

Environment and Natural Resources Trust Fund
Final Work Plan Review and Approvals - M.L. 2021 (FY22)
7/15/21

Line Number	Direct or Pass Through	Organization	Proposal ID	Title	First Name	Last Name	Appropriated Amount	Project Impact Geography	Work Plan Approval Notes	Appropriation Language Contingencies (if any; also addressed in Work Plan)	Classified Staff	Fee Title Acquisition	Conservation Easement	Capital Expenditures	Peer Review Complete	Work Plan Approval Date
2	A. Consent Agenda - work plans with no significant changes from LCCMR recommendation															
3	Direct	Board of Water and Soil Resources	2021-337	Lawns To Legumes Program Phase 2	Dan	Shaw	\$993,000	Statewide			Yes	No	No	No	N/A	
4	Direct	Legislative-Citizen Commission on Minnesota Resources	2021-466	Emerging Issues	Becca	Nash	\$233,000	Statewide	No workplan needed at this time		No	No	No	No	N/A	
5	Direct	Legislative-Citizen Commission on Minnesota Resources	2021-464	LCCMR Biennial Budget (FY22 & FY 23)	Becca	Nash	\$1,750,000	Statewide	No workplan needed		No	No	No	No	N/A	
6	Direct	Legislative Coordinating Commission	2021-465	Legislative Coordinating Commission (LCC) Administration	Sally	Olson	\$2,000	Statewide	No workplan needed		No	No	No	No	N/A	
7	Direct	Metropolitan Council	2021-049	Metropolitan Regional Parks System Land Acquisition- Phase 7	Jessica	Lee	\$2,250,000	Metro		This appropriation must be matched by an equal amount from a combination of Metropolitan Council and local agency funds	No	Yes	No	No	N/A	
8	Direct	Minnesota Department of Transportation	2021-065	Prescribed-Fire Management for Roadside Prairies - Phase II	Nathan	Johnson	\$217,000	Central, Metro, NW, SE, SW			No	No	No	No	N/A	
9	Direct	Minnesota Pollution Control Agency	2021-118	Groundwater Contamination Mapping Project - Phase II	Myrna	Halbach	\$800,000	Statewide			No	No	No	No	N/A	
10	Direct	Minnesota State Colleges and Universities, Minnesota State University Mankato	2021-017	Starch Allocation Patterns Of Starry Stonewort (Nitellopsis Obtusa) Harvested From Lake Koronis, MN	Ryan	Wersal	\$101,000	Statewide			No	No	No	Yes	Yes	
11	Direct	Minnesota State Colleges and Universities, St. Cloud State University	2021-358	Assessing Membrane Bioreactor Wastewater Treatment Efficacy	Heiko	Schoenfuss	\$419,000	Statewide			No	No	No	No	Yes	
12	Direct	Minnesota Zoological Society	2021-087	Improving Resiliency And Conservation Outcomes For Minnesota Turtles	Tricia	Markle	\$391,000	Statewide			Yes	No	No	No	Yes	
13	Direct	MN DNR, Ecological and Water Resources Division	2021-113	Minnesota Biological Survey	Bruce	Carlson	\$1,500,000	Statewide			No	No	No	No	N/A	
14	Direct	MN DNR, Ecological and Water Resources Division	2021-039	Restoring Mussels In Streams And Lakes - Continuation	Mike	Davis	\$619,000	Statewide			Yes	No	No	Yes	N/A	
15	Direct	MN DNR, Ecological and Water Resources Division	2021-159	Collaborative State And Tribal Wild Rice Monitoring Program	Josh	Knopik	\$644,000	Statewide			Yes	No	No	No	N/A	
16	Direct	MN DNR, Ecological and Water Resources Division	2021-055	Protecting Minnesota's Beneficial Macroalgae: All Stoneworts Aren't Starry	Donna	Perleberg	\$811,000	Statewide			No	No	No	No	Yes	
17	Direct	MN DNR, Ecological and Water Resources Division	2021-071	County Groundwater Atlas	Paul	Putzier	\$1,875,000	Statewide			Yes	No	No	No	N/A	
18	Direct	MN DNR, Ecological and Water Resources Division	2021-151	SNA Acquisition, Restoration, Citizen-Science and Outreach	Molly	Roske	\$3,336,000	Statewide			Yes	Yes	No	No	N/A	
19	Direct	MN DNR, Ecological and Water Resources Division	2021-105	Native Prairie Stewardship & Prairie Bank Easement Acquisition	Judy	Schulte	\$1,341,000	Statewide		Up to \$60,000 of this appropriation may be deposited in the natural resources conservation easement stewardship account created in Minnesota Statutes, section 84.69, proportional to the number of easement acres acquired.	Yes	No	Yes	No	N/A	
20	Direct	MN DNR, Grants Unit	2021-027	ML 2021 Contract Agreement Reimbursement	Katherine	Sherman-Hoehn	\$135,000	Statewide			No	No	No	No	N/A	
21	Direct	MN DNR, State Parks and Trails Division	2021-371	State Parks And State Trails In-Holdings	Shelby	Kok	\$2,560,000	Statewide			No	Yes	No	No	N/A	
22	Direct	MN DNR, State Parks and Trails Division	2021-043	Local Parks, Trails And Natural Areas Grant Programs	Audrey	Mularie	\$2,250,000	Statewide		Rider Language: to give strong priority to projects in the metro and southern Minnesota	Yes	Yes	No	Yes	N/A	

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23	Direct	MN DNR, State Parks and Trails Division	2021-362	Minnesota State Trails Development	Kent	Skaar	\$4,266,000	Statewide		Rider language to give strong priority to projects in the metro and southern Minnesota	No	No	No	Yes	N/A	
24	Direct	MN DNR, State Parks and Trails Division	2021-380	Accessible Fishing Piers And Shore Fishing Areas	Nancy	Stewart	\$340,000	Statewide			Yes	No	No	Yes	N/A	
25	Direct	U of MN, College of Biological Sciences	2021-121	Monitoring Emerging Viruses in Minnesota's Urban Water Cycles	Sebastian	Behrens	\$416,000	Statewide			No	No	No	No	Yes	
26	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	2021-175	Minnesota Master Naturalist: Nature For New Minnesotans	Robert	Blair	\$293,000	Metro			No	No	No	No	N/A	
27	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	2021-308	Creating Cost-Effective Forage And Management Actions For Pollinators	Daniel	Cariveau	\$198,000	Statewide			No	No	No	No	Yes	
28	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	2021-131	Pollinator Education In The Science Classroom	Elaine	Evans	\$366,000	Statewide			No	No	No	No	N/A	
29	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	2021-289	A Biodiversity Checkup for Minnesota's Big Woods	Lee	Frelich	\$109,000	Central, Metro, SE			No	No	No	No	Yes	
30	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	2021-115	Novel Nutrient Recovery Process from Wastewater Treatment Plants	Bo	Hu	\$200,000	Statewide			No	No	No	No	Yes	
31	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	2021-164	Invasive Species Biocontrol in Bee Lawns and Parklands	Vera	Krischik	\$425,000	Statewide			No	No	No	No	Yes	
32	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	2021-266	Sustainable Irrigation Management: Expanding an Irrigation Web Application	Bryan	Runck	\$1,139,000	Central, Metro, NW, SE, SW			No	No	No	No	Yes	
33	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	2021-217	Evaluating Minnesotas Last Best Chance To Stop Carp	Peter	Sorensen	\$424,000	Statewide			No	No	No	No	Yes	
34	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	2021-396	Bioacoustics for Broad-Scale Species Monitoring and Conservation	Elena	West	\$305,000	Statewide			No	No	No	No	Yes	
35	Direct	U of MN, College of Science and Engineering	2021-364	Evaluating Coronavirus And Other Microbiological Contamination Of Drinking Water Sources From Wastewater	Timothy	LaPara	\$594,000	Statewide			No	No	No	No	Yes	
36	Direct	U of MN, College of Veterinary Medicine	2021-144	Microgeographic Impact of Antibiotics Released from Identified Hotspots	Randall	Singer	\$508,000	Statewide			No	No	No	No	Yes	
37	Direct	U of MN, Crookston	2021-278	Exploring Minnesota's Wetlands: Our Resource For Future Medicine	Brian	Dingmann	\$210,000	Statewide			No	No	No	No	Yes	
38	Direct	U of MN, Duluth	2021-010	Enhanced Thermo-Active Foundations For Space Heating In Minnesota	Aggrey	Mwesigye	\$312,000	Statewide			No	No	No	No	Yes	
39	Direct	U of MN, Duluth - NRRI	2021-050	Trout Stream Habitat Restoration Success	Valerie	Brady	\$319,000	Statewide			No	No	No	No	Yes	
40	Direct	U of MN, Duluth - NRRI	2021-032	What's "Bugging" Minnesota's Insect-Eating Birds?	Alexis	Grinde	\$199,000	Statewide			No	No	No	No	Yes	
41	Direct	U of MN, Landscape Arboretum	2021-062	Preserving Minnesota's Only Ball Cactus Population	David	Remucal	\$103,000	SW			No	No	No	No	N/A	
42	Direct	U of MN, MAISRC	2021-188	Building Knowledge And Capacity For AIS Solutions	Nicholas	Phelps	\$3,750,000	Statewide	Approve overall work plan contingent on MAISRC staff working with LCCMR staff to break-out individual research efforts for staff approval once individual efforts ready to get underway.		No	No	No	No	N/A	

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43	Direct	U of MN, MN Geological Survey	2021-138	Geologic Atlases for Water Resource Management	Barbara	Lusardi	\$3,092,000	Statewide			No	No	No	No	N/A	
44	Direct	U of MN, Morris	2021-169	Storing Renewable Energy In Flow-Battery For Grid Use	Bryan	Herrmann	\$2,408,000	Statewide			No	No	No	Yes	Yes	
45	Direct	U of MN, Raptor Center	2021-323	Expanding Access To Environmental Education For Underserved Communities	Julia	Ponder	\$178,000	Statewide			No	No	No	No	N/A	
46	Direct	U of MN, Raptor Center	2021-321	Microbiome in Raptors: A New Tool for Conservation	Julia	Ponder	\$129,000	Statewide			No	No	No	No	Yes	
47	Direct	U of MN, St. Anthony Falls Laboratory	2021-223	Remote Sensing And Super-Resolution Imaging Of Microplastics	Ardeshir	Ebtehaj	\$309,000	Statewide			No	No	No	Yes	Yes	
48	Direct	U of MN, St. Anthony Falls Laboratory	2021-294	Behavioral Response of Bald Eagles to Acoustic Stimuli	Christopher	Feist	\$261,000	Central, NE, NW, SW			No	No	No	No	Yes	
49	Direct	U of MN, WCROC	2021-191	Agrivoltaics To Improve The Environment And Farm Resiliency	Bradley	Heins	\$646,000	Statewide			No	No	No	Yes	Yes	
50	Pass Through	Agricultural Utilization Research Institute	2021-212	Reducing Plastic Pollution With Biodegradable Erosion Control Products	Riley	Gordon	\$200,000	Statewide			No	No	No	Yes	Yes	
51	Pass Through	American Bird Conservancy, Great Lakes Program	2021-084	Restoring Upland Forests For Birds	Duane	Fogard	\$193,000	Central, NE, NW			No	No	No	No	N/A	
52	Pass Through	Belwin Conservancy	2021-320	Restoring Land, Reviving Heritage: Conservation Through Indigenous Culture	Katie	Bloome	\$420,000	Metro			No	No	No	Yes	N/A	
53	Pass Through	City of Brainerd	2021-092	City Of Brainerd - Mississippi Landing Trailhead	David	Chanski	\$2,850,000	Central			No	No	No	No	N/A	
54	Pass Through	City of Champlin	2021-377	Elm Creek Habitat Restoration Final Phase	Todd	Tuominen	\$521,000	Metro			No	No	No	No	N/A	
55	Pass Through	City of Hoyt Lakes	2021-332	Moose/Seven Beaver Multi-Use Trail Upgrade	Becky	Lammi	\$900,000	Statewide			No	No	No	No	N/A	
56	Pass Through	City of Moose Lake	2021-109	Moose Lake - Trunk Highway 73 Trail	Katie	Bloom	\$330,000	NE			No	No	No	No	N/A	
57	Pass Through	City of Sauk Rapids	2021-069	Sauk Rapids Rapids Project Lions Park	Todd	Schultz	\$463,000	Central			No	No	No	No	N/A	
58	Pass Through	City of St. Cloud	2021-363	Highbanks Ravine Bat Hibernaculum Project	Lisa	Vollbrecht	\$825,000	Central			No	No	No	No	N/A	
59	Pass Through	Crow Wing Soil and Water Conservation District	2021-022	Camp Ripley Sentinel Landscape Forest Restoration And Enhancements	Melissa	Barrick	\$731,000	Central			No	No	No	No	N/A	
60	Pass Through	Dakota County	2021-375	Reintroduction Of Bison To Spring Lake Park Reserve	Tom	Lewanski	\$560,000	Statewide			No	No	No	No	N/A	
61	Pass Through	Douglas County Parks	2021-222	Lake Brophy Trail Expansion	Brad	Bonk	\$100,000	Central			No	No	No	No	N/A	
62	Pass Through	Friends of the Mississippi River	2021-231	Urban Pollinator And Native American Cultural Site Restoration	Lisa	Mueller	\$213,000	Metro			No	No	No	No	N/A	
63	Pass Through	Great River Greening	2021-058	Pollinator Central II: Habitat Improvement With Community Monitoring	Rebecca	Tucker	\$631,000	Metro			No	No	No	No	N/A	
64	Pass Through	Jackson County	2021-029	SW MN Single Track Trail	Jeremy	Bartosh	\$190,000	SW			No	No	No	No	N/A	
65	Pass Through	Macalester College	2021-091	Long-Term Efficacy Of Invasive Removal In Floodplain Forests	Mike	Anderson	\$25,000	Statewide		A report on the results of the long-term study must be submitted at the end of the appropriation and an update must be submitted five years after the appropriation ends or at the study's conclusion, whichever is first.	No	No	No	No	Yes	

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66	Pass Through	Minneapolis Parks and Recreation Board	2021-338	Above The Falls Regional Park Acquisition	Adam	Arvidson	\$950,000	Metro			No	Yes	No	No	N/A	
67	Pass Through	Minnesota Lakes and Rivers Advocates	2021-313	Stop Starry Invasion - Community Invasive Species Containment	Jeff	Forester	\$1,000,000	Statewide			No	No	No	Yes	N/A	
68	Pass Through	Morrison Soil and Water Conservation District	2021-238	Morrison County Performance Drainage and Hydrology Management II	Shannon	Wettstein	\$197,000	Central			No	No	No	No	N/A	
69	Pass Through	Morrison Soil and Water Conservation District	2021-162	Oak Wilt Suppression At The Northern Edge II	Shannon	Wettstein	\$423,000	Central			No	No	No	No	N/A	
70	Pass Through	Otter Tail County	2021-012	Perham To Pelican Rapids Regional Trail (McDonald Segment)	Matthew	Yavarow	\$2,245,000	Central			No	No	No	Yes	N/A	
71	Pass Through	Redwood Soil & Water Conservation District	2021-140	Redwood County Rim Easement Evaluation And Public Outreach	Scott	Wold	\$197,000	Statewide			No	No	No	No	N/A	
72	Pass Through	Redwood Soil & Water Conservation District	2021-280	Economic And Ecological Benefits Of Soil Health	Scott	Wold	\$288,000	Statewide	Changed to be demonstration project rather than research		No	No	No	No	Yes	
73	Pass Through	Shell Rock River Watershed District	2021-154	Precision Acquisition For Restoration, Groundwater Recharge And Habitat.	Courtney	Phillips	\$467,000	SE			No	Yes	No	No	N/A	
74	Pass Through	St. Louis & Lake Counties Regional Railroad Authority	2021-028	Mesabi Trail CsaH 88 To Ely	Robert	Manzoline	\$1,650,000	NE			No	No	No	Yes	N/A	
75	Pass Through	Stearns County Soil and Water Conservation District	2021-384	Long-Term Nitrate Mitigation By Maintaining Profitable Kernza Production	Dennis	Fuchs	\$485,000	Statewide			No	No	No	No	Yes	
76	Pass Through	Superior Hiking Trail Association	2021-137	Plumbing The Muddy Depths Of Superior Hiking Trail	Lisa	Luukkala	\$187,000	NE			No	No	No	No	N/A	
77	Pass Through	The Trust for Public Land	2021-097	Minnesota Green Schoolyards	Eric	Weiss	\$250,000	Statewide			No	No	No	Yes	N/A	
78	Pass Through	Three Rivers Park District	2021-322	Shoreline Stabilization, Fishing, ADA Improvements At Silverwood Park	Jonathan	Vlaming	\$200,000	Metro			No	No	No	No	N/A	
79	Pass Through	University of St. Thomas	2021-390	Antibiotic Resistance And Wastewater Treatment: Problems And Solutions	Justin	Donato	\$432,000	Statewide			No	No	No	Yes	Yes	
80	Pass Through	Veterans on the Lake	2021-325	Veterans On The Lake	Neil	Olson	\$553,000	Statewide			No	No	No	No	N/A	
81	Pass Through	Voyageurs Conservancy	2021-186	The Voyageurs Classroom Initiative	Christina	Hausman Rhode	\$348,000	Statewide			No	No	No	No	N/A	
82	Pass Through	Wilderness Inquiry	2021-132	Minnesota Freshwater Quest: Environmental Education For 14000 Youth	Julie	Edmiston	\$699,000	Statewide			No	No	No	Yes	N/A	

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83	B. Work plans not currently ready for LCCMR approval due to various factors															
84	Direct	U of MN, Duluth - NRRI	2021-467	Forest Health Research, Development and Demonstration	John	Du Plissis	\$840,000	TBD			No	No	No	No	N/A	
85	Pass Through	Better Futures Minnesota,	2021-344	Create Jobs Statewide By Diverting Materials From Landfills	Steve	Thomas	\$2,244,000	Statewide		Net income generated by Better Futures Minnesota as part of this appropriation may be reinvested in the project if a plan for reinvestment is approved in the work plan	No	No	No	Yes	N/A	
86	Pass Through	City of Aurora	2021-376	St. James Pit Water Level Control Study	Stefanie	Dickinson	\$259,000	NE			No	No	No	No	N/A	
87	Pass Through	City of Brookston,	2021-330	Brookston Campground, Boat Launch & Outdoor Recreational Facility	Kaycee	Melin	\$425,000	Statewide		A fiscal agent must be approved in the work plan before any trust fund dollars are spent	No	No	No	No	N/A	
88	Pass Through	City of Virginia	2021-339	Silver Lake Trail Improvement Project	Britt	See-Benes	\$1,071,000	NE			No	No	No	No	N/A	
89	Pass Through	Foundation for Healthcare Continuums, Woodcrest of Country Manor	2021-229	Woodcrest Trail Expansion	Sara	Gabrielson	\$16,000	Central	Funding for Activity 1 only to build the trail;		No	No	No	No	N/A	
90	Pass Through	ReUse Minnesota,	2021-402	Strengthening Minnesota's Reuse Economy To Conserve Natural Resources	Jennifer	Kedward	\$334,000	Statewide		A fiscal management and staffing plan must be approved in the work plan before any trust fund dollars are spent	No	No	No	No	N/A	
91	Pass Through	Town of Crane Lake	2021-329	Voyageurs National Park Crane Lake Visitors Center Project	Jim	Janssen	\$2,700,000	Statewide		A fiscal agent or fiscal management plan must be approved in the work plan before any trust fund money is spent. A copy of a resolution or other documentation of the city's commitment to fund operations of the visitor. center must be included in the work plan submitted to the Legislative-Citizen Commission on Minnesota Resources.	No	No	No	No	N/A	
92	Pass Through	Wolf Ridge Environmental Learning Center	2021-042	Increasing Outdoor Learning For Young Minnesotans	Peter	Smerud	\$383,000	Statewide			No	No	No	No	N/A	