

LCCMR MEMBER 2021 PROPOSAL SELECTION COMPILED RANKINGS (Scenario A and B1, High to Low by Category)

Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
2	A. Foundational Natural Resource Data and Information (32 proposals received / subtotaling \$27,642,000)								
3	2021-071	County Groundwater Atlas	MN DNR, Ecological and Water Resources Division	Paul Putzier	\$2,500,000	12			
4	2021-138	Geologic Atlases For Water Resource Management	U of MN, MN Geological Survey	Barbara Lusardi	\$4,122,000	12			NEW
5	2021-118	2021 Groundwater Contamination Mapping Project	Minnesota Pollution Control Agency	Myrna Halbach	\$940,000	11			
6	2021-113	Minnesota Biological Survey: Setting A Future Course	MN DNR, Ecological and Water Resources Division	Bruce Carlson	\$3,200,000	9			
7	2021-159	Collaborative State And Tribal Wild Rice Monitoring Program	MN DNR, Ecological and Water Resources Division	Josh Knopik	\$859,000	9			
8	2021-055	Protecting Minnesota's Beneficial Macroalgae: All Stoneworts Aren't Starry	MN DNR, Ecological and Water Resources Division	Donna Perleberg	\$1,081,000	8			
9	2021-087	Improving Resiliency And Conservation Outcomes For Minnesota Turtles	Minnesota Zoological Society	Tricia Markle	\$460,000	7			
10	2021-278	Preserving Minnesota's Wetlands: Our Resource For Future Medicine	U of MN, Crookston	Brian Dingmann	\$247,000	7			
11	2021-396	Bioacoustics For Broad-Scale Species Monitoring And Conservation	U of MN, College of Food, Agricultural and Natural Resource Sciences	Elena West	\$359,000	7			
12	2021-103	Offal Wildlife Watching: How Do Hunters Provision Scavengers?	U of MN, College of Food, Agricultural and Natural Resource Sciences	Joseph Bump	\$531,000	6			
13	2021-359	Uniting Public And Private Sectors To Protect Pollinators	Monarch Joint Venture,	Wendy Caldwell	\$341,000	5			Check fiscal capacity
14	2021-082	Aggregate Resource Mapping Of St. Louis County	MN DNR, Lands and Minerals Division	Heather Arends	\$767,000	4			
15	2021-291	Factors Influencing Wild Turkey Productivity In Southeast Minnesota	National Wild Turkey Federation,	Matt Weegman	\$809,000	4			
16	2021-031	Grassland Bird Conservation: To Hay Or Delay?	U of MN, Duluth - NRRRI	Alexis Grinde	\$552,000	3			
17	2021-054	Distribution And Movements Of Fishers In Southern Minnesota	U of MN, Duluth - NRRRI	Michael Joyce	\$415,000	3			
18	2021-152	Assessing Benefits Of Enhancing Biodiversity In Habitat Fragments	U of MN, Cedar Creek Ecosystem Science Reserve	Forest Isbell	\$498,000	3			

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19	2021-372	Providing Critical Water Quality Information: Harmful Algal Blooms	Minnesota Pollution Control Agency	Pamela Anderson	\$657,000	3			
20	2021-104	Habitat Use And Recruitment Rates In Exurban Wolves	Minnesota State Colleges and Universities, Bemidji State University	Jacob Haus	\$263,000	2			
21	2021-133	Ticks In Minnesota! Informing Control And Response	U of MN, School of Public Health	Jesse Berman	\$250,000	2			
22	2021-228	Solar Co-Benefits: Reducing Nitrates, Enhancing Habitat, Sequestering Carbon	U of MN, College of Food, Agricultural and Natural Resource Sciences	David Mulla	\$344,000	2			
23	2021-011	Minnesota Flora: A New Generation Of Discovery	U of MN, Bell Museum of Natural History	Timothy Whitfeld	\$1,527,000	1			
24	2021-052	Monitoring Carnivores Statewide: A Citizen-Science Trail-Cam Project	U of MN, College of Food, Agricultural and Natural Resource Sciences	John Fieberg	\$450,000	1			
25	2021-056	Healthy Forests: Wildlife As Dispersers Of Beneficial Fungi	U of MN, Duluth - NRRI	Michael Joyce	\$290,000	1			
26	2021-061	Manoomin Matters	U of MN, Duluth	Emily Onello	\$314,000	1			
27	2021-126	Are Fish Mercury Concentrations Higher In Winter?	U of MN, Duluth - Large Lakes Observatory	Ted Ozersky	\$387,000	1			
28	2021-156	Human Dimensions Of Urban Carnivore Management	U of MN, College of Food, Agricultural and Natural Resource Sciences	David Fulton	\$392,000	1			
29	2021-166	Survey Of Overlooked Natural Resource: Plant Growth-Stimulating Microbes	U of MN, College of Biological Sciences	Jannell Bazurto	\$339,000	1			
30	2021-181	Update Metro MLCCS For Enhanced Natural Resource Management	Metro Conservation Districts,	Chris Lord	\$499,000	1			
31	2021-183	Supporting Integrated Resource Management Through Upgraded Lidar Products	Minnesota IT Services,	Alison Slaats	\$3,200,000	1			
32	2021-230	Opening Or Closing Parks In A Pandemic?	U of MN, St. Anthony Falls Laboratory	Michele Guala	\$343,000	1			
33	2021-243	Baseline Asbestos-Emp Study Of NE Minnesota Air, Pre-Mining	U of MN, Duluth - NRRI	Stephen Monson Geerts	\$388,000	1			
34	2021-354	Modeling Wind Energy Resources And Environment In Minnesota	U of MN, St. Anthony Falls Laboratory	Lian Shen	\$318,000	0			
35	H. Small Projects								

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Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
36	Sub: A. Foundational Natural Resource Data and Information (15 proposals received / subtotaling \$2,575,000)								
37	2021-032	What's "Bugging" Minnesota's Insect-Eating Birds?	U of MN, Duluth - NRRRI	Alexis Grinde	\$199,000	7			
38	2021-140	Redwood County Rim Easement Evaluation And Public Outreach	Redwood Soil & Water Conservation District,	Kristy Zajac	\$197,000	7			
39	2021-289	A Biodiversity Checkup For Minnesota's Big Woods	U of MN, College of Food, Agricultural and Natural Resource Sciences	Lee Frelich	\$109,000	7			
40	2021-321	Microbiome In Raptors: A New Tool For Conservation	U of MN, Raptor Center	Julia Ponder	\$129,000	7			
41	2021-019	Does The Herbicide Paraquat Harm Insect Microbial Symbionts?	U of MN, College of Food, Agricultural and Natural Resource Sciences	Ann Fallon	\$157,000	5			
42	2021-088	Minnesota Mammal Resource Atlas	U of MN, Duluth - NRRRI	Ron Moen	\$148,000	5			
43	2021-238	Morrison County Performance Drainage And Hydrology Management II	Morrison Soil and Water Conservation District	Shannon Wettstein	\$197,000	4	Faber		
44	2021-048	Precision Forest Inventory For Aspen And Red Pine	U of MN, Duluth - NRRRI	John Duplissis	\$199,000	4			
45	2021-234	Moss And Lichens Of Minnesota Prairies And Meadows	U of MN, College of Biological Sciences	Daniel Stanton	\$200,000	4			
46	2021-277	Biocontrol Breakdown In Minnesota's Spruce Budworm-Affected Forests	U of MN, College of Food, Agricultural and Natural Resource Sciences	Brian Aukema	\$200,000	3			
47	2021-027	ML 2021 Contract Agreement Reimbursement	MN DNR, Grants Unit	Katherine Sherman-Hoehn	\$135,000	2			
48	2021-112	Mapping Existing Structural Practices In Vulnerable Agricultural Landscapes	Board of Water and Soil Resources	Matt Drewitz	\$190,000	2			
49	2021-201	Status Of Bigmouth Buffalo Populations In Minnesota	U of MN, Duluth	Mark Clark	\$196,000	2			
50	2021-225	Eyes Over Minnesota's Natural Resources	SharedGeo,	Brian Huberty	\$119,000	2			Visual removed due to size
51	2021-400	Unearthing Soil Health Economics In Southern Minnesota	Minnesota Soil Health Coalition,	Jennifer Hahn	\$200,000	0			Check fiscal capacity
52	B. Water Resources (49 proposals received / subtotaling \$30,009,000)								

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Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
53	2021-358	Assessing Membrane Bioreactor Wastewater Treatment Efficacy	Minnesota State Colleges and Universities, St. Cloud State University	Heiko Schoenfuss	\$493,000	12			
54	2021-390	Antibiotic Resistance And Wastewater Treatment: Problems And Solutions	University of St. Thomas,	Justin Donato	\$508,000	10			
55	2021-384	Long-Term Nitrate Mitigation By Maintaining Profitable Kernza Production	Stearns County Soil and Water Conservation District	Dennis Fuchs	\$571,000	9			
56	2021-121	Monitoring Emerging Viruses In Minnesota's Urban Water Cycles	U of MN, College of Biological Sciences	Sebastian Behrens	\$489,000	8			
57	2021-266	Sustainable Irrigation Management: Expanding A Statewide Web Application	U of MN, College of Food, Agricultural and Natural Resource Sciences	Bryan Runck	\$1,519,000	8			
58	2021-364	Evaluating Coronavirus And Other Microbiological Contamination Of Drinking Water Sources From Wastewater	U of MN, College of Science and Engineering	Timothy LaPara	\$699,000	8			NEW- continuation of emerging issues
59	2021-376	St. James Pit Water Level Control	City of Aurora,	Becky Lammi	\$305,000	8			Draft resolution submitted - signature pending
60	2021-050	Trout Stream Habitat Restoration Success	U of MN, Duluth - NRRRI	Valerie Brady	\$375,000	7			
61	2021-144	Microgeographic Impact Of Antibiotics Released From Identified Hotspots	U of MN, College of Veterinary Medicine	Randall Singer	\$598,000	6			
62	2021-205	Scaling A Market-Driven Water-Quality Solution For Row-Crop Farming	U of MN, College of Food, Agricultural and Natural Resource Sciences	Nicholas Jordan	\$909,000	6			
63	2021-303	Rainfall History Recovered From Old Oak Tree Rings	U of MN, College of Liberal Arts	Daniel Griffin	\$332,000	6			
64	2021-047	Updating Pesticide Analytical Capabilities To Protect Minnesota Waters	Minnesota Department of Agriculture	Heather Johnson	\$3,000,000	5			
65	2021-053	Protecting Minnesota's Waters Using Sustainable Waste Materials	U of MN, Duluth - NRRRI	Bridget Ulrich	\$497,000	5			
66	2021-057	Reducing Nutrients And Methane Emissions Using Wetland Microbes	U of MN, Duluth - NRRRI	Chan Lan Chun	\$334,000	5			
67	2021-090	Leveraging Innovations In Data Analytics For Project Implementation	Minnehaha Creek Watershed District,	Brian Beck	\$883,000	5			
68	2021-130	Sediment-Phosphorus Management In Rainy-Lake Of The Woods Basin	US Geological Survey, Upper Midwest Water Science Center	Anna Baker	\$515,000	5			

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69	2021-160	Establishment Of Safe Water Reuse	U of MN, College of Food, Agricultural and Natural Resource Sciences	Satoshi Ishii	\$362,000	5			
70	2021-326	Assessing Impacts Of Boat Waves On Minnesota Lakes	U of MN, St. Anthony Falls Laboratory	Jeffrey Marr	\$420,000	5			
71	2021-382	Evaluating Landfill Leachate Pfas Reduction Utilizing Engineered Wetlands	St. Louis County,	Mark St. Lawrence	\$895,000	5			
72	2021-127	Water Storage Project Implementation Framework	International Water Institute,	Charles Fritz	\$290,000	4			Applicant based in Fargo, ND but proposed work is in MN
73	2021-134	Salt Threatens Minnesota Water Quality And Food Webs	Science Museum of Minnesota, St. Croix Watershed Research Station	Mark Edlund	\$1,174,000	4			
74	2021-177	Glyphosate, Phosphorus And Harmful Algal Blooms	U of MN, College of Biological Sciences	James Cotner	\$506,000	4			
75	2021-211	Reduction Of Environmental Impacts With Road De-Icing Alternatives	U of MN, College of Science and Engineering	John Gulliver	\$666,000	4			
76	2021-227	Seasonal Water Quality Effects Of Commercial Peat Harvesting	U of MN, College of Food, Agricultural and Natural Resource Sciences	Lucy Rose	\$204,000	4			
77	2021-265	Farming For Phosphorus Control At The Field Edge	U of MN, College of Food, Agricultural and Natural Resource Sciences	Christian Lenhart	\$577,000	4			
78	2021-142	Refined Petroleum Leaks: Improving Remediation And Risk Assessment	University of St. Thomas,	Dalma Martinovic-Weigelt	\$340,000	3			
79	2021-174	Slope Failures In Minnesota: Drivers, Projections, And Mitigation	U of MN, Duluth	Karen Gran	\$396,000	3		did we have a similar project before?	
80	2021-259	Whitewater River Evolution: Sediment Dynamics And Cross-Section Inventory	Minnesota State Colleges and Universities, Winona State University	Dylan Blumentritt	\$265,000	3			
81	2021-314	Solar-Powered Pesticide Sensor Network For Water Monitoring	U of MN, College of Science and Engineering	Tianhong Cui	\$660,000	3			
82	2021-114	Multi-Scale Aquifer Characterization For Successful Aquifer Storage/Recovery	U of MN, St. Anthony Falls Laboratory	Peter Kang	\$671,000	2			
83	2021-190	Quantitative Risk Assessment Of Pathogens In Urban Waters	U of MN, St. Anthony Falls Laboratory	Miki Hondzo	\$499,000	2			
84	2021-204	Developing Smart-N App To Reduce Corn Nitrogen Pollution	U of MN, College of Food, Agricultural and Natural Resource Sciences	Yuxin Miao	\$248,000	2			

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Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
85	2021-260	Floodplain Reconnection In Southeast Minnesota's Driftless Area	The Nature Conservancy,	Leah Hall	\$572,000	2			
86	2021-264	Automated Weed Management For Herbicide Water Runoff Reduction	U of MN, College of Science and Engineering	Junaed Sattar	\$829,000	2			
87	2021-348	Enhanced Thermophilic Anaerobic Digestion Of Swine Manure	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$609,000	2			
88	2021-349	Novel Microalgae Attached Growth For Animal Wastewater Treatment	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$760,000	2			
89	2021-350	Plastic-Wastes To Fuels And Chemicals Through Microwave-Assisted Pyrolysis	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$914,000	2			
90	2021-023	Larval Fishes As Indicators Of Lake Ecosystem Change	University of Wisconsin-La Crosse,	David Schumann	\$410,000	1			
91	2021-195	Changing Snowmelt Impacts Minnesota Forests, Streams, And Groundwater	U of MN, Institute on the Environment	Kate Brauman	\$607,000	1			required UMN resolution/letter not provided
92	2021-242	USGS Streamstats Enhances Sediment Monitoring In Minnesota	US Geological Survey, Upper Midwest Water Science Center	Joel Groten	\$300,000	1			
93	2021-279	Optimizing Youth Sports Fields To Reduce Environmental Impact	U of MN, College of Food, Agricultural and Natural Resource Sciences	Eric Watkins	\$957,000	1			
94	2021-286	Downscaling Water Storage For Comprehensive Water Resources Management	U of MN, College of Food, Agricultural and Natural Resource Sciences	John Nieber	\$592,000	1			
95	2021-317	Sensor-Embedded Purification System For Clean Drinking Water	U of MN, College of Science and Engineering	Tianhong Cui	\$536,000	1			
96	2021-346	Treatment Of Petrochemical Wastewater Using Photocatalysis And Algae	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$559,000	1			
97	2021-352	Nitrogen Fixation Using Nano-Photocatalytic Non-Thermal Plasma	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$555,000	1			
98	2021-355	Microplastics In Minnesota Water And Impact On Wildlife	U of MN, St. Anthony Falls Laboratory	Lian Shen	\$317,000	1			
99	2021-165	Microbial Degradation Of Formaldehyde To Clean Polluted Waters	U of MN, College of Biological Sciences	Jannell Bazurto	\$393,000	0			
100	2021-331	Comprehensive Identification And Visualization Of Sourcewater Protection Opportunities	U of MN, Humphrey School of Public Affairs	Ryan Noe	\$299,000	0			

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Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
101	2021-369	Determining How Altered Streamflows Impair Fish And Macroinvertebrates	US Geological Survey, Upper Midwest Water Science Center	Jeffrey Ziegeweid	\$600,000	0			
102	H. Small Projects								
103	Sub: B. Water Resources (16 proposals received / subtotaling \$2,804,000)								
104	2021-089	Sentinel Springs, Measuring Continuous Groundwater Response And Improvement	MN DNR, Ecological and Water Resources Division	John Barry	\$183,000	8			
105	2021-115	Novel Nutrient Recovery Process From Wastewater Treatment Plants	U of MN, College of Food, Agricultural and Natural Resource Sciences	Bo Hu	\$200,000	8			
106	2021-158	Evaluating Stream Habitat Projects In Southeast Minnesota	MN DNR, Fish and Wildlife Division	Doug Dieterman	\$197,000	7			
107	2021-128	Resilience And Increased Intense Rain In Minnesota Watersheds	Science Museum of Minnesota, St. Croix Watershed Research Station	Jason Ulrich	\$189,000	5			
108	2021-170	Minimizing Plastic Pollution Through Prediction Of Nano/Microplastic Generation	U of MN, College of Science and Engineering	Boya Xiong	\$200,000	5			
109	2021-076	Will BMPs Be Effective With Increased Precipitation Variability?	U of MN, Humphrey School of Public Affairs	Ryan Noe	\$63,000	2			
110	2021-237	Converting Toxic Compounds To Fuels Using Solar Energy	U of MN, College of Biological Sciences	Kathryn Fixen	\$171,000	2			
111	2021-258	Manure Testing For Better Management And Clean Water	U of MN, College of Food, Agricultural and Natural Resource Sciences	Melissa Wilson	\$200,000	2			
112	2021-267	Optimization Of Water-Quality Monitoring In Surface Waters	U of MN, College of Science and Engineering	Paul Capel	\$147,000	2			
113	2021-304	Minimizing Agricultural Impacts Through Biological Nitrogen Fixation Alternatives	U of MN, College of Food, Agricultural and Natural Resource Sciences	Brett Barney	\$196,000	2			
114	2021-379	Understanding And Fixing Excess Lake Oxygen Depletion	U of MN, Duluth	John Downing	\$171,000	2			
115	2021-381	Nitrate Testing And Education For Private Well Owners	Minnesota Department of Agriculture	Margaret Wagner	\$197,000	2			
116	2021-025	Does Micro-Pollution Impact Aquatic Food Webs And Birds?	U of MN, Duluth - NRRI	Katya Kovalenko	\$175,000	1			
117	2021-184	Algal Toxicity Detection And Mitigation In Minnesota Waters	U of MN, St. Anthony Falls Laboratory	Miki Hondzo	\$199,000	1			

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Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
118	2021-216	White Iron Chain Of Lakes: Baseline Trace Metals	US Geological Survey, Upper Midwest Water Science Center	Mark Brigham	\$117,000	1			
119	2021-189	Ag-Urban Partnership Pilot: Accelerating Action In Priority Watersheds	Minnesota State Colleges and Universities, Minnesota State University Mankato	Kimberly Musser	\$199,000	0			
120	C. Environmental Education (20 proposals received / subtotaling \$9,359,000)								
121	2021-175	Minnesota Master Naturalist: Nature For New Minnesotans	U of MN, College of Food, Agricultural and Natural Resource Sciences	Robert Blair	\$345,000	11			
122	2021-086	Boreal Observatory At Chik-Wauk On The Gunflint	Gunflint Trail Historical Society,	Joel Halvorson	\$545,000	10			
123	2021-111	Engaging Culturally-Diverse Hunting Communities On Chronic Wasting Disease	U of MN, College of Veterinary Medicine	Tiffany Wolf	\$288,000	10			NEW- cont of emerging issues
124	2021-132	Minnesota Freshwater Quest: Environmental Education For 20000 Youth	Wilderness Inquiry	Julie Edmiston	\$932,000	8			NEW- continuation
125	2021-131	Pollinator Education In The Science Classroom	U of MN, College of Food, Agricultural and Natural Resource Sciences	Elaine Evans	\$430,000	7			
126	2021-240	Engaging Diverse Low-Income Residents With Minnesota's Parks	U of MN, Extension Center for Family Development	Trina Adler	\$568,000	7			
127	2021-320	Restoring Land, Reviving Heritage: Conservation Through Indigenous Culture	Belwin Conservancy,	Katie Bloome	\$494,000	7			
128	2021-186	The Voyageurs Classroom Initiative	Voyageurs National Park Association,	Christina Hausman Rhode	\$409,000	6			
129	2021-041	Connecting Minnesotans To Water Through Environmental Education	U of MN, College of Biological Sciences	Seth Thompson	\$287,000	5			
130	2021-042	Increasing Outdoor Learning For Young Minnesotans	Wolf Ridge Environmental Learning Center,	Shannon Walz	\$450,000	5			
131	2021-386	Bird Academy: Conservation For Kids	Audubon Minnesota,	Katie Burns	\$291,000	5			Required resolution/letter not provided
132	2021-100	Mn Backyard Science: Home-Based Environmental Education And Conservation	U of MN, Humphrey School of Public Affairs	Christina Locke	\$502,000	4			
133	2021-146	Providing K-12 Residential Environmental Learning Experiences	Osprey Wilds Environmental Learning Center,	Bryan Wood	\$400,000	4			
134	2021-335	Water Quality And Robots: Experientially Educating Minnesotan Youth	U of MN, College of Science and Engineering	Nikolaos Papanikolopoulos	\$344,000	4			

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135	2021-300	Changing Yards And Minds: Overcoming Barriers To Ecoscaping	Metro Conservation Districts,	Chris Lord	\$546,000	3			
136	2021-141	ESTEEM (Earth Science Teachers Environmental Education Matters)	Minnesota Science Teachers Association,	Lee Schmitt	\$582,000	2			Check fiscal capacity
137	2021-341	Fostering Water Stewardship Through Hands-On Learning	Minnesota Trout Unlimited	John Lenczewski	\$654,000	2			Required resolution/letter not provided
138	2021-255	Cross Cultural Environmental Education	Diversity Intelligence in Climate Action,	Narayan Dhakal	\$420,000	1			Check fiscal capacity; required financial info not provided
139	2021-006	Promoting Minnesota Conservation Through Classroom Plant Science Research	U of MN, Landscape Arboretum	David Remucal	\$480,000	0			
140	2021-219	Promoting Environmental Conservation Through Storytelling	U of MN, College of Biological Sciences	Seth Thompson	\$392,000	0			
141	H. Small Projects								
142	Sub: C. Environmental Education (13 proposals received / subtotaling \$1,917,000)								
143	2021-323	Expanding Access To Environmental Education For Underserved Communities	U of MN, Raptor Center	Julia Ponder	\$178,000	8			
144	2021-224	High School River Bluff Pollinator Habitat Creation	Friends of the Mississippi River	Betsy Daub	\$28,000	6			
145	2021-026	Off-Site Construction Technology Portal	U of MN, Duluth - NRRRI	Patrick Donahue	\$197,000	5			
146	2021-116	Water: Keep It Fresh	Headwaters Science Center,	Lee Furuseth	\$86,000	5			
147	2021-157	Minnesota Conservation Outreach & Education	Pheasants Forever Inc	Marissa Jensen	\$68,000	4			
148	2021-171	Expansion Of Ymca Mobile Day Camp	YMCA of the Greater Twin Cities	Beth Becker	\$195,000	4			Required resolution/letter not provided
149	2021-214	Emergency Location Markers For Minnesota's Trails, Parks & Landings.	SharedGeo,	Brian Huberty	\$130,000	3			
150	2021-389	Firewise In The Classroom	MN DNR, Forestry Division	Casey McCoy	\$155,000	3			
151	2021-085	Ecosystem Benefits From Urban Agriculture	Hamline University,	Valentine Cadieux	\$200,000	2			

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152	2021-311	Empowering Youth To Become 21st Century Energy Leaders	U of MN, Institute on the Environment	Elizabeth Mercer-Taylor	\$200,000	2			
153	2021-391	Bioblitz Urban Parks: Engaging Community In Scientific Efforts	Minneapolis Parks and Recreation Board	MaryLynn Pulscher	\$198,000	1			
154	2021-226	Smart Lawns: Data-Driven Lawn Care Information For Homeowners	U of MN, College of Food, Agricultural and Natural Resource Sciences	Eric Watkins	\$200,000	0			
155	2021-262	The Longspur Prairie Fund Urban Prairie Learning Lab	The Longspur Prairie Fund,	Peter Schultz	\$82,000	0			Check fiscal capacity
156	D. Aquatic and Terrestrial Invasive Species (6 proposal received / subtotaling \$8,742,000)								
157	2021-188	Building Knowledge And Capacity For AIS Solutions	U of MN, MAISRC	Nicholas Phelps	\$5,000,000	12			
158	2021-217	Evaluating Minnesotas Last Best Chance To Stop Carp	U of MN, College of Food, Agricultural and Natural Resource Sciences	Peter Sorensen	\$499,000	10			
159	2021-164	Biocontrol Of Bee Lawns And Parklands	U of MN, College of Food, Agricultural and Natural Resource Sciences	Vera Krischik	\$500,000	9			
160	2021-162	Oak Wilt Suppression At The Northern Edge II	Morrison Soil and Water Conservation District	Shannon Wettstein	\$498,000	8			
161	2021-313	Stop Starry Invasion - Community Invasive Species Containment	Minnesota Lakes and Rivers Advocates,	Jeff Forester	\$1,676,000	6		smaller \$ amount	Check fiscal capacity; Map removed due to size
162	2021-383	Balancing Aquatic Plant Communities For Recreation And Conservation	Fish and Waters Conservation Fund,	John James	\$569,000	1			Check fiscal capacity; they are willing to have a fiscal agent if needed
163	H. Small Projects								
164	Sub: D. Aquatic and Terrestrial Invasive Species (3 proposals received / subtotaling \$325,000)								
165	2021-017	Starch Allocation Patterns Of Starry Stonewort (Nitellopsis Obtusa) Harvested From Lake Koronis, Mn	Minnesota State Colleges and Universities, Minnesota State University Mankato - Department of Biological Sciences	Ryan Wersal	\$101,000	6			
166	2021-091	Long-Term Efficacy Of Invasive Removal In Floodplain Forests	Macalester College,	Mike Anderson	\$25,000	6			
167	2021-268	Mississippi River Crew For Forest Resilience	Mississippi Park Connection	Mary Hammes	\$199,000	4			
168	E. Air Quality, Climate Change, and Renewable Energy (22 proposals received / subtotaling \$16,339,000)								
169	2021-169	Storing Renewable Energy In Flow-Battery For Grid Use	U of MN, Morris	Bryan Herrmann	\$3,210,000	10		can it be for smaller amount?	NEW

LCCMR MEMBER 2021 PROPOSAL SELECTION COMPILED RANKINGS (Scenario A and B1, High to Low by Category)

Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
170	2021-010	Enhanced Thermo-Active Foundations For Space Heating In Minnesota	U of MN, Duluth	Aggrey Mwesigye	\$367,000	9			
171	2021-344	Create Jobs Statewide By Diverting Materials From Landfills	Better Futures Minnesota,	Steve Thomas	\$2,992,000	9			
172	2021-294	Behavioral Response Of Bald And Golden Eagles To Acoustic Stimuli	U of MN, St. Anthony Falls Laboratory	Christopher Feist	\$307,000	7			
173	2021-315	Greenhouse Gas Sampling Approaches For Minnesota Livestock Farms	U of MN, College of Food, Agricultural and Natural Resource Sciences	Erin Cortus	\$294,000	7			
174	2021-336	Distributed Energy Storage Partnerships With Municipal And Cooperative Utilities	U of MN, Humphrey School of Public Affairs	Gabriel Chan	\$364,000	7			
175	2021-191	Agrivoltaics To Improve The Environment And Farm Resiliency	U of MN, WCROC	Bradley Heins	\$861,000	7	Reese		
176	2021-402	Strengthening Minnesota's Reuse Economy To Conserve Natural Resources	ReUse Minnesota,	Jennifer Kedward	\$393,000	6			Check fiscal capacity
177	2021-305	Reducing Plastic Waste By Innovating Waste-To-Energy Conversion Technology	U of MN, College of Science and Engineering	Boya Xiong	\$530,000	5			
178	2021-318	Efficient Filter And Sensor For Organic Pah Compounds	U of MN, College of Science and Engineering	Terrence Simon	\$275,000	5			
179	2021-398	Cleaner Air For Park Events And Disaster Resilience	City of St. Paul,	Tom Hagel	\$360,000	5			Required resolution/letter not provided
180	2021-387	Value Added Treatment Of Sewage Sludge	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$910,000	4			
181	2021-167	Solar Windows: Combining Agriculture And Photovoltaics	U of MN, College of Science and Engineering	Uwe Kortshagen	\$280,000	3			
182	2021-241	Foundational Data For Sequestering Co2 Using Minnesota Minerals	U of MN, Duluth - NRRRI	Brett Spigarelli	\$353,000	2			
183	2021-345	Treatment Of Organic Medical And Covid-19 Contaminated Wastes	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$910,000	2			
184	2021-347	Renewable And Green Polymers From Pennycress	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$559,000	2			
185	2021-351	Disinfect Airborne-Pathogens And Contaminants In Animal Production Facilities	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$754,000	2			

LCCMR MEMBER 2021 PROPOSAL SELECTION COMPILED RANKINGS (Scenario A and B1, High to Low by Category)

Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
186	2021-394	Assessing Wind Curtailment Reduction Potential Via Hydrogen Production	Aerio Technologies,	Aditya Ranade	\$751,000	2			Check fiscal capacity
187	2021-196	Electricity Generation From Glycerol - Minnesota Biodiesel Waste	Minnesota State Colleges and Universities, Minnesota State University Mankato	Jacob Swanson	\$679,000	1			
188	2021-263	The Carbon Sequestration Potential Of A Perennial Grain	U of MN, College of Food, Agricultural and Natural Resource Sciences	Jessica Gutknecht	\$219,000	1			
189	2021-290	Efficient Production And Clean Combustion Of Renewable Biofuels	U of MN, College of Science and Engineering	Suo Yang	\$681,000	1			
190	2021-392	A Novel Co2-Reducing Cement Made From Minnesota Wastes	Designs by Natural Processes, Inc.,	Carolyn Dry	\$290,000	1			Check fiscal capacity
191	H. Small Projects								
192	Sub: E. Air Quality, Climate Change, and Renewable Energy (11 proposals received / subtotaling \$1,634,000)								
193	2021-044	Bringing Minnesota Farmers Into The Low-Carbon Economy	U of MN, Duluth - NRRRI	Brian Barry	\$176,000	5			
194	2021-193	Restoration Of Riverside Park	City of Long Prairie,	Reta Dahlen	\$156,000	5			
195	2021-269	Reducing Urban Heat Through Reflective Roofs	U of MN, College of Food, Agricultural and Natural Resource Sciences	Tracy Twine	\$165,000	5			
196	2021-261	Increasing Efficiency Of Methane Digesters	U of MN, College of Biological Sciences	Kyle Costa	\$148,000	4			
197	2021-239	Increasing Recycling Of Building Materials, Supplies, Home Goods	Twin Cities Habitat for Humanity, Inc,	Pete O'Keefe	\$60,000	3			Required resolution/letter not provided; required financial info not provided
198	2021-360	Sustainable Bricks Using Minnesota Clay And Recycled Aggregate	Minnesota State Colleges and Universities, Minnesota State University Mankato	Mohammad Yamin	\$123,000	3			
199	2021-098	Biomass Inventory For Minnesota Renewable Natural Gas Production	U of MN, College of Food, Agricultural and Natural Resource Sciences	Bo Hu	\$200,000	2			
200	2021-135	Climate Mitigation Through Improved Forest Understory Health	Dovetail Partners Inc,	Ashley McFarland	\$179,000	2			
201	2021-281	Protecting Stream Banks Producing Energy	U of MN, St. Anthony Falls Laboratory	Michele Guala	\$198,000	2			
202	2021-202	Studying Solar Panels' Impact On Wetland Quality	Minnesota Solar Energy Industries Project,	David Shaffer	\$199,000	1			Check fiscal capacity

LCCMR MEMBER 2021 PROPOSAL SELECTION COMPILED RANKINGS (Scenario A and B1, High to Low by Category)

Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
203	2021-199	Twin Ports Air Quality Monitoring And Education Project	Twin Ports Action Alliance,	Kevin Swanberg	\$30,000	0			Check fiscal capacity; required resolution/letter not provided
204	F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (28 proposals received / subtotaling \$19,154,000)								
205	2021-022	Camp Ripley Sentinel Landscape Forest Restoration And Enhancements	Crow Wing Soil and Water Conservation District	Melissa Barrick	\$975,000	12			
206	2021-058	Pollinator Central II: Habitat Improvement With Community Monitoring	Great River Greening	Rebecca Tucker	\$742,000	12			NEW- continuation
207	2021-039	Restoring Mussels In Streams And Lakes - Continuation	MN DNR, Ecological and Water Resources Division	Mike Davis	\$825,000	10			
208	2021-375	Reintroduction Of Bison To Spring Lake Park Reserve	Dakota County,	Tom Lewanski	\$659,000	10			
209	2021-212	Reducing Plastic Pollution With Biodegradable Erosion Control Products	Agricultural Utilization Research Institute,	Riley Gordon	\$227,000	9			
210	2021-280	Economic And Ecological Benefits Of Soil Health	Redwood Soil & Water Conservation District,	Scott Wold	\$339,000	9			
211	2021-337	Lawns To Legumes Program Phase 2	Board of Water and Soil Resources	Dan Shaw	\$1,389,000	9			NEW- in House ENRTF bill as of 5/21
212	2021-097	Minnesota Green Schoolyards	The Trust for Public Land,	Eric Weiss	\$1,997,000	8			
213	2021-231	Urban Pollinator And Native American Cultural Site Restoration	Friends of the Mississippi River	Betsy Daub	\$250,000	8			
214	2021-065	Phase 2 - Prescribed-Fire Management For Roadside Prairies	Minnesota Department of Transportation	Nathan Johnson	\$255,000	7			
215	2021-223	Remote Sensing And Super-Resolution Imaging Of Microplastics	U of MN, St. Anthony Falls Laboratory	Ardeshir Ebtehaj	\$364,000	6			
216	2021-340	Bohemian Flats Savanna Restoration	Minneapolis Parks and Recreation Board	Adam Arvidson	\$424,000	6			
217	2021-377	Elm Creek Habitat Restoration Final Phase	City of Champlin	Todd Tuominen	\$613,000	6			NEW; Required restoration information not submitted
218	2021-094	Pollinator Habitat Study For Closed Landfill Program	Minnesota Pollution Control Agency	Eric Pederson	\$300,000	5			
219	2021-180	Carbon Sequestration And Climate Resiliency Using Forest Management	Board of Water and Soil Resources	Jeff Hrubes	\$615,000	5			

LCCMR MEMBER 2021 PROPOSAL SELECTION COMPILED RANKINGS (Scenario A and B1, High to Low by Category)

Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
220	2021-357	Quantifying Environmental Benefits Of Peatland Restoration In Minnesota	U of MN, College of Food, Agricultural and Natural Resource Sciences	Timothy Griffis	\$742,000	5			
221	2021-274	Winter Dynamics Of Vulnerable Trout Streams: Central Minnesota	U of MN, College of Food, Agricultural and Natural Resource Sciences	Leonard Ferrington	\$520,000	4			
222	2021-328	Restoring Oak Forests For Wildlife In Southeast Minnesota	National Wild Turkey Federation,	Matt Weegman	\$661,000	4			
223	2021-007	South Central Minnesota Rock Berm Fish Barriers	State Line Lake Restoration Inc,	Scott Christenson	\$855,000	3			Check fiscal capacity; required financial info not provided
224	2021-155	Rural-Urban Partnerships To Advance Conservation Farming With Technology	University of St. Thomas,	Eric Chapman	\$548,000	3			
225	2021-182	Minnesota Center For Agricultural Spray Drift Reduction	U of MN, College of Science and Engineering	Christopher Hogan	\$1,049,000	3			
226	2021-397	Creating Prioritized Plan For Restoring The Stewart River Watershed	Minnesota Trout Unlimited	John Lenczewski	\$298,000	3			Required resolution/letter not provided
227	2021-059	Maximizing Economic And Ecological Benefits Of Forest Management	U of MN, College of Food, Agricultural and Natural Resource Sciences	Marcella Windmuller-Campione	\$650,000	2			
228	2021-161	Threshold Resiliency With Increased Precipitation Uncertainty	U of MN, College of Science and Engineering	Joe Magner	\$1,899,000	1			
229	2021-283	Engineered Solutions To Remove Nitrates From Contaminated Waters	U of MN, Twin Cities	Brett Barney	\$234,000	1			
230	2021-295	Kenilworth Channel Riparian Restoration And Enhancement	Minneapolis Parks and Recreation Board	Adam Arvidson	\$930,000	1			
231	2021-213	Forests, Wildlife & Climate Change: Proactive Landscape Designs	U of MN, North Central Research and Outreach Center	Michael Carson	\$404,000	0			
232	2021-270	A Safety Rating System Of Mining Waste Storage In Northern Minnesota	U of MN, College of Science and Engineering	Joseph Labuz	\$390,000	0			
233	H. Small Projects								
234	Sub: F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (15 proposals received / subtotaling \$2,618,000)								
235	2021-020	Sleepy Eye Lake Reclamation	City of Sleepy Eye	Bob Elston	\$120,000	8			Required parcel info not provided
236	2021-062	Preserving Minnesota's Only Ball Cactus Population	U of MN, Landscape Arboretum	David Remucal	\$103,000	7			

LCCMR MEMBER 2021 PROPOSAL SELECTION COMPILED RANKINGS (Scenario A and B1, High to Low by Category)

Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
237	2021-084	Restoring Upland Forests For Birds	American Bird Conservancy, Great Lakes Program	Kevin Sheppard	\$193,000	7			
238	2021-319	Surface Water Purification System Powered By Renewable Energy	U of MN, College of Science and Engineering	Tianhong Cui	\$200,000	7			
239	2021-137	Plumbing The Muddy Depths Of Superior Hiking Trail	Superior Hiking Trail Association,	Denny Caneff	\$187,000	6			
240	2021-308	Creating Cost-Effective Forage And Management Actions For Pollinators	U of MN, College of Food, Agricultural and Natural Resource Sciences	Daniel Cariveau	\$198,000	6			
241	2021-322	Shoreline Stabilization, Fishing, ADA Improvements At Silverwood Park	Three Rivers Park District,	Jonathan Vlaming	\$200,000	6			Resolution pending due to COVID
242	2021-078	Developing A Rare Plant Rescue Program For Minnesota	Anoka Conservation District,	Carrie Taylor	\$199,000	5			
243	2021-302	Mississippi Flyway Habitat Fingers	Minneapolis Parks and Recreation Board	Adam Arvidson	\$171,000	5			
244	2021-229	Woodcrest Trail Expansion And Prairie Restoration	Country Manor Foundation,	Sara Gabrielson	\$92,000	3			Organization name on tax form and applicant name do not match--required financial info not submitted; required parcel and restoration info not provided.
245	2021-068	Shakopee Riverfront Habitat Restoration And Education Project	City of Shakopee,	Michael Kerski	\$200,000	2			
246	2021-245	Improving Landscape Ecological Value With Hazelnuts	Rural Advantage,	Linda Meschke	\$161,000	2			
247	2021-343	Small, Cheap, And Fast Nitrobenzene Detector For Water	U of MN, College of Science and Engineering	Tianhong Cui	\$200,000	1			
248	2021-356	Help MPCP By Understanding Seeds And Pollens Dispersion	U of MN, St. Anthony Falls Laboratory	Lian Shen	\$199,000	1			
249	2021-117	Water, Wildlife And Weather Friendly Labeling Pilot Program	Freshwater Society	Carrie Jennings	\$195,000	0			
250	G. Land Acquisition for Habitat and Recreation (24 proposals received / subtotaling \$49,009,000)								
251	2021-043	Local Parks, Trails And Natural Areas Grant Programs	MN DNR, Grants Unit	Audrey Mularie	\$3,000,000	15			NEW
252	2021-363	Highbanks Ravine Bat Habernaculum Project	City of St. Cloud,	Lisa Vollbrecht	\$1,100,000	13			
253	2021-049	Metropolitan Regional Parks System Land Acquisition-Phase 7	Metropolitan Council	Jessica Lee	\$3,000,000	11			NEW

LCCMR MEMBER 2021 PROPOSAL SELECTION COMPILED RANKINGS (Scenario A and B1, High to Low by Category)

Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
254	2021-154	Precision Acquisition For Restoration, Groundwater Recharge And Habitat.	Shell Rock River Watershed District	Courtney Phillips	\$549,000	11			
255	2021-012	Perham To Pelican Rapids Regional Trail (Mcdonald Segment)	Otter Tail County	Matthew Yavarow	\$2,245,000	10			NEW
256	2021-028	Mesabi Trail Cсах 88 To Ely	St. Louis & Lake Counties Regional Railroad Authority	Robert Manzoline	\$2,200,000	10			NEW?; Required parcel list and acquisition information not provided
257	2021-105	Native Prairie Stewardship & Prairie Bank Easement Acquisition	MN DNR, Ecological and Water Resources Division	Judy Schulte	\$2,100,000	10			NEW
258	2021-151	SNA Acquisition, Restoration, Citizen-Science And Outreach	MN DNR, Ecological and Water Resources Division	Molly Roske	\$4,760,000	10			NEW
259	2021-371	State Parks And State Trails In-Holdings	MN DNR, State Parks and Trails Division	Kent Skaar	\$3,725,000	10			NEW
260	2021-069	Sauk Rapids Rapids Project Lions Park	City of Sauk Rapids,	Todd Schultz	\$545,000	9			
261	2021-325	Veterans On The Lake	Veterans on the Lake,	Neil Olson	\$650,000	9			Fiscal agent is Lake County (not Cook)
262	2021-330	Brookston Campground, Boat Launch & Outdoor Recreational Facility Final	City of Brookston,	Kaycee Melin	\$500,000	9			Check fiscal capacity
263	2021-380	Accessible Fishing Piers And Shore Fishing Areas	MN DNR, State Parks and Trails Division	Nancy Stewart	\$400,000	9			
264	2021-093	Brooten Land Acquisition	Midwest Outdoors Unlimited,	Ron Welle	\$950,000	8			Check fiscal capacity; required financial info not provided; required resolution/letter not provided
265	2021-109	Moose Lake - Trunk Highway 73 Trail	City of Moose Lake,	Katie Bloom	\$330,000	8			
266	2021-329	Voyageur National Park Crane Lake Visitors Center Project	Town of Crane Lake	JoAnn Pohlman	\$3,600,000	8			NEW
267	2021-332	Moose/Seven Beaver Multi-Use Trail Upgrade	City of Hoyt Lakes,	Rebecca Burich	\$1,200,000	8			
268	2021-362	Minnesota State Trails Development	MN DNR, State Parks and Trails Division	Kent Skaar	\$6,000,000	7			NEW
269	2021-092	City Of Brainerd - Mississippi Landing Trailhead	City of Brainerd,	David Chanski	\$3,800,000	6			

LCCMR MEMBER 2021 PROPOSAL SELECTION COMPILED RANKINGS (Scenario A and B1, High to Low by Category)

Line	Proposal ID	Project Title	Organization	Project Manager	Amount Requested	Number of Members Selecting (Accounts for COI)	COI	Member Comments	Staff Comments
270	2021-338	Above The Falls Regional Park Acquisition And Restoration	Minneapolis Parks and Recreation Board	Adam Arvidson	\$1,267,000	6			
271	2021-021	Soo Line Trail Trestle Bridge	Mille Lacs County,	Dillon Hayes	\$725,000	5			
272	2021-339	Silver Lake Trail Improvement Project	City of Virginia	Britt See-Benes	\$1,428,000	5			
273	2021-013	Gateway State Trail	City of Scandia,	Kenneth Cammilleri	\$4,295,000	4			Required parcel list and acquisition information not provided
274	2021-145	Preserving Grindstone Lake's Shoreline: Mcconnell Property Acquisition	Osprey Wilds Environmental Learning Center,	Bryan Wood	\$640,000	4			
275	H. Small Projects								
276	Sub: G. Land Acquisition for Habitat and Recreation (4 proposals received / subtotaling \$631,000)								
277	2021-029	SW Mn Single Track Trail	Jackson County,	Jeremy Bartosh	\$190,000	9			
278	2021-038	Ely Trezona Trail / Pioneer Mine Site Restoration	City of Ely,	Harold Langowski	\$185,000	6			
279	2021-222	Lake Brophy Trail Expansion	Big Ole Bike Club,	Jefferson Brand	\$100,000	3			Check fiscal capacity; required financial information not provided.
280	2021-036	A Second Life For Urban Ash Trees	U of MN, Duluth - NRRRI	Matthew Aro	\$156,000	2			
281									
282				Total	\$172,758,000				