

M.L. 2018 Environment and Natural Resources Trust Fund (ENRTF) Recommendations (FY 2019)

As of November 30, 2017 the Legislative-Citizen Commission on Minnesota Resources (LCCMR) has selected 66 projects totaling \$45,828,000 to recommend to the 2018 Minnesota Legislature for funding from the Environment and Natural Resources Trust Fund (ENRTF). The recommendations are the result of the LCCMR's 2018 Request for Proposal (RFP) process, in which 217 proposals requesting a total of approximately \$183 million were received and considered through a competitive, multi-stage evaluation. The recommendations range from funding the full proposal and dollar amount requested to partial funding for specific proposal elements.

Topic Area	\$ Recommended (\$45,828,000)	Percentage of Total Recommendation
Subd. 03 Foundational Natural Resource Data and Information 12 Recommendations	\$7,293,000	15.91%
Subd. 04 Water Resources 11 Recommendations	\$5,275,000	11.51%
Subd. 05 Technical Assistance, Outreach, and Environmental Education 12 Recommendations	\$5,168,000	11.28%
Subd. 06 Aquatic and Terrestrial Invasive Species 6 Recommendations	\$5,760,000	12.57%
Subd. 07 Air Quality and Renewable Energy 3 Recommendations	\$1,200,000	2.62%
Subd. 08 Methods to Protect or Restore Land, Water, and Habitat 8 Recommendations	\$3,119,000	6.81%
Subd. 09 Land Acquisition, Habitat, and Recreation 12 Recommendations	\$17,439,000	38.05%
Subd. 10 Emerging Issues Account 1 Recommendation	\$439,000	0.96%
Subd. 11 Wastewater Treatment Recommendations 0 Recommendations	\$0	0.00%
Subd. 12 Contract Agreement Reimbursement 1 Recommendation	\$135,000	0.29%
TOTAL \$ RECOMMENDATION	\$45,828,000	100.00%

Fund Source	\$ Recommended
FY 2019 - Environment and Natural Resources Trust Fund (ENRTF)	\$45,828,000
Total \$	\$45,828,000

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Subd.	Proposal ID	Project Title	Total LCCMR \$ Recommended FY2019	Organization	Program Manager	Region of Impact*
Subd. 03 Foundational Natural Resource Data and Information (12 Recommendations - Subtotal = \$7,293,000)						
03a	001-A	County Geologic Atlases - Part A	\$ 2,500,000	U of MN - MN Geological Survey	Dale Setterholm	Statewide
03b	002-A	County Geologic Atlases - Part B	\$ 1,500,000	MN DNR	Paul Putzier	Statewide
03c	003-A	Providing Critical Water-Quality Information for Lake Management	\$ 250,000	U of MN	Jeffrey Peterson	Statewide
03d	004-A	Minnesota Biodiversity Atlas - Phase 2	\$ 350,000	U of MN - Bell Museum of Natural History	George Weiblen	Statewide
03e	006-A	Peatland Forest Management	\$ 600,000	U of MN	Marcella Windmuller-Campione	Central, NE, NW
03f	013-A	Assessing Natural Resource Benefits Provided by Lichens and Mosses	\$ 213,000	U of MN	Daniel Stanton	Statewide
03g	014-A	Develop a System to Assess Wildlife Health Threats in Minnesota	\$ 280,000	U of MN	Kimberly VanderWaal	Statewide
03h	016-A	Conserving Minnesota's Forest Birds of Management Concern	\$ 500,000	U of MN - Duluth NRRI	Alexis Grinde	Central, NE, NW
03i	018-A	Mapping Avian Movement in Minnesota	\$ 200,000	U of MN - NRRI	Gerald Niemi	Statewide
03j	022-A	Improve Trout-Stream Management by Understanding Variable Winter Thermal Conditions	\$ 400,000	U of MN	Leonard Ferrington	SE
03k	011-A	Conserving Minnesota's Nine Species of Freshwater Turtles	\$ 300,000	Minnesota Zoological Garden	Seth Stapleton	Central, Metro, SE
03l	030-A	Develop Sonar Data Mapping on Three Rivers to Assess Suitability for Native Mussel Habitat	\$ 200,000	National Park Service	Nancy Duncan	Metro
Foundational Natural Resource Data and Information Subtotal =			\$7,293,000			
Subd. 04 Water Resources (11 Recommendations - Subtotal = \$5,275,000)						
04a	035-B	Pilot Program to Optimize Local Mechanical and Pond Wastewater-Treatment Plants	\$ 700,000	Minnesota Pollution Control Agency	Joel Peck	Statewide
04b	034-B	Assess and Develop Strategies to Remove Microscopic Plastic-Particle Pollution from Minnesota Water Bodies	\$ 300,000	U of MN	Filippo Coletti	Statewide

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04c	037-B	Reduce Chlorides in Minnesota Waters by Evaluating Road-Salt Alternatives and Pavement Innovations	\$ 400,000	U of MN	John Gulliver	Statewide
04d	041-B	Protect Water Quality with Efficient Removal of Contaminants in Treatment Ponds for Storm Water	\$ 325,000	St. Cloud State University	Heiko Schoenfuss	Statewide
04e	048-B	Develop Small and Inexpensive Purification System for Community Drinking Water	\$ 425,000	U of MN	Tianhong Cui	Statewide
04f	054-B	Evaluate Emerging Pathogens in Lakes, Rivers, and Tap Water to Keep Drinking Water Safe	\$ 325,000	U of MN	Timothy LaPara	Statewide
04g	064-B	Characterize Unregulated Contaminants in Source Water and Drinking Water	\$ 1,000,000	Minnesota Department of Health	Stephen Robertson	Statewide
04h	039-B	Mapping Antibiotic Resistance in Minnesota to Help Protect Environmental, Animal, and Human Health	\$ 750,000	U of MN	Randall Singer	Statewide
04i	055-B	Farmer-Led Expansion of Alfalfa Production to Increase Water Protection	\$ 500,000	U of MN	Nicholas Jordan	SE, SW
04j	057-B	Using Perennial Grain Crops in Wellhead Protection Areas to Protect Groundwater	\$ 250,000	Minnesota Department of Agriculture	Margaret Wagner	Statewide
04k	094-B	Implement a Pilot Credit-Trading System for Storm Water in Shell Rock River Watershed to Improve Water Quality	\$ 300,000	Shell Rock River Watershed District	Courtney Christensen	SE
Water Resources Subtotal =			\$5,275,000			
Subd. 05 Technical Assistance, Outreach, and Environmental Education (12 Recommendations - Subtotal = \$5,168,000)						
05a	109-C	Prairie Sportsman Statewide Environmental Broadcasts and Videos	\$ 300,000	Pioneer Public Television	Cindy Dorn	Statewide
05b	106-C	YES! Students Take on Minnesota Water-Quality Challenge	\$ 213,000	Prairie Woods Environmental Learning Center	Shelli-Kae Foster	Statewide
05c	112-C	Get Outdoors After-School Training	\$ 30,000	Project Get Outdoors Inc	Sara Holger	Statewide
05d	101-C	Connecting Students with Water Stewardship through Hands-on Learning	\$ 400,000	Minnesota Trout Unlimited	John Lenczewski	Statewide

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Subd.	Proposal ID	Project Title	Total LCCMR \$ Recommended FY2019	Organization	Program Manager	Region of Impact*
05e	121-C	Expanding River Watch Program on the Minnesota River With High School Teams	\$ 100,000	Friends of the Minnesota Valley	Ted Suss	SW
05f	099-C	Increase Diversity in Environmental Careers to Serve Minnesota's Changing Demographics	\$ 750,000	MN DNR	Denise Legato	Statewide
05g	102-C	Pollinator Ambassadors Program for Gardens	\$ 250,000	U of MN	Elaine Evans	Statewide
05h	118-C	Morris Prairie Pollinator Demonstration Area and Education	\$ 550,000	U of MN - Morris	Steven Poppe	Central
05i	120-C	Expanding Nature Knowledge and Experience with New Interactive Exhibits at North Mississippi Regional Park	\$ 500,000	Minneapolis Parks and Recreation Board	MaryLynn Pulscher	Metro
05j	127-C	Update International Wolf Center Exhibits	\$ 1,000,000	International Wolf Center	David Kline	NE
05k	108-C	Expanding the State's Reuse Economy to Conserve Natural Resources	\$ 275,000	ReUSE Minnesota	Steve Thomas	Statewide
05l	164-E	Expand Materials Reuse and Recycling Jobs Program	\$ 800,000	The Network for Better Futures (D/B/A) Better Futures Minnesota	Nick Swaggert	Statewide
Technical Assistance, Outreach, and Environmental Education Subtotal = \$			5,168,000			
Subd. 06 Aquatic and Terrestrial Invasive Species (6 Recommendations - Subtotal = \$5,760,000)						
06a	132-D	Minnesota Invasive Terrestrial Plants and Pests Center - Phase 4	\$ 3,500,000	U of MN - MITTPC	Robert Venette	Statewide
06b	141-D	Palmer Amaranth Detection and Eradication Continuation	\$ 431,000	Minnesota Department of Agriculture	Monika Chandler	Statewide
06c	152-D	Evaluate Control Methods for Invasive Hybrid Cattails	\$ 131,000	Voyageurs National Park	Steve Windels	NE
06d	133-D	Developing RNA Interference to Control Zebra Mussels	\$ 500,000	U.S. Geological Survey	Christopher Merkes	Statewide
06e	134-D	Install and Evaluate an Invasive Carp Deterrent for Mississippi River Locks and Dams	\$ 998,000	U of MN - AIS Center	Peter Sorensen	Statewide

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Subd.	Proposal ID	Project Title	Total LCCMR \$ Recommended FY2019	Organization	Program Manager	Region of Impact*
06f	139-D	Determining Risk of a Toxic Alga in Minnesota Lakes	\$ 200,000	Science Museum of Minnesota - St. Croix Research Station	Adam Heathcote	Statewide
Aquatic and Terrestrial Invasive Species Subtotal =			\$5,760,000			
Subd. 07 Air Quality and Renewable Energy (3 Recommendations - Subtotal = \$1,200,000)						
07a	158-E	Develop Solar Window Concentrators for Electricity	\$ 350,000	U of MN	Uwe Kortshagen	Statewide
07b	159-E	Demonstrations for Community-Scale Storage System for Renewable Energy	\$ 550,000	U of MN - I on E	Ellen Anderson	Statewide
07c	160-E	Develop Inexpensive Energy from Simple Roll-to-Roll Manufacturing	\$ 300,000	U of MN	Tianhong Cui	Statewide
Air Quality and Renewable Energy Subtotal =			\$1,200,000			
Subd. 08 Methods to Protect or Restore Land, Water, and Habitat (8 Recommendations - Subtotal = \$3,119,000)						
08a	178-F	Nongame Wildlife Program Acceleration	\$ 1,000,000	MN DNR	Carrol Henderson	Statewide
08b	195-F	Develop BioMulch to Replace Plastic Soil Covering in Vegetable and Fruit Production to Increase Yield and Reduce Waste	\$ 310,000	U of MN - Lamberton	Paulo Pagliari	Statewide
08c	180-F	Develop Market-Based Alternatives for Perennial Crops to Benefit Water Quality and Wildlife	\$ 150,000	Science Museum of Minnesota	Shawn Schottler	Statewide
08d	157-E	Agricultural Weed Control Using Autonomous Mowers	\$ 550,000	U of MN - Morris	Mike Reese	Statewide
08e	182-F	Restoring Forests in Minnesota State Parks	\$ 250,000	MN DNR	Edward Quinn	Statewide
08f	189-F	Develop Strategies for Timber Harvest to Minimize Soil Impacts to Maintain Healthy and Diverse Forests	\$ 200,000	U of MN	Robert Slesak	Statewide
08g	186-F	Restoring Wetland Invertebrates to Revive Wildlife Habitat	\$ 400,000	MN DNR	Danelle Larson	Statewide
08h	179-F	Preserving Minnesota's Native Orchids - Phase 2	\$ 259,000	U of MN - Landscape Arboretum	David Remucal	Statewide
Methods to Protect or Restore Land, Water, and Habitat Subtotal =			\$3,119,000			
Subd. 09 Land Acquisition, Habitat, and Recreation (12 Recommendations - Subtotal = \$17,439,000)						

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Subd.	Proposal ID	Project Title	Total LCCMR \$ Recommended FY2019	Organization	Program Manager	Region of Impact*
09a	201-G	Grants for Local Parks, Trails, and Natural Areas	\$ 2,000,000	MN DNR	Audrey Mularie	Statewide
09b	205-G	Develop Mesabi Trail Segment From County Road 88 to Ely	\$ 600,000	St. Louis & Lake Counties Regional Railroad Authority	Bob Manzoline	NE
09c	207-G	Harmony State Trail Extension Land Acquisition	\$ 235,000	City of Harmony	Jerome Illg	SE
09d	208-G	Mississippi Blufflands State Trail - Red Wing Barn Bluff to Colvill Park Segment	\$ 550,000	City of Red Wing	Jay Owens	SE
09e	212-G	Swedish Immigrant Regional Trail Segment within Interstate State Park	\$ 2,254,000	Chisago County	Laird Mork	Central
09f	209-G	Enhancement Plan for Superior Hiking Trail	\$ 100,000	Superior Hiking Trail Association	Denny Caneff	NE
09g	213-G	Protecting Mississippi River Headwaters Lands through Local, State, and Federal Partnership	\$ 700,000	City of Baxter	Josh Doty	Central
09h	215-G	Protecting North-Central Minnesota Lakes	\$ 750,000	Crow Wing Soil and Water Conservation District	Sheila Boldt	Central
09i	203-G	Easement Program for Native Prairie Bank	\$ 2,000,000	MN DNR	Judy Schulte	Statewide
09j	202-G	Minnesota State Trail Development	\$ 2,500,000	MN DNR	Kent Skaar	Statewide
09k	200-G	Minnesota State Parks and State Trails	\$ 2,500,000	MN DNR	Jennifer Christie	Statewide
09l	199-G	Scientific and Natural Areas Program	\$ 3,250,000	MN DNR	Ann Pierce	Statewide
Land Acquisition, Habitat, and Recreation Subtotal =			\$17,439,000			
Subd. 10 Emerging Issues Account (1 Recommendation - Subtotal = \$439,000)						
10	----	Emerging Issues Account	\$ 439,000	LCCMR	Becca Nash	Statewide
Emerging Issues Account Subtotal =			\$ 439,000			
Subd. 11 Wastewater Treatment Recommendations (0 Recommendations - Subtotal = \$0)						
11a	----	Wastewater Treatment System Grants	\$ -	LCCMR	Becca Nash	Statewide

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11b	----	Wastewater Treatment System Loans	\$ -	LCCMR	Becca Nash	Statewide
Wastewater Treatment Recommendation Subtotal =			\$ -			
Subd. 12 Contract Agreement Reimbursement (1 Recommendation - Subtotal = \$135,000)						
12	217-H	Contract Agreement Reimbursement	\$ 135,000	MN DNR	Katherine Sherman-Hoehn	Statewide
Contract Agreement Reimbursement Subtotal =			\$ 135,000			
Total \$ Recommending =			\$ 45,828,000			

* Region of Impact designated in the State include Statewide, Central, Metro, NE, NW, SE, SW. Metro region includes the 11 counties of Anoka, Carver, Chisago, Dakota, Hennepin, Isanti, Ramsey, Scott, Sherburne, Washington, and Wright.