

M.L. 2016 Projects

MN Laws 2016, Chapter 186, Section 2 (beginning July 1, 2016)

For the FY 2016 and FY 2017 biennium (July 1, 2015 - June 30, 2017), approximately \$46.3 million is available each year (total = \$92,674,000) for funding from the Environment and Natural Resources Trust Fund (ENRTF). In response to the 2016 Request for Proposal (RFP) 186 proposals requesting a total of approximately \$131 million were received. Through a competitive, multi-step process, 97 of these proposals, requesting a total of \$70.4 million, were chosen to present to the LCCMR and 89 of those proposals were selected to receive a recommendation for funding to the 2016 MN Legislature to collectively receive \$46.3 million in funding from the ENRTF. The Legislature adopted 79 of the recommendations, including 73 without any changes and 6 at a decreased or increased dollar amount; dropped 10 of the recommendations; and added 7 new appropriations for a total of 86 appropriations. On 05/31/16, 79 of the appropriations, totaling \$37,909,000, were signed into law by the Governor and 7 appropriations, totaling \$8,428,000, were line-item vetoed.

LINKS TO:

- [PDF list](#) of the M.L. 2016 projects adopted by the Legislature and signed by the Governor.
- [Summary](#) of appropriations and expected outcomes
- Additional information on LCCMR's [M.L. 2016 proposal and funding process](#)

NOTE: For all projects, [contact](#) us to obtain the most up-to-date work programs for current projects (project updates are required twice each year) or the final reports of completed projects.

When available, we have provided links to web sites related to the project. The sites linked to this page are not created, maintained, or endorsed by the LCCMR office or the Minnesota Legislature.

Subd. 03 Foundational Natural Resource Data and Information

[03a](#) Data-Driven Pollinator Conservation Strategies - **RESEARCH**

[03b](#) Native Bee Surveys in Minnesota Prairie and Forest Habitats

[03c1](#) Prairie Butterfly Conservation, Research, and Breeding - Phase II - **RESEARCH**

[03c2](#) Prairie Butterfly Conservation, Research, and Breeding - Phase II - **RESEARCH**

[03d](#) Statewide Monitoring Network for Changing Habitats in Minnesota

[03e](#) Completing National Wetland Inventory Update for Minnesota

[03f](#) Assessment Tool for Understanding Vegetation Growth Impacts on Groundwater Recharge

[03g](#) Sentinel Lakes Monitoring and Data Synthesis - Phase III - **RESEARCH**

[03h](#) State Spring Inventory for Resource Management and Protection - Phase II

[03i](#) Enhancing Understanding of Minnesota River Aquatic Ecosystem

- 03j Improving Brook Trout Stream Habitat through Beaver Management
- 03k Evaluate Temperature, Streamflow, and Hydrogeology Impact on Brook Trout Habitat
- 03l Restoration of Elk to Northeastern Minnesota
- 03m Game and Nongame Bird Pesticide Exposure - **RESEARCH**
- 03n Evaluating Insecticide Exposure Risk for Grassland Wildlife on Public Lands - **RESEARCH**
- 03o Development of Innovative Cost-Saving Methodology for Forest Inventory
- 03p Evaluation of Tree Retention Guidelines Pertaining to Wildlife
- 03q Determine Impacts on Wildlife From Emerald Ash Borer Infection of Black Ash Forests - **RESEARCH**
- ~~03r Aggregate Mapping - GOVERNOR VETO~~
- ~~03s Pineland Sands Lands and Water Study - GOVERNOR VETO~~
- ~~03t Natural Resources Research Institute - GOVERNOR VETO~~

Subd. 04 Water Resources

- 04a Tracking and Preventing Harmful Algal Blooms - **RESEARCH**
- 04b Assessing the Increasing Harmful Algal Blooms in Minnesota Lakes - **RESEARCH**
- 04c Restoring Native Mussels in Streams and Lakes
- 04d Assessing Techniques for Eliminating Contaminants to Protect Native Fish and Mussels - **RESEARCH**
- 04e Assessing Neonicotinoid Insecticide Effects on Aquatic and Soil Communities - **RESEARCH**
- 04f Bacterial Assessment of Groundwater Supplies Used for Drinking Water - **RESEARCH**
- 04g Understanding Bedrock Fracture Flow to Improve Groundwater Quality
- 04h Protection of State's Confined Drinking Water Aquifers - Phasell - **RESEARCH**
- 04i Assessment of Surface Water Quality With Satellite Sensors - **RESEARCH**
- 04j Development of Innovative Sensor Technologies for Water Monitoring - **RESEARCH**
- 04k Wastewater Treatment Process Improvements - **RESEARCH**
- 04l Membrane-Based Process for Decentralized Drinking Water Production - **RESEARCH**
- 04m Analyzing Alternative for Municipal Wastewater Treatment
- 04n Understanding Impacts of Salt Usage on Minnesota Lakes, Rivers, and Groundwater - **RESEARCH**
- 04o Microbes for Salt and Metal Removal - **RESEARCH**
- 04p Engineered Biofilter for Sulfate and Metal Removal from Mine Waters - **RESEARCH**
- 04q Developing Biosponge Technology for Removal of Nitrates from Minnesota Waters - **RESEARCH**
- 04r Morrison County Performance Drainage and Hydrology Management
- 04s Agricultural and Urban Runoff Water Quality Treatment Analysis - Phase II
- 04t Surface Water Bacterial Treatment System Pilot Project

- 04u Assessing Effectiveness of Wetland Restorations for Improved Water Quality
- 04v Integrating Targeted Watershed Planning Tools with Citizen Involvement - **RESEARCH**
- 04w Roseau Lake Watershed Targeted Water Quality Improvement

Subd. 05 Environmental Education

- 05a Minnesota Conservation Apprentice Academy
- 05b School Forests Outdoor Classrooms
- 05c Youth-Led Sustainability Projects in 50 Minnesota Communities - Phase III
- 05d New Prairie Sportsman Statewide Broadcast Video Project
- 05e Wildlife and Habitat Conservation Education for Southwest Minnesota High Schools
- 05f Standards-Based Dakota Indian Land Stewardship Education
- 05g Wolf Management Education in the Classroom - Phase II
- 05h Master Water Steward Program Expansion
- 05i Promoting Water Quality Stewardship through Student Mentoring and River Monitoring
- 05j ~~Wildlife Science Center~~ - GOVERNOR VETO

Subd. 06 Aquatic and Terrestrial Invasive Species

- 06a Minnesota Invasive Terrestrial Plants and Pests Center - Phase III - **RESEARCH**
- 06b Developing Membrane Filtration System to Treat Lake Superior Ballast Water - **RESEARCH**
- 06c Advancing Microbial Invasive Species Monitoring from Ballast Discharge - **RESEARCH**
- 06d Biological Control of White Nose Syndrome in Bats - Phase II - **RESEARCH**
- 06e1 Elimination of Target Invasive Plant Species - Phase II
- 06e2 Elimination of Target Invasive Plant Species - Phase II
- 06f Dutch Elm Disease Resistance - Phase II - **RESEARCH**
- 06g Invasive Carp Management Research in Lake Nokomis Subwatershed

Subd. 07 Air Quality, Climate Change, and Renewable Energy

- 07a Community Solar Garden Installation
- 07b Waste Heat Recovery with Efficient Thermoelectric Energy Generators - **RESEARCH**
- 07c Hydrogen Fuel from Wind-Produced Renewable Ammonia - **RESEARCH**
- 07d Utilization of Dairy Farm Wastewater for Sustainable Production
- 07e Solar Energy Utilization for Minnesota Swine Farms - Phase II

Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat

- 08a Bee Pollinator Habitat Enhancement - Phase II

- 08b Measuring Pollen and Seed Dispersal for Prairie Fragment Connectivity - **RESEARCH**
- 08c Establishment of Permanent Habitat Strips Within Row Crops
- 08d Evaluate Prescribed Burning Techniques to Improve Habitat Management for Brushland Species - **RESEARCH**
- 08e Controlling Reed Canary Grass to Regenerate Floodplain Forest - **RESEARCH**
- 08f Forest Management for Mississippi River Drinking Water Protection
- 08g Upland, Wetland, and Shoreline Restoration in Greater Metropolitan Area
- 08h Bluffland Restoration and Monitoring in Winona
- 08i Champlin Mill Pond Shoreland Restoration
- 08j ~~Pollinator Highway Demonstration Projects~~ - GOVERNOR VETO

Subd. 09 Land Acquisition, Habitat and Recreation

- 09a Scientific and Natural Area Acquisition and Restoration
- 09b Minnesota Point Pine Forest Scientific and Natural Area Acquisition
- 09c Conservation Easements in the Avon Hills - Phase III
- 09d Lincoln Pipestone Rural Water System Acquisition for Wellhead Protection
- 09e Mesabi Trail Segment from Highway 135 to Town of Embarrass
- 09f Tower Historic Harbor Trail Connections
- 09g Otter Tail River Recreational Trail Acquisition
- 09h ~~State Park and Trail Enhancement~~ - GOVERNOR VETO
- 09i ~~Douglas County Regional Park and Trail Planning, Development or Acquisitions~~ - GOVERNOR VETO

Subd. 10 Administration

- 10a Contract Agreement Reimbursement
- 10b Grants Management System

Funding Source:

Environment and Natural Resources Trust Fund (TF)

MN Laws 2016, Chapter 186, Section 2

Subd. 03 Foundational Natural Resource Data and Information

Data-Driven Pollinator Conservation Strategies

Subd. 03a \$520,000 TF

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U of MN

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RESEARCH

Appropriation Language

\$520,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to improve understanding of the relationships and interactions between native bee pollinators and rare and declining plant species and to determine optimal placement and species plantings for pollinator habitat in order to develop guidelines for planning, designing, and planting pollinator habitat. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Native Bee Surveys in Minnesota Prairie and Forest Habitats

Subd. 03b \$600,000 TF

Crystal Boyd

MN DNR

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Appropriation Language

\$600,000 the second year is from the trust fund to the commissioner of natural resources to continue to assess the current status and distribution of native bee pollinators in Minnesota by expanding surveys into the prairie-forest border region and facilitating interagency collaboration and public outreach on pollinators. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Prairie Butterfly Conservation, Research, and Breeding - Phase II

Subd. 03c \$750,000 TF

Subd. 03c1 \$421,000 TF

Erik Runquist

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Apple Valley, MN 55124

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Email: erik.runquist@state.mn.us

Web: <http://www.mnzoo.org>

Subd. 03c2 \$329,000 TF

Robert Dana

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RESEARCH

Appropriation Language

\$750,000 the second year is from the trust fund. Of this amount, \$421,000 is to the Minnesota Zoological Garden and \$329,000 is to the commissioner of natural resources in collaboration with the United States Fish and Wildlife Service to continue efforts to prevent the extinction of imperiled native Minnesota butterfly species through breeding, research, field surveys, and potential reintroduction. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan - Runquist (Subd. 03c1) (PDF)

Work Plan - Dana (Subd. 03c2) (PDF)

Statewide Monitoring Network for Changing Habitats in Minnesota

Subd. 03d \$500,000 TF

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Web: <http://www.dnr.state.mn.us/mbs/index.html>

Appropriation Language

\$500,000 the second year is from the trust fund to the commissioner of natural resources to develop a consolidated statewide network of permanent habitat monitoring sites in prairies, forests, and wetlands to help guide and prioritize habitat protection and management decisions in response to environmental change. The design and testing methodologies of monitoring plots must address the status of pollinators and pollination. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Completing National Wetland Inventory Update for Minnesota

Subd. 03e \$1,500,000 TF

Steve Kloiber

MN DNR

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St. Paul, MN 55155

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Web: http://www.dnr.state.mn/eco/wetlands/nwi_proj.html

Appropriation Language

\$1,500,000 the second year is from the trust fund to the commissioner of natural resources to complete the update and enhancement of wetland inventory maps for counties in central and northwestern Minnesota. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Assessment Tool for Understanding Vegetation Growth Impacts on Groundwater Recharge
Subd. 03f \$212,000 TF

Gene-Hua Ng (Crystal)

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RESEARCH

Appropriation Language

\$212,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a statewide assessment tool to help understand the relationship between vegetation growth and impacts on groundwater recharge under changing land use and climate. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Sentinel Lakes Monitoring and Data Synthesis - Phase III

Subd. 03g \$401,000 TF

Melissa Trembl

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Appropriation Language

\$401,000 the second year is from the trust fund to the commissioner of natural resources for the third and final phase of a monitoring and multidisciplinary research effort on 25 sentinel lakes in Minnesota, which will integrate and synthesize previously collected data to enhance understanding of how lakes respond to large-scale environmental stressors and provide for

improved ability to predict and respond to lake changes for water and fisheries management. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

State Spring Inventory for Resource Management and Protection - Phase II

Subd. 03h \$370,000 TF

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Web: <http://www.dnr.state.mn.us/waters/index.html>

Appropriation Language

\$370,000 the second year is from the trust fund to the commissioner of natural resources to continue a systematic inventory of springs statewide to provide fundamental data needed to maintain spring flows and protect groundwater-dependent resources. Increased outreach to the public and other entities must be conducted to assist in the identification, documentation, and publication of spring locations. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Enhancing Understanding of Minnesota River Aquatic Ecosystem

Subd. 03i \$500,000 TF

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Appropriation Language

\$500,000 the second year is from the trust fund to the commissioner of natural resources to accelerate collection of baseline data to enhance understanding of the Minnesota River ecosystem, measure future impacts of changing climate and landscapes on the aquatic ecosystem, and guide future management efforts. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Improving Brook Trout Stream Habitat through Beaver Management

Subd. 03j \$225,000 TF

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Web: <http://www.bemidjistate.edu/directory/facstaff/ahafs/>

Appropriation Language

\$225,000 the second year is from the trust fund to the Board of Trustees of the Minnesota State Colleges and Universities system for Bemidji State University to quantify how beaver activity influences habitat quality in streams for brook trout in northeastern Minnesota in order to improve current and future management practices. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Evaluate Temperature, Streamflow, and Hydrogeology Impact on Brook Trout Habitat

Subd. 03k \$115,000 TF

Bob Tipping

Minnesota Geological Survey
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St. Paul, MN 55114

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Web: <http://www.mngs.umn.edu/index.html>

Appropriation Language

\$115,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for the Minnesota Geological Survey to evaluate links between southeastern Minnesota stream temperatures, trout habitat, and bedrock hydrogeology to improve trout stream management. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Restoration of Elk to Northeastern Minnesota

Subd. 03I \$300,000 TF

James Forester

U of MN
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St. Paul, MN 55108

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Web: <http://fwcb.cfans.umn.edu/forester/index.html>

RESEARCH

Appropriation Language

\$300,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota in cooperation with the Fond du Lac Band and Rocky Mountain Elk Foundation to determine the habitat suitability and levels of public support for restoring elk to northeastern Minnesota. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Game and Nongame Bird Pesticide Exposure

Subd. 03m \$349,000 TF

Julia Ponder

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RESEARCH

Appropriation Language

\$349,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to evaluate the potential risk to game and nongame birds from exposure to neonicotinoid-treated agricultural seeds. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Evaluating Insecticide Exposure Risk for Grassland Wildlife on Public Lands

Subd. 03n \$250,000 TF

Nicole Davros

MN DNR

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Appropriation Language

\$250,000 the second year is from the trust fund to the commissioner of natural resources to evaluate exposure risks of grassland wildlife to soybean aphid insecticides, to guide grassland management in farmland regions of Minnesota for the protection of birds, beneficial insects, and other grassland wildlife. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Development of Innovative Cost-Saving Methodology for Forest Inventory

Subd. 03o \$800,000 TF

Dennis Kepler
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Grand Rapids, MN 55744

Phone: (218) 322-2512

Email: dennis.kepler@state.mn.us

RESEARCH

Appropriation Language

\$800,000 the second year is from the trust fund to the commissioner of natural resources to develop and pilot a new and more cost-effective methodology for an enhanced stand-based forest inventory, with the goal of extending the methodology statewide. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Evaluation of Tree Retention Guidelines Pertaining to Wildlife

Subd. 03p \$232,000 TF

Gerald Niemi

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Web: <http://www.nrri.umn.edu>

RESEARCH

Appropriation Language

\$232,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for the Natural Resources Research Institute in Duluth to assess the effectiveness of the Minnesota Forest Resources Council tree retention guidelines in sustaining Minnesota's wildlife populations, by quantifying and evaluating the impacts on birds, small mammals, and amphibian diversity. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Determine Impacts on Wildlife From Emerald Ash Borer Infection of Black Ash Forests

Subd. 03q \$334,000 TF

Gerald Niemi

U of MN - NRRRI

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Duluth, MN 55811

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Web: <http://www.nrri.umn.edu>

Appropriation Language

\$334,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for the Natural Resources Research Institute in Duluth to assess impacts of emerald ash borer and adaptive management on wildlife diversity in black ash forests and to develop recommendations to mitigate wildlife impacts. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

GOVERNOR VETO

~~Aggregate Mapping~~

~~Subd. 03r \$1,500,000 TF~~

~~**TBD**~~

~~MN DNR~~

~~500 Lafayette Rd~~

~~St. Paul, MN 55155~~

~~**Phone:** TBD~~

~~**Email:** TBD~~

~~**Web:** <http://www.dnr.state.mn.us/eco/mcbs/index.html>~~

~~**Appropriation Language**~~

~~\$1,500,000 the second year is from the trust fund to the commissioner of natural resources to map the extent and quality of aggregate resources in counties that have not previously been mapped. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.~~

~~Project due to be completed: 6/30/2019~~

~~Work Plan: PENDING~~

GOVERNOR VETO

~~**Pineland Sands Lands and Water Study**~~

~~Subd. 03s — \$1,500,000 TF~~

~~TBD~~

~~MN DNR~~

~~500 Lafayette Rd~~

~~St. Paul, MN 55155~~

~~Phone: TBD~~

~~Email: TBD~~

~~Web: <http://www.dnr.state.mn.us/eco/mcbs/index.html>~~

Appropriation Language

~~\$1,500,000 the second year is from the trust fund to the commissioner of natural resources to study the impact of changes in land use from forest land to irrigated agriculture in the Pineland Sands aquifer along the Crow Wing River. The commissioner must notify the public about the study and hold an open house in the study area to inform the community on potential impacts to surface water and groundwater in the area. This appropriation is available until June 30, 2021, and is not subject to Minnesota Statutes, sections 116P.05, subdivision 2, paragraph (b), and 116P.09, subdivision 4. The commissioner must submit or present a status update on the study to the chairs and ranking minority members of the house of representatives and senate committees and divisions with jurisdiction over the environment and natural resources by January 15, 2017.~~

~~Project due to be completed: 6/30/2021~~

~~Work Plan: Not required per exemption granted in MN Laws 2016, Chp. 186, Sec. 2, Subd. 3(s).~~

GOVERNOR VETO

~~**Natural Resources Research Institute**~~

~~Subd. 03t — \$1,100,000 TF~~

~~TBD~~

~~U of MN — NRR~~

~~5013 Miller Trunk Hwy~~

~~Duluth, MN 55811~~

~~Phone: TBD~~

Email: TBD

Web: <http://www.nrri.umn.edu>

Appropriation Language

~~\$1,100,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for academic and applied research through MnDRIVE at the Natural Resources Research Institute for projects that include, but are not limited to, the creation of a portfolio of waterborne sulfate reduction technologies and the development of technologies for current and emerging environmental and natural resources opportunities. This appropriation is available until June 30, 2018, and is not subject to Minnesota Statutes, section 116P.05, subdivision 2.~~

~~**Project due to be completed:** 6/30/2018~~

~~**Work Plan:** PENDING~~

Subd. 04 Water Resources

Tracking and Preventing Harmful Algal Blooms

Subd. 04a \$500,000 TF

Daniel Engstrom

Science Museum of Minnesota
St. Croix Watershed Research Station, 16910 152nd St N
Marine on St Croix, MN 55047

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Email: dre@smm.org

Web: <http://www.smm.org/scwrs/>

RESEARCH

Appropriation Language

\$500,000 the second year is from the trust fund to the Science Museum of Minnesota for the St. Croix Watershed Research Station to identify species composition and timing of harmful algal blooms, understand the causes of bloom development in individual lakes, and determine how nutrients and climate interact to increase harmful algae outbreaks. This work must be done in cooperation with the University of Minnesota and the Minnesota Pollution Control Agency. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Assessing the Increasing Harmful Algal Blooms in Minnesota Lakes

Subd. 04b \$270,000 TF

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RESEARCH**Appropriation Language**

\$270,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for the Saint Anthony Falls Laboratory to investigate lake processes and meteorological conditions triggering algal blooms and toxin production, develop models for tracking blooms, and provide outreach on the prediction, detection, and impacts of mitigation of algal bloom events. This work must be done in cooperation with the St. Croix Watershed Research Station of the Science Museum of Minnesota and the Minnesota Pollution Control Agency. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Restoring Native Mussels in Streams and Lakes

Subd. 04c \$600,000 TF

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Appropriation Language

\$600,000 the second year is from the trust fund to the commissioner of natural resources in cooperation with the Minnesota Zoological Garden for a statewide mussel program to rear, restore, and re-establish native mussel species in streams and rivers. This appropriation is

available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Assessing Techniques for Eliminating Contaminants to Protect Native Fish and Mussels

Subd. 04d \$287,000 TF

Kristine Wammer

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RESEARCH

Appropriation Language

\$287,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the University of St. Thomas to evaluate the use of ultraviolet treatment of wastewater to remove certain commonly detected wastewater contaminants, in order to reduce the contaminants' toxicity to native fish and mussels. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Assessing Neonicotinoid Insecticide Effects on Aquatic and Soil Communities

Subd. 04e \$400,000 TF

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RESEARCH

Appropriation Language

\$400,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to identify neonicotinoid insecticide breakdown components produced in water and plant leaves and assess their toxicity to soil and aquatic species and related biotic communities. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Bacterial Assessment of Groundwater Supplies Used for Drinking Water

Subd. 04f \$299,000 TF

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Email: hozal001@umn.edu

RESEARCH**Appropriation Language**

\$299,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to characterize and analyze bacterial communities in Minnesota groundwater used as drinking water supplies and link the microbiological data to other water quality indicators for drinking water supply safety. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Understanding Bedrock Fracture Flow to Improve Groundwater Quality

Subd. 04g \$183,000 TF

Anthony Runkel

U of MN - MN Geological Survey

2609 Territorial Rd

St. Paul, MN 55114

Phone: (612) 626-1822

Email: runke001@umn.edu

Web: <http://www.mngs.umn.edu/>

Appropriation Language

\$183,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for the Minnesota Geological Survey to use new techniques of borehole testing and rock fracture mapping in the Twin Cities metropolitan area to achieve a better understanding of groundwater flow through fractured bedrock, in order to improve groundwater management. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Protection of State's Confined Drinking Water Aquifers - Phasell

Subd. 04h \$433,000 TF

Jared Trost

US Geological Survey
2280 Woodale Dr
Mounds View, MN 55112

Phone: (763) 783-3205

Email: jtrost@usgs.gov

Web: <http://mn.water.usgs.gov/index.html>

RESEARCH**Appropriation Language**

\$433,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the United States Geological Survey to continue to test methods of defining properties of confined drinking water aquifers, in order to improve water management. This appropriation is not subject to Minnesota Statutes, section 116P.10. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Assessment of Surface Water Quality With Satellite Sensors

Subd. 04i \$345,000 TF

Jacques Finlay

U of MN
1987 Upper Buford Cir, 100 Ecology Bldg
St. Paul, MN 55108

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Email: jfinlay@umn.edu

Web: <http://www.cbs.umn.edu/lab/finlay>

RESEARCH

Appropriation Language

\$345,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for a statewide assessment of water quality using new satellite sensors for high frequency measurement of major water quality indicators in lakes and rivers. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Development of Innovative Sensor Technologies for Water Monitoring

Subd. 04j \$509,000 TF

Tianhong Cui

U of MN

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Minneapolis, MN 55455

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RESEARCH

Appropriation Language

\$509,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop inexpensive and efficient sensitive sensors and wireless sensor networks for continuous monitoring of contaminants in lakes and rivers in Minnesota. This appropriation is subject to Minnesota Statutes, section 116P.10. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Wastewater Treatment Process Improvements

Subd. 04k \$398,000 TF

Timothy LaPara

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Minneapolis, MN 55455

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Email: lapar001@umn.edu

Web: <http://www.ce.umn.edu/people/faculty/lapara/index>

RESEARCH

Appropriation Language

\$398,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to characterize and quantify the nutrient-removing microorganisms used for municipal wastewater treatment, in order to improve the process used to reduce total nitrogen discharge. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Membrane-Based Process for Decentralized Drinking Water Production

Subd. 04I \$191,000 TF

Santiago Romero-Vargas Castrillón

U of MN
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Minneapolis, MN 55455

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Web: <http://www.cege.umn.edu/directory/faculty-directory/romerovargas.html>

Appropriation Language

\$191,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a low-energy use, membrane-based treatment technology to produce drinking water locally from surface waters by removing heavy metals and contaminants of emerging concern, including pesticides and pharmaceuticals. This appropriation is subject to Minnesota Statutes, section 116P.10. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Analyzing Alternative for Muncipal Wastewater Treatment

Subd. 04m \$180,000 TF

Scott Kyser

Minnesota Pollution Control Agency
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St. Paul, MN 55155

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Email: scott.kyser@state.mn.us

RESEARCH

Appropriation Language

\$180,000 the second year is from the trust fund to the commissioner of the Minnesota Pollution Control Agency to analyze alternatives for improved treatment of sulfate and salty parameters at municipal wastewater plants to inform the development and implementation of wild rice, sulfate, and other water quality standards. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Understanding Impacts of Salt Usage on Minnesota Lakes, Rivers, and Groundwater

Subd. 04n \$497,000 TF

John Gulliver

U of MN
2 Third Ave SE
Minneapolis, MN 55414

Phone: (612) 625-4080

Email: gulli003@umn.edu

RESEARCH

Appropriation Language

\$497,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to quantify the current water-softening salt loads in Minnesota lakes, rivers, and groundwater, assess alternative water-softening materials and methods, and quantify the transport of de-icing and water-softening salt through the soil. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Microbes for Salt and Metal Removal

Subd. 04o \$596,000 TF

Daniel Bond

U of MN
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St. Paul, MN 55108

Phone: (612) 624-8619

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RESEARCH

Appropriation Language

\$596,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to continue to research the potential of recently discovered microbes from Soudan Iron Mine in northern Minnesota for removing salts and metals from groundwater and surface water resources. This appropriation is subject to Minnesota Statutes, section 116P.10. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Engineered Biofilter for Sulfate and Metal Removal from Mine Waters

Subd. 04p \$440,000 TF

Sebastian Behrens

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Web: <http://www.cege.umn.edu/directory/faculty-directory/behrens.html>

RESEARCH

Appropriation Language

\$440,000 the second year is from the trust fund to the Board of Regents of the University of

Minnesota to develop an efficient, low-cost, biomass-derived adsorbent material for use in bioactive filters able to remove sulfate and metals from mining-impacted waters. This appropriation is subject to Minnesota Statutes, section 116P.10. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.
Project due to be completed: 6/30/2019

Work Plan (PDF)

Developing Biosponge Technology for Removal of Nitrates from Minnesota Waters

Subd. 04q \$198,000 TF

Lawrence Wackett

U of MN
1479 Gortner Ave
St. Paul, MN 55108

Phone: (612) 625-3785

Email: wacke003@umn.edu

Appropriation Language

\$198,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to adapt and test an inexpensive biosponge technology for its effectiveness at removing nitrates from drinking water. This appropriation is subject to Minnesota Statutes, section 116P.10. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Morrison County Performance Drainage and Hydrology Management

Subd. 04r \$209,000 TF

Helen McLennan

Morrison SWCD
16776 Heron Rd
Little Falls, MN 56345

Phone: (320) 616-2479

Email: helen.mclennan@mn.nacdnet.net

Appropriation Language

\$209,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Morrison Soil and Water Conservation District to conduct an assessment of drainage infrastructure, in order to develop hydrology restoration priorities and a

countywide performance drainage ordinance to address land use-change impacts to the hydrogeology. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Agricultural and Urban Runoff Water Quality Treatment Analysis - Phase II

Subd. 04s \$110,000 TF

Craig Austinson

Blue Earth County Drainage Authority
204 Fifth St S
Mankato, MN 56001

Phone: (507) 304-4253

Email: Craig.Austinson@blueearthcountymn.gov

Web: <http://www.co.blue-earth.mn.us>

Appropriation Language

\$110,000 the second year is from the trust fund to the Board of Water and Soil Resources for an agreement with the Blue Earth County Drainage Authority to continue monitoring a model demonstration for storage and treatment options in drainage systems designed to improve agricultural and urban water quality by reducing soil erosion, peak water flows, and nutrient loading. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2021

Work Plan (PDF)

Surface Water Bacterial Treatment System Pilot Project

Subd. 04t \$500,000 TF

Brian Corcoran

Vadnais Lake Area Water Management Organization
800 County Rd E
Vadnais Heights, MN 55127

Phone: (651) 204-6075

Email: brian.corcoran@vlawmo.org

Web: <http://www.vlawmo.org>

Appropriation Language

\$500,000 the second year is from the trust fund to the commissioner of natural resources for

an agreement with Vadnais Lake Area Water Management Organization to reduce bacteria and nutrient loads to Vadnais Lake, a drinking water supply reservoir, through implementation and evaluation of a subsurface constructed wetland as a best management practice for potential statewide use. The Vadnais Lake Area Water Management Organization must consider contracting with the University of Minnesota Department of Civil, Environmental, and Geo-Engineering to evaluate the effectiveness of the pilot treatment system so that it maximizes benefits and can be replicated elsewhere. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2021

Work Plan (PDF)

Assessing Effectiveness of Wetland Restorations for Improved Water Quality

Subd. 04u \$420,000 TF

Jacques Finlay

U of MN

1987 Upper Buford Cir, 100 Ecology Bldg

St. Paul, MN 55108

Phone: (612) 624-4672

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Web: <http://www.cbs.umn.edu/lab/finlay>

RESEARCH

Appropriation Language

\$420,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to quantify the environmental benefits of sediment removal and native plant communities in wetland restorations by measuring resulting reductions in nitrogen and phosphorus delivery to groundwater and surface water. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Integrating Targeted Watershed Planning Tools with Citizen Involvement

Subd. 04v \$169,000 TF

Kimberly Musser

Minnesota State University - Mankato

184 Trafton Science Center S

Mankato, MN 56001

Phone: (507) 389-5492

Email: kimberly.musser@mnsu.edu

Web: <http://mrfdc.mnsu.edu/>

Appropriation Language

\$169,000 the second year is from the trust fund to the Board of Trustees of the Minnesota State Colleges and Universities system for the Water Resources Center at Minnesota State University, Mankato, to use geographic information system (GIS) prioritization and modeling tools to develop pollution reduction strategies in five priority subwatersheds in the Le Sueur River watershed and to promote implementation of the reduction strategies through citizen involvement and outreach. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Roseau Lake Watershed Targeted Water Quality Improvement

Subd. 04w \$65,000 TF

Henry Van Offelen

MN DNR

Tower Rd N

Detroit Lakes, MN 56501

Phone: (218) 846-8406

Email: henry.van.offelen@state.mn.us

Appropriation Language

\$65,000 the second year is from the trust fund to the commissioner of natural resources to develop targeted water quality improvements for the Roseau Lake watershed by coordinating with partner agencies to identify the top priority field scale best management and conservation practices to implement in the region.

Project due to be completed: 6/30/2018

Work Plan (PDF)

Subd. 05 Environmental Education

Minnesota Conservation Apprentice Academy

Subd. 05a \$433,000 TF

Jenny Gieseke

Board of Water and Soil Resources

520 Lafayette Rd
St. Paul, MN 55155

Phone: (507) 381-3131

Email: jenny.gieseke@state.mn.us

Web: <http://www.bwsr.state.mn.us>

Appropriation Language

\$433,000 the second year is from the trust fund to the Board of Water and Soil Resources in cooperation with Conservation Corps Minnesota and Iowa for the final phase of a program to train and mentor future conservation professionals by providing apprenticeship service opportunities with local soil and water conservation districts in Minnesota. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

School Forests Outdoor Classrooms

Subd. 05b \$440,000 TF

Amy Kay Kerber

MN DNR

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St. Paul, MN 55155

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Email: amykay.kerber@state.mn.us

Web: <http://www.mndnr.gov/schoolforest>

Appropriation Language

\$440,000 the second year is from the trust fund to the commissioner of natural resources in cooperation with Conservation Corps Minnesota and Iowa to renovate and restore 60 school forests and train students, teachers, school district facility staff, and community volunteers to be long-term stewards of the school forests and provide education and service learning experiences at school forest sites. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Youth-Led Sustainability Projects in 50 Minnesota Communities - Phase III

Subd. 05c \$400,000 TF

Shelli-Kae Foster

Prairie Woods Environmental Learning Center
12718 10th Street NE
Spicer, MN 56288

Phone: (320) 441-9254

Email: Shelli-kae.Foster@co.kandiyohi.mn.us

Web: <http://www.youthenergysummit.org>

Appropriation Language

\$400,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Prairie Woods Environmental Learning Center to expand the Youth Energy Summit (YES!) program statewide to complete more than 200 new youth-led climate change mitigation and adaptation projects in over 50 Minnesota communities.

Project due to be completed: 6/30/2018

Work Plan (PDF)

New Prairie Sportsman Statewide Broadcast Video Project

Subd. 05d \$300,000 TF

Patrick Moore

Pioneer Public Television
120 Schlieman W
Appleton, MN 56208

Phone: (320) 289-2919

Email: pmoore@pioneer.org

Web: <http://www.pioneer.org>

Appropriation Language

\$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 public forums, educational and training videos, and statewide broadcast television programs. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Wildlife and Habitat Conservation Education for Southwest Minnesota High Schools

Subd. 05e \$147,000 TF

Carol Strecker

Minnesota Zoological Garden
13000 Zoo Blvd
Apple Valley, MN 55124

Phone: (952) 431-9568

Email: carol.strecker@state.mn.us

Web: <http://www.mnzoo.org>

Appropriation Language

\$147,000 the second year is from the trust fund to the Minnesota Zoological Garden to engage high school students in critical prairie wildlife and habitat conservation projects by using the zoo's unique animal collections and state-of-the-art technology to deliver hands-on learning in 12 southwestern Minnesota high schools.

Project due to be completed: 6/30/2018

Work Plan (PDF)

Standards-Based Dakota Indian Land Stewardship Education

Subd. 05f \$197,000 TF

Darlene St. Clair

Dakota Wicohan
PO Box 2
Morton, MN 56270

Phone: (507) 697-6272

Email: dstclair@stcloudstate.edu

Web: <http://www.dakotawicohan.com>

Appropriation Language

\$197,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Dakota Wicohan to enhance the capacity of approximately 1,250 students to be stewards of the land in Minnesota by learning about Dakota Indian values and environmental principles through a standards-based experiential multimedia curriculum. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Wolf Management Education in the Classroom - Phase II

Subd. 05g \$240,000 TF

David Kline

International Wolf Center
3410 Winnetka Ave N, Ste 101
Minneapolis, MN 55427

Phone: (763) 560-7374 x225

Email: david@wolf.org

Web: <http://www.wolf.org>

Appropriation Language

\$240,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the International Wolf Center to expand the Wolves at Our Door classroom education program to assist students in understanding wolves and associated management issues.

Project due to be completed: 6/30/2018

Work Plan (PDF)

Master Water Steward Program Expansion

Subd. 05h \$116,000 TF

Peggy Knapp

Freshwater Society
2500 Shadywood Rd
Excelsior, MN 55331

Phone: (952) 471-9773

Email: pknapp@freshwater.org

Web: <http://www.freshwater@freshwater.org>

Appropriation Language

\$116,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Freshwater Society to train community volunteers as master water stewards who will work with neighborhoods to install water management projects that preserve and restore water quality. This appropriation is available until June 30, 2019, by which

time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Promoting Water Quality Stewardship through Student Mentoring and River Monitoring
Subd. 05i \$39,000 TF

Emily Deaver

Minnesota State University - Southwest
1501 State St
Marshall, MN 56258

Phone: (507) 537-6171

Email: emily.deaver@smsu.edu

Appropriation Language

\$39,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Southwest Minnesota State University to partner with area schools to deliver inquiry-based, hands-on learning and mentoring on water quality stewardship between university agriculture students and high school and middle school students.

Project due to be completed: 6/30/2018

Work Plan (PDF)

GOVERNOR VETO

~~Wildlife Science Center~~

~~Subd. 05I \$500,000 TF~~

~~TBD~~

~~Wildlife Science Center
5463 West Broadway Ave
Columbus, MN 55025~~

~~**Phone:** (651) 464-3993~~

~~**Email:** TBD~~

~~**Web:** <http://www.wildlifesciencecenter.org/>~~

~~Appropriation Language~~

~~\$500,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Wildlife Science Center to provide environmental education programs using ambassador wild animals.~~

~~Project due to be completed: 6/30/2018~~

~~Work Plan: PENDING~~

Subd. 06 Aquatic and Terrestrial Invasive Species

Minnesota Invasive Terrestrial Plants and Pests Center - Phase III

Subd. 06a \$3,750,000 TF

Robert Venette

U of MN

1992 Folwell Ave

St Paul, MN 55108

Phone: (612) 301-1405

Email: venet001@umn.edu

Web: <http://www.mitppc.umn.edu>

RESEARCH

Appropriation Language

\$3,750,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for the Invasive Terrestrial Plants and Pests Center to conduct research to prevent, minimize, and mitigate the threats and impacts posed by terrestrial invasive plants, pathogens, and pests to the state's prairies, forests, wetlands, and agricultural resources. This appropriation is available until June 30, 2023, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2023

Work Plan (PDF)

Developing Membrane Filtration System to Treat Lake Superior Ballast Water

Subd. 06b \$151,000 TF

Santiago Romero-Vargas Castrillón

U of MN

Department of Civil, Environmental, and Geo- Engineering

Minneapolis, MN 55455

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Email: sromerov@umn.edu

Web: <http://www.cege.umn.edu/directory/faculty-directory/romerovargas.html>

RESEARCH

Appropriation Language

\$151,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a filtration system utilizing bioactive membrane technologies for use in treating Lake Superior ballast water to remove at least 90 percent of suspended pathogens, invasive species, and contaminants. This appropriation is subject to Minnesota Statutes, section 116P.10. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Advancing Microbial Invasive Species Monitoring from Ballast Discharge

Subd. 06c \$368,000 TF

Randall Hicks

U of MN - Duluth
1035 Kirby Dr, SSB 207
Duluth, MN 55812

Phone: (218) 726-8438

Email: rhicks@d.umn.edu

RESEARCH

Appropriation Language

\$368,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to identify bacteria in ship ballast water and St. Louis River estuary sediments, assess the risks posed by invasive bacteria, and evaluate treatment techniques for effectiveness at removing the bacteria from ballast water. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Biological Control of White Nose Syndrome in Bats - Phase II

Subd. 06d \$452,000 TF

Christine Salomon

U of MN
312 Church St SE, 4-130 Nils Hasselmo Hall
Minneapolis, MN 55455

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Web: <http://www.cbs.umn.edu/contacts/christine-salomon>

RESEARCH

Appropriation Language

\$452,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to continue research to identify, develop, and optimize biocontrol agents for white nose syndrome in bats by evaluating the biocontrol effectiveness of microbes collected at additional hibernacula throughout the state and conducting baseline characterization of the total bat microbiomes. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Elimination of Target Invasive Plant Species - Phase II

Subd. 06e \$750,000 TF

Subd. 06e1 \$511,000 TF

Monika Chandler

Minnesota Department of Agriculture
625 Robert St N
St. Paul, MN 55155

Phone: (651) 201-6537

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Subd. 06e2 \$239,000 TF

Angela Gupta

U of MN
863 30th Avenue SE
Rochester, MN 55904

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Web:

<http://www.mda.state.mn.us/en/plants/pestmanagement/weedcontrol/targetplants.aspx>

Appropriation Language

\$750,000 the second year is from the trust fund. Of this amount, \$511,000 is to the commissioner of agriculture and \$239,000 is to the Board of Regents of the University of Minnesota to train volunteers and professionals to find, control, and monitor targeted newly emergent invasive plant species. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan - Chandler (Subd. 06e1) (PDF)

Work Plan - Gupta (Subd. 06e2) (PDF)

Dutch Elm Disease Resistance - Phase II

Subd. 06f \$200,000 TF

Robert Blanchette

U of MN

1991 Upper Buford Cir, 495 Borlaugh Hall

St. Paul, MN 55126

Phone: (612) 625-0202

Email: robertb@umn.edu

Web: <http://forestpathology.cfans.umn.edu/default.htm>

RESEARCH**Appropriation Language**

\$200,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to continue to identify and evaluate native Minnesota elms that are resistant to Dutch elm disease and begin propagating disease-resistant specimens for field trial testing. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Invasive Carp Management Research in Lake Nokomis Subwatershed

Subd. 06g \$189,000 TF

Adam Arvidson

Minneapolis Parks and Recreation Board

2117 River Rd W

Minneapolis, MN 55411

Phone: (612) 230-6470

Email: aarvidson@minneapolisparks.org

Web: <http://www.minneapolisparks.org>

Appropriation Language

\$189,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Minneapolis Park and Recreation Board to apply current invasive carp management research to the entire Lake Nokomis subwatershed and provide demonstration guidance for large-scale carp management. This appropriation is available until June 30, 2020, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2020

Work Plan (PDF)

Subd. 07 Air Quality, Climate Change, and Renewable Energy

Community Solar Garden Installation

Subd. 07a \$490,000 TF

BJ Allen

Rural Renewable Energy Alliance

3963 8th Street SW

Backus, MN 56435

Phone: (218) 209-5584

Email: bj@rreal.org

Web: <http://www.rreal.org>

Appropriation Language

\$490,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Rural Renewable Energy Alliance to install a 200-kilowatt community solar garden to provide for electrical distribution in Cass, Beltrami, Hubbard, and Itasca Counties, to assist households in the Minnesota low-income housing energy assistance program in meeting electrical energy needs and serve as a model for low-income energy assistance elsewhere in the state. This appropriation is not subject to Minnesota Statutes, section 116P.10.

Project due to be completed: 6/30/2018

Work Plan (PDF)

Waste Heat Recovery with Efficient Thermoelectric Energy Generators

Subd. 07b \$400,000 TF

Uwe Kortshagen

U of MN

111 Church St SE

Minneapolis, MN 55455

Phone: (612) 625-4028

Email: kortshagen@umn.edu

RESEARCH

Appropriation Language

\$400,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop thermoelectric energy generators using advanced, high-performance materials able to more efficiently capture waste heat and transform the heat into electricity. This appropriation is subject to Minnesota Statutes, section 116P.10. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Hydrogen Fuel from Wind-Produced Renewable Ammonia

Subd. 07c \$250,000 TF

William Northrop

U of MN

111 Church St SE

Minneapolis, MN 55455

Phone: (612) 625 6854

Email: wnorthro@umn.edu

RESEARCH

Appropriation Language

\$250,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a technical solution for converting wind-produced ammonia to hydrogen through catalytic decomposition, for use in reducing emissions from diesel engines and powering fuel cell vehicles. This appropriation is subject to Minnesota Statutes, section 116P.10. This appropriation is available until June 30, 2019, by which time the project must be

completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Utilization of Dairy Farm Wastewater for Sustainable Production

Subd. 07d \$475,000 TF

Bradley Heins

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Morris, MN 56267

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Web: <http://wcroc.cfans.umn.edu/research-programs/dairy>

Appropriation Language

\$475,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for the West Central Research and Outreach Center in Morris to develop and evaluate an integrated system that recycles and uses nutrients in dairy wastewater from feedlots and milk processing, thereby reducing nutrients from agricultural runoff, and to provide outreach on adoption of new technologies. This appropriation is subject to Minnesota Statutes, section 116P.10. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Solar Energy Utilization for Minnesota Swine Farms - Phase II

Subd. 07e \$475,000 TF

Lee Johnston

U of MN - West Central Research and Outreach Center
46352 State Hwy 329
Morris, MN 56267

Phone: (320) 589-1711

Email: johnstlj@morris.umn.edu

Web: <http://wcroc.cfans.umn.edu>

Appropriation Language

\$475,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for the West Central Research and Outreach Center in Morris to continue to develop and evaluate the utilization of solar photovoltaic systems at swine facilities to improve energy and economic performance, reduce fossil fuel usage and emissions, and optimize water usage. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat

Bee Pollinator Habitat Enhancement - Phase II

Subd. 08a \$387,000 TF

Marla Spivak

U of MN

1980 Folwell Ave, 219 Hodson Hall

St. Paul, MN 55108

Phone: (612) 624-4798

Email: spiva001@umn.edu

Web: <http://www1.umn.edu>

Appropriation Language

\$387,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to continue assessment of the potential to supplement traditional turf grass by providing critical floral plant resources to enhance bee pollinator habitat. Plant materials and seeds must follow the Board of Water and Soil Resources' native vegetation establishment and enhancement guidelines. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Measuring Pollen and Seed Dispersal for Prairie Fragment Connectivity

Subd. 08b \$556,000 TF

Lauren Sullivan

U of MN

1987 Upper Buford Cir, 100 Ecology Bldg
St. Paul, MN 55108

Phone: (612) 301-1056

Email: lsullivan@umn.edu

RESEARCH

Appropriation Language

\$556,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to determine habitat connectivity between prairie fragments by measuring plant movement by dispersal of pollen and seeds to improve prairie restoration implementation. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Establishment of Permanent Habitat Strips Within Row Crops

Subd. 08c \$179,000 TF

Shawn Schottler

Science Museum of Minnesota

16910 152nd St N

Marine on St. Croix, MN 55047

Phone: (651) 433-5953 x18

Email: schottler@smm.org

Appropriation Language

\$179,000 the second year is from the trust fund to the Science Museum of Minnesota for the St. Croix Watershed Research Station to research the viability of establishing prairie forbs and alfalfa as permanent cover strips in the bare soil between selected rows of corn and soybeans as potential pollinator, monarch, and gamebird habitat. Monitoring of the native plant strips must evaluate the effects of pesticides from adjacent crops on pollinators, including determining whether there is a reduction of pollinators that results in reduced setting of seeds on the native plants. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Evaluate Prescribed Burning Techniques to Improve Habitat Management for Brushland Species

Subd. 08d \$267,000 TF

Rebecca Montgomery

U of MN
1530 Cleveland Ave N
St. Paul, MN 55108

Phone: (612) 624-7249

Email: rebeccam@umn.edu

RESEARCH

Appropriation Language

\$267,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to compare the effects on brushland habitat of conducting prescribed burning in spring, summer, and fall to provide improved management guidelines for wildlife habitat. This appropriation is available until June 30, 2020, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2020

Work Plan (PDF)

Controlling Reed Canary Grass to Regenerate Floodplain Forest

Subd. 08e \$218,000 TF

Tim Schlagenhaft

Minnesota State Office of National Audubon Society
2000 Main W
Red Wing, MN 55066

Phone: (651) 764-4242

Email: tschlagenhaft@audubon.org

RESEARCH

Appropriation Language

\$218,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Minnesota state office of the National Audubon Society to determine the most effective regeneration methods for restoration of floodplain forests in southeast Minnesota impacted by invasive reed canary grass. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Forest Management for Mississippi River Drinking Water Protection

Subd. 08f \$300,000 TF

Melissa Barrick

Crow Wing SWCD
322 Laurel St, Ste 13
Brainerd, MN 56401

Phone: (218) 828-6197

Email: melissa.barrick@crowwingswcd.org

Web: <http://crowwingswcd.org/>

Appropriation Language

\$300,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Crow Wing Soil and Water Conservation District to pilot a water protection approach for the watershed through development of forest stewardship plans and targeted riparian forest restoration projects. Any expenditures from this appropriation spent on forest management plans or restoration must be for lands with a long-term contract commitment for forest conservation, and the restoration must follow the Board of Water and Soil Resources' native vegetation establishment and enhancement guidelines. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Upland, Wetland, and Shoreline Restoration in Greater Metropolitan Area

Subd. 08g \$509,000 TF

Wiley Buck

Great River Greening
35 Water St W, Ste 201
St. Paul, MN 55107

Phone: (651) 665-9500

Email: wbuck@greatrivergreening.org

Web: <http://www.greatrivergreening.org>

Appropriation Language

\$509,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Great River Greening to restore approximately 150 acres of forest, prairie, woodland, and wetland and 0.15 miles of shoreline throughout the greater Twin Cities metropolitan area, using volunteers, and to conduct restoration evaluation on previously restored parcels. A list of proposed restorations and evaluations must be provided as part of the required work plan. Plant and seed materials must follow the Board of Water and Soil Resources' native vegetation establishment and enhancement guidelines. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Bluffland Restoration and Monitoring in Winona

Subd. 08h \$99,000 TF

Neal Mundahl

Winona State University
175 Mark St W
Winona, MN 55987

Phone: (507) 457-5695

Email: nmundahl@winona.edu

Web: <http://www.winona.edu>

Appropriation Language

\$99,000 the second year is from the trust fund to the Board of Trustees of the Minnesota State Colleges and Universities system for Winona State University to inventory, restore, and monitor the 40-acre Garvin Heights Natural Area in Winona and provide related public outreach and education. Plant and seed materials must follow the Board of Water and Soil Resources' native vegetation establishment and enhancement guidelines. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Champlin Mill Pond Shoreland Restoration

Subd. 08i \$2,000,000 TF

Todd Tuominen

City of Champlin

11955 Champlin Dr
Champlin, MN 55316

Phone: (763) 923-7120

Email: ttuominen@ci.champlin.mn.us

Web: <http://www.ci.champlin.mn.us>

Appropriation Language

\$2,000,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the city of Champlin to restore the Champlin Mill Pond shoreline and adjacent habitat. Plant and seed materials must follow the Board of Water and Soil Resources' native vegetation establishment and enhancement guidelines. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

GOVERNOR VETO

Pollinator Highway Demonstration Projects

Subd. 08j—\$2,200,000 TF

TBD

MN-DOT

395 John Ireland Blvd

St. Paul, MN 55155

Phone: TBD

Email: TBD

Web: <http://www.dot.state.mn.us/>

Appropriation Language

~~\$2,200,000 the second year is from the trust fund to the commissioner of transportation to restore and enhance wildlife habitat along trunk highways, including: marked Interstate Highway 35, one north and one south of the metropolitan area; marked Interstate Highway 90; and two locations along marked Interstate Highway 94. Of this amount, up to \$25,000 may be used to monitor and study the effects of different levels of native plant diversity on roadside pollinators and the timing of mowing on pollinator abundance and diversity. The commissioner must submit a report to the chairs and ranking minority members of the house of representatives and senate committees and divisions with jurisdiction over transportation and environment and natural resources by January 15, 2017, and submit or present to the chairs a follow up status report by January 15, 2020. This appropriation is available until June 30, 2022, and must include a five-year restoration process. This appropriation is not subject to Minnesota Statutes, sections 116P.05, subdivision 2, paragraph (b), and 116P.09, subdivision 4.~~

~~Project due to be completed: 6/30/2019~~

~~Work Plan: Not required per exemption granted in MN Laws 2016, Chp. 186, Sec. 2, Subd. 8(j).~~

Subd. 09 Land Acquisition, Habitat and Recreation

Scientific and Natural Area Acquisition and Restoration

Subd. 09a \$1,386,000 TF

Peggy Booth

MN DNR

500 Lafayette Rd, Box 25

St. Paul, MN 55155

Phone: (651) 259-5088

Email: peggy.booth@state.mn.us

Web: <http://www.dnr.state.mn.us/snas/index.html>

Appropriation Language

\$1,386,000 the second year is from the trust fund to the commissioner of natural resources to restore and improve approximately 750 acres of scientific and natural areas. A list of proposed restorations must be provided as part of the required work plan. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

~~Project due to be completed: 6/30/2019~~

[Work Plan](#) (PDF)

Minnesota Point Pine Forest Scientific and Natural Area Acquisition

Subd. 09b \$500,000 TF

Peggy Booth

MN DNR

500 Lafayette Rd, Box 25

St. Paul, MN 55155

Phone: (651) 259-5088

Email: peggy.booth@state.mn.us

Web: <http://www.dnr.state.mn.us/snas/index.html>

Appropriation Language

\$500,000 the second year is from the trust fund to the commissioner of natural resources in

cooperation with the Duluth Airport Authority to acquire approximately ten acres as an addition to the designated Minnesota Point Pine Forest Scientific and Natural Area located along the shores of Lake Superior in Duluth.

Project due to be completed: 6/30/2018

Work Plan (PDF)

Conservation Easements in the Avon Hills - Phase III

Subd. 09c \$1,300,000 TF

Thomas Kroll

Saint Johns Arboretum and University
PO Box 3000
Collegeville, MN 56321

Phone: (320) 363-3163

Email: tkroll@csbsju.edu

Web: <http://www.csbsju.edu/arboretum/avonhills>

Appropriation Language

\$1,300,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Saint John's University in cooperation with Minnesota Land Trust to secure permanent conservation easements on approximately 500 acres of high-quality habitat in Stearns County, prepare conservation management plans, and provide public outreach. A list of proposed easement acquisitions must be provided as part of the required work plan. An entity that acquires a conservation easement with appropriations from the trust fund must have a long-term stewardship plan for the easement and a fund established for monitoring and enforcing the agreement. Funding for the long-term monitoring and enforcement fund must come from nonstate sources for easements acquired with this appropriation. The state may enforce requirements in the conservation easements on land acquired with this appropriation and the conservation easement document must state this authority and explicitly include requirements for water quality and quantity protection. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Lincoln Pipestone Rural Water System Acquisition for Wellhead Protection

Subd. 09d \$1,500,000 TF

Jason Overby

Lincoln Pipestone Rural Water System

415 Benton E
Lake Benton, MN 56149

Phone: (507) 368-4248

Email: lprw@itctel.com

Web: <http://www.lprw.com>

Appropriation Language

\$1,500,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Lincoln Pipestone Rural Water to acquire and restore lands designated under an approved wellhead protection plan. Lands acquired with this appropriation must be from willing sellers and be identified by the Department of Health as targeted vulnerable lands for wellhead protection. Lands must be restored to permanent vegetative cover, but may be used for recreation and renewable energy if adequate protection of the drinking water aquifer is provided. A list of proposed acquisitions must be provided as part of the required work plan. Plant and seed materials must follow the Board of Water and Soil Resources' native vegetation establishment and enhancement guidelines. Income derived from the lands acquired with funds appropriated under this paragraph is exempt from Minnesota Statutes, section 116P.10, if used for additional wellhead protection as provided under this paragraph until adequate wellhead protection has been achieved, as determined by the commissioner of health. Any income earned after that must be returned to the environment and natural resources trust fund. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Mesabi Trail Segment from Highway 135 to Town of Embarrass

Subd. 09e \$1,200,000 TF

Bob Manzoline

St. Louis & Lake Counties Regional Railroad Authority
111 Station Rd
Eveleth, MN 55734

Phone: (218) 744-2653

Email: bmanzoline@rrauth.com

Appropriation Language

\$1,200,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the St. Louis and Lake Counties Regional Railroad Authority for engineering and construction of segments of the Mesabi Trail, totaling approximately six miles between Highway 135 and the town of Embarrass. This appropriation is available until June 30, 2019, by

which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Tower Historic Harbor Trail Connections

Subd. 09f \$679,000 TF

Linda Keith

City of Tower
PO Box 576
Tower, MN 55790

Phone: (218) 753-4070

Email: linda@cityoftower.com

Web: <http://www.cityoftower.com>

Appropriation Language

\$679,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the city of Tower to construct recreational trails along the harbor in Tower and to connect to the Mesabi Trail. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2019

Work Plan (PDF)

Otter Tail River Recreational Trail Acquisition

Subd. 09g \$600,000 TF

Gordon Hydukovich

City of Fergus Falls
112 Washington Ave W
Fergus Falls, MN 56537

Phone: (218) 332-5427

Email: gordon.hydukovich@ci.fergus-falls.mn.us

Web: <http://www.ci.fergus-falls.mn.us>

Appropriation Language

\$600,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the city of Fergus Falls to acquire approximately 16 acres along the Otter Tail River for a recreational trail and park. This appropriation is contingent on at least a

\$400,000 match of nonstate money. Prior to the acquisition, a phase 1 environmental assessment must be completed and the city must not accept any liability for previous contamination of lands acquired with this appropriation.

Project due to be completed: 6/30/2018

Work Plan (PDF)

GOVERNOR VETO

~~State Park and Trail Enhancement~~

~~Subd. 09h — \$1,228,000 TF~~

~~TBD~~

~~MN DNR~~

~~500 Lafayette Rd~~

~~St. Paul, MN 55155~~

~~Phone: TBD~~

~~Email: TBD~~

~~Web: <http://www.dnr.state.mn.us/eco/mcbs/index.html>~~

Appropriation Language

~~\$1,228,000 the second year is from the trust fund to the commissioner of natural resources for enhancement of state parks and trails as follows: \$614,000 is for enhancement of state parks and \$614,000 is for enhancement of state trails. This appropriation is not subject to Minnesota Statutes, sections 116P.05, subdivision 2, paragraph (b), and 116P.09, subdivision 4.~~

~~**Project due to be completed:** 6/30/2018~~

~~**Work Plan:** Not required per exemption granted in MN Laws 2016, Chp. 186, Sec. 2, Subd. 9(h).~~

GOVERNOR VETO

~~Douglas County Regional Park~~

~~Subd. 09i — \$400,000 TF~~

~~TBD~~

~~Douglas County~~

~~305 8th Ave W~~

~~Alexandria, MN 56308~~

~~Phone: TBD~~

~~Email: TBD~~

~~Web: <http://www.co.douglas.mn.us>~~

Appropriation Language

~~\$400,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Douglas County for park and trail planning, development, or acquisition for a regional park. The grant must be matched by other state or nonstate sources. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.~~

~~Project due to be completed: 6/30/2019~~

~~Work Plan: PENDING~~

Subd. 10 Administration

Contract Agreement Reimbursement

Subd. 10a \$135,000 TF

Jason Tidemann

MN DNR

500 Lafayette Rd, Box 10

St. Paul, MN 55155

Phone: (651) 259-5533

Email: jason.tidemann@state.mn.us

Web: <http://www.dnr.state.mn.us>

Appropriation Language

\$135,000 the second year is from the trust fund to the commissioner of natural resources, at the direction of the Legislative-Citizen Commission on Minnesota Resources, for expenses incurred for contract agreement reimbursement for the agreements specified in this section. The commissioner shall provide documentation to the Legislative-Citizen Commission on Minnesota Resources on the expenditure of these funds.

Project due to be completed: 6/30/2018

Work Plan (PDF)

Legislative-Citizen Commission on Minnesota Resources (LCCMR)

Subd. 10b \$75,000 TF

Susan Thornton

Legislative-Citizen Commission on Minnesota Resources

100 Rev Dr Martin Luther King Jr Blvd, Rm 65

St. Paul, MN 55155

Phone: (651) 296-6264

Email: susan.thornton@lccmr.leg.mn

Web: <http://www.lccmr.leg.mn>

Appropriation Language

\$75,000 the second year is from the trust fund to the Legislative-Citizen Commission on Minnesota Resources for upgrading and modernizing a project records management system.

Project due to be completed: 6/30/2018

