SF2934 **REVISOR CKM** S2934-1 1st Engrossment

## SENATE STATE OF MINNESOTA NINETIETH SESSION

A bill for an act

relating to natural resources; appropriating money from environment and natural

S.F. No. 2934

(SENATE AUTHORS: WESTROM, Ingebrigtsen, Dahms, Tomassoni and Dziedzic) DATE D-PG **OFFICIAL STATUS** 03/05/2018 Introduction and first reading Referred to Environment and Natural Resources Finance 6265

03/29/2018 7099a Comm report: To pass as amended and re-refer to Finance

05/15/2018 Comm report: To pass as amended

1.1

1.2

1.23

1.24

Second reading

resources trust fund; correcting previous appropriations; modifying requirements 13 for receipt of fund money; amending Minnesota Statutes 2016, sections 116P.08, 1.4 subdivision 2; 116P.12, subdivision 1; Laws 2015, chapter 76, section 2, subdivision 1.5 9; Laws 2017, chapter 96, section 2, subdivision 8. 1.6 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MINNESOTA: 1.7 1.8 Section 1. APPROPRIATIONS. The sums shown in the columns marked "Appropriations" are appropriated to the agencies 1.9 and for the purposes specified in this act. The appropriations are from the environment and 1.10 natural resources trust fund, or another named fund, and are available for the fiscal years 1.11 indicated for each purpose. The figures "2018" and "2019" used in this act mean that the 1.12 appropriations listed under them are available for the fiscal year ending June 30, 2018, or 1.13 June 30, 2019, respectively. "The first year" is fiscal year 2018. "The second year" is fiscal 1.14 year 2019. "The biennium" is fiscal years 2018 and 2019. 1.15 APPROPRIATIONS 1.16 Available for the Year 1.17 **Ending June 30** 1.18 2018 2019 1.19 Sec. 2. MINNESOTA RESOURCES 1.20 1.21 Subdivision 1. Total Appropriation \$ 89,000 \$ 45,739,000 The amounts that may be spent for each 1.22

Sec. 2. 1

subdivisions. Appropriations are available for

purpose are specified in the following

2.1	two years beginning July 1, 2018, unless		
2.2	otherwise stated in the appropriation. Any		
2.3	unencumbered balance remaining in the first		
2.4	year does not cancel and is available for the		
2.5	second year or until the end of the		
2.6	appropriation.		
2.7	Subd. 2. <b>Definition</b>		
2.8	"Trust fund" means the Minnesota		
2.9	environment and natural resources trust fund		
2.10	established under the Minnesota Constitution,		
2.11	article XI, section 14.		
2.12 2.13	Subd. 3. Foundational Natural Resource Data and Information	<u>-0-</u>	7,293,000
2.14	(a) County Geologic Atlases - Part A		
2.15	\$2,500,000 the second year is from the trust		
2.16	fund to the Board of Regents of the University		
2.17	of Minnesota, Minnesota Geological Survey,		
2.18	to continue producing county geologic atlases		
2.19	for the purpose of informed management of		
2.20	surface water and groundwater resources. This		
2.21	appropriation is to complete part A, which		
2.22	focuses on the properties and distribution of		
2.23	earth materials to define aquifer boundaries		
2.24	and the connection of aquifers to the land		
2.25	surface and surface water resources. This		
2.26	appropriation is available until June 30, 2022,		
2.27	by which time the project must be completed		
2.28	and final products delivered.		
2.29	(b) County Geologic Atlases - Part B		
2.30	\$1,500,000 the second year is from the trust		
2.31	fund to the commissioner of natural resources		
2.32	to continue producing county geologic atlases		
2.33	for the purpose of informed management of		
2.34	surface water and groundwater resources for		
2.35	drinking water and other purposes. This		

S2934-1

REVISOR

1st Engrossment

SF2934

3.1	appropriation is to complete part B, which
3.2	uses the geologic formations mapped in part
3.3	A of the county geologic atlas project to
3.4	characterize the potential water yields of
3.5	aquifers and their sensitivity to contamination.
3.6	This appropriation is available until June 30,
3.7	2021, by which time the project must be
3.8	completed and final products delivered.
3.9 3.10	(c) Providing Critical Water-Quality Information for Lake Management
3.11	\$250,000 the second year is from the trust
3.12	fund to the Board of Regents of the University
3.13	of Minnesota to develop a semiautomated
3.14	system to acquire, process, and deliver new
3.15	satellite-derived water-quality data in near real
3.16	time on water clarity, algae, and turbidity for
3.17	Minnesota lakes. This appropriation is
3.18	available until June 30, 2021, by which time
3.19	the project must be completed and final
3.20	products delivered.
3.21	(d) Minnesota Biodiversity Atlas - Phase 2
3.22	\$350,000 the second year is from the trust
3.23	fund to the Board of Regents of the University
3.24	of Minnesota to expand the biodiversity atlas
3.25	project by adding more than 800,000 records
3.26	and images of Minnesota wildlife, plants, and
3.27	fungi, including observations from state
3.28	agencies and other museum collections, to
3.29	enhance research, guide field surveys, and
3.30	inform conservation planning. This
3.31	appropriation is available until June 30, 2021,
3.32	by which time the project must be completed
3.33	and final products delivered.
3.34	(e) Peatland Forest Management

REVISOR

CKM

S2934-1

1st Engrossment

4.1	\$600,000 the second year is from the trust
4.2	fund to the Board of Regents of the University
4.3	of Minnesota to identify management actions
4.4	to maximize benefits to wildlife, water quality,
4.5	timber production, and native plant
4.6	communities in peatland forests. This
4.7	appropriation is available until June 30, 2022,
4.8	by which time the project must be completed
4.9	and final products delivered.
4.10 4.11	(f) Assessing Natural Resource Benefits Provided by Lichens and Mosses
4.12	\$213,000 the second year is from the trust
4.13	fund to the Board of Regents of the University
4.14	of Minnesota to survey, map, and analyze
4.15	mosses and lichens across the state, including
4.16	their moisture-retention capacity, effects on
4.17	hydrology, and ability to filter airborne
4.18	pollutants. This appropriation is available until
4.19	June 30, 2021, by which time the project must
4.20	be completed and final products delivered.
4.21 4.22	(g) Develop a System to Assess Wildlife Health Threats in Minnesota
4.23	\$280,000 the second year is from the trust
4.24	fund to the Board of Regents of the University
4.25	of Minnesota to develop a statewide
4.26	information-management system that uses
4.27	wildlife-rehabilitation data to identify
4.28	emerging threats to wildlife health in
4.29	Minnesota.
4.30 4.31	(h) Conserving Minnesota's Forest Birds of Management Concern
4.32	\$500,000 the second year is from the trust
4.33	fund to the Board of Regents of the University
4.34	of Minnesota for the Natural Resources
4.35	Research Institute in Duluth to identify
4.36	forest-management actions and guidelines to

CKM

S2934-1

1st Engrossment

REVISOR

5.1	conserve birds in Minnesota's forests. This
5.2	appropriation is available until June 30, 2021,
5.3	by which time the project must be completed
5.4	and final products delivered.
5.5	(i) Mapping Avian Movement in Minnesota
5.6	\$200,000 the second year is from the trust
5.7	fund to the Board of Regents of the University
5.8	of Minnesota for the Natural Resources
5.9	Research Institute in Duluth to pilot the
5.10	establishment of a network of automated
5.11	radio-telemetry stations to monitor bird
5.12	migration and local movements and to develop
5.13	strategic plans for using the infrastructure long
5.14	term to monitor animal movement for
5.15	conservation. This appropriation is available
5.16	until June 30, 2021, by which time the project
5.17	must be completed and final products
5.18	delivered.
5.19	(j) Improve Trout-Stream Management by
5.20 5.21	Understanding Variable Winter Thermal Conditions
0.21	
5.22	\$400,000 the second year is from the trust
5.23	fund to the Board of Regents of the University
5.24	of Minnesota to identify how winter
5.25	groundwater flows, air temperature, and
5.26	streambed conditions affect insect productivity
5.27	in order to guide restoration and management
5.28	efforts in southeastern Minnesota trout
5.29	streams. This appropriation is available until
5.30	June 30, 2021, by which time the project must
5.31	be completed and final products delivered.
5.32 5.33	(k) Conserving Minnesota's Nine Species of Freshwater Turtles
J.JJ	1 Communes 1 Ul ties
5.34	\$300,000 the second year is from the trust
5.35	fund to the Minnesota Zoological Garden to
5.36	improve the long-term viability of Minnesota's

REVISOR

SF2934

CKM

1st Engrossment

S2934-1

6.1	imperiled turtle populations by researching		
6.2	threats, identifying mitigation strategies,		
6.3	implementing mechanisms to reduce threats		
6.4	and mortality, and creating related outreach		
6.5	and educational materials. This appropriation		
6.6	is available until June 30, 2021, by which time		
6.7	the project must be completed and final		
6.8	products delivered.		
6.9 6.10	(l) Develop Sonar Data Mapping on Three Rivers to Assess Suitability for Native Mussel		
6.11	<u>Habitat</u>		
6.12	\$200,000 the second year is from the trust		
6.13	fund to the commissioner of natural resources		
6.14	for an agreement with the National Park		
6.15	Service to create high-resolution sonar data		
6.16	maps to identify critical native mussel habitat		
6.17	for the designated Lower St. Croix National		
6.18	Scenic Riverway and the Mississippi National		
6.19	River and Recreation Area including part of		
6.20	the Minnesota River.		
6.21	Subd. 4. Water Resources	89,000	5,186,000
6.22 6.23	(a) Pilot Program to Optimize Local Mechanical and Pond Wastewater-Treatment Plants		
6.24	\$89,000 the first year and \$611,000 the second		
6.25	year are from the trust fund to the		
6.26	commissioner of the Minnesota Pollution		
6.27	Control Agency, in partnership with the		
6.28	Minnesota Rural Water Association and the		
6.29	University of Minnesota's Technical		
6.30	Assistance Program, to implement a pilot		
6.31	program to optimize existing local mechanical		
6.32	and pond wastewater-treatment systems to		
6.33	increase nutrient removal and improve		
6.34	efficiency without requiring costly upgrades.		
6.35 6.36 6.37	(b) Assess and Develop Strategies to Remove Microscopic Plastic-Particle Pollution from Minnesota Water Bodies		

S2934-1

1st Engrossment

REVISOR

SF2934

7.1	\$300,000 the second year is from the trust
7.2	fund to the Board of Regents of the University
7.3	of Minnesota to assess, track, and develop
7.4	methods to remove microscopic plastic
7.5	particles that are dispersed and accumulating
7.6	as pollution in Minnesota water bodies. This
7.7	appropriation is subject to Minnesota Statutes,
7.8	section 116P.10. This appropriation is
7.9	available until June 30, 2021, by which time
7.10	the project must be completed and final
7.11	products delivered.
7.12 7.13 7.14	(c) Reduce Chlorides in Minnesota Waters by Evaluating Road-Salt Alternatives and Pavement Innovations
7.15	\$400,000 the second year is from the trust
7.16	fund to the Board of Regents of the University
7.17	of Minnesota to investigate road-salt
7.18	alternatives and pavement innovations to
7.19	reduce lake, stream, and groundwater
7.20	degradation caused by road-salt chlorides. This
7.21	appropriation is available until June 30, 2021,
7.22	by which time the project must be completed
7.23	and final products delivered.
7.24	(d) Protect Water Quality with Efficient
7.25 7.26	Removal of Contaminants in Treatment Ponds for Storm Water
7.27	\$325,000 the second year is from the trust
7.28	fund to the Board of Trustees of the Minnesota
7.29	State Colleges and Universities system for St.
7.30	Cloud State University to evaluate the
7.31	effectiveness of best management practices in
7.32	removing contaminants from storm water to
7.33	safeguard aquatic habitats. This appropriation
7.34	is available until June 30, 2021, by which time
7.35	the project must be completed and final
7.36	products delivered.

REVISOR

CKM

S2934-1

1st Engrossment

8.1 8.2	(e) Develop Small and Inexpensive Purification System for Community Drinking Water
8.3	\$425,000 the second year is from the trust
8.4	fund to the Board of Regents of the University
8.5	of Minnesota to develop a small and
8.6	inexpensive purification-technology system
8.7	for community drinking-water facilities to
8.8	remove toxic contaminants, make water safe
8.9	to drink, and improve drinking-water quality.
8.10	This appropriation is subject to Minnesota
8.11	Statutes, section 116P.10. This appropriation
8.12	is available until June 30, 2021, by which time
8.13	the project must be completed and final
8.14	products delivered.
8.15 8.16 8.17	(f) Evaluate Emerging Pathogens in Lakes, Rivers, and Tap Water to Keep Drinking Water Safe
8.18	\$325,000 the second year is from the trust
8.19	fund to the Board of Regents of the University
8.20	of Minnesota to evaluate emerging pathogens
8.21	including Legionella and mycobacteria to
8.22	ensure that surface water used for drinking
8.23	water and tap water is safe to drink. This
8.24	appropriation is available until June 30, 2021,
8.25	by which time the project must be completed
8.26	and final products delivered.
8.27 8.28	(g) Characterize Unregulated Contaminants in Source Water and Drinking Water
8.29	\$1,000,000 the second year is from the trust
8.30	fund to the commissioner of health to establish
8.31	monitoring networks of public water-system
8.32	wells and surface-water intakes to determine
8.33	if contaminants persist after standard public
8.34	water treatment. This appropriation is
8.35	available until June 30, 2022, by which time

REVISOR

CKM

S2934-1

1st Engrossment

9.1	the project must be completed and final
9.2	products delivered.
9.3 9.4 9.5	(h) Mapping Antibiotic Resistance in Minnesota to Help Protect Environmental, Animal, and Human Health
9.6	\$750,000 the second year is from the trust
9.7	fund to the Board of Regents of the University
9.8	of Minnesota to quantify and map antibiotic
9.9	and antibiotic-resistance gene contamination
9.10	in Minnesota waters and soils to identify
9.11	locations in need of mitigation to protect
9.12	environmental, animal, and human health. This
9.13	appropriation is available until June 30, 2021,
9.14	by which time the project must be completed
9.15	and final products delivered.
9.16 9.17	(i) Farmer-Led Expansion of Alfalfa Production to Increase Water Protection
9.18	\$500,000 the second year is from the trust
9.19	fund to the Board of Regents of the University
9.20	of Minnesota to develop a farmer-led,
9.21	market-based working-lands approach to
9.22	increase water protection in agricultural areas
9.23	by targeted expansion of alfalfa production
9.24	and development of methods to convert alfalfa
9.25	to high-value bioproducts. This appropriation
9.26	is available until June 30, 2021, by which time
9.27	the project must be completed and final
9.28	products delivered.
9.29 9.30	(j) Using Perennial Grain Crops in Wellhead Protection Areas to Protect Groundwater
9.31	\$250,000 the second year is from the trust
9.32	fund to the commissioner of agriculture to
9.33	establish demonstration plots of Kernza, a new
9.34	intermediate perennial grain crop, to evaluate
9.35	the potential to profitably reduce nitrate
9.36	contamination of groundwater in vulnerable

CKM

S2934-1

REVISOR

1st Engrossment

10.1	wellhead protection regions of Minnesota.
10.2	Any income generated as part of this
10.3	appropriation may be used to expand the
10.4	project.
10.5 10.6 10.7	(k) Implement Pilot Credit-Trading System for Storm Water in Shell Rock River Watershed to Improve Water Quality
10.8	\$300,000 the second year is from the trust
10.9	fund to the commissioner of natural resources
10.10	for an agreement with the Shell Rock River
10.11	Watershed District to develop and implement
10.12	a pilot water-quality credit-trading program
10.13	for storm water that provides voluntary and
10.14	cost-effective options to reduce pollution on
10.15	a watershed scale.
10.16 10.17	Subd. 5. Technical Assistance, Outreach, and Environmental Education -0- 5,168,000
10.18	(a) Prairie Sportsman Statewide Environmental
10.19	Broadcasts and Videos
10.19	\$300,000 the second year is from the trust
10.20	\$300,000 the second year is from the trust
10.20 10.21	\$300,000 the second year is from the trust fund to the commissioner of natural resources
10.20 10.21 10.22	\$300,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Pioneer Public
10.20 10.21 10.22 10.23	\$300,000 the second year is from the trust  fund to the commissioner of natural resources  for an agreement with Pioneer Public  Television to provide outreach on outdoor
10.20 10.21 10.22 10.23 10.24	\$300,000 the second year is from the trust  fund to the commissioner of natural resources  for an agreement with Pioneer Public  Television to provide outreach on outdoor  recreation, conservation, and natural resource
10.20 10.21 10.22 10.23 10.24 10.25	\$300,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Pioneer Public Television to provide outreach on outdoor recreation, conservation, and natural resource issues, including water quality, wildlife
10.20 10.21 10.22 10.23 10.24 10.25 10.26	\$300,000 the second year is from the trust  fund to the commissioner of natural resources  for an agreement with Pioneer Public  Television to provide outreach on outdoor  recreation, conservation, and natural resource  issues, including water quality, wildlife  habitat, and invasive species, through a series
10.20 10.21 10.22 10.23 10.24 10.25 10.26 10.27	\$300,000 the second year is from the trust  fund to the commissioner of natural resources  for an agreement with Pioneer Public  Television to provide outreach on outdoor  recreation, conservation, and natural resource  issues, including water quality, wildlife  habitat, and invasive species, through a series  of interrelated educational and training videos
10.20 10.21 10.22 10.23 10.24 10.25 10.26 10.27 10.28 10.29	\$300,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Pioneer Public  Television to provide outreach on outdoor recreation, conservation, and natural resource issues, including water quality, wildlife habitat, and invasive species, through a series of interrelated educational and training videos and statewide broadcast television programs.  (b) YES! Students Take on Minnesota Water-
10.20 10.21 10.22 10.23 10.24 10.25 10.26 10.27 10.28 10.29 10.30	\$300,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Pioneer Public Television to provide outreach on outdoor recreation, conservation, and natural resource issues, including water quality, wildlife habitat, and invasive species, through a series of interrelated educational and training videos and statewide broadcast television programs.  (b) YES! Students Take on Minnesota Water- Quality Challenge
10.20 10.21 10.22 10.23 10.24 10.25 10.26 10.27 10.28 10.29 10.30	\$300,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Pioneer Public  Television to provide outreach on outdoor recreation, conservation, and natural resource issues, including water quality, wildlife habitat, and invasive species, through a series of interrelated educational and training videos and statewide broadcast television programs.  (b) YES! Students Take on Minnesota Water- Quality Challenge  \$213,000 the second year is from the trust
10.20 10.21 10.22 10.23 10.24 10.25 10.26 10.27 10.28 10.29 10.30 10.31 10.32	\$300,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Pioneer Public Television to provide outreach on outdoor recreation, conservation, and natural resource issues, including water quality, wildlife habitat, and invasive species, through a series of interrelated educational and training videos and statewide broadcast television programs.  (b) YES! Students Take on Minnesota Water- Quality Challenge  \$213,000 the second year is from the trust fund to the commissioner of natural resources
10.20 10.21 10.22 10.23 10.24 10.25 10.26 10.27 10.28 10.29 10.30 10.31 10.32 10.33	\$300,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Pioneer Public Television to provide outreach on outdoor recreation, conservation, and natural resource issues, including water quality, wildlife habitat, and invasive species, through a series of interrelated educational and training videos and statewide broadcast television programs.  (b) YES! Students Take on Minnesota Water- Quality Challenge  \$213,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Prairie Woods

S2934-1

1st Engrossment

REVISOR

SF2934

11.1	mobilizing over 20 youth-led teams in
11.2	Minnesota communities to complete 30 or
11.3	more projects related to water quality
11.4	including monitoring and reporting.
11.5	(c) Get Outdoors After-School Training
11.6	\$30,000 the second year is from the trust fund
11.7	to the commissioner of natural resources for
11.8	an agreement with Project Get Outdoors to
11.9	train and equip youth leaders at out-of-school
11.10	youth organizations across Minnesota with
11.11	knowledge, skills, and resources to incorporate
11.12	outdoor nature activities into after-school
11.13	programs for at least 6,000 children, including
11.14	those from underserved populations.
11.15 11.16	(d) Connecting Students with Water Stewardship through Hands-on Learning
11.17	\$400,000 the second year is from the trust
11.18	fund to the commissioner of natural resources
11.19	for an agreement with Minnesota Trout
11.20	Unlimited to engage students in classroom and
11.21	outdoor hands-on learning focused on water
11.22	quality, groundwater, aquatic life, and
11.23	watershed stewardship and providing youth
11.24	and their families with fishing experiences.
11.25	This appropriation is available until June 30,
11.26	2021, by which time the project must be
11.27	completed and final products delivered.
11.28 11.29	(e) Expanding River Watch Program on the Minnesota River With High School Teams
11.30	\$100,000 the second year is from the trust
11.31	fund to the commissioner of natural resources
11.32	for an agreement with Friends of the
11.33	Minnesota Valley to expand a River Watch
11.34	program on the Minnesota River to recruit at
11.35	least 15 additional teams of high school

REVISOR

CKM

S2934-1

1st Engrossment

12.1	students in monthly monitoring and reporting
12.2	of water quality.
12.3 12.4	(f) Increase Diversity in Environmental Careers to Serve Minnesota's Changing Demographics
12.5	\$750,000 the second year is from the trust
12.6	fund to the commissioner of natural resources
12.7	in cooperation with Conservation Corps
12.8	Minnesota and Iowa to provide a
12.9	college-to-work pathway for students of
12.10	diversity to pursue natural resources careers
12.11	through internships and mentorships with state
12.12	agencies. This appropriation is available until
12.13	June 30, 2023, by which time the project must
12.14	be completed and final products delivered.
12.15 12.16	(g) Pollinator Ambassadors Program for Gardens
12.17	\$250,000 the second year is from the trust
12.18	fund to the Board of Regents of the University
12.19	of Minnesota to increase knowledge of
12.20	pollinators in gardens and yards and improve
12.21	pollinator habitat by expanding outreach,
12.22	training, and tools for Minnesota communities
12.23	as part of the Pollinator Ambassadors program.
12.24	This appropriation is available until June 30,
12.25	2021, by which time the project must be
12.26	completed and final products delivered.
12.27 12.28	(h) Morris Prairie Pollinator Demonstration Area and Education
12.29	\$550,000 the second year is from the trust
12.30	fund to the Board of Regents of the University
12.31	of Minnesota for the West Central Research
12.32	and Outreach Center at Morris to restore 17
12.33	acres of native prairie for pollinators and to
12.34	construct wayside shelters and kiosks along
12.35	an existing trail to provide information to
12.36	visitors on the importance of pollinators and

CKM

S2934-1

REVISOR

1st Engrossment

13.1	native prairie ecosystems. This appropriation
13.2	is available until June 30, 2021, by which time
13.3	the project must be completed and final
13.4	products delivered.
13.5 13.6 13.7	(i) Expanding Nature Knowledge and Experience with New Interactive Exhibits at North Mississippi Regional Park
13.8	\$500,000 the second year is from the trust
13.9	fund to the commissioner of natural resources
13.10	for an agreement with the Minneapolis Park
13.11	and Recreation Board to develop new
13.12	interactive exhibits at North Mississippi
13.13	Regional Park to encourage the approximately
13.14	326,000 annual visitors to better understand
13.15	and explore the river and surrounding natural
13.16	area.
13.17	(j) Update International Wolf Center Exhibits
13.18	\$1,000,000 the second year is from the trust
13.19	fund to the commissioner of natural resources
13.20	for an agreement with the International Wolf
13.21	Center to design, construct, and install new
13.22	interactive educational exhibits to help
13.23	Minnesotans understand coexistence with the
13.24	state's wolf populations and ongoing wolf-
13.25	management efforts.
13.26 13.27	(k) Expanding the State's Reuse Economy to Conserve Natural Resources
13.28	\$275,000 the second year is from the trust
13.29	fund to the commissioner of natural resources
13.30	for an agreement with ReUSE Minnesota to
13.31	provide outreach and technical assistance to
13.32	communities and small businesses to create
13.33	and expand opportunities for reusing, renting,
13.34	and repairing consumer goods as an alternative
13.35	to using new materials so solid-waste disposal
13.36	and its impacts are measurably reduced and

CKM

S2934-1

REVISOR

1st Engrossment

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
14.1	more local reuse jobs are created. Net income		
14.2	generated as part of this appropriation may be		
14.3	reinvested in the project if a plan for		
14.4	reinvestment is approved in the work plan.		
14.5 14.6	(l) Expand Materials Reuse and Recycling Jobs <u>Program</u>		
14.7	\$665,000 the second year is from the trust		
14.8	fund to the commissioner of natural resources		
14.9	for an agreement with Better Futures		
14.10	Minnesota, in cooperation with the Northwest		
14.11	Indian Community Development Corporation,		
14.12	and \$135,000 the second year is from the trust		
14.13	fund to the Board of Regents of the University		
14.14	of Minnesota for the Natural Resources		
14.15	Research Institute in Duluth to expand		
14.16	building deconstruction and material-reuse		
14.17	practices and jobs in partnership with counties,		
14.18	tribes, and municipalities statewide and to		
14.19	document the environmental, health, and		
14.20	economic benefits of these practices. Net		
14.21	income generated by Better Futures as part of		
14.22	this or a previous related appropriation from		
14.23	the environment and natural resources trust		
14.24	fund may be reinvested in the project if a plan		
14.25	for reinvestment is approved in the work plan.		
14.26	Subd. 6. Aquatic and Terrestrial Invasive Species	<u>-0-</u>	5,760,000
14.27 14.28	(a) Minnesota Invasive Terrestrial Plants and Pests Center - Phase 4		
14.29	\$3,500,000 the second year is from the trust		
14.30	fund to the Board of Regents of the University		
14.31	of Minnesota for high-priority research at the		
14.32	Invasive Terrestrial Plants and Pests Center		
14.33	to protect Minnesota's natural and agricultural		
14.34	resources from terrestrial invasive plants,		
14.35	pathogens, and pests as identified through the		
14.36	center's strategic prioritization process. This		

S2934-1

REVISOR

1st Engrossment

SF2934

15.1	appropriation is available until June 30, 2023,
15.2	by which time the project must be completed
15.3	and final products delivered.
15.4 15.5	(b) Palmer Amaranth Detection and Eradication Continuation
15.6	\$431,000 the second year is from the trust
15.7	fund to the commissioner of agriculture to
15.8	continue to monitor, ground survey, and
15.9	control Palmer amaranth primarily in
15.10	conservation plantings and to develop and
15.11	implement aerial-survey methods to prevent
15.12	infestation and protect prairies, other natural
15.13	areas, and agricultural crops.
15.14 15.15	(c) Evaluate Control Methods for Invasive Hybrid Cattails
15.16	\$131,000 the second year is from the trust
15.17	fund to the commissioner of natural resources
15.18	for an agreement with Voyageurs National
15.19	Park to evaluate the effectiveness of
15.20	mechanical harvesting and managing muskrat
15.21	populations to remove exotic hybrid cattails
15.22	and restore fish and wildlife habitat in
15.23	Minnesota wetlands. This appropriation is
15.24	available until June 30, 2021, by which time
15.25	the project must be completed and final
15.26	products delivered.
15.27 15.28	(d) Developing RNA Interference to Control Zebra Mussels
15.29	\$500,000 the second year is from the trust
15.30	fund to the commissioner of natural resources
15.31	for an agreement with the United States
15.32	Geological Survey to develop a genetic control
15.33	tool that exploits the natural process of RNA
15.34	silencing to specifically target and effectively
15.35	control zebra mussels without affecting other
15.36	species or causing other nontarget effects. This

REVISOR

CKM

S2934-1

1st Engrossment

16.1	appropriation is available until June 30, 2021,
16.2	by which time the project must be completed
16.3	and final products delivered.
16.4 16.5	(e) Install and Evaluate an Invasive Carp Deterrent for Mississippi River Locks and Dams
16.6	\$998,000 the second year is from the trust
16.7	fund to the Board of Regents of the University
16.8	of Minnesota in cooperation with the United
16.9	States Army Corps of Engineers and the
16.10	United States Fish and Wildlife Service to
16.11	install, evaluate, and optimize a system in
16.12	Mississippi River locks and dams to deter
16.13	passage of invasive carp without negatively
16.14	impacting native fish and to evaluate the
16.15	ability of predator fish in the pools above the
16.16	locks and dams to consume young carp. The
16.17	project must conduct a cost comparison of
16.18	equipment purchase versus lease options and
16.19	choose the most effective option. This
16.20	appropriation is available until June 30, 2021,
16.21	by which time the project must be completed
16.22	and final products delivered.
16.23 16.24	(f) Determining Risk of Toxic Alga in Minnesota Lakes
16.25	\$200,000 the second year is from the trust
16.26	fund to the Science Museum of Minnesota for
16.27	the St. Croix Watershed Research Station to
16.28	determine the historical distribution,
16.29	abundance, and toxicity of the invasive
16.30	blue-green alga, Cylindrospermopsis
16.31	raciborskii, in about 20 lakes across Minnesota
16.32	and inform managers and the public about the
16.33	alga's spread and health risks. This
16.34	appropriation is available until June 30, 2021,
16.35	by which time the project must be completed
16.36	and final products delivered.

REVISOR

CKM

S2934-1

1st Engrossment

17.1	Subd. 7. Air Quality and Renewable Energy	<u>-0-</u>	1,200,000
17.2 17.3	(a) Develop Solar Window Concentrators for Electricity		
17.4	\$350,000 the second year is from the trust		
17.5	fund to the Board of Regents of the University		
17.6	of Minnesota to develop, evaluate, and		
17.7	optimize thin film silicon-based luminescent		
17.8	solar window concentrators in order to		
17.9	produce inexpensive, clean energy and reduce		
17.10	air pollution. This appropriation is subject to		
17.11	Minnesota Statutes, section 116P.10. This		
17.12	appropriation is available until June 30, 2021,		
17.13	by which time the project must be completed		
17.14	and final products delivered.		
17.15 17.16	(b) Demonstrations for Community-Scale Storage Systems for Renewable Energy		
17.17	\$550,000 the second year is from the trust		
17.18	fund to the Board of Regents of the University		
17.19	of Minnesota to install, demonstrate, and		
17.20	evaluate three community-scale storage		
17.21	systems for renewable energy and develop a		
17.22	guidebook on storing renewable energy for		
17.23	statewide use. This appropriation is available		
17.24	until June 30, 2021, by which time the project		
17.25	must be completed and final products		
17.26	<u>delivered.</u>		
17.27 17.28	(c) Develop Inexpensive Energy from Simple Roll-to-Roll Manufacturing		
17.29	\$300,000 the second year is from the trust		
17.30	fund to the Board of Regents of the University		
17.31	of Minnesota to develop inexpensive,		
17.32	high-efficiency solar energy with simple		
17.33	roll-to-roll advanced manufacturing		
17.34	technology, using new materials such as		
17.35	perovskite to make solar cells. This		
17.36	appropriation is subject to Minnesota Statutes,		

REVISOR

CKM

S2934-1

1st Engrossment

18.1	section 116P.10. This appropriation is		
18.2	available until June 30, 2021, by which time		
18.3	the project must be completed and final		
18.4	products delivered.		
18.5 18.6	Subd. 8. Methods to Protect or Restore Land, Water, and Habitat	<u>-0-</u>	3,119,000
18.7	(a) Nongame Wildlife Program Acceleration		
18.8	\$1,000,000 the second year is from the trust		
18.9	fund to the commissioner of natural resources		
18.10	to accelerate the nongame wildlife program		
18.11	including rare wildlife data collection, habitat		
18.12	management, collaborative land protection,		
18.13	conservation education, and a new emphasis		
18.14	on promoting nature tourism to benefit		
18.15	wildlife, visitors, and rural communities.		
18.16 18.17 18.18	(b) Develop Biomulch to Replace Plastic Soil Covering in Vegetable and Fruit Production to Increase Yield and Reduce Waste		
18.19	\$310,000 the second year is from the trust		
18.20	fund to the Board of Regents of the University		
18.21	of Minnesota to develop and test the		
18.22	performance of biodegradable biomulch to		
18.23	increase yield, conserve water, suppress weeds		
18.24	and pests, add nutrients to the soil, and replace		
18.25	large amounts of nonrecyclable and		
18.26	nondegradable plastic used in vegetable and		
18.27	fruit production. This appropriation is		
18.28	available until June 30, 2021, by which time		
18.29	the project must be completed and final		
18.30	products delivered.		
18.31 18.32 18.33	(c) Develop Market-Based Alternatives for Perennial Crops to Benefit Water Quality and Wildlife		
18.34	\$150,000 the second year is from the trust		
18.35	fund to the Science Museum of Minnesota for		
18.36	the St. Croix Watershed Research Station to		

S2934-1

REVISOR

1st Engrossment

SF2934

**REVISOR** 

CKM

S2934-1

1st Engrossment

CKM

**REVISOR** 

S2934-1

1st Engrossment

21.1	by which time the project must be completed		
21.2	and final products delivered.		
21.3	Subd. 9. Land Acquisition, Habitat, and		
21.4	Recreation	<u>-0-</u>	17,439,000
21.5 21.6	(a) Grants for Local Parks, Trails, and Natural Areas		
21.7	\$2,000,000 the second year is from the trust		
21.8	fund to the commissioner of natural resources		
21.9	to solicit, rank, and fund competitive matching		
21.10	grants for local parks, trail connections, and		
21.11	natural and scenic areas under Minnesota		
21.12	Statutes, section 85.019. The appropriation is		
21.13	for local nature-based recreation and		
21.14	connections to regional and state natural areas		
21.15	and recreation facilities and does not include		
21.16	athletic facilities such as sport fields, courts,		
21.17	and playgrounds. This appropriation is		
21.18	available until June 30, 2021, by which time		
21.19	the project must be completed and final		
21.20	products delivered.		
21.21 21.22	(b) Develop Mesabi Trail Segment From County Road 88 to Ely		
21.23	\$600,000 the second year is from the trust		
21.24	fund to the commissioner of natural resources		
21.25	for an agreement with the St. Louis and Lake		
21.26	Counties Regional Railroad Authority for		
21.27	environmental assessment, permitting,		
21.28	right-of-way easements or other acquisition		
21.29	as needed, engineering, and construction of		
21.30	an approximately three-mile-long bituminous		
21.31	surface section of the Mesabi Trail between		
21.32	Ely and the intersection of Highway 169 and		
21.33	County Road 88. This appropriation is		
21.34	available until June 30, 2022, by which time		
21.35	the project must be completed and final		
21.36	products delivered.		

S2934-1

1st Engrossment

REVISOR

SF2934

22.1 22.2	(c) Harmony State Trail Extension Land Acquisition
22.3	\$235,000 the second year is from the trust
22.4	fund to the commissioner of natural resources
22.5	for an agreement with the city of Harmony to
22.6	acquire fee title of about 16 parcels to allow
22.7	for the approximate six-mile extension of the
22.8	legislatively authorized state trail from
22.9	Harmony south to the Iowa state border with
22.10	a spur to Niagara Cave. The land must be
22.11	transferred to the state after it has been
22.12	purchased.
22.13 22.14	(d) Mississippi Blufflands State Trail - Red Wing Barn Bluff to Colvill Park Segment
22.15	\$550,000 the second year is from the trust
22.16	fund to the commissioner of natural resources
22.17	for an agreement with the city of Red Wing
22.18	to be used with other funds to construct an
22.19	approximate three-quarter-mile-long
22.20	hard-surfaced segment of the Mississippi
22.21	Blufflands State Trail along Red Wing's
22.22	Mississippi River riverfront from Barn Bluff
22.23	Regional Park to Colvill Park. This
22.24	appropriation is available until June 30, 2021,
22.25	by which time the project must be completed
22.26	and final products delivered.
22.27	(e) Swedish Immigrant Regional Trail Segment
22.28	within Interstate State Park
22.29	\$2,254,000 the second year is from the trust
22.30	fund to the commissioner of natural resources
22.31	for an agreement with Chisago County
22.32	Environmental Services to construct an
22.33	approximate one-half-mile regional county
22.34	trail segment within Interstate State Park from
22.35	the end point of the existing trail at the park
22.36	boundary to city hall including a trail bridge

REVISOR

CKM

S2934-1

1st Engrossment

23.1	over the ravine and parking and trailhead
23.2	improvements and to conduct a natural and
23.3	cultural review to determine the feasibility and
23.4	route of a future section of the trail through
23.5	the park. This appropriation is available until
23.6	June 30, 2021, by which time the project must
23.7	be completed and final products delivered.
23.8	(f) Enhancement Plan for Superior Hiking Trail
23.9	\$100,000 the second year is from the trust
23.10	fund to the commissioner of natural resources
23.11	for an agreement with the Superior Hiking
23.12	Trail Association to evaluate improvements
23.12	to the 310-mile-long Superior Hiking Trail
23.14	including routing, safety, water management,
23.14	
	maintenance, and other environmental,
23.16	recreational, and design issues and to develop
23.17	an interactive trail-management system to
23.18	capture efficiencies and best management
23.19	practices.
23.20	(g) Protecting Mississippi River Headwaters
23.21 23.22	Lands through Local, State, and Federal Partnership
23.22	1 arthership
23.23	\$700,000 the second year is from the trust
23.24	C 1, 1 : C , 1
	fund to the commissioner of natural resources
23.25	for an agreement with the city of Baxter, in
<ul><li>23.25</li><li>23.26</li></ul>	
	for an agreement with the city of Baxter, in
23.26	for an agreement with the city of Baxter, in cooperation with Brainerd Public Schools and
23.26 23.27	for an agreement with the city of Baxter, in cooperation with Brainerd Public Schools and the Camp Ripley Sentinel Landscape Program,
23.26 23.27 23.28	for an agreement with the city of Baxter, in cooperation with Brainerd Public Schools and the Camp Ripley Sentinel Landscape Program, to acquire about 200 acres of forested land on
23.26 23.27 23.28 23.29	for an agreement with the city of Baxter, in cooperation with Brainerd Public Schools and the Camp Ripley Sentinel Landscape Program, to acquire about 200 acres of forested land on the upper Mississippi River adjacent to
23.26 23.27 23.28 23.29 23.30	for an agreement with the city of Baxter, in cooperation with Brainerd Public Schools and the Camp Ripley Sentinel Landscape Program, to acquire about 200 acres of forested land on the upper Mississippi River adjacent to Mississippi River Overlook Park for multiple
23.26 23.27 23.28 23.29 23.30 23.31	for an agreement with the city of Baxter, in cooperation with Brainerd Public Schools and the Camp Ripley Sentinel Landscape Program, to acquire about 200 acres of forested land on the upper Mississippi River adjacent to Mississippi River Overlook Park for multiple public benefits, including being an outdoor
23.26 23.27 23.28 23.29 23.30 23.31 23.32	for an agreement with the city of Baxter, in cooperation with Brainerd Public Schools and the Camp Ripley Sentinel Landscape Program, to acquire about 200 acres of forested land on the upper Mississippi River adjacent to  Mississippi River Overlook Park for multiple public benefits, including being an outdoor classroom for local schools. To be eligible for
23.26 23.27 23.28 23.29 23.30 23.31 23.32 23.33	for an agreement with the city of Baxter, in cooperation with Brainerd Public Schools and the Camp Ripley Sentinel Landscape Program, to acquire about 200 acres of forested land on the upper Mississippi River adjacent to Mississippi River Overlook Park for multiple public benefits, including being an outdoor classroom for local schools. To be eligible for reimbursement, costs for real estate
23.26 23.27 23.28 23.29 23.30 23.31 23.32 23.33 23.34	for an agreement with the city of Baxter, in cooperation with Brainerd Public Schools and the Camp Ripley Sentinel Landscape Program, to acquire about 200 acres of forested land on the upper Mississippi River adjacent to  Mississippi River Overlook Park for multiple public benefits, including being an outdoor classroom for local schools. To be eligible for reimbursement, costs for real estate transactions must be specific to this acquisition

CKM

S2934-1

1st Engrossment

REVISOR

SF2934 REVISOR CKM S2934-1 1st Engrossment

24.1	(h) Protecting North-Central Minnesota Lakes
24.2	\$750,000 the second year is from the trust
24.3	fund to the commissioner of natural resources
24.4	for an agreement with the Crow Wing County
24.5	Soil and Water Conservation District to
24.6	increase watershed protection to maintain and
24.7	improve water quality in lakes and rivers in
24.8	Aitkin and Crow Wing Counties with about
24.9	ten permanent RIM conservation easements
24.10	and 12 forest stewardship plans and by
24.11	implementing six best management practices.
24.12	Of this amount, up to \$59,000 may be
24.13	contributed to an easement stewardship
24.14	account established under Minnesota Statutes,
24.15	section 103B.103, as approved in the work
24.16	plan.
24.17	(i) Easement Program for Native Prairie Bank
24.18	\$2,000,000 the second year is from the trust
24.19	fund to the commissioner of natural resources
24.20	to provide technical stewardship assistance to
24.21	private landowners, restore and enhance about
24.22	270 acres of native prairie protected by
24.23	easements in the native prairie bank, and
24.24	acquire easements for the native prairie bank
24.25	in accordance with Minnesota Statutes, section
24.26	84.96, on about 275 acres, including preparing
24.27	initial baseline property assessments. Up to
24.28	\$120,000 of this appropriation may be
24.29	deposited in the natural resources conservation
24.30	easement stewardship account, created in
24.31	Minnesota Statutes, section 84.69, proportional
24.32	to the number of easement acres acquired. A
24.33	list of proposed easement acquisitions and
24.34	restoration sites for the native prairie bank are
24 35	required in the work plan. This appropriation

24.1

CKM

**REVISOR** 

S2934-1

1st Engrossment

26.1	by which time the project must be completed		
26.2	and final products delivered.		
26.3	(l) Scientific and Natural Areas Program		
26.4	\$3,250,000 the second year is from the trust		
26.5	fund to the commissioner of natural resources		
26.6	for the scientific and natural areas program.		
26.7	Of this amount, \$1,500,000 is for habitat		
26.8	restoration activities, \$500,000 is for scientific		
26.9	and natural areas public engagement and		
26.10	outreach, and \$1,250,000 is to acquire strategic		
26.11	high-quality lands that meet criteria for		
26.12	scientific and natural areas under Minnesota		
26.13	Statutes, section 86A.05, from willing sellers.		
26.14	A list of proposed acquisitions and restorations		
26.15	is required in the work plan. This		
26.16	appropriation is available until June 30, 2021,		
26.17	by which time the project must be completed		
26.18	and final products delivered.		
26.19	Subd. 10. Emerging Issues Account	<u>-0-</u>	439,000
26.20	\$439,000 the second year is from the trust		
26.21	fund to an emerging issues account authorized		
26.22	in Minnesota Statutes, section 116P.08,		
26.23	subdivision 4, paragraph (d).		
26.24 26.25	Subd. 11. Wastewater Treatment Recommendations		
26.26	(a) Wastewater Treatment System Grants		
26.27	Until June 30, 2021, the Legislative-Citizen		
26.28	Commission on Minnesota Resources must		
26.29	consider recommending up to \$10,000,000 of		
26.30	the available money from the trust fund to		
26.31	match appropriations from the bond proceeds		
26.32	fund for wastewater infrastructure funding that		
26.33	exceed \$10,000,000 per year for expenditure		
26.34	by the Public Facilities Authority for		
26.35	wastewater treatment grants to home rule		

S2934-1

1st Engrossment

REVISOR

SF2934

27.1	charter and statutory cities and towns with a		
27.2	population under 5,000. The grants must be		
27.3	issued under Minnesota Statutes, sections		
27.4	446A.072 and 446A.073. The		
27.5	recommendations may include a technical		
27.6	assistance program for recipients eligible		
27.7	under this subdivision. The commission must		
27.8	work with the Public Facilities Authority in		
27.9	developing its recommendations.		
27.10	(b) Wastewater Treatment System Loans		
27.11	The commission must consider recommending		
27.12	up to five percent of the corpus of the trust		
27.13	fund for loans to the Public Facilities		
27.14	Authority to issue loans under Minnesota		
27.15	Statutes, section 446A.07, to home rule charter		
27.16	and statutory cities and towns with a		
27.17	population under 5,000.		
27.18 27.19	(c) Work Program and Semiannual Progress Report		
27.20	The work plan required under Minnesota		
27.21	Statutes, section 116P.05, subdivision 2,		
27.22	paragraph (b), must consist of lists showing		
27.23	the fundable ranges for grants and loans		
27.24	pursuant to this subdivision.		
27.25	Subd. 12. Contract Agreement Reimbursement	<u>-0-</u>	135,000
27.26	\$135,000 the second year is from the trust		
27.27	fund to the commissioner of natural resources,		
27.28	at the direction of the Legislative-Citizen		
27.29	Commission on Minnesota Resources, for		
27.30	expenses incurred for preparing and		
27.31	administering contracts for the agreements		
27.32	specified in this section. The commissioner		
27.33	must provide documentation to the		
27.34	Legislative-Citizen Commission on Minnesota		
27.35	Resources on the expenditure of these funds.		

REVISOR

CKM

S2934-1

1st Engrossment

28.1	Subd. 13. Availability of Appropriations
28.2	Money appropriated in this section may not
28.3	be spent on activities unless they are directly
28.4	related to and necessary for a specific
28.5	appropriation and are specified in the work
28.6	plan approved by the Legislative-Citizen
28.7	Commission on Minnesota Resources. Money
28.8	appropriated in this section must not be spent
28.9	on indirect costs or other institutional overhead
28.10	charges that are not directly related to and
28.11	necessary for a specific appropriation. Costs
28.12	that are directly related to and necessary for
28.13	an appropriation, including financial services,
28.14	human resources, information services, rent,
28.15	and utilities, are eligible only if the costs can
28.16	be clearly justified and individually
28.17	documented specific to the appropriation's
28.18	purpose and would not be generated by the
28.19	recipient but for receipt of the appropriation.
28.20	No broad allocations for costs in either dollars
28.21	or percentages are allowed. Unless otherwise
28.22	provided, the amounts in this section are
28.23	available until June 30, 2020, when projects
28.24	must be completed and final products
28.25	delivered. For acquisition of real property, the
28.26	appropriations in this section are available for
28.27	an additional fiscal year if a binding contract
28.28	for acquisition of the real property is entered
28.29	into before the expiration date of the
28.30	appropriation. If a project receives a federal
28.31	grant, the period of the appropriation is
28.32	extended to equal the federal grant period.
28.33	Subd. 14. Data Availability Requirements
28.34	Data collected by the projects funded under
28.35	this section must conform to guidelines and

28.1

1st Engrossment

Sec. 2.

(a) As a condition of accepting an

appropriation under this section, an agency or

entity receiving an appropriation or a party to

an agreement from an appropriation must

Minnesota Statutes, chapter 116P, and must

submit a work plan and annual or semiannual

progress reports in the form determined by the

Legislative-Citizen Commission on Minnesota

Resources for any project funded in whole or

Modifications to the approved work plan and

budget expenditures must be made through

the amendment process established by the

Legislative-Citizen Commission on Minnesota

29

in part with funds from the appropriation.

comply with paragraphs (b) to (l) and

29.20

29.21

29.22

29.23

29.24

29.25

29.26

29.27

29.28

29.29

29.30

29.31

29.32

29.33

29.34

29.35

Resources.

30.1	(b) A recipient of money appropriated in this
30.2	section that conducts a restoration using funds
30.3	appropriated in this section must use native
30.4	plant species according to the Board of Water
30.5	and Soil Resources' native vegetation
30.6	establishment and enhancement guidelines
30.7	and include an appropriate diversity of native
30.8	species selected to provide habitat for
30.9	pollinators throughout the growing season as
30.10	required under Minnesota Statutes, section
30.11	<u>84.973.</u>
30.12	(c) For all restorations conducted with money
30.13	appropriated under this section, a recipient
30.14	must prepare an ecological restoration and
30.15	management plan that, to the degree
30.16	practicable, is consistent with the
30.17	highest-quality conservation and ecological
30.18	goals for the restoration site. Consideration
30.19	should be given to soil, geology, topography,
30.20	and other relevant factors that would provide
30.21	the best chance for long-term success and
30.22	durability of the restoration project. The plan
30.23	must include the proposed timetable for
30.24	implementing the restoration, including site
30.25	preparation, establishment of diverse plant
30.26	species, maintenance, and additional
30.27	enhancement to establish the restoration;
30.28	identify long-term maintenance and
30.29	management needs of the restoration and how
30.30	the maintenance, management, and
30.31	enhancement will be financed; and take
30.32	advantage of the best-available science and
30.33	include innovative techniques to achieve the
30.34	best restoration.

CKM

**REVISOR** 

S2934-1

1st Engrossment

CKM

**REVISOR** 

S2934-1

1st Engrossment

CKM

**REVISOR** 

S2934-1

1st Engrossment

**REVISOR** 

CKM

S2934-1

1st Engrossment

35.1 35.2	Subd. 17. Purchasing Recycled and Recyclable Materials
35.3	A political subdivision, public or private
35.4	corporation, or other entity that receives an
35.5	appropriation under this section must use the
35.6	appropriation in compliance with Minnesota
35.7	Statutes, section 16C.0725, regarding
35.8	purchasing recycled, repairable, and durable
35.9	materials and Minnesota Statutes, section
35.10	16C.073, regarding purchasing and using
35.11	paper stock and printing.
35.12 35.13	Subd. 18. Energy Conservation and Sustainable Building Guidelines
35.14	A recipient to whom an appropriation is made
35.15	under this section for a capital improvement
35.16	project must ensure that the project complies
35.17	with the applicable energy conservation and
35.18	sustainable building guidelines and standards
35.19	contained in law, including Minnesota
35.20	Statutes, sections 16B.325, 216C.19, and
35.21	216C.20, and rules adopted under those
35.22	sections. The recipient may use the energy
35.23	planning, advocacy, and State Energy Office
35.24	units of the Department of Commerce to
35.25	obtain information and technical assistance
35.26	on energy conservation and alternative-energy
35.27	development relating to planning and
35.28	constructing the capital improvement project.
35.29	Subd. 19. Accessibility
35.30	Structural and nonstructural facilities must
35.31	meet the design standards in the Americans
35.32	with Disabilities Act (ADA) accessibility
35.33	guidelines.

S2934-1

1st Engrossment

REVISOR

SF2934

	SF2934 REVISOR CKM
36.1	Subd. 20. Carryforward; Extension
36.2	(a) The availability of the appropriations for
36.3	the following projects are extended to June
36.4	<u>30, 2019:</u>
36.5	(1) Laws 2014, chapter 226, section 2,
36.6	subdivision 6, paragraph (j), Dredged
36.7	Sediment for Forest Restoration on
36.8	Unproductive Minelands;
36.9	(2) Laws 2014, chapter 226, section 2,
36.10	subdivision 7, paragraph (b), Metropolitan
36.11	Regional Park System Acquisition, as
36.12	extended by Laws 2017, chapter 96, section
36.13	2, subdivision 18, paragraph (a), clause (5);
36.14	(3) Laws 2015, chapter 76, section 2,
36.15	subdivision 3, paragraph (b), County Geologic
36.16	Atlases - Part B;
36.17	(4) Laws 2015, chapter 76, section 2,
36.18	subdivision 4, paragraph (a), Understanding
36.19	Water Scarcity, Threats, and Values to
36.20	Improve Management;
36.21	(5) Laws 2015, chapter 76, section 2,
36.22	subdivision 6, paragraph (c), Biological
36.23	Control of Canada Thistle;
36.24	(6) Laws 2015, chapter 76, section 2,
36.25	subdivision 6, paragraph (d), Preventing New
36.26	Disease of Pines in Minnesota;
36.27	(7) Laws 2015, chapter 76, section 2,
36.28	subdivision 9, paragraph (d), Native Prairie
36.29	Stewardship and Prairie Bank Easement
36.30	Acquisition;

36.33 <u>Conservation Corridors Phase VIII - Priority</u>

36

(8) Laws 2015, chapter 76, section 2,

subdivision 9, paragraph (g), Metro

36.31

36.32

- 37.19 subdivision 6, paragraph (d), Adapting Stream
- 37.20 Barriers to Remove Common Carp.
- 37.21 (c) The availability of the appropriation under
- Laws 2017, chapter 96, section 2, subdivision
- 37.23 8, paragraph (1), Conservation Reserve
- Enhancement Program (CREP), is extended
- 37.25 <u>to June 30, 2022.</u>
- 37.26 (d) The availability of the appropriation under
- Laws 2017, chapter 96, section 2, subdivision
- 37.28 3, paragraph (n), Pollinator Research and
- Outreach, is extended to June 30, 2023.
- Sec. 3. Minnesota Statutes 2016, section 116P.08, subdivision 2, is amended to read:
- Subd. 2. **Exceptions.** Money from the trust fund may not be spent for:

Sec. 3. 37

38.1	(1) purposes of environmental compensation and liability under chapter 115B and
38.2	response actions under chapter 115C;
36.2	response actions under chapter 115C,
38.3	(2) purposes of municipal water pollution control in municipalities with a population of
38.4	5,000 or more under the authority of chapters 115 and 116;
38.5	(3) costs associated with the decommissioning of nuclear power plants;
38.6	(4) hazardous waste disposal facilities;
38.7	(5) solid waste disposal facilities; or
38.8	(6) projects or purposes inconsistent with the strategic plan.
38.9	Sec. 4. Minnesota Statutes 2016, section 116P.12, subdivision 1, is amended to read:
38.10	Subdivision 1. Loans authorized. (a) If the principal of the trust fund equals or exceeds
38.11	\$200,000,000, the commission may vote to set aside up to five percent of the principal of
38.12	the trust fund for water system improvement loans. The purpose of water system improvement
38.13	loans is to offer below market rate interest loans to local units of government for the purposes
38.14	of water system improvements.
38.15	(b) The interest on a loan shall be calculated on the declining balance at a rate four
38.16	percentage points below that is the greater of one percent or 50 percent of the secondary
38.17	market yield of one-year United States Treasury bills calculated according to section 549.09,
38.18	subdivision 1, paragraph (c).
38.19	(c) An eligible project must prove that existing federal or state loans or grants have not
38.20	been adequate.
38.21	(d) Payments on the principal and interest of loans under this section must be credited
38.22	to the trust fund.
38.23	(e) Repayment of loans made under this section must be completed within 20 years.
38.24	(f) The Minnesota Public Facilities Authority must report to the commission each year
38.25	on the loan program any loans made to the authority under this section.
38.26	Sec. 5. Laws 2015, chapter 76, section 2, subdivision 9, is amended to read:
38.27	Subd. 9. Land Acquisition for Habitat and
38.28	<b>Recreation</b> 14,190,000 -0-
38.29	(a) State Parks and Trails Land

REVISOR

CKM

S2934-1

1st Engrossment

Sec. 5. 38

Acquisitions

38.30

**REVISOR** 

**CKM** 

S2934-1

1st Engrossment

40.1	\$4,000,000 the first year is from the trust fund
40.2	to the commissioner of natural resources to
40.3	acquire at least 350 acres of lands with
40.4	high-quality native plant communities and rare
40.5	features to be established as scientific and
40.6	natural areas as provided in Minnesota
40.7	Statutes, section 86A.05, subdivision 5, restore
40.8	and improve at least 550 acres of scientific
40.9	and natural areas, and provide technical
40.10	assistance and outreach. A list of proposed
40.11	acquisitions must be provided as part of the
40.12	required work plan. Land acquired with this
40.13	appropriation must be sufficiently improved
40.14	to meet at least minimum management
40.15	standards, as determined by the commissioner
40.16	of natural resources. This appropriation is
40.17	available until June 30, 2018, by which time
40.10	the project must be completed and final
40.18	the project must be completed and imal
40.18	products delivered.
40.19	products delivered.
40.19 40.20	products delivered.  (d) Native Prairie Stewardship and Prairie
40.19 40.20 40.21	products delivered.  (d) Native Prairie Stewardship and Prairie  Bank Easement Acquisition
40.19 40.20 40.21 40.22	products delivered.  (d) Native Prairie Stewardship and Prairie  Bank Easement Acquisition  \$3,325,000 the first year is from the trust fund
40.19 40.20 40.21 40.22 40.23	products delivered.  (d) Native Prairie Stewardship and Prairie  Bank Easement Acquisition  \$3,325,000 the first year is from the trust fund to the commissioner of natural resources to
40.19 40.20 40.21 40.22 40.23 40.24	products delivered.  (d) Native Prairie Stewardship and Prairie  Bank Easement Acquisition  \$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at
40.19 40.20 40.21 40.22 40.23 40.24 40.25	products delivered.  (d) Native Prairie Stewardship and Prairie Bank Easement Acquisition  \$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property
40.19 40.20 40.21 40.22 40.23 40.24 40.25 40.26	products delivered.  (d) Native Prairie Stewardship and Prairie Bank Easement Acquisition  \$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000
40.19 40.20 40.21 40.22 40.23 40.24 40.25 40.26 40.27	products delivered.  (d) Native Prairie Stewardship and Prairie Bank Easement Acquisition  \$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide
40.19 40.20 40.21 40.22 40.23 40.24 40.25 40.26 40.27 40.28	products delivered.  (d) Native Prairie Stewardship and Prairie Bank Easement Acquisition  \$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this
40.19 40.20 40.21 40.22 40.23 40.24 40.25 40.26 40.27 40.28 40.29	(d) Native Prairie Stewardship and Prairie Bank Easement Acquisition  \$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this amount, up to \$135,000 \$195,000 must be
40.19 40.20 40.21 40.22 40.23 40.24 40.25 40.26 40.27 40.28 40.29 40.30	(d) Native Prairie Stewardship and Prairie Bank Easement Acquisition  \$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this amount, up to \$135,000 \$195,000 must be deposited in a conservation easement
40.19 40.20 40.21 40.22 40.23 40.24 40.25 40.26 40.27 40.28 40.29 40.30 40.31	products delivered.  (d) Native Prairie Stewardship and Prairie Bank Easement Acquisition  \$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this amount, up to \$135,000 \$195,000 must be deposited in a conservation easement stewardship account. Deposits into the
40.19 40.20 40.21 40.22 40.23 40.24 40.25 40.26 40.27 40.28 40.29 40.30 40.31 40.32	(d) Native Prairie Stewardship and Prairie Bank Easement Acquisition  \$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this amount, up to \$135,000 \$195,000 must be deposited in a conservation easement stewardship account. Deposits into the conservation easement stewardship account

**REVISOR** 

**CKM** 

S2934-1

1st Engrossment

	SF2934	REVISOR	CKM
42.1	This approp	oriation is available J	une 30, 2018,
42.2	by which ti	me the project must	be completed
42.3	and final pr	oducts delivered.	
42.4	(f) Metro (	Conservation Corri	dors - Phase
42.5	VIII Strate	egic Lands Protection	on
42.6	\$750,000 th	ne first year is from t	the trust fund
42.7	to the comr	missioner of natural i	resources for
42.8	an agreeme	ent with The Trust fo	r Public Land
42.9	for Phase V	III of the Metro Cor	nservation
42.10	Corridors p	artnership to acquire	in fee at least
42.11	35 acres of	high-quality priority	state and local
42.12	natural area	as in the metropolitar	n area, as
42.13	defined und	ler Minnesota Statut	es, section
42.14	473.121, su	bdivision 2, and por	tions of the
42.15	surrounding	g counties. A list of p	proposed
42.16	acquisitions	s must be provided a	s part of the
42.17	required wo	ork plan. Land acqui	red with this
42.18	appropriation	on must be sufficient	tly improved
42.19	to meet at 1	east minimum mana	gement
42.20	standards, a	s determined by the	commissioner
42.21	of natural re	esources. Expenditur	res are limited
42.22	to the ident	ified project corridor	r areas as
42.23	defined in t	he work plan. This a	ppropriation
42.24	may not be	used to purchase ha	bitable
42.25	residential	structures, unless exp	pressly
42.26	approved in	the work plan. A lis	st of fee title
42.27	acquisitions	s must be provided a	s part of the
42.28	required wo	ork plan. This approp	oriation is
42.29	available u	ntil June 30, 2018, b	y which time
42.30	the project	must be completed a	and final
42.31	products de	elivered.	
42.32	(g) Metro	Conservation Corri	dors - Phase
42.33	VIII Prior	ity Expansion of M	innesota

1st Engrossment

S2934-1

Sec. 5. 42

Valley National Wildlife Refuge

42.34

**REVISOR** 

**CKM** 

S2934-1

1st Engrossment

44.1	minimum management standards. This
44.2	appropriation may not be used to purchase
44.3	habitable residential structures, unless
44.4	expressly approved in the work plan. This
44.5	appropriation is available until June 30, 2018,
44.6	by which time the project must be completed
44.7	and final products delivered.
44.8	(i) Mesabi Trail Development Soudan to
44.9	Ely - Phase II
44.10	\$1,000,000 the first year is from the trust fund
44.11	to the commissioner of natural resources for
44.12	an agreement with the St. Louis and Lake
44.13	Counties Regional Railroad Authority for the
44.14	right-of-way acquisition, design, and
44.15	construction of segments of the Mesabi Trail,
44.16	totaling approximately seven miles between
44.17	Soudan and Ely. This appropriation is
44.18	available until June 30, 2018, by which time
44.19	the project must be completed and final
44.20	products delivered.
44.21	(j) Multi-benefit Watershed Scale
44.22	<b>Conservation on North Central Lakes</b>
44.23	\$950,000 the first year is from the trust fund
44.24	to the Board of Water and Soil Resources to
44.25	secure permanent conservation easements on
44.26	at least 480 acres of high-quality habitat in
44.27	Crow Wing and Cass Counties. Of this
44.28	amount, up to \$65,000 must be deposited in a
44.29	conservation easement stewardship account;
44.30	and \$54,000 is for an agreement with the
44.31	Leech Lake Area Watershed Foundation in
44.32	cooperation with Crow Wing County Soil and
44.33	Water Conservation District and Cass County
44.34	Soil and Water Conservation District. Deposits
44.35	into the conservation easement stewardship

REVISOR

CKM

S2934-1

1st Engrossment

45.1	account must be made upon closing on
45.2	conservation easements or at a time otherwise
45.3	approved in the work plan. A list of proposed
45.4	easement acquisitions must be provided as
45.5	part of the required work plan. This
45.6	appropriation is available until June 30, 2018,
45.7	by which time the project must be completed
45.8	and final products delivered.
45.9	(k) Conservation Easement Assessment and
45.10	Valuation System Development
45.11	\$250,000 the first year is from the trust fund
45.12	to the Board of Regents of the University of
45.13	Minnesota to assess the effectiveness of
45.14	existing conservation easements acquired
45.15	through state expenditures at achieving their
45.16	intended outcomes of public value and
45.17	ecological benefits and to develop a
45.18	standardized, objective conservation easement
45.19	valuation system for guiding future state
45.20	investments in conservation easements to
45.21	ensure the proposed environmental benefits
45.22	are being achieved in a cost-effective manner.
45.23	This appropriation is available until June 30,
45.24	2018, by which time the project must be
45.25	completed and final products delivered.
45.26	Sec. 6. Laws 2017, chapter 96, section 2, subdivision 8, is amended to read:
45.27	Subd. 8. Methods to Protect
45.28	or Restore Land, Water, and
45.29	Habitat 2,729,000 16,554,000 5,000,000
45.30 45.31	(a) Optimizing the Nutrition of Roadside Plants for Pollinators
45.32	\$815,000 the first year is from the trust fund
45.33	to the Board of Regents of the University of
45.34	Minnesota in cooperation with the
45.35	Departments of Agriculture, Natural

CKM

S2934-1

1st Engrossment

REVISOR

SF2934

**REVISOR** 

**CKM** 

S2934-1

1st Engrossment

47.1	(d) State Park Pollinator Habitat Restoration
47.2	\$672,000 the first year is from the trust fund
47.3	to the commissioner of natural resources to
47.4	restore at least 520 acres of monarch butterfly
47.5	and other native pollinator habitats in at least
47.6	seven state parks in the Minnesota Prairie
47.7	Conservation Plan core areas and establish
47.8	pollinator plantings and interpretive exhibits
47.9	in at least ten state parks. This appropriation
47.10	is available until June 30, 2021, by which time
47.11	the project must be completed and final
47.12	products delivered.
47.13 47.14	(e) Enhancing Spawning Habitat Restoration in Minnesota Lakes
47.15	\$294,000 the first year is from the trust fund
47.16	to the Board of Regents of the University of
47.17	Minnesota, St. Anthony Falls Laboratory, in
47.18	cooperation with the Department of Natural
47.19	Resources to enhance efforts to increase
47.20	natural reproduction of fish in Minnesota lakes
47.21	by assessing wave energy impacts on
47.22	near-shore spawning habitat. This
47.23	appropriation is available until June 30, 2020,
47.24	by which time the project must be completed
47.25	and final products delivered.
47.26 47.27	(f) Prescribed-Fire Management for Roadside Prairies
47.28	\$345,000 the first year is from the trust fund
47.29	to the commissioner of transportation to
47.30	enhance the prescribed-fire program to manage
47.31	roadsides to protect and increase biodiversity
47.32	and pollinator habitat. This appropriation is
47.33	available until June 30, 2020, by which time
47.34	the project must be completed and final
47.35	products delivered.

REVISOR

CKM

S2934-1

1st Engrossment

SF2934	REVISOR	CKM	S2934-1	1st Engrossment

48.1 48.2	(g) Minnesota Bee and Beneficial Species Habitat Restoration
48.3	\$732,000 the first year is from the trust fund
48.4	to the commissioner of natural resources for
48.5	an agreement with Pheasants Forever in
48.6	cooperation with the University of Minnesota
48.7	and the Minnesota Honey Producers
48.8	Association to restore approximately 800 acres
48.9	of permanently protected land to enhance bee,
48.10	butterfly, beneficial insect, and grassland bird
48.11	habitats. This appropriation is available until
48.12	June 30, 2021, by which time the project must
48.13	be completed and final products delivered.
48.14	(h) Mississippi and Vermillion Rivers
48.15 48.16	Restoration of Prairie, Savanna, and Forest Habitat - Phase X
48.17	\$213,000 the first year is from the trust fund
48.18	to the commissioner of natural resources for
48.19	an agreement with Friends of the Mississippi
48.20	River for continued implementation of the
48.21	Metro Conservation Corridors partnership by
48.22	improving at least 80 acres of habitat at
48.23	approximately seven sites along the
	Mississippi River and Vermillion River
48.24	**
48.25	corridors. Expenditures are limited to the
48.26	identified project corridor areas as defined in
48.27	the work plan. A list of proposed restoration
48.28	sites must be provided as part of the required
48.29	work plan. Plant and seed materials must follow the Board of Water and Soil Resources'
48.30	
48.31	native vegetation establishment and
48.32	enhancement guidelines. This appropriation
48.33	is available until June 30, 2020, by which time
48.34	the project must be completed and final
48.35	products delivered.
48.36 48.37	(i) Community Stewardship to Restore Urban Natural Resources - Phase X

49.1	\$524,000 the first year is from the trust fund
49.2	to the commissioner of natural resources for
49.3	an agreement with Great River Greening to
49.4	work with volunteers for continued
49.5	implementation of the Metro Conservation
49.6	Corridors partnership to restore approximately
49.7	250 acres of forest, prairie, woodland, wetland,
49.8	and shoreline throughout the greater Twin
49.9	Cities metropolitan area. Expenditures are
49.10	limited to the identified project corridor areas
49.11	as defined in the work plan. A list of proposed
49.12	restoration sites and evaluations must be
49.13	provided as part of the required work plan.
49.14	Plant and seed materials must follow the Board
49.15	of Water and Soil Resources' native vegetation
49.16	establishment and enhancement guidelines.
49.17	This appropriation is available until June 30,
49.18	2020, by which time the project must be
49.19	completed and final products delivered.
49.20 49.21	(j) Economic Assessment of Precision Conservation and Agriculture
49.22	\$400,000 the first year is from the trust fund
49.23	to the commissioner of natural resources for
49.24	an agreement with Pheasants Forever to
49.25	demonstrate a new approach to promote
49.26	conservation practices utilizing
49.27	return-on-investment analysis and identifying
49.28	revenue-negative acres on agricultural land to
49.29	assist farmers in implementing conservation
49.30	practices that will provide environmental and
49.31	economic benefits. This appropriation is
49.32	available until June 30, 2020, by which time
49.33	the project must be completed and final
49.34	products delivered.
49.35 49.36	(k) Conservation Reserve Enhancement Program (CREP) Outreach and Implementation

50.1	\$6,000,000 the first year is from the trust fund
50.2	to the Board of Water and Soil Resources to
50.3	fund staff at soil and water conservation
50.4	districts to assist landowners participating in
50.5	the federal Conservation Reserve
50.6	Enhancement Program. This appropriation is
50.7	contingent upon receipt of federal funds for
50.8	implementation. This appropriation is
50.9	available until June 30, 2020, by which time
50.10	the project must be completed and final
50.11	products delivered.
50.12 50.13	(l) Conservation Reserve Enhancement Program (CREP)
50.14	\$2,729,000 in fiscal year 2017 and \$5,771,000
50.15	the first year and \$5,000,000 the second year
50.16	are from the trust fund to the Board of Water
50.17	and Soil Resources to acquire permanent
50.18	conservation easements and restore land under
50.19	Minnesota Statutes, section 103F.515. Of this
50.20	amount, up to \$2,184,000 is for establishing
50.21	a monitoring and enforcement fund as
50.22	approved in the work plan and subject to
50.23	Minnesota Statutes, section 103B.103. This
50.24	work may be done in cooperation with the
50.25	federal Conservation Reserve Enhancement
50.26	Program. This appropriation is available until
50.27	T 00 0001 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1
	June 30, 2021, by which time the project must

REVISOR

CKM

S2934-1

1st Engrossment

SF2934