

**ENVIRONMENT AND NATURAL RESOURCES TRUST FUND  
SPECIAL SESSION-REVISOR #19-5219**

Subd.	Proposal ID	Title	Organization	Program Manager	Region	LCCMR Recommendations as of 12-4-2019			REVISOR #19-5219			Change from LCCMR Recs.	
						Trust Fund \$ FY2019	Trust Fund \$ FY2020	Total LCCMR \$ Recommended	Subd.	Trust Fund \$ FY2019	Trust Fund \$ FY2020		Total ENRTF \$
<b>Subd. 03 Foundational Natural Resource Data and Information</b>						<b>(16 recommendations=\$9,918,000)</b>			<b>(20 recommendations=\$15,405,000)</b>				
03a	001-A	Minnesota Biological Survey	MN DNR	Bruce Carlson	Statewide	\$ -	\$ 1,500,000	\$ 1,500,000	03a	\$ -	\$ 1,500,000	\$ 1,500,000	\$ -
03b	003-A	Restoring Native Mussels in Streams and Lakes	MN DNR	Mike Davis	Statewide	\$ -	\$ 500,000	\$ 500,000	03b	\$ -	\$ 500,000	\$ 500,000	\$ -
03c	005-A	Quantifying Exposure of Minnesota's Raptors to Mercury and PFAS	Hawk Ridge Bird Observatory	Matthew Etterson	Statewide, NE	\$ -	\$ 250,000	\$ 250,000	03c	\$ -	\$ 250,000	\$ 250,000	\$ -
03d	014-A	Minnesota Trumpeter Swan Migration Ecology and Conservation	U of MN	David Andersen	Statewide	\$ -	\$ 300,000	\$ 300,000	03d	\$ -	\$ 300,000	\$ 300,000	\$ -
03e	016-A	Spruce Grouse as Indicators for Boreal Forest Connectivity	U of MN - Raptor Center	Julia Ponder	NW, NE	\$ -	\$ 350,000	\$ 350,000	03e	\$ -	\$ 350,000	\$ 350,000	\$ -
03f	018-A	Understanding Brainworm Transmission to Find Solutions for Minnesota Moose Decline	U of MN	Tiffany Wolf	NE	\$ -	\$ 400,000	\$ 400,000	03f	\$ -	\$ 400,000	\$ 400,000	\$ -
03g	025-A	Mapping Habitat Use and Disease of Urban Carnivores	U of MN	Nicholas McCann	Metro	\$ -	\$ 500,000	\$ 500,000	03g	\$ -	\$ 500,000	\$ 500,000	\$ -
03h	027-A	Accelerated Aggregate Resource Mapping	MN DNR	Heather Arends	SW	\$ -	\$ 700,000	\$ 700,000	03h	\$ -	\$ 700,000	\$ 700,000	\$ -
03i	032-AH	Den Boxes for Fishers and Other Nesting Wildlife	U of MN - Duluth NRRI	Michael Joyce	Central, Metro, NW, NE	\$ -	\$ 190,000	\$ 190,000	03i	\$ -	\$ 190,000	\$ 190,000	\$ -
03j	034-AH	Red-headed Woodpeckers as Indicators of Oak Savanna Health	U of MN	David Andersen	Central	\$ -	\$ 171,000	\$ 171,000	03j	\$ -	\$ 171,000	\$ 171,000	\$ -
03k	035-AH	Implementing Conservation Plans for Avian Species of Concern	Audubon Minnesota	Nathaniel Miller	Statewide	\$ -	\$ 124,000	\$ 124,000	03k	\$ -	\$ 124,000	\$ 124,000	\$ -
03l	038-AH	Mapping Aquatic Habitats for Moose	U of MN	Joseph Bump	NE	\$ -	\$ 199,000	\$ 199,000	03l	\$ -	\$ 199,000	\$ 199,000	\$ -
03m	046-AH	Improving Statewide GIS Data by Restoring the Public Land Survey	Minnesota Association of County Surveyors	Patrick Veraguth	Central	\$ -	\$ 135,000	\$ 135,000	03m	\$ -	\$ 135,000	\$ 135,000	\$ -
03n	002-A	County Geologic Atlases - Part A, Mapping Geology	U of MN - MN Geological Survey	Barbara Lusardi	Statewide	\$ -	\$ 2,000,000	\$ 2,000,000	03n	\$ -	\$ 2,000,000	\$ 2,000,000	\$ -
03o	275-J	County Geologic Atlases - Part B, Mapping Aquifer Hydrology	MN DNR	Paul Putzier	Statewide	\$ -	\$ 2,400,000	\$ 2,400,000	03o	\$ -	\$ 2,400,000	\$ 2,400,000	\$ -
03p	274-J	Unlocking the Science of Minnesota's Moose Decline	Minnesota Zoological Garden	Nicole Mattson	Statewide	\$ -	\$ 199,000	\$ 199,000	03p	\$ -	\$ 199,000	\$ 199,000	\$ -
		Forest and Bioeconomy Research				\$ -	\$ -	\$ -	03q	\$ -	\$ 2,200,000	\$ 2,200,000	\$ 2,200,000
		Minerals and Water Research				\$ -	\$ -	\$ -	03r	\$ -	\$ 883,000	\$ 883,000	\$ 883,000
		Native Bee Survey				\$ -	\$ -	\$ -	03s	\$ -	\$ 600,000	\$ 600,000	\$ 600,000
		Diagnostic Test for Chronic Wasting Disease				\$ -	\$ -	\$ -	03t	\$ 1,804,000	\$ -	\$ 1,804,000	\$ 1,804,000
<b>Foundational Natural Resource Data and Information Subtotal =</b>						<b>\$0</b>	<b>\$9,918,000</b>	<b>\$9,918,000</b>	<b>\$ 1,804,000 \$ 13,601,000 \$ 15,405,000</b>			<b>\$ 5,487,000</b>	
<b>Subd. 04 Water Resources</b>						<b>(19 recommendations=\$5,215,000)</b>			<b>(20 recommendations=\$5,565,000)</b>				
04a	048-B	Determining the Influence of Insecticides on Algal Blooms	U of MN	William Arnold	Statewide	\$ -	\$ 350,000	\$ 350,000	04a	\$ -	\$ 350,000	\$ 350,000	\$ -

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04b	049-B	Benign Design: Environmental Studies Leading to Sustainable Pharmaceuticals	U of MN	William Arnold	Statewide	\$ -	\$ 415,000	\$ 415,000
04c	050-B	Wastewater Nutrient Reduction through Industrial Source Reduction Assistance	U of MN	Laura Babcock	Statewide	\$ -	\$ 200,000	\$ 200,000
04d	051-B	Quantifying Microplastics in Minnesota's Inland Lakes	U of MN - Duluth	Kathryn Schreiner	Statewide	\$ -	\$ 200,000	\$ 200,000
04e	052-B	Improving Nitrogen Removal in Greater Minnesota Wastewater Treatment Ponds	U of MN	Paige Novak	Statewide	\$ -	\$ 325,000	\$ 325,000
04f	054-B	Improving Drinking Water for Minnesotans through Pollution Prevention	U of MN	Raymond Hozalski	Metro	\$ -	\$ 345,000	\$ 345,000
04g	055-B	Protecting Minnesota Waters by Removing Contaminants from Wastewater	U of MN	Matt Simcik	Statewide	\$ -	\$ 250,000	\$ 250,000
04h	058-B	Reducing Municipal Wastewater Mercury Pollution to Lake Superior	Minnesota Pollution Control Agency	Scott Kyser	NE	\$ -	\$ 250,000	\$ 250,000
04i	062-B	Extracting Deicing Salt from Roadside Soils with Plants	U of MN	Bo Hu	Statewide	\$ -	\$ 360,000	\$ 360,000
04j	064-B	Transformation of Plastic Waste into a Valued Resource	U of MN	Brett Barney	Statewide	\$ -	\$ 225,000	\$ 225,000
04k	072-B	Accelerating Perennial Crop Production to Prevent Nitrate Leaching	Stearns County Soil and Water Conservation District	Dennis Fuchs	Central	\$ -	\$ 440,000	\$ 440,000
04l	076-B	Farm-Ready Cover Crops for Protecting Water Quality	Central Lakes College - Ag and Energy Ctr	Keith Olander	Central, Metro, NW, SW, SE	\$ -	\$ 741,000	\$ 741,000
04m	077-B	Setting Realistic Nitrate Reduction Goals in Southeast Minnesota	U of MN	John Nieber	SE	\$ -	\$ 350,000	\$ 350,000
04n	100-BH	Mapping Unprofitable Cropland for Water and Wildlife	Science Museum of Minnesota - St. Croix Research Station	Jason Ulrich	Statewide	\$ -	\$ 100,000	\$ 100,000
04o	101-BH	Evaluating Locally-Sourced Materials for Road Salt Reduction	U of MN - Duluth NRRI	Chanlan Chun	Statewide	\$ -	\$ 162,000	\$ 162,000
04p	102-BH	Minnesota Spring Inventory Final Phase	MN DNR	Paul Putzier	Statewide	\$ -	\$ 71,000	\$ 71,000
04q	106-BH	Restoring Impaired Lakes through Citizen-Aided Carp Management	Carver County Water Management Organization	Andrew Dickhart	Metro	\$ -	\$ 106,000	\$ 106,000
04r	116-BH	Spring Biological Nitrate Removal to Protect Drinking Water	City of Fairmont	Troy Nemmers	SW	\$ -	\$ 175,000	\$ 175,000
04s	053-B	Degrading Chlorinated Industrial Contaminants with Bacteria**	U of MN	Paige Novak	Statewide	\$ -	\$ 1,000	\$ 150,000
		Managed Aquifer Recharge Study				\$ -	\$ -	\$ -
<b>Water Resources Subtotal =</b>						<b>\$0</b>	<b>\$5,066,000</b>	<b>\$5,215,000</b>
<b>Subd. 05 Technical Assistance, Outreach, and Environmental Education</b>						<b>(3 recommendations=\$886,000)</b>		
05a	122-C	Expanding Camp Sunrise Environmental Program	YouthCARE MN	Lori Arnold	Metro	\$ -	\$ 237,000	\$ 237,000
05b	124-C	Connecting Students to the Boundary Waters	Friends of the Boundary Waters Wilderness	Chris Knopf	Statewide	\$ -	\$ 450,000	\$ 450,000

04b	\$ -	\$ 415,000	\$ 415,000	\$ -
04c	\$ -	\$ 200,000	\$ 200,000	\$ -
04d	\$ -	\$ 200,000	\$ 200,000	\$ -
04e	\$ -	\$ 325,000	\$ 325,000	\$ -
04f	\$ -	\$ 345,000	\$ 345,000	\$ -
04g	\$ -	\$ 250,000	\$ 250,000	\$ -
04h	\$ -	\$ 250,000	\$ 250,000	\$ -
04i	\$ -	\$ 360,000	\$ 360,000	\$ -
04j	\$ -	\$ 225,000	\$ 225,000	\$ -
04k	\$ -	\$ 440,000	\$ 440,000	\$ -
04l	\$ -	\$ 741,000	\$ 741,000	\$ -
04m	\$ -	\$ 350,000	\$ 350,000	\$ -
04n	\$ -	\$ 100,000	\$ 100,000	\$ -
04o	\$ -	\$ 162,000	\$ 162,000	\$ -
04p	\$ -	\$ 71,000	\$ 71,000	\$ -
04q	\$ -	\$ 106,000	\$ 106,000	\$ -
04r	\$ -	\$ 175,000	\$ 175,000	\$ -
04s	\$ -	\$ 1,000	\$ 150,000	\$ -
04t	\$ -	\$ 350,000	\$ 350,000	\$ 350,000
	\$ -	\$ 5,416,000	\$ 5,565,000	\$ 350,000
<b>(4 recommendations=\$1,136,000)</b>				
05a	\$ -	\$ 237,000	\$ 237,000	\$ -
05b	\$ -	\$ 450,000	\$ 450,000	\$ -

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05c	143-CH	Mississippi National River and Recreation Area Forest Restoration	Mississippi Park Connection	Mary Hammes	Metro	\$ -	\$ 199,000	\$ 199,000
		Diversity in Environmental Careers				\$ -	\$ -	\$ -
<b>Technical Assistance, Outreach, and Environmental Education Subtotal =</b>						<b>\$ -</b>	<b>\$ 886,000</b>	<b>\$ 886,000</b>
<b>Subd. 06 Aquatic and Terrestrial Invasive Species</b>						<b>(2 recommendations=\$3,100,000)</b>		
06a	160-D	Building Knowledge and Capacity to Solve AIS Problems	U of MN - MAISRC	Nicholas Phelps	Statewide	\$ -	\$ 3,000,000	\$ 3,000,000
06b	173-DH	Oak Wilt Suppression at its Northern Edge	Morrison Soil and Water Conservation District	Shannon Wettstein	Central	\$ -	\$ 100,000	\$ 100,000
		Noxious Weed Detection and Eradication						
		EAB Grants to Cities				\$ -	\$ -	\$ -
<b>Aquatic and Terrestrial Invasive Species Subtotal =</b>						<b>\$ 0</b>	<b>\$ 3,100,000</b>	<b>\$ 3,100,000</b>
<b>Subd. 07 Air Quality and Renewable Energy</b>						<b>(4 recommendations=\$1,485,000)</b>		
07a	176-E	Development of Clean Energy Storage Systems for Farms	U of MN - WCROC	William Northrop	Statewide	\$ -	\$ 650,000	\$ 650,000
07b	186-E	White Earth Nation Community Solar for Economic Resilience	Rural Renewable Energy Alliance	Vicki O'Day	NW, NE	\$ -	\$ 500,000	\$ 500,000
07c	190-EH	Sustainable Solar Energy from Agricultural Plant Byproducts	U of MN - Morris	Ted Pappenfus	Statewide	\$ -	\$ 185,000	\$ 185,000
07d	196-EH	Morris Energy and Environment Community Resilience Plan	City of Morris	Blaine Hill	Statewide	\$ -	\$ 150,000	\$ 150,000
<b>Air Quality and Renewable Energy Subtotal =</b>						<b>\$ 0</b>	<b>\$ 1,485,000</b>	<b>\$ 1,485,000</b>
<b>Subd. 08 Methods to Protect or Restore Land, Water, and Habitat</b>						<b>(4 recommendations=\$4,453,000)</b>		
08a	202-F	Saving Endangered Pollinators through Data-Driven Prairie Restoration	Minnesota Zoological Garden	Erik Runquist	Central, Metro, NW, SW	\$ -	\$ 800,000	\$ 800,000
08b	213-F	Promoting and Restoring Oak Savanna Using Silvopasture	U of MN	Diomy Zamora	Statewide	\$ -	\$ 750,000	\$ 750,000
08c	225-F	Sauk River Dam Removal and Rock Rapids Replacement	City of Melrose	Michael Brethorst	Central	\$ -	\$ 2,768,000	\$ 2,768,000
08d	232-FH	Conservation and Monitoring of Minnesota's Rare Arctic Plants	U of MN - Duluth	Briana Gross	NE	\$ -	\$ 135,000	\$ 135,000
		Nongame Wildlife Program						
		Lawns to Legumes						
		Agricultural Weed Control Using Autonomous Mowers						
<b>Methods to Protect or Restore Land, Water, and Habitat Subtotal =</b>						<b>\$ 0</b>	<b>\$ 4,453,000</b>	<b>\$ 4,453,000</b>
<b>Subd. 09 Land Acquisition, Habitat, and Recreation</b>						<b>(15 recommendations=\$25,101,000)</b>		
09a	247-G	Minnesota Scientific and Natural Areas	MN DNR	Judy Schulte	Statewide	\$ -	\$ 3,500,000	\$ 3,500,000
09b	248-G	Grants for Local Parks, Trails and Natural Areas	MN DNR	Audrey Mularie	Statewide	\$ -	\$ 3,000,000	\$ 3,000,000
09c	249-G	Minnesota State Parks and State Trails In-Holdings	MN DNR	Jennifer Christie	Statewide	\$ -	\$ 2,000,000	\$ 2,000,000
09d	251-G	Minnesota State Trails Development	MN DNR	Kent Skaar	Statewide	\$ -	\$ 5,000,000	\$ 5,000,000

05c	\$ -	\$ 199,000	\$ 199,000	\$ -
05d	\$ -	\$ 250,000	\$ 250,000	\$ 250,000
	\$ -	\$ 1,136,000	\$ 1,136,000	\$ 250,000
	<b>(4 recommendations=\$5,400,000)</b>			
06a	\$ -	\$ 4,000,000	\$ 4,000,000	\$ 1,000,000
06b	\$ -	\$ 100,000	\$ 100,000	\$ -
06c	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
06d	\$ -	\$ 300,000	\$ 300,000	\$ 300,000
	\$ -	\$ 5,400,000	\$ 5,400,000	\$ 2,300,000
	<b>(4 recommendations=\$1,485,000)</b>			
07a	\$ -	\$ 650,000	\$ 650,000	\$ -
07b	\$ -	\$ 500,000	\$ 500,000	\$ -
07c	\$ -	\$ 185,000	\$ 185,000	\$ -
07d	\$ -	\$ 150,000	\$ 150,000	\$ -
	\$ -	\$ 1,485,000	\$ 1,485,000	\$ -
	<b>(7 recommendations=\$6,766,000)</b>			
08a	\$ -	\$ 800,000	\$ 800,000	\$ -
08b	\$ -	\$ 750,000	\$ 750,000	\$ -
08c	\$ -	\$ 2,768,000	\$ 2,768,000	\$ -
08d	\$ -	\$ 135,000	\$ 135,000	\$ -
08e	\$ -	\$ 513,000	\$ 513,000	\$ -
08f	\$ 806,000	\$ 94,000	\$ 900,000	\$ -
08g	\$ -	\$ 900,000	\$ 900,000	\$ 900,000
	\$ 806,000	\$ 5,960,000	\$ 6,766,000	\$ 2,313,000
	<b>(17 recommendations=\$26,351,000)</b>			
09a	\$ -	\$ 3,500,000	\$ 3,500,000	\$ -
09b	\$ -	\$ 3,000,000	\$ 3,000,000	\$ -
09c	\$ -	\$ 2,000,000	\$ 2,000,000	\$ -
09d	\$ -	\$ 5,000,000	\$ 5,000,000	\$ -

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09e	252-G	National Loon Center	National Loon Center Foundation	Leah Heggerston	Central	\$ -	\$ 4,000,000	\$ 4,000,000
09f	253-G	Accessible Fishing Piers	MN DNR	Nancy Stewart	Statewide	\$ -	\$ 320,000	\$ 320,000
09g	254-G	Mesabi Trail Extensions	St. Louis & Lake Counties Regional Railroad Authority	Bob Manzoline	NE	\$ -	\$ 3,000,000	\$ 3,000,000
09j	264-G	Birch Lake Recreation Area Campground	City of Babbitt	Cathy Bissonette	NE	\$ -	\$ 350,000	\$ 350,000
09h	256-G	Britton Peak to Lutsen Mountain Bike Trail	Superior Cycling Association	Tim Kennedy	NE	\$ -	\$ 300,000	\$ 300,000
09i	257-G	Preserving the Avon Hills with Reverse-Bidding Easements	Saint Johns Arboretum and University	John Geissler	Central	\$ -	\$ 1,600,000	\$ 1,600,000
09k	265-G	Bailey Lake Trail and Fishing Pier	City of Virginia	Britt See-Benes	NE	\$ -	\$ 550,000	\$ 550,000
09l	266-G	Vergas Long Lake Trail	City of Vergas	Julie Lammers	NW	\$ -	\$ 290,000	\$ 290,000
09m	269-G	Glacial Edge Trail and Downtown Pedestrian Bridge	City of Fergus Falls	Ryan Miller	NW	\$ -	\$ 600,000	\$ 600,000
09n	271-G	Crane Lake to Vermilion Falls Trail	Voyageur Country ATV	Bruce Beste	NE	\$ -	\$ 400,000	\$ 400,000
09o	272-GH	Restoring Five Sections of the Superior Hiking Trail	Superior Hiking Trail Association	Denny Caneff	NE	\$ -	\$ 191,000	\$ 191,000
		Rainy Lake Recreational Access and Boat Wash						
		Bruce Mine Park and Mesabi Trailhead						
<b>Land Acquisition, Habitat, and Recreation Subtotal =</b>						<b>\$ -</b>	<b>\$ 25,101,000</b>	<b>\$ 25,101,000</b>
<b>Subd. 10 Administration and Contract Agreement Reimbursement</b>						<b>(3 recommendations=\$1,538,000)</b>		
10a	273-l	Contract Agreement Reimbursement	MN DNR	Katherine Sherman-Hoehn	Statewide	\$ -	\$ 135,000	\$ 135,000
10b	---	LCCMR Administration	Legislative-Citizen Commission on Minnesota Resources	Becca Nash	Statewide	\$ -	\$ 1,400,000	\$ 1,400,000
10c	---	LCC Administration	Legislative Coordinating Commission	Sally Olson	Statewide	\$ -	\$ 3,000	\$ 3,000
		Grants Management System				\$ -	\$ -	\$ -
<b>Administration and Contract Agreement Reimbursement Subtotal =</b>						<b>\$ -</b>	<b>\$ 1,538,000</b>	<b>\$ 1,538,000</b>
<b>Subd. 11 Wastewater Treatment Recommendations</b>						<b>(2 recommendations=\$2,000,000)</b>		
11a	---	Water Infrastructure Funding Program	Public Facilities Authority	Jeff Freeman	Statewide	\$ -	\$ 1,500,000	\$ 1,500,000
11b	---	Optimization of Local Mechanical and Pond Wastewater-Treatment Plants	Minnesota Pollution Control Agency	Joel Peck	Statewide	\$ -	\$ 500,000	\$ 500,000
<b>Wastewater Treatment Recommendations Subtotal =</b>						<b>\$ -</b>	<b>\$ 2,000,000</b>	<b>\$ 2,000,000</b>
<b>Total \$ Recommendations =</b>						<b>\$ -</b>	<b>\$ 53,547,000</b>	<b>\$ 53,696,000</b>

09e	\$ -	\$ 4,000,000	\$ 4,000,000	\$ -
09f	\$ -	\$ 320,000	\$ 320,000	\$ -
09g	\$ -	\$ 3,000,000	\$ 3,000,000	\$ -
09j	\$ -	\$ 350,000	\$ 350,000	\$ -
09h	\$ -	\$ 350,000	\$ 350,000	\$ 50,000
09i	\$ -	\$ 1,600,000	\$ 1,600,000	\$ -
09k	\$ -	\$ 550,000	\$ 550,000	\$ -
09l	\$ -	\$ 290,000	\$ 290,000	\$ -
09m	\$ -	\$ 600,000	\$ 600,000	\$ -
09n	\$ -	\$ 400,000	\$ 400,000	\$ -
09o	\$ -	\$ 191,000	\$ 191,000	\$ -
09p		\$ 200,000	\$ 200,000	\$ 200,000
09q	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
	\$ -	\$ 26,351,000	\$ 26,351,000	\$ 1,250,000
				<b>(4 recommendations=\$1,868,000)</b>
10a	\$ -	\$ 135,000	\$ 135,000	\$ -
10b	\$ -	\$ 1,400,000	\$ 1,400,000	\$ -
10c	\$ -	\$ 3,000	\$ 3,000	\$ -
10d	\$ 330,000	\$ -	\$ 330,000	\$ 330,000
	\$ 330,000	\$ 1,538,000	\$ 1,868,000	\$ 330,000
				<b>(1 recommendations=\$500,000)</b>
11a	\$ -	\$ -	\$ -	\$ (1,500,000)
11b	\$ -	\$ 500,000	\$ 500,000	\$ -
	\$ -	\$ 500,000	\$ 500,000	\$ (1,500,000)
	\$ 2,940,000	\$ 61,387,000	\$ 64,476,000	\$ 10,780,000

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ADDITIONALLY \$5 million for PFA Loans out of the corpus of the fund

\* Region of Impact designated in the State include Statewide, Central, Metro, NE, NW, SE, SW. Metro region includes the 11 counties of Anoka, Carver, Chisago,  
\*\* Reallocates \$149,000 from FY 2016 appropriation