

2018 Environment and Natural Resources Trust Fund Proposals Selected to Present

217 proposals requesting a total of approximately \$183 million were received. This RFP process is for funding available beginning July 1, 2018. For that period, approximately \$45 million from the Environment and Natural Resources Trust Fund is available to recommend for project funding. The LCCMR reviewed, evaluated, and ranked all proposals received. On September 13, 2017, the LCCMR selected 101 proposals to receive further consideration and to invite to present before the Commission. Proposal presentations for those invited are scheduled to occur September 26, 27, and 28 and October 3, 4, and 5.

ENRTF ID #	Last Name	First Name	Proposal Title	Organization	\$ Requested
A. Foundational Natural Resource Data and Information (SELECTED TO PRESENT: 20 Proposals / Subtotal = \$15,738,794)					
001-A	Setterholm	Dale	Minnesota Geological Survey Geologic Atlases for Water Resource Management Part-A	U of MN - MN Geological Survey	\$ 4,121,625
002-A	Putzier	Paul	County Geologic Atlas for Water Resource Sustainability Part-B	MN DNR	\$ 2,400,000
003-A	Peterson	Jeffrey	Providing Critical Water Quality Information for Lake Management	U of MN	\$ 477,000
004-A	Weiblen	George	Minnesota Biodiversity Atlas: Phase II Expansion	U of MN	\$ 496,000
006-A	Windmuller-Campione	Marcella	Maximizing Wildlife, Water, and Productivity in Peatland Forests	U of MN	\$ 698,000
007-A	Jennelle	Christopher	Deer Movement Related to potential CWD Prion Transmission	MN DNR	\$ 552,456
008-A	Montgomery	Rebecca	Safeguarding Red Pine Forest Health and Productivity	U of MN	\$ 420,000
009-A	Andersen	David	Minnesota Trumpeter Swan Migration Ecology and Conservation	U of MN	\$ 389,988
011-A	Stapleton	Seth	Conserving Minnesota's Turtles through Research and Education	Minnesota Zoological Garden	\$ 364,000
012-A	Etterson	Julie	Forest Regeneration – Validating Operational Seed Zones	U of MN - Duluth	\$ 796,395
013-A	Stanton	Daniel	Assessing Ecosystem Services Provided by Lichens and Mosses	U of MN	\$ 213,000

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014-A	VanderWaal	Kimberly	An Early Warning System for Wildlife Health Threats	U of MN	\$ 280,000
015-A	Daniel	Hernández	Restoring Prairie Biodiversity and Pollinator Habitat with Haying	Carleton College	\$ 458,362
016-A	Grinde	Alexis	Conservation of Minnesota's Forest Birds of Management Concern	U of MN - Duluth NRRI	\$ 613,998
017-A	Kinkel	Linda	Minnesota Soil Microbiomes: Foundational Database for Environmental Health	U of MN	\$ 924,000
018-A	Niemi	Gerald	Mapping Avian Movement in Minnesota	U of MN - Duluth NRRI	\$ 682,060
022-A	Ferrington	Leonard	Variable Winter Thermal Regimes and Managing Trout Streams	U of MN	\$ 499,935
027-A	Jelinski	Nicolas	Foundational Assessment of Soil Health Metrics in Minnesota	U of MN	\$ 695,477
028-A	Bruse	Tanner	Cover Crops for Wildlife Phase I	Pheasants Forever Inc	\$ 346,720
030-A	Duncan	Nancy	Data Acquisition to Develop Native Mussel Habitat Suitability	National Park Service	\$ 309,778
B. Water Resources (SELECTED TO PRESENT: 18 Proposals / Subtotal = \$10,765,545)					
034-B	Coletti	Filippo	Removing Plastic Particle Pollution from Minnesota Water Bodies	U of MN	\$ 388,557
035-B	Peck	Joel	Wastewater Treatment Plant Optimization Pilot Program	Minnesota Pollution Control Agency	\$ 236,360
036-B	Bushley	Kathryn	Phosphorus Accumulating Fungi to Control Agricultural Runoff Pollution	U of MN	\$ 361,000
037-B	Gulliver	John	Investigation of Road Salt Alternatives and Pavement Innovations	U of MN	\$ 521,999
038-B	Behrens	Sebastian	Biological Sulfate Removal for Wastewater Treatment in Minnesota	U of MN	\$ 494,000

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039-B	Singer	Randall	Defining Minnesota's Environmental Antibiotic and Antibiotic Resistance Footprint	U of MN	\$ 921,584
041-B	Schoenfuss	Heiko	Contaminant Removal Efficiency of Urban Stormwater Treatment Ponds	St. Cloud State University	\$ 377,588
042-B	Bramburger	Andrew	Rapid Detection of Algal Toxins in Minnesota Lakes	U of MN - Duluth NRRI	\$ 686,013
045-B	Ng	G.-H. Crystal	Developing a Map of Arsenic Risk in Groundwater	U of MN	\$ 550,000
048-B	Cui	Tianhong	Small Cheap Purification System for Cleaner Drinking Water	U of MN	\$ 496,788
054-B	LaPara	Timothy	Emerging Pathogens in Lakes, Rivers, and Tap Water	U of MN	\$ 355,244
055-B	Jordan	Nicholas	Working Farmlands: Targeting Alfalfa Production for Water Protection	U of MN	\$ 752,913
057-B	Peterson	Heidi	Preventing Nitrate Contamination of Groundwater Using Perennial Grains	Minnesota Department of Agriculture	\$ 759,312
064-B	Robertson	Stephen	Unregulated Contaminants: Addressing Gaps in Drinking Water Protection	Minnesota Department of Health	\$ 2,107,920
072-B	Kohno	Satomi	Increasing Contaminants and Temperature Eliminate Minnesota Turtles	St. Cloud State University	\$ 248,632
074-B	Reavie	Euan	Minnesota's Coldwater Fish Decline: Causes and Solutions	U of MN - Duluth NRRI	\$ 789,021
086-B	Ebtehaj	Ardeshir	Optimal Configuration of Windbreaks for Agricultural Water Conservation	U of MN	\$ 368,614
094-B	Christensen	Courtney	ShellRock River Watershed Stormwater Quality Trading Pilot Program	Shell Rock River Watershed District	\$ 350,000
C. Environmental Education (SELECTED TO PRESENT: 17 Proposals / Subtotal = \$7,495,311)					

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099-C	Legato	Denise	Increasing Diversity in Environmental Careers: Fellowships, Internships, Mentorships	MN DNR	\$ 1,000,000
101-C	Lenczewski	John	Connecting Students with Watersheds through Hands-on Learning	Minnesota Trout Unlimited	\$ 581,270
102-C	Evans	Elaine	Pollinator Ambassadors for Urban Gardens	U of MN	\$ 421,431
103-C	Raber	Carrie	Online Modules Build Local Capacity to Protect Groundwater	Minnesota Department of Health	\$ 335,000
106-C	Foster	Shelli-Kae	YES! Students Take on Minnesota Water Quality Challenge	Prairie Woods Environmental Learning Center	\$ 213,700
108-C	Thomas	Steve	Preserve Resources by Expanding the State's Reuse Sectors	ReUSE Minnesota	\$ 363,910
109-C	Bakken	Timothy	Phase 2 Prairie Sportsman Statewide Environmental Education Project	Pioneer Public Television	\$ 300,000
110-C	Mattson	Nicole	Unlocking the Science of Minnesotas Moose Decline	Minnesota Zoological Garden	\$ 300,000
111-C	Poppleton	Kristen	Youth Convening Minnesota	Climate Generation: A Will Steger Legacy	\$ 300,000
112-C	Holger	Sara	Get Outdoors After School!	Project Get Outdoors Inc	\$ 30,000
114-C	Yakub	Mohamed	Integrating Environmental Science Research in High School Education	U of MN	\$ 445,000
115-C	Carlson	Stephan	Students Using Local Phenology Contributes to Citizen Science	U of MN	\$ 224,000
116-C	Knight	Joseph	Strengthening Natural Resources Management with Drone Training	U of MN	\$ 132,000
118-C	Poppe	Steven	Morris Prairie Pollinator Demonstration and Education	U of MN	\$ 681,000

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120-C	Pulscher	MaryLynn	Expanding Nature Knowledge and Experience in North Minneapolis	Minneapolis Parks and Recreation Board	\$ 865,000
121-C	Suss	Ted	River Watch on the Minnesota River	Friends of the Minnesota Valley	\$ 103,000
127-C	Kline	David	Preparing Minnesotans for Changes in Wolf Management	International Wolf Center	\$ 1,200,000
D. Aquatic and Terrestrial Invasive Species (SELECTED TO PRESENT: 9 Proposals / Subtotal = \$24,709,051)					
132-D	Venette	Robert	Minnesota Invasive Terrestrial Plants and Pests Center 4	U of MN	\$ 7,000,000
133-D	Merkes	Christopher	Developing RNA Interference Genetic Controls for Zebra Mussels	U.S. Geological Survey	\$ 716,207
134-D	Sorensen	Peter	An Effective and Practical Invasive Carp Deterrent	U of MN	\$ 998,000
135-D	Abrahamson	Mark	Slow the Spread of the Emerald Ash Borer	Minnesota Department of Agriculture	\$ 14,689,500
138-D	Ambourn	Angie	Monitoring and Biocontrol of Brown Marmorated Stink Bug	Minnesota Department of Agriculture	\$ 199,224
139-D	Heathcote	Adam	Determining Minnesota's Risk of a Toxic Algal Invader	Science Museum of Minnesota - St. Croix Research Station	\$ 243,000
141-D	Chandler	Monika	Palmer Amaranth Detection and Eradication Continuation	Minnesota Department of Agriculture	\$ 431,200
147-D	Burks	Susan	Terrestrial Invasive Plant Detection Methods for Forest Lands	MN DNR	\$ 300,000
152-D	Windels	Steve	Evaluate Control Methods for Invasive Hybrid Cattails	Voyageurs National Park	\$ 131,920

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E. Air Quality, Climate Change, and Renewable Energy (SELECTED TO PRESENT: 7 Proposals / Subtotal = \$6,637,374)					
157-E	Reese	Michael	Agricultural Weed Control Using Robots	U of MN - Morris	\$ 600,000
158-E	Kortshagen	Uwe	Clean Electricity from Solar Windows	U of MN	\$ 458,494
159-E	Anderson	Ellen	Community-Scale Energy Storage Guide for Renewable Energy	U of MN	\$ 625,478
160-E	Cui	Tianhong	Cheap Solar Energy from Simple Roll-to-Roll Manufacturing	The University of Minnesota	\$ 388,852
166-E	Walsh	Kayla	Life Cycle Analysis of Anaerobic Digestion and Organics	Minnesota Pollution Control Agency	\$ 250,000
169-E	Randolph	Jimmy	Bringing Geothermal Power to MN: CO2 Power-System Test	TerraCOH Inc.	\$ 315,250
174-E	Weber	Mark	Production and Utilization of Biomass: St. Louis County	St. Louis County Land & Minerals Dept	\$ 3,999,300
F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (SELECTED TO PRESENT: 16 Proposals / Subtotal = \$23,354,030)					
178-F	Henderson	Carrol	Nongame Wildlife Program Acceleration	MN DNR	\$ 2,000,000
179-F	Remucal	David	Preserving and Restoring Minnesota's Native Orchids – Phase 2	U of MN	\$ 468,000
180-F	Schottler	Shawn	Show Me the Money: 10 Markets for Perennials	Science Museum of Minnesota - St. Croix Research Station	\$ 347,500
182-F	Quinn	Edward	Restoring Minnesota's Forests in State Parks	MN DNR	\$ 432,240
183-F	Wickert	Andrew	Sediment Hazards to Trout in Southeast Minnesota Streams	U of MN	\$ 337,000

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184-F	Ulrich	Jason	Repurposing Unprofitable Cropland: Water and Wildlife's Silver Bullet?	Science Museum of Minnesota - St. Croix Research Station	\$ 319,063
185-F	Guala	Michele	Advancing Streambank Protection Systems	U of MN	\$ 286,426
186-F	Larson	Danelle	Restoring Wetland Invertebrates to Revive Wildlife Habitat	MN DNR	\$ 417,895
187-F	Huckett	Steven	Implementing Novel Market-based Methods for Urban Habitat Restoration	Great River Greening	\$ 499,900
188-F	Pagliari	Paulo	Converting Agricultural Wastes into Energy, Polymers, and Fertilizers	U of MN	\$ 949,000
189-F	Slesak	Robert	Increasing Timber Availability and Habitat with Soil Management	U of MN	\$ 396,000
190-F	Rhees	Suzanne	Working Conservation Lands for Grazing, Harvest, and Habitat	Board of Water and Soil Resources	\$ 315,000
191-F	Haines	Dustin	Are We Turning Wild Prairie Plants into Crops?	U of MN - Duluth	\$ 555,441
194-F	Rickert	Dave	MN CREP for Water Quality and Habitat	Board of Water and Soil Resources	\$ 15,000,000
195-F	Pagliari	Paulo	Replacing Plastic Cover in Vegetable Production with BioMulch	U of MN	\$ 310,000
196-F	Voit	Jan	Okabena Creek Water Quality and Flood Protection Demonstration	Heron Lake Watershed District	\$ 720,565
G. Land Acquisition for Habitat and Recreation (SELECTED TO PRESENT: 13 Proposals / Subtotal = \$31,597,630)					
199-G	Booth	Peggy	SNA Habitat Restoration, Public Engagement, and Strategic Acquisition	MN DNR	\$ 6,760,265
200-G	Christie	Jennifer	Minnesota State Parks and State Trails Land Acquisition	MN DNR	\$ 5,000,000

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201-G	Mularie	Audrey	Local Parks, Trails and Natural Area Grants	MN DNR	\$ 3,000,000
202-G	Skaar	Kent	Minnesota State Trails - Development and Enhancement	MN DNR	\$ 5,000,000
203-G	Schulte	Judy	Private Native Prairie Conservation through Native Prairie Bank	MN DNR	\$ 4,535,000
205-G	Manzoline	Robert	Mesabi Trail, County Road 88 to Ely Segment	St. Louis & Lake Counties Regional Railroad Authority	\$ 600,000
207-G	Illg	Jerome	Harmony State Trail Extension Land Acquisition	City of Harmony	\$ 235,000
208-G	Owens	Jay	Mississippi Blufflands State Trail - Red Wing Riverfront	City of Red Wing	\$ 920,000
209-G	Caneff	Denny	Superior Hiking Trail Enhancement Plan	Superior Hiking Trail Association	\$ 100,200
212-G	Mork	Laird	Swedish Immigrant Trail Segment within Interstate State Park	Chisago County Environmental Services	\$ 2,254,665
213-G	Doty	Josh	A Local-State-Federal Partnership Protects multiple public benefits on the Mississippi River	City of Baxter	\$ 700,000
214-G	Thoreen	Jim	Mississippi Riverfront Redevelopment Project	City of Brainerd	\$ 1,000,000
215-G	Barrick	Melissa	Prioritize and Target North-Central Minnesota Lakes for Protection	Crow Wing SWCD	\$ 1,492,500
H. Other (SELECTED TO PRESENT: 1 Proposal / Subtotal = \$135,000)					
217-H	Sherman-Hoehn	Katherine	Contract Agreement Reimbursement	MN DNR	\$ 135,000