

**M.L. 2022 Environment and Natural Resources Trust Fund (ENRTF)
LCCMR Appropriations for RFP 2022/FY 2023**

On May 22, 2022, the Legislature approved 80 projects for funding from the Environment and Natural Resources Trust Fund. Twelve of the approved projects did not go through the LCCMR proposal review process, and the scope of two projects that did go through the process was modified by the Legislature. Twenty-five LCCMR-reviewed projects that were originally included in the House or Senate version of the bill were not included in the final bill. On June 3, 2022, the 80 appropriations were signed into law by the Governor as M.L. 2022, Chapter 94, with \$70,881,000 FY23 and \$2,463,000 recaptured from prior fiscal years, for \$73,344,000 in total appropriations.

Topic Area	Multiple FY's Reallocated \$	FY2023 Trust Fund \$	Total LCCMR \$ Appropriated	Percentage of Total Appropriations
Subd. 03 Foundational Natural Resource Data and Information 15 Appropriations	\$0	\$9,004,000	\$9,004,000	12.28%
Subd. 04 Water Resources 14 Appropriations	\$0	\$5,783,000	\$5,783,000	7.88%
Subd. 05 Environmental Education 9 Appropriations	\$0	\$4,269,000	\$4,269,000	5.82%
Subd. 06 Aquatic and Terrestrial Invasive Species 2 Appropriations	\$0	\$6,404,000	\$6,404,000	8.73%
Subd. 07 Air Quality and Renewable Energy 2 Appropriations	\$0	\$843,000	\$843,000	1.15%
Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat 11 Appropriations	\$0	\$11,294,000	\$11,294,000	15.40%
Subd. 09 Habitat and Recreation 14 Appropriations	\$2,183,000	\$26,179,000	\$28,362,000	38.67%
Subd. 10 Other Projects 11 Appropriations	\$0	\$6,973,000	\$6,973,000	9.51%
Subd. 11 Administrative 1 Appropriation	\$78,000	\$132,000	\$210,000	0.29%
Subd. 20 Transfers 1 Appropriation (amounts are estimate)	\$202,000	\$0	\$202,000	0.28%
Total Appropriations	\$2,463,000	\$70,881,000	\$73,344,000	100.00%

Fund Source	\$ Amount
FY 2023 - Environment and Natural Resources Trust Fund (ENRTF)	\$70,881,000
ENRTF Dollars Reallocated from 2021 Appropriations (FY20)- estimate	\$78,000
ENRTF Dollars Reallocated from 2018 Appropriations (FY19)- estimate	\$550,000
ENRTF Dollars Reallocated from 2017 Appropriations (FY18)- estimate	\$1,835,000
Total \$	\$73,344,000

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Subd. 03 Foundational Natural Resource Data and Information (15 Appropriations - Subtotal = \$9,004,000)							
03a	2022-043	Improving Golden-Winged Warbler Conservation and Habitat Restoration	U of MN, Duluth - NRRI	Alexis Grinde	\$0	\$197,000	\$197,000
03b	2022-048	Enhancing Natural Resource Conservation Through Species Distribution Modeling	MN DNR, Ecological and Water Resources Division	Holly Bernardo	\$0	\$200,000	\$200,000
03c	2022-076	Modernizing Minnesota's Digital Lake Inventory	MN DNR, Ecological and Water Resources Division	Steve Kloiber	\$0	\$787,000	\$787,000
03d	2022-091	How Do Prescribed Fires Affect Native Prairie Bees?	Negaunee Institute for Plant Conservation Science and Action at the Chicago Horticultural Society	Stuart Wagenius	\$0	\$500,000	\$500,000
03e	2022-109	Status of Minnesota Blueberries and Related Berry Species	U of MN, Duluth	Briana Gross	\$0	\$191,000	\$191,000
03f	2022-122	Distribution and Movements of Fishers in Southern Minnesota	U of MN, Duluth - NRRI	Michael Joyce	\$0	\$340,000	\$340,000
03g	2022-149	Offal Wildlife Watching: How Do Hunters' Provisions Impact Scavengers?	U of MN, College of Food, Agricultural and Natural Resource Sciences	Joseph Bump	\$0	\$473,000	\$473,000
03h	2022-163	Land-Use and Climate Impacts on Minnesota's Whitewater River	U of MN, St. Anthony Falls Laboratory	Andrew Wickert	\$0	\$199,000	\$199,000
03i	2022-185	Protecting Minnesota's Spruce-Fir Forests from Tree-Killing Budworm	U of MN, College of Food, Agricultural and Natural Resource Sciences	Brian Aukema	\$0	\$189,000	\$189,000
03j	2022-193	Restoration of Eastern Hemlock, Minnesota's Endangered Tree Species	U of MN, College of Food, Agricultural and Natural Resource Sciences	Andrew David	\$0	\$199,000	\$199,000
03k	2022-217	Establishing a Center for Prion Research and Outreach	U of MN, College of Veterinary Medicine	Peter Larsen	\$0	\$3,877,000	\$3,877,000
03l	2022-266	Sweetening the Crop: Perennial Flax for Ecosystem Benefits	U of MN, College of Food, Agricultural and Natural Resource Sciences	Neil Anderson	\$0	\$490,000	\$490,000
03m	2022-275	Beavers, Trees, and Climate - Increasing Floodplain Forest Resilience	National Park Service, Mississippi National River and Recreation Area	Nancy Duncan	\$0	\$430,000	\$430,000
03n	---	Chronic Wasting Disease Prion Soil Research	U of MN	OPEN	\$0	\$732,000	\$732,000

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03o	2022-081	Strategic Framework to Guide Local Water Storage Implementation	Board of Water and Soil Resources	Henry Van Offelen	\$0	\$200,000	\$200,000
Subd. 03 Foundational Natural Resource Data and Information Subtotal =					\$0	\$9,004,000	\$9,004,000
Subd. 04 Water Resources (14 Appropriations - Subtotal = \$5,783,000)							
04a	2022-049	Methods to Destroy PFAS in Landfill Leachates	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$0	\$200,000	\$200,000
04b	2022-087	High Temperature Anaerobic Digestion of Sewage Sludge	U of MN, College of Science and Engineering	Timothy LaPara	\$0	\$208,000	\$208,000
04c	2022-099	Mitigating Cyanobacterial Blooms and Toxins Using Clay-Algae Flocculation	U of MN, St. Anthony Falls Laboratory	Judy Yang	\$0	\$326,000	\$326,000
04d	2022-103	Changing Winters and Game Fish in Minnesota Lakes	U of MN, Duluth - Large Lakes Observatory	Ted Ozersky	\$0	\$238,000	\$238,000
04e	2022-116	Rainy River Drivers of Lake of the Woods Algal Blooms	US Geological Survey, Upper Midwest Water Science Center	Anna Baker	\$0	\$608,000	\$608,000
04f	2022-152	Water and Climate Information to Enhance Community Resilience	U of MN, College of Food, Agricultural and Natural Resource Sciences	Tracy Twine	\$0	\$564,000	\$564,000
04g	2022-155	Catch and Reveal: Discovering Unknown Fish Contamination Threats	U of MN, Duluth - NRRI	Bridget Ulrich	\$0	\$246,000	\$246,000
04h	2022-166	Increased Intense Rain and Flooding in Minnesota's Watersheds	Science Museum of Minnesota, St. Croix Watershed Research Station	Jason Ulrich	\$0	\$192,000	\$192,000
04i	2022-224	Is the Tire Chemical 6PPDq Killing Minnesota's Fish?	U of MN, College of Food, Agricultural and Natural Resource Sciences	Nicholas Phelps	\$0	\$437,000	\$437,000
04j	2022-251	Mitigation Strategies for Agroplastic PFAS and Microplastic Contamination	U of MN, WCROC	Joel Tallaksen	\$0	\$169,000	\$169,000
04k	2022-265	Innovative Technology for PFAS Destruction in Drinking Water	U of MN, Southern Research and Outreach Center	Shaobo Deng	\$0	\$445,000	\$445,000
04l	2022-272	Salt Threatens Minnesota Water Quality and Fisheries	Science Museum of Minnesota, St. Croix Watershed Research Station	Mark Edlund	\$0	\$1,228,000	\$1,228,000
04m	2022-286	PFAS Contaminant Mitigation Using Hybrid Engineered Wetlands	St. Louis County	Mark St. Lawrence	\$0	\$446,000	\$446,000
04n	2022-046	Scaling a Market-Driven Water-Quality Solution for Row-Crop Farming	U of MN, College of Food, Agricultural and Natural Resource Sciences	Nicholas Jordan	\$0	\$476,000	\$476,000
Subd. 04 Water Resources Subtotal =					\$0	\$5,783,000	\$5,783,000

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Subd. 05 Environmental Education (9 Appropriations - Subtotal \$4,269,000)							
05a	2022-026	Teacher Field School: Stewardship through Nature-Based Education	Hamline University	Patty Born	\$0	\$500,000	\$500,000
05b	2022-029	Increasing K-12 Student Learning to Develop Environmental Awareness, Appreciation, and Interest	Osprey Wilds Environmental Learning Center	Bryan Wood	\$0	\$1,602,000	\$1,602,000
05c	2022-066	Expanding Access to Wildlife Learning Bird by Bird	MN DNR, Ecological and Water Resources Division	Alison Cariveau	\$0	\$276,000	\$276,000
05d	2022-107	Engaging a Diverse Public in Environmental Stewardship	Great River Greening	Amy Kilgore	\$0	\$300,000	\$300,000
05e	2022-162	Bugs Below Zero: Engaging Citizens in Winter Research	U of MN, College of Food, Agricultural and Natural Resource Sciences	Rebecca Swenson	\$0	\$198,000	\$198,000
05f	2022-169	ESTEP: Earth Science Teacher Education Project	Minnesota Science Teachers Association	Lee Schmitt	\$0	\$495,000	\$495,000
05g	2022-236	YES! Students Take Action to Complete Eco Projects	Prairie Woods Environmental Learning Center	Shelli-Kae Foster	\$0	\$199,000	\$199,000
05h	2022-250	Increasing Diversity in Environmental Careers	MN DNR, Operational Services Division (OSD)	Mimi Daniel	\$0	\$500,000	\$500,000
05i	2022-279	Diversity and Access to Wildlife-Related Opportunities	U of MN, College of Food, Agricultural and Natural Resource Sciences	Alexandrea Safiq	\$0	\$199,000	\$199,000
Subd. 05 Environmental Education Subtotal =					\$0	\$4,269,000	\$4,269,000
Subd. 06 Aquatic and Terrestrial Invasive Species (2 Appropriations - Subtotal = \$6,404,000)							
06a	2022-067	Minnesota Invasive Terrestrial Plants and Pests Center	U of MN, MITPPC	Heather Koop	\$0	\$6,230,000	\$6,230,000
06b	2022-089	Purple Loosestrife Biocontrol Citizen Science Program	St. Croix River Association	Katie Sickmann	\$0	\$174,000	\$174,000
Subd. 06 Aquatic and Terrestrial Invasive Species Subtotal =					\$0	\$6,404,000	\$6,404,000
Subd. 07 Air Quality and Renewable Energy (2 Appropriations - Subtotal = \$843,000)							
07a	2022-180	Green Solar Cells from a Minnesota Natural Resource	U of MN, College of Science and Engineering	Chris Leighton	\$0	\$673,000	\$673,000
07b	2022-291	Morris GHG Emissions Inventory and Mitigation Strategies	City of Morris	Blaine Hill	\$0	\$170,000	\$170,000
Subd. 06 Aquatic and Terrestrial Invasive Species Subtotal =					\$0	\$843,000	\$843,000
Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat (11 Appropriations - Subtotal = \$11,294,000)							
08a	2022-006	Minnesota's Volunteer Rare Plant Conservation Corps	U of MN, Landscape Arboretum	David Remucal	\$0	\$859,000	\$859,000

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08b	2022-034	Conservation Corps Veterans Service Corps Program	Conservation Corps Minnesota	Brian Miller	\$0	\$1,339,000	\$1,339,000
08c	2022-061	Creating Seed Sources of Early-Blooming Plants for Pollinators	MN DNR, Ecological and Water Resources Division	Chrisina Locke	\$0	\$200,000	\$200,000
08d	2022-065	Hastings Lake Rebecca Park Area	City of Hastings, Parks & Recreation	Chris Jenkins	\$0	\$1,000,000	\$1,000,000
08e	2022-167	Pollinator Plantings and the Redistribution of Soil Toxins	U of MN, College of Biological Sciences	Emilie Snell-Rood	\$0	\$610,000	\$610,000
08f	2022-188	PFAS Fungal-Wood Chip Filtering System	U of MN, College of Food, Agricultural and Natural Resource Sciences	Jiwei Zhang	\$0	\$189,000	\$189,000
08g	2022-214	Phytoremediation for Extracting Deicing Salt	U of MN, College of Food, Agricultural and Natural Resource Sciences	Bo Hu	\$0	\$451,000	\$451,000
08h	2022-221	Mustinka River Fish and Wildlife Habitat Corridor Rehabilitation	Bois de Sioux Watershed District	Jamie Beyer	\$0	\$2,692,000	\$2,692,000
08i	2022-244	Bohemian Flats Savanna Restoration	Minneapolis Parks and Recreation Board	Adam Arvidson	\$0	\$286,000	\$286,000
08j	2022-260	Watershed and Forest Restoration: What a Match!	Board of Water and Soil Resources	Lindberg Ekola	\$0	\$3,318,000	\$3,318,000
08k	2022-142	River Habitat Restoration and Recreation in Melrose	City of Melrose	Colleen Winter	\$0	\$350,000	\$350,000
Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat Subtotal =					\$0	\$11,294,000	\$11,294,000
Subd. 09 Habitat and Recreation (14 Appropriations - Subtotal = \$28,362,000)							
09a	2022-005	Mesabi Trail: Wahlsten Road (CR 26) to Tower	St. Louis & Lake Counties Regional Railroad Authority	Bill Dahl	\$0	\$1,307,000	\$1,307,000
09b	2022-041	Environmental Learning Classroom with Trails	Independent School District #712, Mountain Iron Buhl Public Schools	Reggie Engebretson	\$0	\$82,000	\$82,000
09c	2022-057	Local Parks, Trails, and Natural Areas Grant Programs	MN DNR, Grants Unit	Audrey Mularie	\$0	\$3,560,000	\$3,560,000
09d	2022-088	St. Louis River Re-Connect	City of Duluth	Cliff Knettel	\$0	\$500,000	\$500,000
09e	2022-101	Native Prairie Stewardship and Prairie Bank Easement Acquisition	MN DNR, Ecological and Water Resources Division	Judy Schulte	\$0	\$1,353,000	\$1,353,000
09f	2022-111	Minnesota State Parks and State Trails Maintenance and Development	MN DNR, State Parks and Trails Division	Shelby Kok	\$2,183,000	\$1,600,000	\$3,783,000
09g	2022-135	Minnesota State Trails Development	MN DNR, State Parks and Trails Division	Kent Skaar	\$0	\$7,387,000	\$7,387,000

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09h	2022-158	SNA Habitat Restoration and Public Engagement	MN DNR, Ecological and Water Resources Division	Molly Roske	\$0	\$5,000,000	\$5,000,000
09i	2022-008	The Missing Link: Gull Lake Trail, Fairview Township	Fairview Township	Marla Yoho	\$0	\$1,394,000	\$1,394,000
09j	2022-127	Silver Bay Multimodal Trailhead Project	City of Silver Bay	Lana Fralich	\$0	\$1,000,000	\$1,000,000
09k	2022-140	Brookston Campground, Boat Launch, and Outdoor Recreational Facility	City of Brookston	Kaycee Melin	\$0	\$453,000	\$453,000
09l	2022-143	Silver Lake Trail Connection	City of Virginia	Britt See-Benes	\$0	\$727,000	\$727,000
09m	2022-150	Floodwood Campground Improvement Project	City of Floodwood	Corinne Suonvieri	\$0	\$816,000	\$816,000
09n	2022-165	Ranier Safe Harbor/Transient Dock - Phase 2	City of Ranier	Sherril Gautreaux	\$0	\$1,000,000	\$1,000,000
Subd. 09 Habitat and Recreation Subtotal =					\$2,183,000	\$26,179,000	\$28,362,000
Subd. 10 Other Projects (11 Appropriations - Subtotal = \$6,973,000)							
10a	---	Aggregate Resource Mapping	MN DNR	OPEN		\$500,000	\$500,000
10b	---	Leaded Gasoline Contamination Analysis	City of Paynesville	OPEN		\$200,000	\$200,000
10c	---	Living Snow Fence Program	Minnesota Department of Transportation	OPEN		\$200,000	\$200,000
10d	---	Forest Data Inventory	MN DNR	OPEN		\$500,000	\$500,000
10e	---	Conservation Reserve Program State Incentives	Board of Water and Soil Resources	OPEN		\$750,000	\$750,000
10f	---	Groundwater Storage and Recovery Database	MN DNR	OPEN		\$400,000	\$400,000
10g	---	Rural and Farmstead Ring Levees	MN DNR	OPEN		\$360,000	\$360,000
10h	---	Replacing Failing Septic Systems to Protect Groundwater	Minnesota Pollution Control Agency	OPEN		\$2,000,000	\$2,000,000
10i	---	Forever Green	U of MN	OPEN		\$763,000	\$763,000
10j	---	Pig's Eye Landfill Task Force	Minnesota Pollution Control Agency	OPEN		\$800,000	\$800,000
10k	---	Developing Markets for Continuous Living Cover Crops	Minnesota Department of Agriculture	OPEN		\$500,000	\$500,000
						\$0	\$6,973,000
Subd. 11 Administrative (1 Appropriation - Subtotal = \$210,000)							
11	2022-121	Contract Agreement Reimbursement	MN DNR, Grants Unit	Katherine Sherman-Hoehn	\$78,000	\$132,000	\$210,000
Subd. 10 Other Projects Subtotal =					\$78,000	\$132,000	\$210,000
Subd. 20 Transfers* (1 Appropriation - Subtotal = \$202,000)							
20a	2022-111	SEE SUBD. 09f- Minnesota State Parks and State Trails Maintenance and Development (\$2,183,000)	MN DNR, State Parks and Trails Division	Kent Skaar	---	---	---
20b	---	Emerging Issues Account	Legislative-Citizen Commission on Minnesota Resources	Becca Nash	\$202,000	\$0	\$202,000

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20c	2022-121	SEE SUBD. 11 - 2022 Contract Agreement Reimbursement (\$78,000)	MN DNR, Grants Unit	Katherine Sherman-Hoehn	---	---	---
Subd. 20 Transfers Subtotal =					\$202,000	\$0	\$202,000
Total \$ =					\$2,463,000	\$70,881,000	\$73,344,000

*Estimate amount, pending final close-out of completing projects being transferred