	Deborah Loon	\$400,000	\$400,000	\$0	Central, Metro,
	Valley National Wildlife Refuge	improving wildlife habitat and water quality and increasing public access to	Wildlife Refuge Trust Inc					SE
04e	Landscape Arboretum Acquisition Lake	wildlife-dependent recreation. To acquire land surrounding Lake Tamarack in Hennepin County as part of	U of MN - MN Landscape	Peter Moe	\$2,000,000	\$2,000,000	\$0	Metro
046	Tamarack	the acquisition of approximately 80 acres for the MN Landscape	Arboretum	reter wide	\$2,000,000	\$2,000,000	, ŞO	ivietro
	Turridi dek	Arboretum.	711 501 Ctulli					
04f	Conservation Program Technical Assistance	To continue providing grants to soil and water conservation districts and	Board of Water and Soil	Tabor Hoek	\$3,000,000	\$3,000,000	\$0	Statewide
	, and the second	other units of local and state government for the employment of staff to re-	Resources					
		enroll expiring lands into new programs for conservation purposes.						
04g	Moose Habitat Restoration in Northeastern	To develop best practices guidelines for creating moose foraging habitat	U of MN - NRRI	Ron Moen	\$200,000	\$200,000	\$0	NE
	Minnesota	efficiently and cost-effectively.						
04h	Bee Pollinator Habitat Enhancement	To assess the potential to supplement traditional turf grass by providing	U of MN	Marla Spivak	\$200,000	\$200,000	\$0	Statewide
		critical floral plant resources to enhance bee pollinator habitat.						
04i	Conservation Grazing to Improve Wildlife	To develop grazing plans and provide infrastructure to support	MN DNR	Bill Penning	\$600,000	\$600,000	\$0	Central, NW, SE,
	Habitat on Wildlife Management Areas	conservation grazing on 5,000 acres of targeted Wildlife Management						SW
		Areas in partnership with local livestock producers.						
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Subd.	Title	Summary	Affiliation	Program Manager	Total \$	FY2014 Trust Fund \$ (\$33,810,000)	FY2015 Trust Fund \$ (\$4,350,000)	Region of Impact
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	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	Metro
		Subd. 04 Land, Habita	at, Restoration, and Recre	ation Subtotal =	\$13,522,000	\$13,522,000	\$0	
Subd. 05	Water Resources (8 Appropriations - Subtotal =	<u> </u>						
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	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 - NRRI	Steve Hauck	\$585,000	\$585,000	\$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	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	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	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	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	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	Central, Metro, SE
			Subd. 05 Water Reso	urces Subtotal =	\$3,819,000	\$3,819,000	\$0	
Subd. 06	Aquatic and Terrestrial Invasive Species (7 App	ropriations - 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	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	Statewide

Subd.	Title	Summary	Affiliation	Program Manager	Total \$	FY2014 Trust Fund \$ (\$33,810,000)	FY2015 Trust Fund \$ (\$4,350,000)	Region of Impact
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	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	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	Statewide
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	Statewide
_	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	SE
		Subd. 06 Aquatic	and Terrestrial Invasive Sp	ecies Subtotal =	\$10,982,000	\$6,632,000	\$4,350,000	
Subd. 07	Environmental Education (2 Appropriations - Se	ubtotal = \$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	Statewide
	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	Statewide
	Subd. 07 Environmental Education Subtotal =					\$636,000	\$0	
Subd. 08	Administration and Contract Management (2 A	ppropriations - Subtotal = \$1,125,000)						
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	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	Statewide
	Subd. 08 Administration and Contract Management Subtotal					\$1,125,000	\$0	
	Grand Total =					\$33,810,000	\$4,350,000	