

M.L. 2020 Environment and Natural Resources Trust Fund (ENRTF) Proposals Tentatively Recommended as of July 17, 2019 (FY 2021)

As of July 17, 2019, the Legislative-Citizen Commission on Minnesota Resources (LCCMR) has tentatively selected through simple majority 77 projects totaling \$61,387,000 to recommend to the 2020 Minnesota Legislature for funding from the Environment and Natural Resources Trust Fund (ENRTF). A final decision on recommendations is pending. In response to LCCMR's 2020 Request for Proposal (RFP), 290 proposals requesting a total of approximately \$203 million were received and considered through a competitive, multi-stage evaluation. The following *tentative recommendations* range from funding the full proposal and dollar amount requested to partial funding for specific proposal elements.

Topic Area	ENRTF \$ (\$61,387,000)	Percentage of Total
Subd. 03 Foundational Natural Resource Data and Information 15 Projects	\$8,593,000	14.00%
Subd. 04 Water Resources 8 Projects	\$3,653,000	5.95%
Subd. 05 Technical Assistance, Outreach, and Environmental Education 9 Projects	\$2,738,000	4.46%
Subd. 06 Aquatic and Terrestrial Invasive Species 7 Projects	\$10,425,000	16.98%
Subd. 07 Air Quality and Renewable Energy 3 Projects	\$573,000	0.93%
Subd. 08 Methods to Protect or Restore Land, Water, and Habitat 12 Projects	\$4,219,000	6.87%
Subd. 09 Land Acquisition, Habitat, and Recreation 21 Projects	\$29,551,000	48.14%
Subd. 10 Administration and Contract Agreement Reimbursement 1 Project	\$135,000	0.22%
Subd. 11 Wastewater Treatment Recommendations 1 Project	\$1,500,000	2.44%
Total Project \$	\$61,387,000	100.00%

Fund Source	ENRTF \$
FY 2021 - Environment and Natural Resources Trust Fund (ENRTF)	\$61,387,000
Total \$	\$61,387,000

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Draft Work Plan Subd.	Orginal Proposal ENRTF ID	Title	Total ENRTF \$ FY2021	Organization	Project Manager	Region*
Subd. 03 Foundational Natural Resource Data and Information (15 Projects - Subtotal = \$8,593,000)						
03a	001-A	Geologic Atlases for Water Resource Management	\$ 2,000,000	U of MN - Minnesota Geological Survey	Barbara Lusardi	Statewide
03b	002-A	Expanding Minnesota Ecological Monitoring Network	\$ 800,000	MN DNR	Hannah Texler	Statewide
03c	007-A	County Groundwater Atlas	\$ 1,125,000	MN DNR	Paul Putzier	Statewide
03d	008-A	Foundational Hydrology Data for Wetland Protection and Restoration	\$ 400,000	MN DNR	Doug Norris	Statewide
03e	014-A	Voyageurs Wolf Project – Phase II	\$ 575,000	U of MN	Joseph Bump	NE
03f	016-A	Expanding Restoration and Promoting Awareness of Native Mussels	\$ 489,000	Minnesota Zoological Society	Seth Stapleton	Statewide
03g	017-A	Improving Pollinator Conservation by Revealing Habitat Needs	\$ 500,000	U of MN	Colleen Satyshur	Statewide
03h	018-A	Bee Minnesota - Protect our Native Bumblebees	\$ 650,000	U of MN	Declan Schroeder	Statewide
03i	019-A	Bobcat and Fisher Habitat Use and Interactions	\$ 400,000	U of MN	Michael Joyce	Central, Metro, NW, NE
03j	025-A	Healthy Prairies III: Restoring Minnesota Prairie Plant Diversity	\$ 500,000	U of MN	Ruth Shaw	Central, Metro, NW, SW, SE
03k	040-A	Freshwater Sponges and AIS: Engaging Citizen Scientists	\$ 400,000	U of MN	Venugopal Mukku	Statewide
03l	047-AH	Do Beavers Buffer Against Droughts and Floods?	\$ 168,000	Voyageurs National Park	Steve Windels	NE
03m	048-AH	Enhancing Bat Recovery by Optimizing Artificial Roost Structures	\$ 190,000	MN DNR	Ed Quinn	Statewide
03n	049-AH	Tools for Supporting Healthy Ecosystems and Pollinators	\$ 198,000	MN DNR	Jessica Petersen	Statewide
03o	056-AH	Conserving Black Terns and Forster's Terns in Minnesota	\$ 198,000	U of MN - Duluth NRRI	Annie Bracey	Statewide

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Foundational Natural Resource Data and Information Subtotal =			\$ 8,593,000			
Subd. 04 Water Resources (8 Projects - Subtotal = \$3,653,000)						
04a	070-B	Unprecedented Change Threatens Minnesota's Pristine Lakes	\$ 600,000	Science Museum of Minnesota	Mark Edlund	Central, NW, NE
04b	080-B	Managing Highly Saline Waste from Municipal Water Treatment	\$ 250,000	U of MN	Natasha Wright	Statewide
04c	083-B	Technology for Energy-Generating On-site Industrial Wastewater Treatment	\$ 450,000	U of MN	Paige Novak	Statewide
04d	087-B	Microplastics: Transporters of Contaminants in Minnesota Waters	\$ 425,000	U of MN	Lee Penn	Statewide
04e	098-B	Developing Strategies to Manage PFAS in Land-Applied Biosolids	\$ 1,000,000	Minnesota Pollution Control Agency	Summer Streets	Statewide
04f	104-B	Quantifying New Urban Precipitation and Water Reality	\$ 500,000	U of MN	Joe Magner	Statewide
04g	114-B	Innovative Solution for Protecting Minnesota from PFAS Contamination	\$ 250,000	Dem-Con	Bill Keegan	Metro
04h	116-BH	Expanding Protection of Minnesota Water through Industrial Conservation	\$ 178,000	U of MN	Laura Babcock	Statewide
Water Resources Subtotal =			\$ 3,653,000			
Subd. 05 Technical Assistance, Outreach, and Environmental Education (9 Projects - Subtotal = \$2,738,000)						
05a	122-C	Statewide Environmental Education via Public Television Outdoor Series	\$ 300,000	Pioneer Public Television	Cindy Dorn	Statewide
05b	123-C	Minnesota Freshwater Quest: Environmental Education on State Waterways	\$ 500,000	Wilderness Inquiry	Julie Edmiston	Statewide
05c	124-C	Teach Science: Schools as STEM Living Laboratories	\$ 250,000	Climate Generation: A Will Steger Legacy	Kristen Poppleton	Statewide
05d	125-C	Mentoring Next Generation of Conservation Professionals	\$ 500,000	Minnesota Valley National Wildlife Refuge Trust, Inc.	Deborah Loon	Central, Metro, SE

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05e	127-C	Jay C. Hormel Nature Center Supplemental Teaching Staff	\$ 225,000	City of Austin	Luke Reese	SE
05f	129-C	375 Underserved Youth Learn Minnesota Ecosystems by Canoe	\$ 375,000	YMCA of the Greater Twin Cities	Kurt Simer	Metro, NE
05g	137-CH	YES! Students Take on Water Quality Challenge - Phase II	\$ 199,000	Prairie Woods Environmental Learning Center	Shelli-Kae Foster	Statewide
05h	138-CH	Engaging Minnesotans with Phenology: Radio, Podcasts, Citizen Science	\$ 198,000	Northern Community Radio, Inc.	Maggie Montgomery	Statewide
05i	139-CH	Driving Conservation Behavior for Native Mussels and Water Quality	\$ 191,000	Minnesota Zoo	Emily Kalnicky	Statewide
Technical Assistance, Outreach, and Environmental Education Subtotal =			\$ 2,738,000			
Subd. 06 Aquatic and Terrestrial Invasive Species (7 Projects - Subtotal = \$10,425,000)						
06a	155-D	Minnesota Invasive Terrestrial Plants and Pests Center (MITPPC) - Phase V	\$ 5,000,000	U of MN - MITPPC	Robert Venette	Statewide
06b	156-D	Protect Community Forests by Managing Ash for Emerald Ash Borer	\$ 3,500,000	MN DNR	Valerie McClannahan	Statewide
06c	157-D	Biological Control of White-Nose Syndrome in Bats - Phase III	\$ 440,000	U of MN	Christine Salomon	Statewide
06d	158-D	Applying New Tools and Techniques Against Invasive Carp	\$ 478,000	MN DNR	Brian Nerbonne	Central, SW
06e	159-D	Emerald Ash Borer and Black Ash: Maintaining Forests and Benefits	\$ 700,000	U of MN	Robert Slesak	Statewide
06f	167-DH	Testing Effectiveness of Aquatic Invasive Species Removal Methods	\$ 110,000	U of MN - Duluth NRRI	Valerie Brady	Statewide
06g	168-DH	Invasive <i>Didymosphenia</i> Threatens North Shore Streams	\$ 197,000	Science Museum of Minnesota	Mark Edlund	NE
Aquatic and Terrestrial Invasive Species Subtotal =			\$ 10,425,000			
Subd. 07 Air Quality and Renewable Energy (3 Projects - Subtotal = \$573,000)						

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07a	173-E	Storing Renewable Energy in Flow Battery for Grid Use	\$ 250,000	U of MN - Morris	Bryan Herrmann	Central
07b	198-EH	Eco-Friendly Plastics from Cloquet Pulp-Mill Lignin	\$ 193,000	U of MN	Simo Sarkanen	Central, NW, NE
07c	199-EH	Diverting Unsold Food from Landfills and Reducing Greenhouse Gases	\$ 130,000	Second Harvest Heartland	April Rog	Metro
Air Quality and Renewable Energy Subtotal =			\$ 573,000			
Subd. 08 Methods to Protect or Restore Land, Water, and Habitat (12 Projects - Subtotal = \$4,219,000)						
08a	207-F	Pollinator Central: Habitat Improvement with Citizen Monitoring	\$ 750,000	Great River Greening	Rebecca Tucker	Central, Metro
08b	209-F	Pollinator and Beneficial Insect Strategic Habitat Program	\$ 750,000	MN Board of Water and Soil Resources	Dan Shaw	Statewide
08c	215-F	Lignin-Coated Fertilizers for Phosphate Control	\$ 250,000	U of MN - Duluth NRRI	Eric Singsaas	Statewide
08d	216-F	Implementing Hemp Crop Rotation to Improve Water Quality	\$ 700,000	Central Lakes College	Keith Olander	Central, Metro, SW
08e	218-F	Developing Cover-Crop Systems for Sugar Beet Production	\$ 300,000	U of MN	Anna Cates	Central, NW
08f	219-F	Native Eastern Larch Beetle Decimating Minnesota's Tamarack Forests	\$ 398,000	U of MN	Brian Aukema	Central, Metro, NW, NE
08g	224-F	Habitat Associations of Mississippi Bottomland Forest Marsh Birds	\$ 275,000	National Audubon Society	Luis Ramirez	SE
08h	244-FH	Peatland Restoration in the Lost River State Forest	\$ 135,000	Roseau River Watershed District	Torin McCormack	NW
08i	245-FH	Prescribed Burning for Brushland-Dependent Species - Phase II	\$ 147,000	U of MN	Rebecca Montgomery	NE
08j	247-FH	Pollinator Habitat Creation Along Urban Mississippi River	\$ 129,000	Friends of the Mississippi River	Betsy Daub	Metro
08k	255-FH	Increase Golden Shiner Production to Protect Aquatic Communities	\$ 188,000	U of MN - Duluth - Sea Grant	John Downing	Statewide

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08l	259-FH	Restoring Turf to Native Pollinator Gardens Across Metro	\$ 197,000	Wilderness in the City	Holly Jenkins	Metro
Methods to Protect or Restore Land, Water, and Habitat Subtotal = \$ 4,219,000						
Subd. 09 Land Acquisition, Habitat, and Recreation (21 Projects - Subtotal = \$29,551,000)						
09a	261-G	DNR Scientific and Natural Areas	\$ 3,000,000	MN DNR	Molly Roske	Statewide
09b	262-G	Private Native Prairie Conservation through Native Prairie Bank	\$ 2,000,000	MN DNR	Judy Schulte	Central, NW, SW, SE
09c	263-G	Minnesota State Parks and State Trails Inholdings	\$ 3,500,000	MN DNR	Jennifer Christie	Statewide
09d	264-G	Grants for Local Parks, Trails, and Natural Areas	\$ 2,400,000	MN DNR	Audrey Mularie	Statewide
09e	265-G	Mississippi River Aquatic Habitat Restoration and Mussel Reintroduction	\$ 1,800,000	Minneapolis Park and Recreation Board	Adam Arvidson	Metro
09f	266-G	Minnesota Hunter Walking Trails: Public Land Recreational Access	\$ 300,000	Ruffed Grouse Society	Gary Drotts	Central, NW, NE
09g	267-G	Turning Back to Rivers: Environmental and Recreational Protection	\$ 1,000,000	The Trust for Public Land	DJ Forbes	Central, Metro, SW, SE
09h	268-G	Metropolitan Regional Parks System Land Acquisition - Phase VI	\$ 1,000,000	Metropolitan Council	Jessica Lee	Metro
09i	269-G	Minnesota State Trails Development	\$ 994,000	MN DNR	Kent Skaar	Statewide
09j	270-G	Elm Creek Restoration - Phase IV	\$ 500,000	City of Champlin	Todd Tuominen	Metro
09k	271-G	Superior Hiking Trail As Environmental Showcase	\$ 450,000	Superior Hiking Trail Association	Denny Caneff	NE
09l	274-G	Upper St. Anthony Falls Enhancements	\$ 2,800,000	Friends of the Lock & Dam	Kjersti Monson	Metro
09m	275-G	Whiskey Creek and Mississippi River Water Quality, Habitat, and Recreation	\$ 500,000	Mississippi Headwaters Board	Tim Terrill	Central
09n	276-G	Perham to Pelican Rapids Regional Trail (West Segment)	\$ 2,600,000	Otter Tail County	Charles Grotte	Central

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09o	277-G	Crow Wing County Community Natural Area Acquisition	\$ 400,000	Crow Wing County	Ryan Simonson	Central
09p	279-G	Rocori Trail - Phase III	\$ 1,200,000	Rocori Trail Construction Board	Pete Weber	Central
09q	281-G	Mesabi Trail: New Trail and Additional Funding	\$ 1,000,000	St. Louis and Lake Counties Regional Railroad Authority	Robert Manzoline	NE
09r	283-G	Ranier Safe Harbor and Transient Dock on Rainy Lake	\$ 762,000	City of Ranier	Sherril Gautreaux	NE
09s	284-G	Crane Lake Voyageurs National Park Campground and Visitors Center	\$ 3,100,000	Town of Crane Lake	Jim Janssen	NE
09t	285-GH	Chippewa County Acquisition, Recreation and Education	\$ 160,000	Chippewa County	Scott Williams	SW
09u	289-GH	Sportsmen's Training and Developmental Learning Center	\$ 85,000	Minnesota Forest Zone Trappers Association	Ray Sogard	NE
Land Acquisition, Habitat, and Recreation Subtotal =			\$ 29,551,000			
Subd. 10 Contract Agreement Reimbursement (1 Project - Subtotal = \$135,000)						
10	290-I	Contract Agreement Reimbursement	\$ 135,000	MN DNR	Katherine Sherman-Hoehn	Statewide
Contract Agreement Reimbursement Subtotal =			\$ 135,000			
Subd. 11 Wastewater Treatment Recommendations (1 Project - Subtotal = \$1,500,000)						
11	291-J	Wastewater Treatment Recommendations	\$ 1,500,000	Public Facilities Authority	Jeff Freeman	Statewide
Wastewater Treatment Recommendations Subtotal =			\$ 1,500,000			
Total Project \$ =			\$ 61,387,000			