

**ENRTF 2020 Request for Proposal (RFP) - FY2021
Final Proposals Selected to Present by Category**

For the FY 2020 and FY 2021 biennium (July 1, 2019 - June 30, 2021), approximately \$61 million is available each year for funding from the Environment and Natural Resources Trust Fund. As of April 15, 2019, the Legislative-Citizen Commission on Minnesota Resources (LCCMR) received 290 proposals requesting a total of approximately \$203 million. This RFP process is for funding beginning July 1, 2020.

LCCMR reviews and evaluates all proposals against their 10 adopted evaluation criteria. On June 5, members selected 126 proposals requesting a total of approximately \$127 million to invite in for a presentation before the LCCMR on June 17 & 24-27 in order to receive further consideration. On July 17-18, LCCMR will make final selection and funding allocation decisions. These selected projects will be presented to the 2020 Minnesota Legislature as the official LCCMR recommendations for spending from the Environment and Natural Resources Trust Fund.

Check the LCCMR schedule for the most up-to-date information and important process dates.

ENRTF ID #	Last Name	First Name	Title	Organization	\$ Requested
A. Foundational Natural Resource Data and Information (SELECTED TO PRESENT: 24 Proposals / \$18,985,833)					
001-A	Lusardi	Barbara	Geologic Atlases for Water Resource Management	U of MN - Minnesota Geological Survey	\$ 4,121,625
002-A	Texler	Hannah	Expanding the Minnesota Ecological Monitoring Network	MN DNR	\$ 1,587,134
003-A	Grinde	Alexis	Win-Win Forestry: Maximizing Economic and Ecological Benefits	U of MN - Duluth NRRI	\$ 532,733
004-A	Nieber	John	Minnesota; How much Water? How is it Changing?	U of MN	\$ 529,139
005-A	Drewitz	Matt	Optimizing Land Cover Data for Water Resource Analysis	MN Board of Water and Soil Resources	\$ 370,000
007-A	Putzier	Paul	County Groundwater Atlas	MN DNR	\$ 2,250,000
008-A	Norris	Doug	Foundational Hydrology Data for Wetland Protection and Restoration	MN DNR	\$ 461,499
010-A	Groten	Joel	Real-Time Measurements of Nitrate Pollution in Surface Water	U.S. Geological Survey	\$ 631,800
014-A	Bump	Joseph	Voyageurs Wolf Project – Phase II	U of MN	\$ 608,320
016-A	Stapleton	Seth	Expanding Restoration and Promoting Awareness of Native Mussels	Minnesota Zoological Society	\$ 489,270
017-A	Satyshur	Colleen	Improving Pollinator Conservation by Revealing Habitat Needs	U of MN	\$ 615,000
018-A	Schroeder	Declan	Bee Minnesota - Protect our Native Bumblebees	U of MN	\$ 693,000

**ENRTF 2020 Request for Proposal (RFP) - FY2021
Final Proposals Selected to Present by Category**

ENRTF ID #	Last Name	First Name	Title	Organization	\$ Requested
019-A	Joyce	Michael	Bobcat and Fisher Habitat Use and Interactions	U of MN	\$ 440,719
021-A	Duncan	Nancy	Complete Sonar Data Mapping on Three Minnesota Rivers	National Park Service	\$ 525,945
022-A	Cuthbert	Francesca	Enhancing Bird and Insect Recovery in Oak Savannas	U of MN	\$ 238,000
024-A	Roy	Charlotte	Impacts of Conservation Grazing on Greater Prairie-chickens	MN DNR	\$ 560,044
025-A	Shaw	Ruth	Healthy Prairies III: Restoring MN prairie plant diversity	U of MN	\$ 1,128,000
026-A	Kiesling	Richard	Estimating Fish Production in Stressed Minnesota Lakes	U.S. Geological Survey	\$ 416,500
028-A	Mulla	David	Habitat Friendly Solar Impacts: Environmental and Economic Guidance	U of MN	\$ 751,048
031-A	Wettstein	Shannon	Morrison County Performance Drainage and Hydrology Management Phase II	Morrison SWCD	\$ 213,300
034-A	Ferrington	Leonard	Winter Dynamics of Vulnerable Trout Streams: Central Minnesota	U of MN	\$ 767,060
037-A	Blanchette	Robert	Foundational Research on Fungi and Protecting Minnesota Trees	U of MN	\$ 362,196
038-A	Koch	Richard	Taxonomic Survey of Earthworm Species in Minnesota	Bemidji State University	\$ 233,501
040-A	Mukku	Venugopal	Freshwater Sponges and AIS: Engaging Citizen Scientists	U of MN	\$ 460,000
A. Foundational Natural Resource Data and Information					
H. Proposals Seeking \$200,000 or Less (SELECTED TO PRESENT: 9 Proposals / \$1,731,000)					
047-AH	Windels	Steve	Do Beavers Buffer Against Droughts and Floods?	Voyageurs National Park	\$ 168,400
048-AH	Quinn	Ed	Enhancing Bat Recovery by Optimizing Artificial Roost Structures	MN DNR	\$ 190,271
049-AH	Petersen	Jessica	Tools for Supporting Healthy Ecosystems and Pollinators	MN DNR	\$ 198,397
051-AH	Sadowsky	Michael	Modern eDNA Technology for Better Game Fish Census	U of MN	\$ 200,000

**ENRTF 2020 Request for Proposal (RFP) - FY2021
Final Proposals Selected to Present by Category**

ENRTF ID #	Last Name	First Name	Title	Organization	\$ Requested
056-AH	Bracey	Annie	Conserving Black Terns and Forsters Terns in Minnesota	U of MN - Duluth NRRI	\$ 198,640
058-AH	Downing	John	How to Save the Cisco-Trout Lakes	U of MN - Duluth - Sea Grant	\$ 185,438
062-AH	Petersen	Jessica	Engagement and Monitoring for the Insect Apocalypse	MN DNR	\$ 191,824
064-AH	Onello	Emily	Environmental Factors Influencing Nutritional Content of Wild Rice	U of MN	\$ 198,092
066-AH	Berman	Jesse	Understanding Environmental Factors that Impact Minnesota Tick Populations	U of MN	\$ 199,938
B. Water Resources (SELECTED TO PRESENT: 19 Proposals / \$11,081,192)					
069-B	Mayer	Terin	Assessing the Value of Green Infrastructure within Minnesota's Water Infrastructure Funding Shortfall	U of MN	\$ 384,923
070-B	Edlund	Mark	Unprecedented Change Threatens Minnesotas Pristine Lakes	Science Museum of Minnesota	\$ 849,392
071-B	Ebtehaj	Ardeshir	Microplastics: Occurrence, Toxins, and Detection with Drones	U of MN	\$ 450,000
073-B	Gulliver	John	Preventing Harmful Algal Blooms through Improved Stormwater Detention	U of MN	\$ 619,031
074-B	Elliott	Sarah	Trace Organic Contaminants in Groundwater from Stormwater Infiltration	U.S. Geological Survey	\$ 910,000
075-B	Finlay	Jacques	Understanding and Managing Persistent Chloride Pollution in Freshwaters	U of MN	\$ 299,000
076-B	Heger	Sara	Reducing Chloride in Minnesota's Water from Water Softening	U of MN	\$ 362,699
078-B	Novak	Paige	Bacterial Starvation for Improved Toxic Contaminant Treatment	U of MN	\$ 235,854
080-B	Wright	Natasha	Managing Highly Saline Waste from Municipal Water Treatment	U of MN	\$ 255,000
082-B	Cotner	James	Is Glyphosate causing harmful Algal Blooms?	U of MN	\$ 427,000
083-B	Novak	Paige	Technology for Energy-Generating Onsite Industrial Wastewater Treatment	U of MN	\$ 474,939
085-B	Almendinger	James	Our Future Drinking Water: Nitrate, Tile, and Climate	Science Museum of Minnesota	\$ 330,000

**ENRTF 2020 Request for Proposal (RFP) - FY2021
Final Proposals Selected to Present by Category**

ENRTF ID #	Last Name	First Name	Title	Organization	\$ Requested
086-B	Hozalski	Raymond	Groundwater Microbiology Phase 2: Private Wells	U of MN	\$ 499,196
087-B	Penn	Lee	Microplastics: Transporters of Contaminants in Minnesota Waters	U of MN	\$ 448,630
098-B	Streets	Summer	Developing Strategies to Manage PFAS in Land-Applied Biosolids	Minnesota Pollution Control Agency	\$ 1,403,556
104-B	Magner	Joe	Quantifying A New Urban Precipitation/Water Reality	U of MN	\$ 1,377,893
108-B	Grover	Valerie	Vermillion River Surface Water and Groundwater Nitrate Impacts	Dakota County	\$ 268,000
110-B	Johnson	Heather	Increased Sample Capacity for Analysis of Pesticides	Minnesota Department of Agriculture	\$ 736,079
114-B	Keegan	Bill	Innovative Solution for Protecting Minnesota from PFAS contamination	Dem-Con	\$ 750,000
B. Water Resources					
H. Proposals Seeking \$200,000 or Less (SELECTED TO PRESENT: 2 Proposals / \$360,697)					
116-BH	Babcock	Laura	Expanding Protection of Minnesota Water through Industrial Conservation	U of MN	\$ 178,430
117-BH	Barry	John	Minnesota Sentinel Springs, Understanding Groundwater Recharge and Chemistry	MN DNR	\$ 182,267
C. Environmental Education (SELECTED TO PRESENT: 8 Proposals / \$4,659,057)					
122-C	Dorn	Cindy	Statewide Environmental Education via Public Television Outdoor Series	Pioneer Public Television	\$ 300,000
123-C	Edmiston	Julie	Minnesota Freshwater Quest: Environmental Education on State Waterways	Wilderness Inquiry	\$ 1,432,110
124-C	Poppleton	Kristen	TeachScience: Schools as STEM living laboratories	Climate Generation: A Will Steger Legacy	\$ 368,505
125-C	Loon	Deborah	Mentoring the Next Generation of Conservation Professionals	Minnesota Valley National Wildlife Refuge Trust, Inc.	\$ 755,544
127-C	Reese	Luke	Jay C. Hormel Nature Center Supplemental Teaching Staff	City of Austin	\$ 252,898
128-C	Halvorson	Joel	UMD Boreal Observatory at Chik-Wauk on the Gunflint	U of MN - Duluth	\$ 514,865
129-C	Becker	Beth	450 Underserved, Diverse Youth Gain Environmental Education	YMCA of the Greater Twin Cities	\$ 428,250

**ENRTF 2020 Request for Proposal (RFP) - FY2021
Final Proposals Selected to Present by Category**

ENRTF ID #	Last Name	First Name	Title	Organization	\$ Requested
134-C	Bloome	Katie	Restoring Land, Reviving Heritage: Conservation Through Indigenous Culture	Belwin Conservancy	\$ 606,885
C. Environmental Education					
H. Proposals Seeking \$200,000 or Less (SELECTED TO PRESENT: 4 Proposals / \$689,758)					
137-CH	Foster	Shelli-Kae	YES! Students Take on Water Quality Challenge Phase-II	Prairie Woods Environmental Learning Center	\$ 199,700
138-CH	Montgomery	Maggie	Engaging Minnesotans with Phenology: Radio, Podcasts, Citizen Science	Northern Community Radio, Inc.	\$ 198,478
139-CH	Kalnicky	Emily	Driving Conservation Behavior for Mussels and Water Quality	Minnesota Zoological Society	\$ 191,580
145-CH	Suss	Ted	River Watch on the Minnesota River	Friends of the Minnesota Valley	\$ 100,000
D. Aquatic and Terrestrial Invasive Species (SELECTED TO PRESENT: 9 Proposals / \$17,531,896)					
155-D	Venette	Robert	Minnesota Invasive Terrestrial Plants and Pests Center (MITPPC) Phase 5	U of MN - MITPPC	\$ 7,000,000
156-D	McClannahan	Valerie	Protect Community Forests by Managing Ash for EAB	MN DNR	\$ 5,929,174
157-D	Salomon	Christine	White Nose Bat Syndrome Biological Control: Phase 3	U of MN	\$ 444,636
158-D	Nerbonne	Brian	Applying New Tools and Techniques against Invasive Carp	MN DNR	\$ 578,000
159-D	Slesak	Robert	EAB and Black Ash: Maintaining Forests and Benefits	U of MN	\$ 774,000
160-D	Chandler	Monika	Tactical Invasive Plant Management Plan Development and Implementation	Minnesota Department of Agriculture	\$ 658,137
161-D	Schrank	Amy	Enhancing Habitat and Diversity in Cattail-Dominated Shorelines	U of MN	\$ 582,994
162-D	Oliver	Jonathan	Ticks! A Rising Threat in Minnesota	U of MN	\$ 300,000
164-D	Forester	Jeff	Stop Starry Invasion - Community Invasive Species Containment	Minnesota Lakes and Rivers Advocates	\$ 1,264,955
D. Aquatic and Terrestrial Invasive Species					
H. Proposals Seeking \$200,000 or Less (SELECTED TO PRESENT: 3 Proposals / \$508,095)					
167-DH	Brady	Valerie	How Effective and Protective are AIS Removal Methods?	U of MN - Duluth NRRI	\$ 110,699

**ENRTF 2020 Request for Proposal (RFP) - FY2021
Final Proposals Selected to Present by Category**

ENRTF ID #	Last Name	First Name	Title	Organization	\$ Requested
168-DH	Edlund	Mark	Invasive Rock Snot Threatens North Shore Streams	Science Museum of Minnesota	\$ 197,896
169-DH	Olson	Eric	Rainy Lake Non-native Hybridized Cattail Removal	Koochiching SWCD	\$ 199,500
E. Air Quality, Climate Change, and Renewable Energy (SELECTED TO PRESENT: 4 Proposals / \$6,891,749)					
173-E	Herrmann	Bryan	Storing Renewable Energy in Flow-Battery for Grid Use	U of MN - Morris	\$ 3,271,229
176-E	Chen	Paul	Produce Marketable Liquid Fuels from Plastic Wastes	U of MN	\$ 383,000
192-E	McCormick	Alon	Phase 2: Integrated Small-Scale Ammonia Synthesis	U of MN	\$ 2,108,520
194-E	Gardner	Robert	Minnesota Shrimp Production Using Clean Energy	U of MN	\$ 1,129,000
E. Air Quality, Climate Change, and Renewable Energy H. Proposals Seeking \$200,000 or Less (SELECTED TO PRESENT: 5 Proposals / \$849,258)					
196-EH	Anastasio	Joel	The Beltrami County Climate Vulnerability Assessment	Headwaters Regional Development Commission	\$ 180,000
198-EH	Sarkanen	Simo	Eco-Friendly Plastics from Cloquet Pulp-Mill Lignin	U of MN	\$ 193,967
199-EH	Rog	April	Diverting Unsold Food from Landfills, Reducing Greenhouse Gases	Second Harvest Heartland	\$ 130,000
201-EH	Tallaksen	Joel	Identifying Agricultural Energy Consumption and Impacts in Minnesota	U of MN	\$ 146,791
205-EH	Thibert	Jill	Rural Distributed Renewable Energy and Back-Up Power	Northwest Renewable Energy LLC	\$ 198,500
F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (SELECTED TO PRESENT: 9 Proposals / \$4,500,140)					
207-F	Buck	Wiley	Pollinator Central: Habitat improvement with citizen monitoring	Great River Greening	\$ 981,000
208-F	Huinker	Dane	Prairie to the People: Habitat Restoration and Education	Wildlife Forever	\$ 441,128
209-F	Shaw	Dan	Pollinator & Beneficial Insect Strategic Habitat Program	MN Board of Water and Soil Resources	\$ 780,500
214-F	Miller	Nathaniel	Marsh Bird Conservation Planning in St.Louis River Estuary	National Audubon Society	\$ 284,068

**ENRTF 2020 Request for Proposal (RFP) - FY2021
Final Proposals Selected to Present by Category**

ENRTF ID #	Last Name	First Name	Title	Organization	\$ Requested
215-F	Singsaas	Eric	Lignin-coated Fertilizers for Phosphate Control	U of MN - Duluth NRRI	\$ 279,382
216-F	Olander	Keith	Implementing Hemp Crop Rotation to Improve Water Quality	Central Lakes College	\$ 740,000
218-F	Cates	Anna	Developing Cover Crop Systems for Sugarbeet Production	U of MN	\$ 300,546
219-F	Aukema	Brian	Native Eastern Larch Beetle is Decimating Minnesotas Tamarack Forests	U of MN	\$ 398,180
224-F	Ramirez	Luis	Habitat Associations of Mississippi Bottomland Forest Marsh Birds	National Audubon Society	\$ 295,336
F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat					
H. Proposals Seeking \$200,000 or Less (SELECTED TO PRESENT: 5 Proposals / \$797,532)					
244-FH	McCormack	Torin	Peatland Restoration in the Lost River State Forest	Roseau River Watershed District	\$ 135,646
245-FH	Montgomery	Rebecca	Prescribed Burning for Brushland-Dependent Species-Phase II	U of MN	\$ 147,428
247-FH	Daub	Betsy	Pollinator Habitat Creation Along the Urban Mississippi River	Friends of the Mississippi River	\$ 129,297
255-FH	Downing	John	Increase Golden Shiner Production to Protect Aquatic Communities	U of MN - Duluth - Sea Grant	\$ 188,161
259-FH	Jenkins	Holly	Restoring Turf to Native Pollinator Gardens Across Metro	Wilderness in the City	\$ 197,000
G. Land Acquisition for Habitat and Recreation (SELECTED TO PRESENT: 21 Proposals / \$58,494,950)					
261-G	Schulte	Judy	DNR Scientific and Natural Areas	MN DNR	\$ 5,875,000
262-G	Schulte	Judy	Private Native Prairie Conservation through Native Prairie Bank	MN DNR	\$ 2,280,000
263-G	Christie	Jennifer	Minnesota State Parks and State Trails In-Holdings	MN DNR	\$ 5,000,000
264-G	Mularie	Audrey	Grants for Local Parks, Trails, and Natural Areas	MN DNR	\$ 3,000,000
265-G	Arvidson	Adam	Mississippi River Aquatic Habitat Restoration and Mussel Reintroduction	Minneapolis Park and Recreation Board	\$ 2,538,000
266-G	Drotts	Gary	Minnesota Hunter Walking Trails, Public Land Recreational Access	Ruffed Grouse Society	\$ 545,000

**ENRTF 2020 Request for Proposal (RFP) - FY2021
Final Proposals Selected to Present by Category**

ENRTF ID #	Last Name	First Name	Title	Organization	\$ Requested
267-G	Forbes	DJ	Turning Back to Rivers: Environmental and Recreational Protection	The Trust for Public Land	\$ 3,803,600
268-G	Mullin	Emmett	Metropolitan Regional Parks System Land Acquisition Phase 6	Metropolitan Council	\$ 2,500,000
269-G	Skaar	Kent	Minnesota State Trails Development	MN DNR	\$ 10,000,000
270-G	Tuominen	Todd	Elm Creek Restoration Phase IV	City of Champlin	\$ 650,200
271-G	Caneff	Denny	Superior Hiking Trail As Environmental Showcase	Superior Hiking Trail Association	\$ 450,000
273-G	Rosenthal	Ron	Red Wing Riverfront Trail Connection Project	City of Red Wing	\$ 682,000
274-G	Monson	Kjersti	Acquire Riverfront Land at Upper St. Anthony Falls	Friends of the Lock & Dam	\$ 3,000,000
275-G	Terrill	Tim	Whiskey Creek & Mississippi River Water Quality/Habitat/Recreation Project	Mississippi Headwaters Board	\$ 1,470,500
276-G	Grotte	Charles	Perham to Pelican Rapids Regional Trail (West Segment)	Otter Tail County	\$ 2,836,000
277-G	Simonson	Ryan	Crow Wing County Community Natural Area Acquisition	Crow Wing County	\$ 405,000
278-G	Stenson	Amber	Purchasing 316 acres for Conservation and Agriculture Education	The Food Group	\$ 1,500,000
279-G	Weber	Pete	Rocori Trail Phase 3	ROCORI Trail Construction Board	\$ 1,260,000
281-G	Manzoline	Robert	Mesabi Trail; New Trail and Additional Funding	St. Louis and Lake Counties Regional Railroad Authority	\$ 6,337,000
283-G	Gautreux	Sherril	Ranier Safe Harbor/Transient Dock on Rainy Lake	City of Ranier	\$ 762,650
284-G	Janssen	Jim	Crane Lake Voyageurs National Park Campground & Visitors Center	Town of Crane Lake	\$ 3,600,000
G. Land Acquisition for Habitat and Recreation					
H. Proposals Seeking \$200,000 or Less (SELECTED TO PRESENT: 3 Proposals / \$378,000)					
285-GH	Williams	Scott	Chippewa Acquisition, Recreation and Education	Chippewa County	\$ 160,000

**ENRTF 2020 Request for Proposal (RFP) - FY2021
Final Proposals Selected to Present by Category**

ENRTF ID #	Last Name	First Name	Title	Organization	\$ Requested
286-GH	Hasbargen	Bruce	Construction of Pedestrian/Bicycle Bridge on LSSB/GRR	Lady Slipper Scenic Byway, Inc.	\$ 133,000
289-GH	Sogard	Ray	Sportsmens Training and Developmental Learning Center	Minnesota Forest Zone Trappers Association	\$ 85,000
I. Other (SELECTED TO PRESENT: 1 Proposal / \$135,000)					
290-I	Sherman-Hoehn	Katherine	Contract Agreement Reimbursement	MN DNR	\$ 135,000