Subd.	Title	Organization	Total LCCMR $ Recommended FY2020	Subd.	Special Session FY19	Special Session FY20	Difference from LCCMR Rec
Subd. 03 Foundational Natural Resource Data and Information							
03a	Minnesota Biological Survey	MN DNR	$ 1,500,000	03a		$ 1,500,000	$ -
03b	Restoring Native Mussels in Streams and Lakes	MN DNR	$ 500,000	03b		$ 500,000	$ -
03c	Quantifying Exposure of Minnesota's Raptors to Mercury and PFAS	Hawk Ridge Bird Observatory	$ 250,000	03c		$ 250,000	$ -
03d	Minnesota Trumpeter Swan Migration Ecology and Conservation	U of MN	$ 300,000	03d		$ 300,000	$ -
03e	Spruce Grouse as Indicators for Boreal Forest Connectivity	U of MN - Raptor Center	$ 350,000	03e		$ 350,000	$ -
03f	Understanding Brainworm Transmission to Find Solutions for Minnesota Moose Decline	U of MN	$ 400,000	03f		$ 400,000	$ -
03g	Mapping Habitat Use and Disease of Urban Carnivores	U of MN	$ 500,000	03g		$ 500,000	$ -
03h	Accelerated Aggregate Resource Mapping	MN DNR	$ 700,000	03h		$ 700,000	$ -
03i	Den Boxes for Fishers and other Nesting Wildlife	U of MN - Duluth NRRI	$ 190,000	03i		$ 190,000	$ -
03j	Red-headed Woodpeckers as Indicators of Oak Savanna Health	U of MN	$ 171,000	03j		$ 171,000	$ -
03k	Implementing Conservation Plans for Avian Species of Concern	Audubon Minnesota	$ 124,000	03k		$ 124,000	$ -
03l	Mapping Aquatic Habitats for Moose	U of MN	$ 199,000	03l		$ 199,000	$ -
03m	Improving Statewide GIS Data by Restoring the PLS	Minnesota Association of County Surveyors	$ 135,000	03m		$ 135,000	$ -
03n	County Geologic Atlases - Part A, Mapping Geology	U of MN - MN Geological Survey	$ 2,000,000	03n		$ 2,000,000	$ -
03o	County Geologic Atlases - Part B, Mapping Aquifer Hydrology	MN DNR	$ 2,400,000	03o		$ 2,400,000	$ -
03p	Unlocking the Science of Minnesota's Moose Decline	Minnesota Zoological Garden	$ 199,000	03p		$ 199,000	$ -
	Forest & Bioeconomy Research	U of MN	$ -	03q		$ 2,200,000	$ 2,200,000
	Minerals & Water Research	U of MN - Duluth NRRI	$ -	03r		$ 883,000	$ 883,000
	Native Bee Survey	MN DNR	$ -	03s		$ 600,000	$ 600,000

Subd.	Title	Organization	Total LCCMR $ Recommended FY2020	Subd.	Special Session FY19	Special Session FY20	Difference from LCCMR Rec
	Diagnostic Test for Chronic Wasting Disease	U of MN		03t	$ 1,804,000	$ -	$ 1,804,000
	Foundational Natural Resource Data and Information Subtotal =		**$ 9,918,000**		**$1,804,000**	**$ 13,601,000**	**$ 5,487,000**
Subd. 04 Water Resources							
04a	Determining the Influence of Insecticides on Algal Blooms	U of MN	$ 350,000	04a		$ 350,000	$ -
04b	Benign Design: Environmental Studies Leading to Sustainable Pharmaceuticals	U of MN	$ 415,000	04b		$ 415,000	$ -
04c	Wastewater Nutrient Reduction through Industrial Source Reduction Assistance	U of MN	$ 200,000	04c		$ 200,000	$ -
04d	Quantifying Microplastics in Minnesotas Inland Lakes	U of MN - Duluth	$ 200,000	04d		$ 200,000	$ -
04e	Improving Nitrogen Removal in Greater Minnesota Wastewater Treatment Ponds	U of MN	$ 325,000	04e		$ 325,000	$ -
04f	Improving Drinking Water for Minnesotans through Pollution Prevention	U of MN	$ 345,000	04f		$ 345,000	$ -
04g	Protecting Minnesota Waters by Removing Contaminants from Wastewater	U of MN	$ 250,000	04g		$ 250,000	$ -
04h	Reducing Municipal Wastewater Mercury Pollution to Lake Superior	Minnesota Pollution Control Agency	$ 250,000	04h		$ 250,000	$ -
04i	Extracting Deicing Salt from Roadside Soils with Plants	U of MN	$ 360,000	04i		$ 360,000	$ -
04j	Transformation of Plastic Waste into a Valued Resource	U of MN	$ 225,000	04j		$ 225,000	$ -
04k	Accelerating Perennial Crop Production to Prevent Nitrate Leaching	Stearns County Soil and Water Conservation District	$ 440,000	04k		$ 440,000	$ -
04l	Farm-Ready Cover Crops for Protecting Water Quality	Central Lakes College - Ag & Energy Ctr	$ 741,000	04l		$ 741,000	$ -
04m	Setting Realistic Nitrate Reduction Goals in Southeast Minnesota	U of MN	$ 350,000	04m		$ 350,000	$ -
04n	Mapping Unprofitable Cropland for Water and Wildlife	Science Museum of Minnesota - St. Croix Research Station	$ 100,000	04n		$ 100,000	$ -
04o	Evaluating Locally-Sourced Materials for Road Salt Reduction	U of MN - Duluth NRRI	$ 162,000	04o		$ 162,000	$ -
04p	Minnesota Spring Inventory Final Phase	MN DNR	$ 71,000	04p		$ 71,000	$ -

Subd.	Title	Organization	Total LCCMR $ Recommended FY2020	Subd.	Special Session FY19	Special Session FY20	Difference from LCCMR Rec
04q	Restoring Impaired Lakes through Citizen-Aided Carp Management	Carver County Water Management Organization	$ 106,000	04q		$ 106,000	$ -
04r	Spring Biological Nitrate Removal to Protect Drinking Water	City of Fairmont	$ 175,000	04r		$ 175,000	$ -
04s	Degrading Chlorinated Industrial Contaminants with Bacteria	U of MN	$ 1,000	04s		$ 1,000	$ -
	Managed Aquifer Recharge	U of MN	$ -	04t		$ 350,000	$ 350,000
		Water Resources Subtotal =	**$ 5,066,000**			**$ 5,416,000**	**$ 350,000**
Subd. 05 Technical Assistance, Outreach, and Environmental Education							
05a	Expanding Camp Sunrise Environmental Program	YouthCARE MN	$ 237,000	05a		$ 237,000	$ -
05b	Connecting Students to the Boundary Waters	Friends of the Boundary Waters Wilderness	$ 450,000	05b		$ 450,000	$ -
05c	Mississippi National River and Recreation Area Forest Restoration	Mississippi Park Connection	$ 199,000	05c		$ 199,000	$ -
	Diversity in Environmental Careers	MN DNR	$ -	05d		$ 250,000	$ 250,000
		Technical Assistance, Outreach, and Environmental Education Subtotal =	**$ 886,000**			**$ 1,136,000**	**$ 250,000**
Subd. 06 Aquatic and Terrestrial Invasive Species							
06a	Building Knowledge and Capacity to Solve AIS Problems	U of MN - MAISRC	$ 3,000,000	06a		$ 4,000,000	$ 1,000,000
06b	Oak Wilt Suppression at its Northern Edge	Morrison Soil and Water Conservation District	$ 100,000	06b		$ 100,000	$ -
	Noxious Weed Detection and Eradication	Department of Agriculture	$ -	06c		$ 1,000,000	$ 1,000,000
	EAB Grants to Cities	MN DNR	$ -	06d		$ 300,000	$ 300,000
		Aquatic and Terrestrial Invasive Species Subtotal =	**$ 3,100,000**			**$ 5,400,000**	**$ 2,300,000**
Subd. 07 Air Quality and Renewable Energy							
07a	Development of Clean Energy Storage Systems for Farms	U of MN - WCROC	$ 650,000	07a		$ 650,000	$ -

Subd.	Title	Organization	Total LCCMR $ Recommended FY2020	Subd.	Special Session FY19	Special Session FY20	Difference from LCCMR Rec
07b	White Earth Nation Community Solar for Economic Resilience	Rural Renewable Energy Alliance	$ 500,000	07b		$ 500,000	$ -
07c	Sustainable Solar Energy from Agricultural Plant Byproducts	U of MN - Morris	$ 185,000	07c		$ 185,000	$ -
07d	Morris Energy and Environment Community Resilience Plan	City of Morris	$ 150,000	07d		$ 150,000	$ -
		Air Quality and Renewable Energy Subtotal =	**$1,485,000**			**$ 1,485,000**	$ -
Subd. 08 Methods to Protect or Restore Land, Water, and Habitat							
08a	Saving Endangered Pollinators through Data-Driven Prairie Restoration	Minnesota Zoological Garden	$ 800,000	08a		$ 800,000	$ -
08b	Promoting and Restoring Oak Savanna Using Silvopasture	U of MN	$ 750,000	08b		$ 750,000	$ -
08c	Sauk River Dam Removal and Rock Rapids Replacement	City of Melrose	$ 2,768,000	08c		$ 2,768,000	$ -
08d	Conservation and Monitoring of Minnesota's Rare Arctic Plants	U of MN - Duluth	$ 135,000	08d		$ 135,000	$ -
	Nongame Wildlife Program	MN DNR	$ -	08e		$ 513,000	$ 513,000
	Lawns to Legumes	BWSR	$ -	08f	$ 806,000	$ 94,000	$ 900,000
	Agricultural Weed Control Using Autonomous Mowers	U of MN		08g		$ 900,000	$ 900,000
		Methods to Protect or Restore Land, Water, and Habitat Subtotal =	**$4,453,000**		**$806,000**	**$ 5,960,000**	**$ 2,313,000**
Subd. 09 Land Acquisition, Habitat, and Recreation							
09a	Minnesota Scientific and Natural Areas	MN DNR	$ 3,500,000	09a		$ 3,500,000	$ -
09b	Grants for Local Parks, Trails and Natural Areas	MN DNR	$ 3,000,000	09b		$ 3,000,000	$ -
09c	Minnesota State Parks and State Trails In-Holdings	MN DNR	$ 2,000,000	09c		$ 2,000,000	$ -
09d	Minnesota State Trails Development	MN DNR	$ 5,000,000	09d		$ 5,000,000	$ -
09e	National Loon Center	National Loon Center Foundation	$ 4,000,000	09e		$ 4,000,000	$ -
09f	Accessible Fishing Piers	MN DNR	$ 320,000	09f		$ 320,000	$ -

Subd.	Title	Organization	Total LCCMR $ Recommended FY2020	Subd.	Special Session FY19	Special Session FY20	Difference from LCCMR Rec
09g	Mesabi Trail Extensions	St. Louis & Lake Counties Regional Railroad Authority	$ 3,000,000	09g		$ 3,000,000	$ -
	Birch Lake Recreation Area Campground	City of Babbitt	$ 350,000	09h		$ 350,000	$ -
09h	Britton Peak to Lutsen Mountain Bike Trail	Superior Cycling Association	$ 300,000	09i		$ 350,000	$ 50,000
09i	Preserving the Avon Hills with Reverse-Bidding Easements	Saint Johns Arboretum and University	$ 1,600,000	09j		$ 1,600,000	$ -
09k	Bailey Lake Trail and Fishing Pier	City of Virginia	$ 550,000	09k		$ 550,000	$ -
09l	Vergas Long Lake Trail	City of Vergas	$ 290,000	09l		$ 290,000	$ -
09m	Glacial Edge Trail and Downtown Pedestrian Bridge	City of Fergus Falls	$ 600,000	09m		$ 600,000	$ -
09n	Crane Lake to Vermilion Falls Trail	Voyageur Country ATV	$ 400,000	09n		$ 400,000	$ -
09o	Restoring Five Sections of the Superior Hiking Trail	Superior Hiking Trail Association	$ 191,000	09o		$ 191,000	$ -
	Rainy Lake Recreational Access and Boat Wash	MN DNR	$ -	09p		$ 200,000	$ 200,000
	Bruce Mine Park & Mesabi Trail Head	MN DNR		09q		$ 1,000,000	$ 1,000,000
		Land Acquisition, Habitat, and Recreation Subtotal =	**$ 25,101,000**			**$ 26,351,000**	**$ 1,250,000**
Subd. 10 Administration and Contract Agreement Reimbursement							
10a	Contract Agreement Reimbursement	MN DNR	$ 135,000	10a		$ 135,000	$ -
10b	LCCMR Administration	Legislative-Citizen Commission on Minnesota Resources	$ 1,400,000	10b		$ 1,400,000	$ -
10c	LCC Administration	Legislative Coordinating Commission	$ 3,000	10c		$ 3,000	$ -
	Grants Management System	Legislative Coordinating Commission	$ -	10d	$ 330,000		$ 330,000
		Administration and Contract Agreement Reimbursement Subtotal =	**$ 1,538,000**		**$ 330,000**	**$ 1,538,000**	**$ 330,000**
Subd. 11 Wastewater Treatment Recommendations							

Subd.	Title	Organization	Total LCCMR $ Recommended FY2020	Subd.	Special Session FY19	Special Session FY20	Difference from LCCMR Rec
11a & 12b	Water Infrastructure Funding Program	Public Facilities Authority	$ 1,500,000	11a	Note (1)	$ -	
11b	Optimizing Local Mechanical & Pond Wastewater Treatment Plants	Public Facilities Authority	$ 500,000	11b		$ 500,000	$ -
		Wastewater Treatment Recommendations Subtotal =	**$ 2,000,000**			**$ 500,000**	**$ (1,500,000)**
		Total $ Recommendations =	**$ 53,547,000**		**$ 2,940,000**	**$ 61,387,000**	**$ 10,780,000**
	Reserved for Debt Service (plus $2,940,000 in FY2019)		*$ 7,840,000*		$ -	$ -	$ (7,840,000)
	Total ENTF FY2019 & FY2020		**$ 61,387,000**		**$ 2,940,000**	**$ 61,387,000**	$ 2,940,000

(1) Authorizes up to $5 million from the corpus of the Trust Fund for loans through the Public Facilities Authority's Clean Water Revolving Fund