

Environment and Natural Resources Trust Fund (ENRTF)
Projects completing in 2024
Data as of 12/6/24

	Appropriation End Date	RFP Year	Subd.	Proposal ID #	Project Title w/link to Final Report	Organization	Project Manager	Amount Appropriated	Soundbite of Outcomes
1	6/30/2024	2018	04l	---	Lake Agnes Treatment	Alexandria Lake Area Sanitary District (ALASD)	Anne Wilkinson	\$ 600,000	Lakes Winona, Agnes and Henry have historically contained phosphorus levels that exceeded the State's standards. The outcomes of the alum treatment to Lake Agnes resulted in a 96% reduction in internal phosphorus loading compared to pre-treatment conditions. Common carp density in Lake Winona remains high despite two removal events.
2	6/30/2024	2018	06a	---	Minnesota Invasive Terrestrial Plants and Pests Center - Phase 4	U of MN - MITPPC	Robert Venette	\$ 3,500,000	The Minnesota Invasive Terrestrial Plants and Pests Center (MITPPC) funded 12 research sub-projects through this appropriation to help protect Minnesota lands from 16 priority invasive species, such as buckthorn, corn tar spot, Dutch elm disease, and non-native Phragmites. Discoveries improved detection methods and generated new management options.
3	6/30/2024	2018	08e	---	Restoring Forests in Minnesota State Parks	MN DNR	Edward Quinn	\$ 250,000	This project restored 255 acres of open fields and a previously logged area back to forested native plant communities in four state parks, where it will permanently managed and protected.
4	6/30/2024	2019	03d	---	Minnesota Trumpeter Swan Migration Ecology and Conservation	U of MN	David Andersen	\$ 300,000	We tracked the movements of trumpeter swans throughout Minnesota and the greater Midwest, demonstrating that trumpeter swans have high individual variability in their seasonal migration patterns. Our project provides important ecological information on this charismatic waterfowl species that was successfully reintroduced to Minnesota.
5	6/30/2024	2019	05d	---	Increasing Diversity in Environmental Careers	MN DNR	May Yang	\$ 250,000	Pending
6	6/30/2024	2019	08a	---	Saving Endangered Pollinators through Data-Driven Prairie Restoration	Minnesota Zoo	Erik Runquist	\$ 800,000	We have advanced conservation of the Dakota skipper with an intensive propagation and reintroduction program, enhanced hundreds of acres of habitat that they and other prairie wildlife depend upon, and provided key insights into the stressors on their populations and environmental factors that are needed to support their recovery.
7	6/30/2024	2019	09a	---	Minnesota Scientific and Natural Areas	MN DNR	Judy Schulte	\$ 3,500,000	Protected a mix of native plant communities which house state endangered and special concerns species, Species in Greatest Conservation Need and a wide variety of other species through additions to Quarry Park SNA and Grey Cloud Dunes SNA. Over 1,980 acres across 62 SNAs had restoration and enhancement activities executed.
8	6/30/2024	2019	09c	---	Minnesota State Parks and State Trails In-Holdings	MN DNR	Shelby Kok	\$ 2,000,000	Acquisition of Minnesota State Park and State Trail land provides permanent, effective and consolidated protection and management of pristine natural areas representative of diverse landscapes throughout the entire state of Minnesota for perpetual enjoyment by State Park and Trail users.
9	6/30/2024	2019	09d	---	Minnesota State Trails Development	MN DNR	Kent Skaar	\$ 5,000,000	Pending
10	6/30/2024	2019	09j	---	Preserving the Avon Hills with Reverse-Bidding Easements	Saint John's University	John Geissler	\$ 1,600,000	This project permanently protected 383.03 acres of high-quality forest, wetland, and grassland habitat in the ecologically rich Avon Hills while leveraging \$155,341 through landowner donation of easement value. Additionally, we restored/enhanced 321.15 acres of forest, prairie/grassland, and wetland habitat on permanently protected properties in the Avon Hills.
11	06/30/2023	2020	11	2020-008	Contract Agreement Reimbursement	MN DNR, Grants Unit	Katherine Sherman-Hoehn	\$135,000	This appropriation was used to support the ENRTF contract management program, which ensured that ENRTF grantees expended grant funds in compliance with state law, session law, approved work plans, and Office of Grants Management grants policies.
12	06/30/2024	2020	03a	2020-074	Geologic Atlases For Water Resource Management	U of MN, MN Geological Survey	Barbara Lusardi	\$2,000,000	Pending
13	06/30/2024	2020	03b	2020-023	Expanding Minnesota Ecological Monitoring Network	MN DNR, Ecological and Water Resources Division	Holly Bernardo	\$800,000	In total, 226 monitoring plots were installed in The Ecological Monitoring Network (EMN). Substantial improvements were made to the EMN database, including enhanced security and connections to DNR's Natural Heritage Information System. Preliminary findings using all 412 plots are available online for land managers, conservation practitioners and decision makers.
14	06/30/2024	2020	03c	2020-009	County Groundwater Atlas	MN DNR, Ecological and Water Resources Division	Vanessa Baratta-Person	\$1,125,000	The Groundwater Atlas provides foundational, science-based, information for use and management of Minnesota groundwaters. The atlas is valuable to government, industry, and for research. The grant supported work on thirteen atlases and publication of county groundwater atlases (County Atlas Part B) for Cass and Becker counties.

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15	06/30/2024	2020	03g	2020-032	Improving Pollinator Conservation By Revealing Habitat Needs	U of MN, College of Biological Sciences	Colleen Satyshur	\$500,000	Our wild bees need nests to grow and overwinter, yet plants used in nest construction remain poorly understood. Alongside volunteers from all ecological sections of Minnesota, we gathered plant matter from bee nests for novel analysis by spectrometry (resins) or genetic sequencing (leaves) to identify the plants these pollinators use.
16	06/30/2024	2020	03h	2020-003	Bee Minnesota – Protect Our Native Bumblebees	U of MN, College of Veterinary Medicine	Declan Schroeder	\$650,000	Our goal was to assess if Minnesota native bee pollinators were at risk of disease transmission (pathogen Spillover) from honeybees. We found that honeybees and bumblebees have distinct virus communities and while they do share the same habitat, this has not resulted in widespread transmission and infection in bumblebees.
17	06/30/2024	2020	03k	2020-027	Freshwater Sponges And AIS: Engaging Citizen Scientists	U of MN, Crookston	Venugopal Mukku	\$400,000	Pending
18	06/30/2024	2020	03l	2020-016	Do Beavers Buffer Against Droughts And Floods?	National Park Service, Voyageurs National Park	Steve Windels	\$168,000	Pending
19	06/30/2024	2020	03o	2020-007	Conserving Black Terns And Forster's Terns In Minnesota	U of MN, Duluth - NRRRI	Annie Bracey	\$198,000	Pending
20	06/30/2024	2020	04a	2020-037	Managing Highly Saline Waste From Municipal Water Treatment	U of MN, College of Science and Engineering	Natasha Wright	\$250,000	Pending
21	06/30/2024	2020	04e	2020-055	Quantifying New Urban Precipitation and Water Reality	U of MN, College of Science and Engineering	Joe Magner	\$500,000	Pending
22	06/30/2024	2020	04f	2020-034	Innovative Solution for Protecting Minnesota from PFAS Contamination	Dem-Con	Bill Keegan	\$250,000	Given that it is unclear when the regulatory environment will be stabilized, Dem-Con is withdrawing our current project from LCCMR and returning the funds for reallocation to other projects benefitting Minnesota.
23	06/30/2025	2020	04g	2020-024	Expanding Protection Of Minnesota Water Through Industrial Conservation	U of MN, School of Public Health	Bruce Alexander	\$178,000	Pending
24	06/30/2024	2020	05a	2020-059	Statewide Environmental Education Via Public Television Outdoor Series	Pioneer PBS	Cindy Dorn	\$300,000	Pioneer PBS produced 26 new episodes of Prairie Sportsman, a statewide television series designed to inspire Minnesotans to connect with the outdoors and protect our valuable natural resources. Broadcast in 2022 and 2023, the two 13-episode seasons feature a wide range of topics filmed throughout the state.
25	06/30/2023	2020	05b	2020-041	Minnesota Freshwater Quest: Environmental Education On State Waterways	Wilderness Inquiry	Julie Edmiston	\$500,000	Wilderness Inquiry's Freshwater Quest engaged 8,833 youth across all regions of Minnesota. Using place-based outdoor environmental education, this project inspired the next generation of stewards of Minnesota's natural resources helping to preserve our state's outdoor economy and the vibrancy and health of our environment and residents.
26	06/30/2024	2020	05c	2020-061	Teach Science: Schools as STEM Living Laboratories	Climate Generation	Lindsey Kirkland	\$250,000	In schools, the environment and infrastructure surrounding students can bring science practices to life. TeachScience teachers increased their confidence in environmental education topics and practiced effective teaching strategies proven to build stronger conservation and sustainability ethic in students. Students experienced hands-on learning opportunities; connecting environmental learning opportunities to their curriculum.
27	06/30/2024	2020	05d	2020-038	Mentoring the Next Generation of Conservation Professionals	Minnesota Valley National Wildlife Refuge Trust Inc	Deborah Loon	\$500,000	"Mentoring the Next Generation of Conservation Professionals" employed 16 emerging professionals in full-time developmental positions over two years on the Minnesota Valley National Wildlife Refuge. Participants worked alongside USFWS professionals in conservation biology, visitor services, community outreach and environmental education as they learned, built skills, and explored conservation careers.
28	06/30/2024	2020	05e	2020-036	Jay C. Hormel Nature Center Supplemental Teaching Staff	City of Austin	Luke Reese	\$225,000	Over three years, funding from the ENRTF through the LCCMR enabled the Jay C. Hormel Nature Center to engage over 4,500 students outside Austin and provide 50% more summer programming. Curricula designed to foster environmental ethics reached many additional families, contributing to the protection of Minnesota's natural resources.
29	06/30/2025	2020	05f	2020-001	375 Underserved Youth Learn Minnesota Ecosystems By Canoe	YMCA of the Greater Twin Cities	Beth Becker	\$375,000	Pending

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30	06/30/2024	2020	05g	2020-069	Yes! Students Take On Water Quality Challenge II	Prairie Woods Environmental Learning Center	Kalley Pratt	\$199,000	Since the start of this grant, 650 students across 35 YES Teams have completed 130 eco-action projects, impacting over 65,000 community members. Students volunteered 2,800 hours, partnering with 145 experts. Projects addressed water conservation, invasive species, and more, with over 36 workshops held statewide.
31	06/30/2024	2020	05h	2020-021	Engaging Minnesotans With Phenology: Radio, Podcasts, Citizen Science	Northern Community Radio, Inc.	Sarah Bignall	\$198,000	The Engaging Minnesotans with Phenology project empowered over 89 educators and 2,500 students to connect deeply with nature. By airing 749 student reports and producing weekly podcasts, we inspired communities to engage with the outdoors, fostering a new generation of conservationists and strengthening Minnesotans' connection to their natural environment.
32	06/30/2024	2020	05i	2020-017	Driving Conservation Behavior For Mussels And Water Quality	Minnesota Zoological Garden	Carol Strecker	\$191,000	Pending
33	06/30/2024	2020	05j	2020-079	Workshops and Outreach to Protect Raptors from Lead Poisoning	U of MN, Raptor Center	Julia Ponder	\$133,000	Pending
34	06/30/2024	2020	06d	2020-002	Applying New Tools And Techniques Against Invasive Carp	MN DNR, Fish and Wildlife Division	Brian Nerbonne	\$478,000	Pending
35	06/30/2024	2020	06f	2020-063	Testing Effectiveness of Aquatic Invasive Species Removal Methods	U of MN, Duluth - NRRRI	Valerie Brady	\$110,000	Pending
36	06/30/2024	2020	06g	2020-035	Invasive Didymosphenia Threatens North Shore Streams	Science Museum of Minnesota, St. Croix Watershed Research Station	Mark Edlund	\$197,000	Didymo or rocksnot has invaded our North Shore. Two years of sampling showed eight streams whose future recreational opportunities, stream ecologies, and local economies may be threatened. We've informed resource managers, the public, stakeholders, colleagues, even kids about the threat of this aquatic invasive species and how we will respond.
37	06/30/2024	2020	07a	2020-073	Storing Renewable Energy In Flow-Battery For Grid Use	U of MN, Morris	Bryan Herrmann	\$250,000	The project storing renewable energy in a rural area is demonstrating the use of advanced battery chemistries to focus use cases around load leveling, peak shaving, and market services. Expansion of the solar PV system and efforts to enhance grid stability and a foundation for renewable energy implementation in Minnesota.
38	06/30/2024	2020	07b	2020-018	Eco-Friendly Plastics From Cloquet Pulp-Mill Lignin	U of MN, College of Food, Agricultural and Natural Resource Sciences	William Tai Yin Tze	\$193,000	Plastic pollution has a dire impact on Minnesota's water, land and many natural resources. This project contributes to better environmental stewardship by converting surplus lignin from Sappi mill in Cloquet to eco-friendly plastics. Several promising plastics formulations were developed. They can potentially replace non-biodegradable plastics such as polystyrene.
39	06/30/2024	2020	07c	2020-014	Diverting Unsold Food From Landfills, Reducing Greenhouse Gases	Second Harvest Heartland	Lindsey Ochmanek	\$130,000	During the grant period, we collected over 400,000 pounds of prepared and perishable foods that helped to serve our partners and diverted food waste from landfills. We enrolled 150 new donors to the program and 29 agencies that can receive donations.
40	6/30/2025	2020	08a	2020-050	Pollinator Central: Habitat Improvement with Citizen Monitoring	Great River Greening	Rebecca Tucker	\$750,000	Pollinator Central: Habitat Improvement with Citizen Monitoring established native habitat on 408 acres at 15 project sites and directly engaged 575 volunteers and 224 citizen scientists, enhancing the natural environment of both urban and rural areas as well as connecting people with plants, pollinators, and their local communities.
41	06/30/2024	2020	08c	2020-077	Lignin-Coated Fertilizers for Phosphate Control	U of MN, Duluth - NRRRI	Eric Singsaas	\$250,000	Pending
42	06/30/2024	2020	08h	2020-048	Peatland Restoration in the Lost River State Forest	Roseau River Watershed District	Tracy Halstengard	\$135,000	Pending
43	06/30/2024	2020	08i	2020-052	Prescribed Burning For Brushland-dependent Species-Phase II	U of MN, College of Food, Agricultural and Natural Resource Sciences	Rebecca Montgomery	\$147,000	Pending
44	06/30/2024	2020	08l	2020-078	Restoring Turf to Native Pollinator Gardens Across Metro	Wilderness in the City	Maryann Passe	\$197,000	The Turf to Pollinator Gardens Project transformed six areas of turf grass into diverse pollinator plantings in parks across the metro. The gardens serve as demonstration sites to inspire park visitors to restore some of their home yards to pollinator beneficial native plantings.
45	06/30/2024	2020	08m & 20b	2020-076	Lawns To Legumes Program Phase 2	Board of Water and Soil Resources	Dan Shaw	\$1,040,000	The Lawns to Legumes Program is focused on building a movement to support at-risk pollinator species. The project resulted in nearly 3000 high diversity residential plantings covering, 4.6 million square feet, and a large numbers of DIY projects across Minnesota inspired and guided by the program.

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46	06/30/2024	2020	09a	2020-015	DNR Scientific and Natural Areas	MN DNR, Ecological and Water Resources Division	Judy Schulte	\$3,000,000	Protected Dry Mesic Oak (Red Maple) Forest with exposed granite outcrops home to several state Species in Greatest Conservation Need and a wide variety of other species. Restored and enhanced over 1,111 acres across 58 SNAs. Co-hosted the 2022 Natural Areas Conference with over 300 attendees from 32 states.
47	06/30/2024	2020	09d	2020-028	Grants for Local Parks, Trails, and Natural Areas	MN DNR, State Parks and Trails Division	Jenni Bubke	\$2,400,000	Pending
48	06/30/2024	2020	09f	2020-042	Minnesota Hunter Walking Trails, Public Land Recreational Access	Ruffed Grouse Society	scott johnson	\$300,000	The Ruffed Grouse Society/American Woodcock Society (RGS) successfully worked with fifteen public forest land administrators to assess needs of the existing approximately 1000 miles of hunter walking trails; secured contract and supply needs; and finalized and implemented trailhead (171 sites) and trail (75.3 miles) enhancements on 146 trails.
49	06/30/2024	2020	09h	2020-072	Metropolitan Regional Parks System Land Acquisition- Phase 6	Metropolitan Council	Jessica Lee	\$1,000,000	The Metropolitan Council worked with Dakota County, Washington County, Ramsey County, and Three Rivers Park District to acquire land for the Metropolitan Regional Parks and Trails System. Over 100 acres of undeveloped land was acquired to protect high-quality natural resources in the metro area and to provide nature-based recreational opportunities.
50	06/30/2024	2020	09i	2020-045	Minnesota State Trails Development	MN DNR, State Parks and Trails Division	Kent Skaar	\$994,000	Pending
51	06/30/2024	2020	09j	2020-019	Elm Creek Restoration - Phase IV	City of Champlin	Heather Nelson	\$500,000	Elm Creek Restoration Phase IV was an in-stream habitat restoration project that included 5,300 linear feet of stream bank restoration upstream of Mill Pond in the City of Champlin. The project spanned from the Josephine Nunn pedestrian bridge to just passed the Elm Creek Crossings Bridge.
52	06/30/2024	2020	09k	2020-060	Superior Hiking Trail As Environmental Showcase	Superior Hiking Trail Association	Lisa Luukkala	\$450,000	Pending
53	06/30/2024	2020	09m	2020-068	Whiskey Creek & Mississippi River Water Quality/Habitat/Recreation	Mississippi Headwaters Board	Tim Terrill	\$500,000	Thirteen acres were acquired by the city of Baxter to develop a stormwater pond that will capture 400 acres of drainage from Hwy. 371 and surrounding impervious surfaces. ENRTF funds were used for acquisition and Clean Water Funds were used to build the pond.
54	06/30/2024	2020	09n	2020-049	Perham to Pelican Rapids Regional Trail (West Segment)	Otter Tail County	Kevin Fellbaum	\$2,600,000	Otter Tail County with the help of funding provided by LCCMR were able to build a 7.02-mile multi-modal trail system that connects the city of Pelican Rapids and residents of Otter Tail County to Maplewood State Park. This infrastructure allows people to get outside and enjoy the natural environment.
55	06/30/2022	2020	09o	2020-011	Crow Wing County Community Natural Area Acquisition	Crow Wing County	Tom Strack	\$400,000	We acquired nearly 70 acres of private land adjacent to our historic fire tower county park, protecting and buffering the park from nearby development as well as providing additional area for the park to be expanded and protecting the natural resources in the area.
56	06/30/2024	2020	09p	2020-057	Rocori Trail - Phase III	Rocori Trail Construction Board	Pete Weber	\$1,200,000	Pending
57	06/30/2024	2020	09u	2020-058	Sportsmen's Training And Developmental Learning Center	Minnesota Forest Zone Trappers Association	Ray Sogard	\$85,000	The Minnesota Trappers Association used these funds to complete a site evaluation, master plan, and cost estimate for constructing and outfitting a Sportsmen's Training and Developmental Learning Center located on a 38 acre parcel owned by the Minnesota Forest Zone Trappers Association in Hibbing, MN.
58	06/30/2023	2020	09v	2020-097	Birch Lake Recreation Area Campground	City of Babbitt	Robecca Jaeger	\$350,000	The City of Babbitt has completed a new 22-acre campground in the Birch Lake Recreation Area that will include 49 new campsites to accommodate recreational vehicles and tents. The completion of this project allows area residents and tourists from around the country.
59	06/30/2023	2020	20a1	2020-070	Unprecedented Change Threatens Minnesota's Pristine Lakes	Science Museum of Minnesota, St. Croix Watershed Research Station	Mark Edlund	\$482,000	We completed a summer of monthly water quality monitoring, a year of continuous buoy and dustfall measurements, and sediment core analysis to study recent unprecedented changes in eight wilderness lakes. We show climate-driven changes in lake behavior are leading to increased incidence of extensive harmful cyanobacterial blooms in mid-depth lakes.
60	06/30/2024	2020	20a2	2020-084	Wastewater Pond Optimization Implementation	Minnesota Pollution Control Agency	Joel Peck	\$700,000	It is clear that sites using the Steady State Primary Method are achieving better treatment for phosphorus as compared to the baseline sites which were not interested or unable to implement this method. On average, sites using the Steady State Primary Method have 2.25 mg/L less effluent phosphorus.

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61	06/30/2024	2020	20a3	2020-083	Minerals and Water: Demonstration of Three Sulfate Reduction Technology Applications	U of MN, Duluth - NRRRI	Meijun Cai	\$300,000	This project developed three sulfate reduction technologies—biological reduction, chemical precipitation, and ion exchange—through lab and field pilot testing. These methods reduce sulfate levels in industrial and municipal wastewater from 150 to over 3,000 mg/L to below 10 mg/L, protecting Minnesota's wild rice and ensuring environmental.
62	06/30/2024	2020	20a3	2020-085	Minerals and Water: Next-Generation Technologies and New Iron Products	U of MN, Duluth - NRRRI	Rodney Johnson	\$450,000	Pending
63	06/30/2024	2020	20a4	2020-086	Chloride Pollution Reduction	Minnesota Pollution Control Agency	Brooke Asleson	\$500,000	Pending
64	06/30/2024	2020	20a5	2020-087	CWD Prion Research in Soils	U of MN, College of Veterinary Medicine	Tiffany Wolf	\$336,000	This project successfully initiated a groundbreaking line of environmental prion research at MNPRO, University of Minnesota, validating RT-QuIC for detecting chronic wasting disease prions in soils. Notably, it marked the first testing of prion contamination in Minnesota soils from Beltrami County, stemming from infected carcass materials.
65	06/30/2024	2020	20c-1	2020-099	Emerging Issues Reducing Turtle Mortality	Minnesota Department of Transportation	Christopher Smith	\$249,000	Pending
66	06/30/2024	2020	20c-2	2020-098	Emerging Issues Haskell Street CE acquisition	Dakota County	Lisa West	\$104,000	A 0.5-acre permanent natural area conservation easement was acquired by Dakota County from Haskell Street Conservation LLC on June 27, 2024, in West St. Paul that includes large oak trees and grassland areas that will be restored to permanent native vegetation and provide a desired neighborhood open space.
67	06/30/2024	2021	19	2021-463	Forest Health: Development and Demonstration of Biochar Opportunities	U of MN, Duluth - NRRRI	Eric Singsaas	\$340,000	Pending
68	06/30/2024	2021	19	2021-467	Forest Health: Statewide Application of Forest Management Assessment Tool	U of MN, Duluth - NRRRI	Will Bartsch	\$500,000	Pending
69	06/30/2024	2021	03a	2021-032	What's Bugging Minnesota's Insect-Eating Birds?	U of MN, Duluth - NRRRI	Alexis Grinde	\$199,000	Pending
70	06/30/2024	2021	03f	2021-118	Groundwater Contamination Mapping Project - Phase II	Minnesota Pollution Control Agency	Brittney Schuller	\$800,000	The Minnesota Pollution Control Agency (MPCA) created an online portal that compiles groundwater and environmental data from various MPCA programs. The public can access the data through the Groundwater Atlas and other access points. The MPCA believes the system will be extensible to other state agencies in the future.
71	06/30/2024	2021	03h	2021-140	Redwood County Reinvest in Minnesota Easement Evaluation and Public Outreach	Redwood Soil & Water Conservation District	Nick Brozek	\$197,000	We surveyed vegetation and pollinators across 21 RIM/CREP easements and 3 Prairie Bank Easements and analyzed change in canopy cover across 125 easements in Redwood County. Results afford state agencies, SWCDs, and landowners new insight to improve existing and new easements to provide high-quality habitat for wildlife and pollinators.
72	06/30/2024	2021	03i	2021-159	Collaborative State and Tribal Wild Rice Monitoring Program	MN DNR, Ecological and Water Resources Division	Josh Knopik	\$644,000	Pending
73	06/30/2024	2021	03j	2021-238	Morrison County Performance Drainage and Hydrology Management II	Morrison Soil and Water Conservation District	Shannon Wettstein	\$197,000	Morrison SWCD documented the location, elevations, and condition of culverts throughout the 28 townships in the county. This culvert data provides an understanding of drainage features for watershed analysis and protection, will prevent wetlands from being drained due to improperly placed culverts and presents opportunities for habitat and wildlife restoration.
74	06/30/2024	2021	03k	2021-278	Exploring Minnesota's Wetlands: Our Resource for Future Medicine	U of MN, Crookston	Brian Dingmann	\$210,000	Pending
75	06/30/2024	2021	03l	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	Pending
76	06/30/2024	2021	03m	2021-321	Microbiome in Raptors: A New Tool for Conservation	U of MN, Raptor Center	Julia Ponder	\$129,000	Pending
77	06/30/2024	2021	04b	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	A novel three-stage process improves phosphorus recovery and biogas production in wastewater treatment plants by integrating thermophilic acid digestion, phosphorus precipitation and recovery, and high-rate anaerobic digestion. This method enhances P recovery, improves bioenergy generation, and reduces operational costs, offering a more efficient alternative to conventional sludge treatment.
78	06/30/2024	2021	04c	2021-121	Monitoring Emerging Viruses in Minnesota's Urban Water Cycles	U of MN, College of Biological Sciences	Sebastian Behrens	\$416,000	Pending

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79	06/30/2024	2021	04f	2021-358	Assessing Membrane Bioreactor Wastewater Treatment Efficacy	Minnesota State Colleges and Universities, St. Cloud State University	Heiko Schoenfuss	\$419,000	Pending
80	06/30/2024	2021	04g	2021-364	Evaluating Coronavirus and Other Microbiological Contamination of Drinking Water Sources from Wastewater	U of MN, College of Science and Engineering	Timothy LaPara	\$594,000	Pending
81	06/30/2024	2021	04h	2021-376	St. James Pit Water-Level Control Study	City of Aurora	Lucas Heikkila	\$259,000	Through groundwater study and modeling, our project provided vital information necessary to help understand and mitigate the effects of anticipated water level rise of the St. James Pit on water quality and quantity, as well as aquatic ecosystems and human infrastructure in the vicinity of the pit.
82	06/30/2024	2021	04i	2021-384	Long-Term Nitrate Mitigation by Maintaining Profitable Kernza Production	Stearns County Soil and Water Conservation District	Dennis Fuchs	\$485,000	Kernza can improve agricultural sustainability by reducing nitrate leaching into groundwater - similar to levels achieved by a native prairie - while generating nutritious grain. Monitoring Kernza fields over multiple years, provided valuable insights into the crop's long-term impact on water quality and its potential to contribute to sustainable agriculture.
83	06/30/2024	2021	04j	2021-390	Antibiotic Resistance and Wastewater Treatment: Problems and Solutions	University of St. Thomas	Justin Donato	\$432,000	We tracked and quantified antibiotic resistance genes (ARGs) through the municipal wastewater treatment process at full-scale treatment facilities. This analysis was conducted at multiple time points, generating a comprehensive picture of the dynamic changes in abundance and diversity of ARGs for assessment of the potential for their environmental spread.
84	06/30/2024	2021	05b	2021-131	Pollinator Education in the Science Classroom	U of MN, College of Food, Agricultural and Natural Resource Sciences	Elaine Evans	\$366,000	Pending
85	06/30/2024	2021	05c	2021-132	Minnesota Freshwater Quest: Environmental Education for Youth	Wilderness Inquiry	Meg Krueger	\$699,000	The Minnesota Freshwater Quest engaged more than 15,000 Minnesota youth through in-person and virtual environmental education, meeting a critical need for interactive online learning during the COVID-19 pandemic. Throughout the state students explored public lands and waterways, and learned to preserve ecosystems close to where they call home.
86	06/30/2024	2021	05d	2021-175	Minnesota Master Naturalist: Nature for New Minnesotans	U of MN, College of Food, Agricultural and Natural Resource Sciences	Robert Blair	\$293,000	Pending
87	06/30/2024	2021	05e	2021-186	The Voyageurs Classroom Initiative	Voyageurs Conservancy	Christina Hausman Rhode	\$348,000	Pending
88	06/30/2024	2021	05f	2021-320	Restoring Land and Reviving Heritage: Conservation Through Indigenous Culture	Belwin Conservancy	Hannah Smith	\$420,000	We have successfully restored over 18 acres of wetlands, prairie and woodlands in Afton, MN while reconnecting over 1000 Indigenous students and families to traditional lifeways. Collaboratively, our multi-generational restoration approach has set the foundation for the next generation of Indigenous leaders in land stewardship with specific cultural focus.
89	06/30/2024	2021	05g	2021-323	Expanding Access to Environmental Education for Underserved Communities	U of MN, Raptor Center	Victoria Hall	\$178,000	The Raptor Center's "Expanding Access to Environmental Education for Underserved Communities" project expanded environmental literacy by delivering 303 programs to underserved schools, engaging 16,317 students with raptor-focused curricula. Through these efforts, we raised public awareness, fostering a greater understanding and appreciation for Minnesota's natural resources and wildlife conservation.
90	06/30/2024	2021	06a	2021-017	Starch Allocation Patterns of Invasive Starry Stonewort Harvested from Lake Koronis	Minnesota State Colleges and Universities, Minnesota State University Mankato	Ryan Wersal	\$101,000	Starry stoneworts allocate the majority of its energy to bulbils. Bulbils are easy to transport and can be long-lived in the sediment allowing for the spread and proliferation of this species in MN lakes. Management efforts need interrupt carbohydrate movement and to limit starch accumulation in bulbils.
91	06/30/2025	2021	06b	2021-091	Long-Term Efficacy of Invasive Removal in Floodplain Forests	Macalester College	Mike Anderson	\$25,000	Pending
92	06/30/2024	2021	06c	2021-162	Oak Wilt Suppression at the Northern Edge - Phase II	Morrison Soil and Water Conservation District	Shannon Wettstein	\$423,000	Morrison SWCD partnered with DNR Forest Health Specialists and local DNR Foresters to suppress oak wilt at 37 sites and 50 pockets within Morrison County through mechanical means. These sites are the northern-most occurrences of oak wilt in the state through on the edge of healthy state forest habitats.

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93	06/30/2024	2021	06d	2021-164	Biocontrol of Invasive Species in Bee Lawns and Parklands	U of MN, College of Food, Agricultural and Natural Resource Sciences	Vera Krischik	\$425,000	Pending
94	06/30/2024	2021	06f	2021-217	Evaluating Minnesotas Last Best Chance to Stop Carp	U of MN, College of Food, Agricultural and Natural Resource Sciences	Peter Sorensen	\$424,000	This study used fish tracking to show that invasive carp typically pass Lock and Dam 5 via its lock and an engineering evaluation to demonstrate that a lock deterrent could be installed. Learning of this work, the legislature funded a carp lock deterrent to protect the river and its fisheries.
95	06/30/2025	2021	06g	2021-313	Stop Starry Invasion with Community Invasive Species Containment	Minnesota Lakes and Rivers Advocates	Jeff Forester	\$1,000,000	The Stop Starry project helps prevent the spread of Aquatic Invasive Species through a containment strategy, by deploying CD3 waterless boat cleaning stations, at accesses infested with starry stonewort. The equipment will last for many years, as will the civic groups established to promote Best Practices.
96	06/30/2024	2021	07a	2021-010	Enhanced Thermo-Active Foundations for Space Heating in Minnesota	U of MN, Duluth	Alison Hoxie	\$312,000	Pending
97	06/30/2024	2021	07c	2021-191	Agrivoltaics to Improve the Environment and Farm Resiliency	U of MN, WCROC	Bradley Heins	\$646,000	Pending
98	06/30/2024	2021	07d	2021-294	Behavioral Response of Bald Eagles to Acoustic Stimuli	U of MN, St. Anthony Falls Laboratory	Christopher Feist	\$261,000	Pending
99	06/30/2024	2021	07e	2021-344	Create Jobs Statewide by Diverting Materials from Landfills	Better Futures Minnesota	Jason Allen	\$2,244,000	The aim of the project was to minimize the effects of human activity that might alter Minnesota's ecological balance by diverting reusable materials from the waste stream. The partners documented the reclaimed materials and measured Green House Gas emissions sequestered along with the environmental impact and benefits of the project.
100	06/30/2024	2021	07f	2021-402	Strengthening Minnesota's Reuse Economy to Conserve Natural Resources	Reuse Minnesota	Emily Barker	\$334,000	A large portfolio of work was completed including hiring two staff, producing two conferences, an impact report of reuse, a business needs assessment, the creation of a resale business training, a survey of secondhand shoppers, a rebate for repair program, and ongoing support for reuse and related benefits in Minnesota.
101	06/30/2023	2021	08b	2021-039	Restoring Mussels in Streams and Lakes - Continuation	MN DNR, Ecological and Water Resources Division	Madeline Pletta	\$619,000	MDNR Center for Aquatic Mussel Programs reintroduced over 4,400 native mussels into three watersheds in southeast Minnesota, bringing our total number to over 17,000 since 2016. We completed monitoring of mussels and habitat at reintroduction sites. We disseminated information through outreach events, including facility tours, presentations, and newsletters.
102	06/30/2024	2021	08c	2021-058	Pollinator Central II: Habitat Improvement With Community Monitoring	Great River Greening	Rebecca Tucker	\$631,000	Pollinator Central II: Habitat Improvement with Community Monitoring established native habitat on 116 acres at 10 project sites and directly engaged 883 volunteers and 122 citizen scientists, enhancing the natural environment of both urban and rural areas as well as connecting people with plants, pollinators, and their local communities.
103	06/30/2024	2021	08d	2021-062	Preserving Minnesota's Only Ball Cactus Population	U of MN, Landscape Arboretum	David Remucal	\$103,000	This first phase of work protecting the only population of ball cactus in Minnesota has been a resounding success, with almost 500 plants in three new locations planted over 2022 and 2023 and nearly 80% first-year survival for individuals planted in 2022. This success will continue to be reinforced.
104	06/30/2024	2021	08e	2021-065	Phase 2 - Prescribed-Fire Management For Roadside Prairies	Minnesota Department of Transportation	Nathan Johnson	\$217,000	Pending
105	06/30/2023	2021	08f	2021-084	Restoring Upland Forests for Birds	American Bird Conservancy, Great Lakes Program	John Haben	\$193,000	American Bird Conservancy (ABC) restored 12 acres of deciduous forest in partnership with Aitkin, Beltrami and Cass Counties, utilizing science-based BMP's to rejuvenate non-commercial stands for focal wildlife species. The outcomes of this project will be shared on the ABC website.
106	06/30/2024	2021	08g	2021-097	Minnesota Green Schoolyards	The Trust for Public Land	Anna Callahan	\$250,000	Pending
107	06/30/2024	2021	08h	2021-137	Plumbing the Muddy Depths of Superior Hiking Trail	Superior Hiking Trail Association	Lisa Luokkala	\$187,000	Pending
108	06/30/2024	2021	08i	2021-212	Reducing Plastic Pollution with Biodegradable Erosion Control Products	Agricultural Utilization Research Institute	Matthew Leiphon	\$200,000	Erosion control products are important in protecting Minnesota's soil and water during construction, but they often contain plastic that can pollute the environment. Hemp fiber offers a locally grown, renewable, biodegradable alternative. Effective hemp-based prototypes successfully developed and tested in Minnesota offer a path toward more sustainable erosion control options.

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109	06/30/2024	2021	08k	2021-229	Woodcrest Trail Expansion	Foundation for Healthcare Continuums, Woodcrest of Country Manor	Kevin Harguth	\$16,000	Existing trails on the property were extended into undeveloped areas to allow community members to safely walk the trails and gain an appreciation for native plants and wildlife of this local area.
110	06/30/2024	2021	08l	2021-231	Urban Pollinator and Native American Cultural Site Restoration	Friends of the Mississippi River	Alex Roth	\$213,000	This project exceeded our original acreage goal of 62 and ultimately enhanced 64 acres of grassland and forest habitat for pollinators and wildlife, as well as created management plans to guide longterm maintenance at Bruce Vento Nature Sanctuary in St. Paul and Applewood and Carver Additional Preserves in Maplewood.
111	06/30/2024	2021	08n	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	We examined how seed mix design and land management influenced floral resources for native bees. Our findings will help reduce the cost of pollinator seed mixes. We also developed a seed mix tool enabling land managers in Minnesota to input seed mixes to maximize forage for native bees.
112	06/30/2023	2021	08o	2021-322	Shoreline Stabilization, Fishing, and ADA Improvements at Silverwood Park	Three Rivers Park District	Jonathan Vlaming	\$200,000	This project serves as a model on how to improve water quality through shoreline stabilization in combination with shoreline fishing and ADA fishing access improvements on the island in Silver Lake within Silverwood Park, St. Anthony MN.
113	06/30/2024	2021	08p	2021-337	Lawns to Legumes Program - Phase II	Board of Water and Soil Resources	Dan Shaw	\$993,000	The Lawns to Legumes Program is focused on building a movement to support at-risk pollinator species. The project resulted in nearly 3000 high diversity residential plantings covering, 4.6 million square feet, and a large numbers of DIY projects across Minnesota inspired and guided by the program.
114	06/30/2023	2021	08q	2021-375	Reintroducing Bison to Spring Lake Park Reserve	Dakota County	Tom Lewanski	\$560,000	This project will increase biodiversity, landscape heterogeneity, and ecosystem resiliency through the reintroduction of the primary historic prairie grazer in Minnesota, the American plains bison (Bison bison). By introducing bison, the 150 acres of prairie will become more diverse and will likely enhance ecosystem function and overall stability.
115	06/30/2024	2021	08r	2021-377	Elm Creek Habitat Restoration Final Phase	City of Champlin	Heather Nelson	\$521,000	Elm Creek Restoration Final Phase was an in-stream habitat restoration project that included 2,500 linear feet of stream bank restoration downstream of Hayden Lake and upstream of Mill Pond in the City of Champlin. The project spanned from just upstream of the Elm Creek Crossing bridge to Hayden Lake.
116	06/30/2024	2021	09a	2021-012	Perham to Pelican Rapids Regional Trail (McDonald Segment)	Otter Tail County	Kevin Fellbaum	\$2,245,000	Otter Tail County with the help of the funding provided by LCCMR was able to build a 5.760-mile multi-modal trail system that serves as the missing connection between two trail segments connecting the City of Perham and Maplewood State Park.
117	06/30/2024	2021	09b	2021-028	Mesabi Trail CsaH 88 to Ely	St. Louis & Lake Counties Regional Railroad Authority	Robert Manzoline	\$1,650,000	The County State Aid Highway 88 to Ely Mesabi Trail Segment has been completed. This new paved segment is approximately 2.8 miles-long and connects to the existing Mesabi Trail from the West and traverses Easterly to the city of Ely, MN.
118	06/30/2023	2021	09c	2021-029	Southwest Minnesota Single-Track Trail	Jackson County	Jeremy Bartosh	\$190,000	A single track mountain bike trails have been created at Belmont Park just North of Jackson, MN! The grant allowed us to build 4-1/2 miles of natural surface biking trails in the unique terrain setting near the Des Moines River. Bikers riding the trails are pumped and thankful!!
119	06/30/2024	2021	09d	2021-043	Local Parks, Trails, and Natural Areas Grant Programs	MN DNR, State Parks and Trails Division	Jenni Bubke	\$2,250,000	Pending
120	06/30/2024	2021	09f	2021-069	Sauk Rapids Lions Park Riverfront Improvements	City of Sauk Rapids	Todd Schultz	\$463,000	This project has occurred on the banks of the Mississippi River in Sauk Rapids. This project enhanced access and expanded users experience in the park while protecting natural features. All of the elements added or improved with the LCCMR grant have both improved the quality/usage of this park.
121	06/30/2024	2021	09g	2021-092	City of Brainerd - Mississippi Landing Trailhead	City of Brainerd	Jessie Dehn	\$2,850,000	The completed park project includes implementation of trailhead, canoe/kayak launch, river overlook, natural playscape, and other facilities, serve as a connection point for the public to trails and the Mississippi River while preserving and enhancing natural habitats through stormwater treatment, pollinator-friendly plantings and landscapes, and riverbank restoration.
122	06/30/2024	2021	09i	2021-109	Moose Lake - Trunk Highway 73 Trail	City of Moose Lake	Ellissa Owens	\$330,000	The completion of this project has provided tourists and residents access to additional non-motorized trails in northern Minnesota. It connects Willard Munger Trailhead Facilities, Moose Lake State Park, Moosehorn River water access and Moose Lake Campground while allowing access to trails from Duluth to Hinckley.

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123	06/30/2024	2021	09k	2021-154	Precision Acquisition For Restoration, Groundwater Recharge, and Habitat	Shell Rock River Watershed District	Courtney Phillips	\$467,000	The Shell Rock River Watershed District purchased a perpetual conservation easement on 42 acres of previous agricultural ground. Restoration efforts then included wetland establishment of roughly 20 acres for groundwater recharge and approximately 22 acres of natives were planted for pollinator habitat.
124	06/30/2024	2021	09l	2021-222	Lake Brophy Single-Track Trail Expansion	Douglas County Parks	Brad Bonk	\$100,000	Outcomes of the project were a return trail for the jump line area, a yet to be named black downhill trail on the east side of the park, and the blue trail named the Brand Bomber. The trails are typically open April - November during daylight hours.
125	06/30/2024	2021	09m	2021-325	Veterans On The Lake	Veterans on the Lake	Eric Mayranen	\$553,000	Activity 1. Construction Engineering - The Cabin engineering and blueprints were completed in the summer of 2021. Activity 2. Paving project complete summer of 2022, Trails project completed the Spring of 2022. Activity 3 Cabin renovation was completed the fall and winter of 2022 and spring on 2023.
126	06/30/2024	2021	09o	2021-330	Brookston Campground, Boat Launch, and Outdoor Recreational Facility Planning	City of Brookston	Kaycee Melin	\$425,000	Pending
127	06/30/2024	2021	09p	2021-332	Moose and Seven Beaver Multiuse Trails Upgrade	City of Hoyt Lakes,	Becky Lammi	\$900,000	Pending
128	06/30/2024	2021	09q	2021-338	Above the Falls Regional Park Acquisition	Minneapolis Park and Recreation Board,	Adam Arvidson	\$950,000	The Minneapolis Park and Recreation Board was unable to successfully negotiate with owners of either of the two candidate parcels and is therefore unable to expend LCCMR funds for land acquisition. Both parcels changed hands during the life of the grant, which complicated negotiations.
129	06/30/2024	2021	09r	2021-339	Silver Lake Trail Improvement Project	City of Virginia,	Britt See-Benes	\$1,071,000	The completion of the Silver Lake Trail provides greater accessibility to outdoor activities, within a city setting, that can be enjoyed by all residents and visitors. The completed trail provides a non-motorized alternative for access to a wide variety of locations within the city to promote active, healthy living.
130	06/30/2024	2021	09v	2021-380	Accessible Fishing Piers and Shore Fishing Areas	MN DNR, State Parks and Trails Division	Nancy Stewart	\$340,000	Pending
131	06/30/2023	2021	10a	2021-027	Contract Agreement Reimbursement	MN DNR, Grants Unit	Katherine Sherman-Hoehn	\$135,000	This appropriation was used to support the ENRTF contract management program, which ensured that ENRTF grantees expended grant funds in compliance with state law, session law, approved work plans, and Office of Grants Management grants policies.
132	06/30/2024	2021	10c-1	2021-468	Emerging Issues Benjamin CE Acquisition	Dakota County,	Lisa West	\$185,000	A 31.7-acre permanent natural area conservation easement was acquired by Dakota County from the Benjamins on June 27, 2024, in Nininger Township, that includes a five-acre restored native prairie, 23 additional acres that will be restored to native prairie, and about nine wooded acres that will also be restored.
133	06/30/2024	2022	11	2022-121	ML 2022 Contract Agreement Reimbursement	MN DNR, Grants Unit	Katherine Sherman-Hoehn	\$210,000	Pending
134	06/30/2024	2022	03o	2022-081	Strategic Framework to Guide Local Water Storage Implementation	Board of Water and Soil Resources	Henry Van Offelen	\$200,000	Pending
135	06/30/2024	2022	08f	2022-188	PFAS Fungal-Wood Chip Filtering System	U of MN, College of Food, Agricultural and Natural Resource Sciences	Jiwei Zhang	\$189,000	Pending
136	06/30/2024	2022	09i	2022-008	The Missing Link: Gull Lake Trail, Fairview Township	Fairview Township	Marla Yoho	\$1,394,000	This project created 3.1 miles of safe access to the natural and scenic environment and an easy way to introduce activity to every age and ability. Using the road right-of-way reduced environmental impact. Additionally, environmentally friendly alternative transportation, such as e-bikes, use it to access local attractions and businesses.
137	06/30/2025	2022	10b	2022-296	Leaded Gasoline Contamination Analysis	City of Paynesville	Tariq Al-Rifai	\$200,000	The basis of this report was to determine if the actions and remedies applied by the MPCA to four contaminated sites in Alexandria, Blaine, Foley and Paynesville were adequate to address the issues and give further recommendations if needed.