

2016 Project Abstract

For the Period Ending June 30, 2019

PROJECT TITLE: Champlin Mill Pond Shoreland Restoration

PROJECT MANAGER: Todd Tuominen

AFFILIATION: City of Champlin

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FUNDING SOURCE: Environment and Natural Resources Trust Fund

LEGAL CITATION: M.L. 2016, Chp. 186, Sec.2, Subd. 08i

APPROPRIATION AMOUNT: \$2,000,000

AMOUNT SPENT: \$2,000,000

AMOUNT REMAINING: \$0

Sound bite of Project Outcomes and Results

The Mill Pond project restored 42 acres of shoreland and aquatic habitat, including native upland, riparian, and aquatic zones, which will help maintain and enhance sensitive species; sustain game-fish populations and helps to supports migratory and resident wildlife populations. The project reduced erosion, total phosphorus and improved water quality.

Overall Project Outcome and Results

The Mill Pond is a reservoir lake within the City of Champlin that was created in 1867 with the construction of the first Mill Pond Dam on the Elm Creek, at the outfall to the Mississippi River. Since that time, the Mill Pond has become an important water feature for fishing and recreational activity in the region. Over the years, the Elm Creek and Mill Pond have become impaired due to poor agricultural practices and upstream erosion. The Mill Pond impairments are for Total Suspended Solids, phosphorous, bacteria and low dissolved oxygen. In 2012, the City completed the first stream restoration project upstream of the Mill Pond and completed the reconstructed Elm Creek Dam and shoreland restoration at the Mississippi River outfall in 2016.

In 2016-2017, the City established partnerships with the LCCMR, MN legislature, and Elm Creek Watershed to restore the Mill Pond and improve water access. A Technical Advisory Panel was formed to guide the design and develop project goals for Habitat Restoration; Water Quality Improvements; Public Education; Public Access and Recreation.

Phase I started in December 2017, and included the removal of phosphorus laden sediments, installation of the redesigned deep-water and shallow water habitat and in-lake structures. The project restored approximately 42 acres of shoreland area and aquatic habitat. The project restored native upland, riparian, and aquatic zones. The project outcomes include a reduction in erosion and improves water quality. The restored habitat will help maintain and enhance sensitive species like the Blanding's Turtle and sustain game-fish populations. The improved riparian and upland habitats help support migratory and resident wildlife populations.

The lake restoration was completed in June 2019 and the City held the first Mill Pond Citizen Science Event at the Mill Pond. The event provided hands-on interactive activities and educational experiences on fishery research, migratory birds and preservation of native plant communities. The project established an area of study for environmental science classes for area schools, which are expected to educate hundreds of students each year. Also, the completion Phase II Mill Pond Trail Access project has improved the water access and recreational experiences for area residents.

Project Results Use and Dissemination

Project status has been posted on Facebook and on the Champlin website. Public Hearing and related articles on regarding the project were published in the Champlin Dayton Press. Additional articles in the Champlin Chronical have been published and distributed to area residents. The City working with local Cable Station Quad City Television (QCTV) had production of “Champlin Matters” focusing on the Citizen Science and the development of the Mill Pond In-lake Habitat and Fishery. Also, Champlin Live and Local production focused on the Mill Pond.



Environment and Natural Resources Trust Fund (ENRTF) M.L. 2016 Work Plan Final Report

Date of Report: August 15, 2019

Final report

Date of Work Plan Approval: June 7, 2016

Project Completion Date: June 30, 2019

PROJECT TITLE: Champlin Mill Pond Shoreland Restoration

Project Manager: Todd Tuominen

Organization: City of Champlin MN

Mailing Address: 11955 Champlin Drive

City/State/Zip Code: Champlin, MN 55316

Telephone Number: (763) 923-7120

Email Address: ttuominen@ci.champlin.mn.us

Web Address: ci.champlin.mn.us

Location: City of Champlin, Minnesota

Total ENRTF Project Budget:

ENRTF Appropriation: \$2,000,000

Amount Spent: \$2,000,000

Balance: \$0

Legal Citation: M.L. 2016, Chp. 186, Sec. 2, Subd. 08i

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.

I. PROJECT TITLE: Champlin Mill Pond Shoreland Restoration

I. PROJECT STATEMENT:

The City of Champlin's Northern Gateway is a high priority project that in cooperation with the Elm Creek Watershed Management Commission will restore water resources in the Northern Gateway to the City. The City of Champlin is the lead agency for the entire cooperative project, phase I started in 2015 includes reconstruction of Historic Elm Creek Dam. Total estimated cost for phase I is \$5,700,000 with local match of \$3,286,000.

The Champlin Mill Pond Shoreland and Aquatic Habitat Restoration the second phase of the project, will improve the aquatic habitat utilizing a variety of habitat improvement practices to maintain and enhance game fish populations, improve nesting habitat for migratory birds and establish native vegetation. The City of Champlin has invested funding resources to complete preliminary services in 2013-2014 for the project. These services include Mill Pond sediment investigation studies, conceptual planning, hydrologic evaluations, habitat restoration conceptual plans, preliminary engineering plans and project estimates. This phase of the project will 1) restore twenty two acres (13,000 linear feet) of lakeshore through removal and invasive plant species, stabilization of shoreland grades, native live plant material and wetland seed planting, 2) restore fourteen acres of upland lakeshore buffers through grade stabilization and upland seed planting, 3) installation of nine acres of in-lake habitat structures for fish populations, and 4) four acres of sanctuary restoration for migratory birds and wildlife species.

The City of Champlin will select an engineer consultant through a request for qualifications process. The selected consultant will work directly with the City of Champlin and project advisory panel to complete design, engineering, environmental permitting and construction supervision for the duration of the project. A construction contractor will be selected through a request for proposal process to complete all construction services with exception to planting live plant material (wetland plugs, shrubs and trees) which will be completed by the Minnesota Conservation Corps.

The Champlin Mill Pond Shoreland and Aquatic Habitat Restoration project addresses three main objectives:

I. Restoration: Restoration of lakeshore, upland buffers, in-lake fish habitat and migratory bird and wildlife sanctuary habitat to restore natural ecological function of the Mill Ponds and native diversity protected under perpetuity by the City of Champlin.

II. Monitoring and Maintenance: The City of Champlin in cooperation with project partners including the Elm Creek Watershed and MNDNR will monitor plant community diversity, fish and wildlife populations on a yearly basis to ensure abundance and diversity levels that occur within the project are recorded yearly and this data is made available to the public. All maintenance will be completed as required by the City of Champlin.

III. Education: This project will expose students and the public to a lakeshore, fish and wildlife habitat restoration project that will be sustained by the City of Champlin. The City of Champlin will provide educational outreach to students and the public. In addition the public will enjoy the recreational benefits long after the life of the grant. The restoration project will be incorporated into interpretive signage to disseminate the value and benefit of restoration project.

III. OVERALL PROJECT STATUS UPDATES:

Project Status as of: January 1, 2017

The City of Champlin has approved the State of MN Grant Agreement and is in the process of approving a consultant to design the Mill Pond Restoration Improvement Project. Champlin continues to work with our MN Legislators to secure funding (via the Bonding Bill) for the work related to the excavation of sediments in the Mill Pond. The project work was included in the 2016 Bonding Bill proposals. However, the Bonding Bill was not approved by the legislature in 2016. This created a delay in start of the design process and for the ENTRF portion of the project. Bond funding is expected to be approved with the 2017. However, the City is in the process of moving forward with the design of both ENTRF work and Bonding work. It is anticipated that project work related both funding sources will be bid out as one construction project with cost items split out based on funding source. The City has been working with DNR for a Drawdown Permit for the Mill Pond, which is expected 9- 2017.

Project Status as of: July 1, 2017

The City of Champlin and consultant s have continued to work on the design and permitting aspects of the project. The State Legislature approved the balance of funding for the Mill Pond Aquatic Restoration. The City of Champlin authorized the completion of the project EAW, which was sent out for review and comments by regulating agencies and the public. The project plans have been completed to 60% and await comments by regulating authorities before moving toward plan completion. Final design is expected in October and Construction bidding in December of 2017. The City is working with the DNR on the Drawdown permit for the Mill Pond. The DNR and City are working on a Blanding’s turtle avoidance plan before final permit. The drawdown is expected September 2017

Project Status as of: January 1, 2018

The Mill Pond Shoreland and Aquatic Habitat Restoration design was completed in October 2017. All required permits from the DNR, ACOE, and Elm Creek Watershed Commission were approved around the same time. The Final Plans include the excavation of potential locations for aquatic habitat and shoreland habitat restoration also include the use of natural wood fish structures, boulder protection and rock riffles. The project bids were received and awarded November 13th.The low bidder for the Mill Pond Shoreland and Aquatic Habitat Restoration Improvement Project 21716 was Rachel Contracting, Inc of St. Michael, Minnesota, in the amount of \$3,977,950.00. Rachel Contracting started working on the project in December and is expected to be substantially complete in the summer of 2018.

Project Status as of: July 1, 2018

The Mill Pond Shoreland and Aquatic Habitat Restoration is in progress. The primary restoration including excavation and placements of in lake habitat structure materials is substantially complete. Native seeding, erosion control, and native tree plantings are nearing completion. The native plugs (emergent) will need to wait until May / June of 2019 for planting due to the Mill Pond Draw-down (through spring of 2019). Once the water elevation is brought up to the permanent level the emergent vegetation can be planted.

Citizen science and other environmental education programs will be used to inform the public about the restoration. The educational kiosk will provide an educational center and starting point learning about the environmental aspects of the Mill Pond / Elm Creek. Public access to the area has been increased. Recreational points of interest including Fishing Access and Water Access for Canoe and Kayak Launch Sites have been incorporated as part of the project.

All this work is expected to be completed before June 30, 2019.

Amended Budget and Reporting Request 12/4/2018

Amendment Request 1

The City is requesting a retroactive amendment for the specific Activity 2 budget items identified below and is consistent with the attached Project Budget Sheet. Construction Completion will remain at June 30, 2019, to complete the installation of live plant materials and remaining in-Lake Habitat.

The amended budget request has been updated pursuant to LCCMR comments on October 2018. The Mill Pond OHW will not be stabilized until after three other construction improvements are completed including TH169. As a result, the emergent native plugs cannot be planted until early 2019, along with remaining in lake habitat. After that time, the water elevation will be brought up to the permanent level. Educational components, including a signage Kiosk with educational signs will also be completed by June 30, 2019.

Amendment Request I Approved by LCCMR 12/11/2018

Native Seed

The projected native seeded area was reduced due to the several factors including the preservation of wooded habitat along the South Shoreline of the Upper and Lower Mill Pond. Also, the reconstruction of TH169 w/MNDOT has impacted the area requiring native seed along the west side of the Lower Mill Pond. Request to decrease the budget in the amount of \$(26,882)

Current Budget	Decrease Amount	Revised Budget
\$65,000	\$(26,868)	\$38,132

Erosion Blanket/ Materials

The Mill Pond restoration required more erosion control blanket than planned. It is requested that the Erosion Blanket Materials Item be increased by \$10,000. Controlling erosion on the project has been a priority. The City was able to construct restore much of the south shoreline of the Upper and Lower Mill Pond using wood -toe and rock toe, without disturbing mature wooded habitat.

Current Budget	Increase Amount	Revised Budget
\$40,000	\$17,006	\$57,706

Habitat Structure

The City is requesting an increase of \$45,000 in the budget for lake and stream habitat structure for the Mill Pond. Existing conditions created need to use the available structure materials and Lake /Stream conditions warranted the increase of these features for the proposed habitat improvements. The existing budget is \$75,000 and will be increase by \$41,116.

Current Budget	Increase Amount	Revised Budget
\$75,000	\$47,328	\$122,328

Native Plugs

The native plugs will decrease based on amount of wooded area preserved, and an increase in shrubs and trees on project phase I. Also, the reconstruction of TH169 w/MNDOT has impacted the area for upland and emergent native plugs, along the west and north side of the Lower Mill Pond. Request to reduce the budget amount for Native Plugs by \$(71,520).

Current Budget	Decrease Amount	Revised Budget
\$80,000	\$(74,000)	\$6,000

Native Trees and Shrubs

Request for an increase of \$17,920 for Native Trees and Shrubs budget. The restoration of the expansive shorelines and islands dictated the planting of additional trees and scrubs to protect shorelines and provide habitat on the Mill Pond.

Current Budget	Increase Amount	Revised Budget
\$30,000	\$17,920	\$47,920

Hydromulch

Due to cold weather construction and limited access in warm weather, Hydromulch method of stabilization work was reduced on the project. Therefore, it is requested that the original budget for this item be reduced by \$(47,000).

Current Budget	Decrease Amount	Revised Budget
\$60,000	\$(46,601)	\$13,399

Interpretive Signs

The interpretive signs have been planned as an important educational component identified in the Mill Pond dissemination portion of the work plan. The interpretive sign will include key education components including the transformation restoring habitat for fish and wildlife species, improving the terrestrial, riparian, and aquatic vegetative community, improving aesthetics of the Mill Pond. The signs will provide information regarding Mill Pond as a habitat for a variety of small mammals, reptiles, birds, amphibians. Also, the signs will provide the recognition for of the ENRTF and State funding for the project. The revised budget includes a of total \$30,000 for two kiosks with sign boards. The kiosks will be constructed in the spring of 2019. One kiosk will be constructed on the south side of the Upper Mill Pond near the canoe /kayak access. The other kiosk will be constructed on the north side of the Lower Mill Pond.

Current Budget	Increase Amount	Revised Budget
\$0	\$30,000	\$30,000

Rock Materials for Spawning Beds/ Habitat Structures/ Riffles

The existing budget is \$190,000 and it is requested that the budget be retroactively increased by \$59,832. The project required additional rock materials for the spawning beds and underwater habitat. Project design and construction based on recommendations from design and TAP committee. The stream flows through the Mill Pond required the placement cobble and other in stream protection. This provided means to adequately develop in lake and instream structures for fish populations.

Current Budget	Increase Amount	Revised Budget
\$190,000	\$76,515	\$266,515

Conservation Corps of Minnesota

The existing budget for the Conservation Corps of Minnesota (CCM) is \$30,000 for assistance in live Planting Materials and Buckthorn removal. Due to scheduling restraints the CCM can only commit to Buckthorn removal on the project. Therefore, the budget for this item will be reduced to \$3,000. The live planting has been completed via contract services.

Amendment Request II

Extension of time until January 2020, to complete Final Report Summary

As identified above, some of the final project work will not be completed until the spring of 2019, therefore we are requesting an extension for the Final Report Summary to July 2020.

Amendment Request II Denied by LCCMR 12/11/18

All Final Reports will be completed by August 15, 2019

Project Status as of: December 31, 2018

The majority of the Mill Pond shoreland and in Lake aquatic habitat restoration has been completed. The City has continued to work on water quality improvements including the Independence Raingarden. The City is also working on the Mill Pond trail access, regional raingarden at (Down Road) which drainage is tributary to the Mill Pond The primary restoration including excavation and placements of in lake habitat structure materials is substantially complete. The native seeding, erosion control, and native tree plantings is substantially complete. The native plugs (emergent) will need to wait until May / June of 2019 for planting. Once planted the water elevation will brought up to the permanent level the emergent vegetation can be planted.

Citizen science and other environmental education programs will be used to inform the public about the restoration. The educational kiosk will provide an educational center and starting point learning about the environmental aspects of the Mill Pond / Elm Creek. Public access to the area has been increased. Recreational

points of interest including Fishing Access and Water Access for Canoe and Kayak Launch Sites have been incorporated as part of the project.

The City has been working with DNR Fisheries and re-stocking fish species in the Mill Pond will be conducted in the fall of 2019.

Project Status as of June 1, 2019

The Mill Pond shoreland and in Lake aquatic habitat restoration has been completed, with the exception the last of the native plugs, which were delayed due to flooding on the Elm Creek and Mill Pond. The native seeding, erosion control, and native tree plantings are complete. The native plugs (emergent) are expected to be completed within the next 2 weeks. Once planted the water elevation will be brought up to the permanent level the emergent vegetation can be planted.

The City has completed work on water quality improvements including the Independence Raingarden. The City is also working on the Mill Pond trail access, regional raingarden at (Down Road) which drainage is tributary to the Mill Pond. The primary restoration including excavation and placements of in lake habitat structure materials is complete.

Citizen science and other environmental education programs will be used to inform the public about the restoration. The City has scheduled the Mill Pond Citizen Science Event for June 22, 2019. The educational kiosk will provide an educational center and starting point learning about the environmental aspects of the Mill Pond / Elm Creek. Public access to the area has been increased. Recreational points of interest including Fishing Access and Water Access for Canoe and Kayak Launch Sites have been incorporated as part of a separate City project.

The City has been working with DNR Fisheries and re-stocking fish species in the Mill Pond will be conducted by the MNDNR in the fall of 2019.

Project Status as of August 15, 2019

Sound bite of Project Outcomes and Results

The Mill Pond project restored 42 acres of shoreland and aquatic habitat, including native upland, riparian, and aquatic zones, which will help maintain and enhance sensitive species; sustain game-fish populations and help to support migratory and resident wildlife populations. The project reduced erosion, total phosphorus and improved water quality.

Overall Project Outcome and Results

Mill Pond Shoreland and Aquatic Habitat Restoration Abstract

The Mill Pond is a reservoir lake within the City of Champlin that was created in 1867 with the construction of the first Mill Pond Dam on the Elm Creek, at the outfall to the Mississippi River. Since that time, the Mill Pond has become an important water feature for fishing and recreational activity in the region.

Over the years, the Elm Creek and Mill Pond have become impaired due to poor agricultural practices and upstream erosion. The Mill Pond impairments are for Total Suspended Solids, phosphorus, bacteria and low dissolved oxygen. In 2012, the City completed the first stream restoration project upstream of the Mill Pond and completed the reconstructed Elm Creek Dam and shoreland restoration at the Mississippi River outfall in 2016.

In 2016-2017, the City established partnerships with the LCCMR, MN legislature, and Elm Creek Watershed to restore the Mill Pond and improve water access. A Technical Advisory Panel was formed to guide the design and develop project goals for Habitat Restoration; Water Quality Improvements; Public Education; Public Access and Recreation.

Phase I started in December 2017, and included the removal of phosphorus laden sediments, installation of the redesigned deep-water and shallow water habitat and in-lake structures. The project restored approximately 42 acres of shoreland area and aquatic habitat. The project restored native upland, riparian, and aquatic zones. The project outcomes include a reduction in erosion and improves water quality. The restored habitat will help maintain and enhance sensitive species like the Blanding’s Turtle and sustain game-fish populations. The improved riparian and upland habitats help support migratory and resident wildlife populations.

The lake restoration was completed in June 2019 and the City held the first Mill Pond Citizen Science Event at the Mill Pond. The event provided hands-on interactive activities and educational experiences on fishery research, migratory birds and preservation of native plant communities. The project established an area of study for environmental science classes for area schools, which are expected to educate hundreds of students each year. Also, the completion Phase II Mill Pond Trail Access project has improved the water access and recreational experiences for area residents.

IV. PROJECT ACTIVITIES AND OUTCOMES:

ACTIVITY 1: Final Design, Engineering and Environmental Permitting for the Mill Pond aquatic habitat, lakeshore land and lakeshore buffer restoration.

Description:

Final design and engineering/construction plans of migratory bird habitat, in-lake habitat cobble and wood structures, riffle pools at the inlet of the mill pond, lakeshore restoration and lakeshore upland buffers. Project permit requirements will include MNDNR public waters, MNWCA, US Army Corps of Engineers 404 and MPCA NPDES. The engineer will complete all bid specifications for public RFP process. Construction contractor will be selected which will require construction supervision and permit compliance inspections during the habitat restoration construction services.

Summary Budget Information for Activity 1:

ENRTF Budget: \$ 350,000
Amount Spent: \$ 350,000
Balance: \$ 0

Outcome	Completion Date
1. Selected engineering consultant will complete all technical analysis required to complete <i>final design and construction plans for the project. All design and construction plans will be completed in cooperation with the Technical Advisory Panel and the MNDNR. All project plans will be submitted to the City of Champlin and reviewed by the City of Champlin and the Technical Advisory Panel prior to approval of the final Design.</i>	June 1, 2017-Update 1-1-17 January 1, 2017
2. Engineering consultant will complete all <i>construction plans, bid specifications and bid walkthrough for a formal public request for proposal of construction services. The City of Champlin will complete formal review of submitted RFPs. Construction contractor will be selected not only on estimate of services by also project experience.</i>	September 1, 2017
3. <i>The engineering consultant will complete all environmental services required to obtain all project permits which include MNDNR public waters, MN WCA, US Army Corps of Engineers 404, MPCA NPDES Permits.</i>	October 1, 2017
4. <i>Engineering consultant will complete construction services supervision and permit compliance inspection during the duration of the project. This will also include project</i>	June 30, 2019

Activity Status as of: January 1, 2017

MN Grant Agreement Approved; TAP and Consultant selected; DNR Area Hydrologist consulted on Elm Creek Drawdown dates and requirements. Other work has not begun. Completion date expected June 1, 2017.

Activity Status as of: July 1, 2017

The project EAW has been sent out for review and comment. TAP has met in three meetings and has provided meaningful recommendation for shoreline and instream habitat. The City has also met with area riparian owners regarding proposed improvements. Pre-permit meeting was held with regulating agencies prior to the submittal of EAW. The preliminary design at 60% includes in-stream and shoreline design features extending from the Elm Creek Dam to the upper end of the Mill Ponds influence at Cartway Road/Elm Creek.

Activity Status as of: January 1, 2018

The Mill Pond Shoreland and Aquatic Habitat Restoration design was approved in October. All required permits from the DNR, ACOE, and Elm Creek Watershed Commission were also approved. Final comments from the TAP Committee were incorporated in the final plans. Native upland, riparian, and aquatic habitat zones were included in the Plans. Aquatic habitat was designed to maintain and enhance game fish populations, and riparian and upland habitats will attract and support migratory and resident wildlife populations. The project is expected to improve dissolved oxygen (DO) and water clarity while reducing total phosphorus (TP) and total suspended solids (TSS). Citizen science and other environmental education programs will be used to inform the public about the restoration. Public access to the area will also be increased. Recreational points of interest including Fishing Access and Water Access for Canoe and Kayak Launch Sites have been incorporated in the plans. Emergency water access has been considered at both the Upper and Lower Mill Pond. The plans include the removal of invasive plants as part of the reestablishment of native shoreland habitat.

Activity Status as of July 1, 2018

The Mill Pond Shoreland and Aquatic Habitat Restoration is moving towards completion. The installation of habitat structure, spawning beds and riffles is substantially complete. The work to install the native upland, riparian, and aquatic habitat zones is in progress. The above work was inspected by WSB Consulting services. Permit compliance and construction services supervision was required with the project. The Once the water elevation is brought up to the permanent level, the emergent vegetation will be planted. This work will be installed and inspected in 2019.

Activity Status as of January 1, 2019

The Mill Pond Shoreland and Aquatic Habitat Restoration is close to completion. The installation of habitat structure, spawning beds and riffles is substantially complete. The work to install the native upland, riparian, and aquatic habitat zones is in progress. The above work was inspected by WSB Consulting services. Permit compliance and construction services supervision was required with the project.

Activity Status as of June 1, 2019

The Mill Pond Shoreland and Aquatic Habitat Restoration is close to completion. The installation of habitat structure, spawning beds and riffles is complete. The work to install the native upland, riparian, and aquatic habitat zones is complete with the in progress. The native plugs (emergent) are expected to be completed within the next 2 weeks. The above work was inspected by WSB Consulting services.

Activity Status as of August 15, 2019

The Mill Pond Shoreland and Aquatic Habitat Restoration is complete. The work included the installation of habitat structure, spawning beds and riffles. Also completed is the restoration of native upland, riparian, and aquatic habitat zones. The placement of native plugs (emergent) was completed on June 15, 2019. The above work was inspected by WSB Consulting services.

ACTIVITY 2: Mill Pond Habitat Restoration and Construction Implementation

Description:

This activity includes construction materials and construction services for Mill Pond shoreland restoration, native Lakeshore Buffers, aquatic habitat and sanctuary restoration for wildlife and fish species.

Summary Budget Information for Activity 2:

ENRTF Budget: \$ 1,650,000
Amount Spent: \$ 1,650,000
Balance: \$ 0

Outcome	Completion Date
1. Selected construction contractor will complete all <i>shoreland restoration shoreland buffer construction specified in the approved final construction plans; these services will include removal of invasive terrestrial plant species, restoration and stabilization of lake shore, installation of cobble lakeshore habitat structures and wood habitat structures for wildlife species.</i>	June 1, 2018
2. Construction contractor will complete all <i>In lake habitat structure construction specified in the approved final construction plan. These structures will include wood fish stick habitat, cobble spawning beds, migratory bird sanctuary habitat, cobble vanes and pools at the inlet of the mill pond.</i>	June 1, 2018
3. Construction contractor will complete all <i>seeding and erosion control installation or lakeshore and shoreland buffers specified in the approved final construction plans.</i>	June 1, 2018
4. Minnesota Conservation Corps will complete all live plant material plantings which include aquatic plants, shrubs and trees specified in the approved final construction plans.	June 30, 2019
5. Final Report Summary	August 15, 2019

Activity Status as of: July 15, 2017

Project is schedule for construction in December 2017.

Activity Status as of: January 1, 2018

The project bids were received and awarded to Rachel Contracting November 13th. Rachel Contracting started working on the project in mid-December and is expected to be substantially complete in the summer of 2018. Although Rachel Contracting has started working on both the lower and upper Mill Pond basins, the warm weather in December slowed the project by approximately two weeks. Since that time, the subzero temperatures have helped freeze the pond bottom providing access for heavy equipment to start the project.

The contractor has completed approximately 15% of the project work.

Activity Status as of: July 1, 2018

The Mill Pond Shoreland and Aquatic Habitat Restoration is substantially complete. The primary restoration including excavation and placements of habitat structure materials was completed in during the winter months of January and February 2018. Native seeding, erosion control, and native tree plantings were installed in April through June. The native plugs (emergent) will need to wait until May of 2019 for planting due to the Mill Pond Draw-down through spring of 2019. Once the water elevation is brought up to the permanent level the emergent vegetation will be planted. The MN Conservation Corps provided crew services for the planting of supplemental work on the Independence Raingarden on the west end of the project and is expected to complete additional work on the Mill Pond Raingarden and buffers in 2019, along with additional supplemental planting around the Mill Pond. The project goal is expected to improve dissolved oxygen (DO) and water clarity while reducing total phosphorus (TP) and total suspended solids (TSS).

Activity Status as of: January 1, 2019

The majority of the work on the Mill Pond has been completed. The native plugs (emergent) will need to wait until May of 2019 for planting due to the Mill Pond Draw-down through spring of 2019. Once the water elevation is brought up to the permanent level the emergent vegetation will be planted. As part of the December 2018 budget amendment the Informational Kiosks will be constructed in the spring of 2019. The MN Conservation Corps provided crew services for the planting of supplemental work on the Independence Raingarden on the west end of the project and is expected to complete additional work on the Mill Pond Raingarden and buffers in 2019, along with additional supplemental planting around the Mill Pond. The project goal is expected to improve dissolved oxygen (DO) and water clarity while reducing total phosphorus (TP) and total suspended solids (TSS).

Activity Status as of June 1, 2019

The Mill Pond Shoreland and Aquatic Habitat Restoration is close to completion. The installation of habitat structure, spawning beds and riffles is complete. The work to install the native upland, riparian, and aquatic habitat zones is complete with the in progress. The native plugs (emergent) are expected to be completed within the next 2 weeks. Once planted the water elevation will brought up to the permanent level the emergent vegetation can be planted. The above work was inspected by WSB Consulting services.

Final Report Summary:

The Mill Pond Shoreland and Aquatic Habitat Restoration has been completed. The restoration included the installation of habitat structure, spawning beds, riffles, and the restoration of native upland, riparian, and aquatic habitat zones. The native plugs (emergent) were completed in June 2019. The Mill Pond water elevations brought up to the normal water level at the end of August 2019. The MN DNR is expected to restock the Mill Pond fishery this fall with Northern and Perch. In the spring of 2020, stocking will include Blue Gills, Crappies and Largemouth Bass.

V. DISSEMINATION:

Description:

The City of Champlin is committed to the long term maintenance of the Mill Pond natural habitat. The City will provide information to the public throughout the duration of the project and post construction via the City of Champlin’s website, City of Champlin’s Facebook page, presentations to the public, project progress presentations at City Council meetings and onsite public project progress/event presentations. The City of Champlin will include an interpretive sign of the project and recognition for of the ENRTF.

Status as of: January 15, 2017

NA

Status as of: June 15, 2017

Notice of Public Hearing for the on the Mill Pond Draw-down and pending project was published in the Champlin- Dayton Press on March 30th and April 6th, 2017. Champlin Web Site and FaceBook will be utilized as project progresses

Status as of: January 15, 2018

Project status has been posted on FaceBook and on the Champlin Web Site. Public Hearing and related articles on regarding the project have been published in the Champlin Dayton Press.

Status as of: July 15, 2018

Project status has been posted on FaceBook and on the Champlin Web Site. Public Hearing and related articles on regarding the project have been published in the Champlin Dayton Press. In addition, the City has provided updates on restoration progress on televised Council Meetings. The City is currently running an article with colored photos in the 2018 Summer Addition of the Champlin Chronicle.

Status as of: January 1, 2019

Project status has been posted on FaceBook and on the Champlin Web Site. Public Hearing and related articles on regarding the project have been published in the Champlin Dayton Press. Additional articles in the Champlin Chronical have been published and distributed to area residents. In 2018, the City provided a neighborhood Native Garden Workshop with Metro-Blooms for riparian property owners on the Mill Pond. The workshop focused on pollutant reduction from yards through native gardens and buffers. The City is working with local Cable Station Quad City Television (QCTV) on two productions “Champlin Matters” focusing on the Citizen Science and the development of the Mill Pond In-lake Habitat and Fishery. Champlin Live and Local production will also identify environmental work on the Mill Pond. Educational components, including educational workshop.

Status as of June 1, 2019

The City continued to post periodical articles on FaceBook and on the Champlin Web Site. Public Hearing and related articles on regarding the project have been published in the Champlin Dayton Press. Update and project status articles were written for the Champlin Chronical and published and distributed to area residents. In spring of 2019, the City provided a Native Garden Workshop/ Resilient Yard with Metro-Blooms targeted for riparian property owners on the Mill Pond and Mississippi River. The workshop focused on pollutant reduction from yards through native gardens and buffers. The City working with local Cable Station Quad City Television (QCTV) on produced two productions “Champlin Matters” focusing on the Citizen Science and the development of the Mill Pond In-lake Habitat and Fishery. Champlin Live and Local production was in March 2019, identified environmental work on the Mill Pond with Educational components. including educational workshop.

Final Report Summary:

The City continued to post periodical articles on FaceBook and on the Champlin Web Site. Public Hearing and related articles on regarding the project have been published in the Champlin Dayton Press. Update and project status articles were written for the Champlin Chronical and published and distributed to area residents. The City continued to target riparian property owners with our Native Garden Workshop/ Resilient Yard with Metro-Blooms, held in the spring of 2019. The workshop focused on pollutant reduction from yards through native gardens and buffers. The City working with local Cable Station Quad City Television (QCTV) on produced two productions “Champlin Matters” focusing on the Citizen Science and the development of the Mill Pond In-lake Habitat and Fishery. Champlin Live and Local production was in March 2019, identified environmental work on the Mill Pond with Educational components.

On Saturday, June 22, 2019, the City of Champlin held the Mill Pond Citizen Science Event at Doris Kemp Park. The City’s Project Manager, Todd Tuominen, provided presentations on the Mill Pond restoration Project including the project partners that supported this environmental improvement. The event focused on hands-on interactive activity stations that included fish research, migratory bird counting, and native plant communities for the Mill Pond.

At the Fish Station Tony Havranek, senior ecologist at WSB, provided an overview of Fishery surveys, fish populations and the proposed stocking. The group was shown how fish data is collected by weighing and measuring fish caught in trap nets and modern electrofishing. A brief history of the millpond fishery was

discussed and how the project improvements will provide an improved deep-water habitat and an improved fishery in the future.

Bird Station included an introductory presentation by Roxy Roberts, environmental scientist, who discussed the most common birds and wildlife that could be found near the Mill Pond. The improvements will provide better habitat and are expected to provide an improve the diversity of wildlife around the Mill Pond. Hands on bird counting using phone apps were taught. Binoculars were provided by the Audubon Society for the event.

Native Plants were discussed at the third station by Laura Wehr, Environmental Scientist. Early studies identified the existing plant ecology on the Mill Pond. Native plants included in the design improve the habitat and reduce the spread of invasive plant species. These natives also provide the learned about the important role that native plants have in stabilizing the shoreline and provided habitat for wildlife and the fishery.

Naturalists from the University of Minnesota Raptor Center provided education of native raptors. The brought the following raptors for demonstration: Bald Eagle, Great Horned Owl, and an American Kestrel.

VI. PROJECT BUDGET SUMMARY:

A. ENRTF Budget Overview:

City of Champlin will complete RFQ process or to select an engineering consultant which will complete professional and technical services. City of Champlin will select a construction contractor through an rfp/bid process to complete construction services with exception to all live plant material planting which will be completed by the Minnesota Conservation Corps.

Budget Category	\$ Amount	Overview Explanation
Professional/Technical/Service Contract:	\$ 350,000.00	Engineering/Design/Permitting
Construction Service Contract	\$ 965,000.00	Construction Services
Construction Service Contract	\$ 100,000.00	Seeding and Erosion Control
Construction Service Contract	\$ 45,000.00	Conservation Corps – Live plant plantings
Equipment/Tools/Supplies:	\$ 540,000.00	Construction Materials and Supplies
TOTAL ENRTF BUDGET:	\$ 2,000,000.00	

Explanation of Use of Classified Staff: The City has utilized professional staff as identified above for the preliminary design and permitting services for the Mill Pond project.

Explanation of Capital Expenditures Greater Than \$5,000: The City has expended an estimated \$283,715 for predesign, design, permitting and construction service as of January 1, 2018.

Number of Full-time Equivalents (FTE) Directly Funded with this ENRTF Appropriation: N/A

In Kind Services

City of Champlin Staff:

- Construction Supervision (0.45 FTE)
- Project Manager (0.45 FTE)
- Administration (0.30 FTE)

Number of Full-time Equivalents (FTE) Estimated to Be Funded through Contracts with this ENRTF Appropriation:

Competitive Bidding Process

Final Design/Engineering/Environmental Permitting/Construction Supervision Contract:

The total FTE is representative of the estimated project costs, estimated FTE subject to competitive contract.
 Project Manager (0.20 FTE)

Environmental Designer	(0.10 FTE)
Professional Engineer	(0.25 FTE)
Hydrologist	(0.15 FTE)
CAD Designer	(0.25 FTE)
Environmental Scientist	(0.10 FTE)
Construction Supervision	(0.30 FTE)
Permit Compliance Inspector	(0.10 FTE)

Construction Services Contract:

Construction services contract will be a lump competitive contract.

Invasive plant removal and live plant materials plantings includes aquatic plugs, trees and shrubs will be contracted with the MN Conservation Corps at a lump sum contract cost.

B. Other Funds:

Source of Funds	\$ Amount Proposed	\$ Amount Spent	Use of Other Funds
Non-state			
City of Champlin	\$ 750,000.00	\$ 750,000	City of Champlin has secured \$3.3 M Bond Funding from the State of Minnesota.
City of Champlin – In Kind Serv.	\$ 60,000.00	\$61,300	Construction Management
Elm Creek Watershed	\$ 250,000.00	\$250,000	In lake Restoration
TOTAL OTHER FUNDS:	\$1,060,000.00	\$1,061,300	

VII. PROJECT STRATEGY:

A. Project Partners:

The City of Champlin will be the fiscal agent receiving funds for the project. A project advisory panel will assist the City of Champlin for technical assistance for the project. The panel includes representatives from the Isaac Walton League, MNDNR, Environmental Resource Commission, Elm Creek WMC, City of Champlin Citizen Representative and Elm Creek TAC. The following local agencies will add technical assistance: Hennepin Co. Environmental Services, Elm Creek Watershed Commission, Minnesota Natural Resources Conservation Service and the US Army Corps of Engineers. Outside services required to complete the project this include environmental permitting, engineering, construction supervision and construction services.

B. Project Impact and Long-term Strategy:

Long term goals of the project are to restore aquatic habitat and restore structural elements upstream of the Mill Pond. A long term monitoring/maintenance plan will be implemented to assure all constructed habitat restoration measures are adequately functioning as designed for the project all required maintenance will be completed by the City of Champlin.

C. Funding History:

Funding Source and Use of Funds	Funding Timeframe	\$ Amount
Phase I Mill Pond Dam – West Mississippi WMC	2014-2016	\$125,000.00
Phase I Mill Pond Dam – City of Champlin	2014-2016	\$1,437,000.00
Phase I Mill Pond Dam – Hennepin County	2014-2016	\$1,724,000.00
Phase I Mill Pond Dam – Elm Creek WMC	2014-2016	\$62,500.00
Phase I Mill Pond Dam – Minnesota DNR	2014-2016	\$250,000.00
Phase I Mill Pond Dam – State of MN Bonding Grant	2014-2016	\$2,750,000.00
Phase II City of Champlin – Sediment Analysis Investigations	2013	\$14,500.00
Phase II City of Champlin – Habitat Restoration Concept Plans	2013	\$ 8,427.00
Phase II City of Champlin – Hydrologic Evaluations	2014	\$13,500.00

Restoration

1. The Champlin Mill Pond is owned by the City of Champlin and under permanent public ownership.
2. A long term monitoring/maintenance plan will be implemented to assure all constructed habitat restoration measures are adequately functioning as designed for the project.
3. All live plant material and seed planted purchased for the project will be regionally native plant species. Installation of seed and live plant material will follow MNDOT and MNBWSR specified planting guidelines.
4. A long term monitoring/maintenance plan will be implemented by the City of Champlin to assure all constructed habitat restoration measures are adequately functioning as designed for the project. This will include long term vegetative monitoring to identify the progress of native vegetation establishment in addition yearly evaluations of fish and wildlife populations. All required yearly maintenance completed will be documented in the yearly monitoring reports.
5. Conservation Corps of Minnesota will be utilized for all live plant material plantings for the project.
6. As part of the annual monitoring reporting for the project; Year 1 monitoring includes existing conditions prior to restoration, site evaluation during restoration and post restoration. Year 2 monitoring includes evaluation of vegetation, wildlife/fish populations and required maintenance. Year 3 monitoring includes evaluation of vegetation, wildlife/fish populations and required maintenance. Year 4-Ongoing Yearly vegetation, wildlife/fish population monitoring. All maintenance required for the project will be complete by the City of Champlin.

IX. VISUAL COMPONENT or MAP(S):

“See Attached Map(s)”



Before Project

After Project

XI. REPORTING REQUIREMENTS:

Periodic work plan status update reports will be submitted no later than January 1, 2017, July 1, 2017, January 1, 2018, July 1, 2018 and January 1, 2019. A final report and associated products will be submitted between June 1, 2018 and January 1, 2019. All work was completed before June 30, 2019.

				Percentage of split payment items		
				Project Total		
Item No.	Description	Units	Unit Price	Contract Quantity	Estimated Price	LCCMR Revised 4/2/18 pay vouchers 1,2
						\$ 2,000,000.00
1	MOBILIZATION	LS	\$180,000.00	1	\$180,000.00	\$150,000.00
2	CLEARING & GRUBBING	LS	\$50,000.00	0.75	\$37,500.00	\$37,500.00
3	REMOVAL OF DELETERIOUS MATERIAL	TON	\$100.00	24.38	\$2,438.00	\$ 2,438.00
4	LAKE EXCAVATION AND GRADING	C Y	\$8.50	200,000.00	\$1,700,000.00	\$ 520,000.00
5	DEWATERING / ICE REMOVAL	LS	\$535,000.00	0.5	\$267,500.00	\$ 219,544.00
6	RANDOM FIELDSTONE BOULDERS CLASS V	TON	\$50.00	0.00	\$0.00	\$0.00
7	ROOT WADS	EACH	\$1,000.00	0	\$0.00	\$0.00
8	FISH STICK	EACH	\$625.00	37	\$23,125.00	\$23,125.00
9	STREET SWEEPER (WITH PICKUPBROOM)	HOURL	\$125.00	90.5	\$11,312.50	\$11,312.50
10	RIPRAP CLASS II (FIELDSTONE)	TON	\$50.00	2,408.63	\$120,431.50	\$120,431.50
11	RIPRAP CLASS IV (FIELDSTONE)	TON	\$50.00	1,910.75	\$95,537.50	\$65,993.00
12	ROCK VANES	TON	\$55.00	65	\$3,575.00	\$ 3,575.00
13	TOE ROCK	L F	\$9.00	2,133.00	\$19,197.00	\$19,197.00
14	STONE FISHING PLATFORM	EACH	\$4,200.00	0	\$0.00	
15	FISHING PIER	EACH	\$30,000.00	0	\$0.00	
16	BOAT RAMP	EACH	\$2,500.00	1	\$2,500.00	
17	BENCH	EACH	\$2,800.00	0	\$0.00	\$ -
18	INTERPRETIVE SIGN	EACH	\$15,000.00	0	\$0.00	\$0.00
19	TEMPORARY WILDLIFE NETTING	S F	\$1.00	0.00	\$0.00	\$0.00
20	TRAFFIC CONTROL	LS	\$25,000.00	0.5	\$12,500.00	\$12,500.00
21	DECIDUOUS TREE 2.5" CAL B&B	TREE	\$470.00	0	\$0.00	\$0.00
22	DECIDUOUS SHRUB 2' HT CONT	SHRB	\$40.00	0	\$0.00	\$0.00
23	EMERGENT PLUGS	PLT	\$4.00	0	\$0.00	\$0.00
24	DECIDUOUS TREE 18" HT SEEDLING	TREE	\$22.00	0	\$0.00	\$0.00
25	BUCKTHORN REMOVAL	LS	\$5,000.00	1	\$5,000.00	\$5,000.00
26	SILT FENCE, TYPE HI	L F	\$3.00	300.00	\$900.00	\$900.00
27	FLOTATION SILT CURTAIN TYPE MOVING WATER	L F	\$20.00	0	\$0.00	\$0.00
28	SEDIMENT CONTROL LOG TYPEWOOD FIBER	L F	\$4.00	0	\$0.00	\$0.00
29	STABILIZED CONSTRUCTION ENTRANCE	EACH	\$4,000.00	3	\$12,000.00	\$12,000.00
30	FERTILIZER TYPE 1	LB	\$7.00	0	\$0.00	\$0.00
31	SEED MIXTURE 21-112	LB	\$10.00	0	\$0.00	\$0.00
32	SEED MIXTURE 34-261	LB	\$200.00	0	\$0.00	\$0.00

33	SEED MIXTURE 36-211	LB	\$150.00	0	\$0.00	\$0.00
34	CUSTOM WETLAND SEED MIX	LB	\$1,150.00	0	\$0.00	\$0.00
35	SEED MIXTURE 35-241	LB	\$160.00	0	\$0.00	\$0.00
36	MULCH MATERIAL TYPE 1	TON	\$1,000.00	0	\$0.00	\$0.00
37	EROSION CONTROL BLANKETS CATEGORY 3N (NA	S Y	\$2.50	0.00	\$0.00	\$0.00
38	TURF REINFORCEMENT MAT CATEGORY SPECIAL	S Y	\$10.00	0	\$0.00	
39	RAPID STABILIZATION METHOD 3	MGAL	\$10,000.00	0	\$0.00	\$0.00
40	PLANT MANAGEMENT - YEAR 1	LS	\$12,000.00	0	\$0.00	\$0.00
41	PLANT MANAGEMENT - YEAR 2	LS	\$10,000.00	0	\$0.00	\$0.00
42	PLANT MANAGEMENT - YEAR 3	LS	\$10,000.00	0	\$0.00	\$0.00
43	TREE PROTECTION FENCING	EACH	\$100.00	0	\$0.00	\$0.00
44	WILLOW WATTLES	EACH	\$60.00	0	\$0.00	\$0.00
45	LIVE STAKES, WILLOW	EACH	\$15.00	0	\$0.00	\$0.00
46	BOULDER WALL PIPE EXTENSION	LS	\$10,910.00	1	\$10,910.00	
47	TRAIL EXCAVATION	CY	\$13.00	0	\$0.00	
48	ADDITIONAL FINISH GRADING	LS	\$13,330.00	0.5	\$6,665.00	
49	TOPSOIL, RIPPING, REMOVAL, & RESPREAD	CY	\$8.00	0	\$0.00	
50	SAND COVER (LV)	CY	\$4.00	1060	\$4,240.00	
51	CLEARING & GRUBBING	AC	\$29,095.00	1.73	\$50,334.35	
	ENGINEERS COST	LS	\$320,000.00	1	\$350,000.00	\$350,000.00
				Total	\$2,915,665.85	\$1,553,516.00
				Funding Total	\$	2,000,000.00
				Funding Left from Each Source	\$	446,484.00

**Environment and Natural Resources Trust Fund
Final M.L. 2016 Project Budget**

Project Title: Champlin Mill Pond Shoreland Restoration

Legal Citation: M.L. 2016, Chp. 186, Sec. 2, Subd. 08i

Project Manager: Todd Tuominen

Organization: City of Champlin

M.L. 2016 ENRTF Appropriation: \$ 2,000,000

Project Length and Completion Date: 2 Years, June 30, 2019

Date of Report: August 15, 2019



ENVIRONMENT AND NATURAL RESOURCES TRUST FUND BUDGET	Activity 1 Budget	Amount Spent	Activity 1 Balance	Activity 2 Budget	Amount Spent	Activity 2 Balance	TOTAL BUDGET	TOTAL SPENT	TOTAL BALANCE
BUDGET ITEM	<i>Final Design, Engineering, Environmental Permitting, Construction Supervision and Permit Compliance</i>			<i>Construction Services and Materials</i>					
Personnel (Wages and Benefits)									
None									
Professional/Technical/Service Contracts									
Competitive Bid: Consulting/Engineering Firm - Final Design, Engineering, Environmental Permitting, Construction Supervision and Permit Compliance.	\$350,000	\$350,000	\$0				\$350,000	\$350,000	\$0
Competitive Bid: Seeding Contractor - Seeding and Erosion Control				\$100,000	\$100,000	\$0	\$100,000	\$100,000	\$0
Conservation Corps of Minnesota - Live Plant Material Planting				\$3,000	\$3,000	\$0	\$3,000	\$3,000	\$0
Competitive Bid: Construction Contractor - Construction Services				\$965,000	\$965,000	\$0	\$965,000	\$965,000	\$0
Equipment/Tools/Supplies									
Native Seed				\$38,132	\$38,132	\$0	\$38,132	\$38,132	\$0
Erosion Blanket/Materials				\$57,706	\$57,706	\$0	\$57,706	\$57,706	\$0
Habitat Structure Materials				\$122,328	\$122,328	\$0	\$122,328	\$122,328	\$0
Native Plugs				\$6,000	\$6,000	\$0	\$6,000	\$6,000	\$0
Native Trees and Shrubs				\$47,920	\$47,920	\$0	\$47,920	\$47,920	\$0
Hydromulch				\$13,399	\$13,399	\$0	\$13,399	\$13,399	\$0
Interpretive Signs				\$30,000	\$30,000	\$0	\$30,000	\$30,000	\$0
Rock Material for Spawn Beds/Hab Structure/Riffles				\$266,515	\$266,515	\$0	\$266,515	\$266,515	\$0
COLUMN TOTAL	\$350,000	\$350,000	\$0	\$1,650,000	\$1,650,000	\$0	\$2,000,000	\$2,000,000	\$0