

**Environment and Natural Resources Trust Fund  
2011-2012 Request for Proposals (RFP)**

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**LCCMR ID: 057-B**

**Project Title:** Pioneer Creek Tributary Restoration

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**Category:** B. Water Resources

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**Total Project Budget: \$** \$183,000

**Proposed Project Time Period for the Funding Requested:** 2 yrs, July 2011 - June 2013

**Other Non-State Funds: \$** 132,500

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**Summary:**

The restoration of the Pioneer Creek tributary will reduce phosphorous by 36 pounds and total suspended solids by 32 tons per year; stop stream bank erosion; and improve water quality.

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**Name:** Jason Ziemer

**Sponsoring Organization:** City of Maple Plain

**Address:** 1620 Maple Ave  
Maple Plain MN 55359

**Telephone Number:** 763-479-0515

**Email** jziemer@mapleplain.com

**Web Address** www.mapleplain.com

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**Location**

**Region:** Metro

**Ecological Section:** Minnesota and NE Iowa Morainal (222M)

**County Name:** Hennepin

**City / Township:** Maple Plain

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<input type="checkbox"/> Funding Priorities	<input type="checkbox"/> Multiple Benefits	<input type="checkbox"/> Outcomes	<input type="checkbox"/> Knowledge Base
<input type="checkbox"/> Extent of Impact	<input type="checkbox"/> Innovation	<input type="checkbox"/> Scientific/Tech Basis	<input type="checkbox"/> Urgency
<input type="checkbox"/> Capacity Readiness	<input type="checkbox"/> Leverage	<input type="checkbox"/> Employment	<input type="checkbox"/> TOTAL <input type="checkbox"/> %

# 2011-2012 MAIN PROPOSAL

## CITY OF MAPLE PLAIN

### PROJECT TITLE: PIONEER CREEK TRIBUTARY RESTORATION

#### I. PROJECT STATEMENT

The City of Maple Plain through its Comprehensive Plan and newly adopted Local Surface Water Management Plan established best management practices for surface water management aimed at improving water quality and reducing impacts to natural resources. The City has an identified opportunity to implement these strategies by restoring a tributary of Pioneer Creek.

When complete, the restoration effort would: reduce phosphorous loads by 36 pounds per year and total suspended solids by 32 tons per year; stop sedimentation build up and erosion of the stream banks; protect private property; improve downstream water quality of Pioneer Creek; and protect the adjacent state-designated wetland from unnecessary impacts.

The project is phase two of a larger City-funded project to replace and upgrade the storm water distribution system that discharges into the tributary. The failure of the existing storm water system and stream obstructions has contributed to the rapid degradation of the stream bank, stream channel and water quality.

The 1,789-foot tributary discharges into a large, state-designated wetland (DNR Protected Wetland #27-393W) bordered by the cities of Maple Plain and Independence, which is classified as a Large Cattail Marsh. Stabilizing the erosion that is occurring in the stream corridor will help protect the plant community in the Maple-Basswood Forest as well as minimize the erosion discharge to the DNR Protected Wetland. The project area is classified as Maple-Basswood Forest and lies in the remnants of the Big Woods of Minnesota, characterized by Maple/Basswood/Oak forests. The area had potential for rare species, though a field investigation for rare species was not done on this location.

#### II. DESCRIPTION OF PROJECT ACTIVITIES

##### LCCMR FUNDED ACTIVITIES

Activity 1: Engineering, Design & Public Bidding

Budget: \$33,000

Stream bank restoration design and drafting of engineering and construction documents. Watershed district review and approval. Final City Council approvals. Public bidding process.

Outcome	Completion Date
1. Completion of project design	Summer 2011
2. Watershed and City Council approval	Summer 2011
3. Project announcement and public bidding	Fall 2011

Activity 2: Channel Stabilization & Restoration

Budget: \$150,000

Channel and stream bank restoration. Implement erosion control strategies using native vegetation and hard armoring techniques.

<b>Outcome</b>	<b>Completion Date</b>
1. Rebuild stream banks; re-establish creek channel	Spring 2012
2. Plant & establishment of vegetation	Summer 2012
3. Final plantings; touch up work; evaluation	Spring 2013

### **CITY FUNDED ACTIVITIES**

Activity 1: Creek Clean Up Budget: \$8,500

Completed Fall 2010.

Activity 2: Engineering, Design & Public Bidding Budget: \$16,500

Completed Spring 2011.

Activity 3: Outfall Replacement & Upgrades Budget: \$75,000

Completed Summer/ Fall 2011.

Activity 4: Contingency Planning (Entire Project) Budget: \$22,500

Activity 5: Inspection & Program Monitoring Budget: \$10,000

### **III. PROJECT STRATEGY**

#### **A. Project Team/Partners**

Project & Budget Manager: Jason Ziemer, City Administrator  
 Outfall Project Manager: Dan Boyum, City Engineer (Bonestroo)  
 Restoration Project Manager: John Smyth, Natural Resources Team Leader (Bonestroo)

The City of Maple Plain will be the lead entity for the project. All funds from the Environment and Natural Resources Trust Fund will be received and managed by the City.

#### **B. Timeline Requirements**

Creek clean up is necessary to complete a final assessment of the total project, including the stream bank restoration and erosion control methods. Upon completion of that work a final site assessment and survey will be completed. Replacement of the outfall is phase two of the total project to ensure long-term effectiveness and viability of the creek restoration. Some restoration work could be done simultaneously with outfall construction. This work would be performed and funded by the City. Necessary hard armoring would be placed during the same construction season. Planting of native vegetation for erosion control and water quality improvements would be done the following year to ensure one full growing season, and allow for any needed repairs to newly constructed outfalls. Funding for the stream bank restoration and erosion control would be provided by LCCMR.

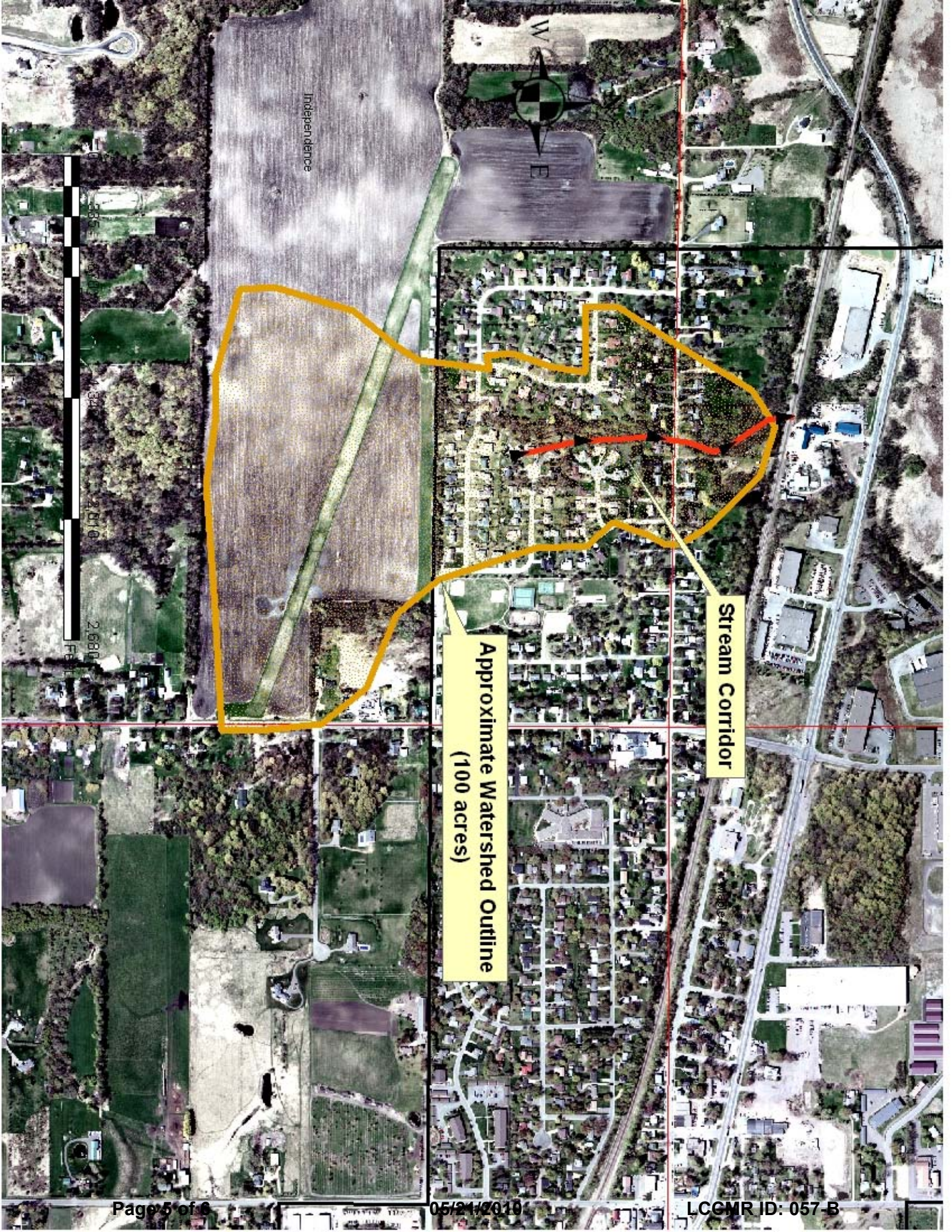
## 2011-2012 Detailed Project Budget

### IV. TOTAL TRUST FUND REQUEST BUDGET [Insert # of years for project] years

<b>BUDGET ITEM</b> (See list of Eligible & Non-Eligible Costs, p. 13)	<b>AMOUNT</b>
<b>Personnel:</b>	\$ -
<b>Contracts:</b> 1) <b>Bonestroo:</b> Engineering, Design & Project Mgmt. 2) <b>Shoreland restoration firm:</b> Stream bank restoration, planting of native vegetation, placement of hard armoring and 1-year contract maintenance. 3) <b>Landscape firm:</b> Miscellaneous restoration.	\$ 183,000
<b>Equipment/Tools/Supplies:</b>	\$ -
<b>Acquisition (Fee Title or Permanent Easements):</b> The City currently owns easements for the outfalls; additional easements are to be determined.	\$ -
<b>Travel:</b>	\$ -
<b>Additional Budget Items:</b>	\$ -
<b>TOTAL ENVIRONMENT &amp; NATURAL RESOURCES TRUST FUND \$ REQUEST</b>	<b>\$ 183,000</b>

### V. OTHER FUNDS

<b>SOURCE OF FUNDS</b>	<b>AMOUNT</b>	<b>Status</b>
<b>Other Non-State \$ Being Applied to Project During Project Period: Entire Cost of Project: \$315,500. City share (Storm Water Outfall Projects): \$132,500.</b> ((Creek clean up: \$8,500; Engineering/design/easements: \$16,500; Outfall replacement: \$75,000; Monitoring: \$10,000; Contingencies: \$22,500.))	\$ 132,500	<i>Secured</i>
<b>Other State \$ Being Applied to Project During Project Period:</b>	\$ -	
<b>In-kind Services During Project Period:</b> Pioneer Sarah Creek Watershed Management Commission partnership wherever possible.	\$ -	Unknown Amount
<b>Remaining \$ from Current ENRTF Appropriation (if applicable):</b>	\$ -	
<b>Funding History:</b>	\$ -	



Independence

Stream Corridor

Approximate Watershed Outline  
(100 acres)

1,000  
2,000  
2,680  
FEET

Jason A. Ziemer

**Qualifications for  
LCCMR GRANT APPLICATION**

**EDUCATION**

- Doctorate in Public Administration, Hamline University, St. Paul, MN (2009-Present)
- Master of Arts – Public Administration, Hamline University, St. Paul, MN
- Master of Arts – Management, Hamline University, St. Paul, MN
- Bachelor of Arts, University of North Dakota, Grand Forks, ND

**TRAINING**

- Minnesota Certified Municipal Clerk, Minnesota Clerks & Finance Officers Association

**PROFESSIONAL AFFILIATIONS**

- International City-County Management Association
- Minnesota City-County Management Association
- Metropolitan Area Management Association
- Minnesota Clerks & Finance Officers Association

**CLIENT SERVICE MANAGER**

Dan D. Boyum, PE

**Qualifications for  
LCCMR GRANT APPLICATION**

Mr. Boyum joined Bonestroo in 1990 and currently serves as a civil engineer a part of the firm's Municipal Group. Dan specializes in designing streets, utilities, reviewing new developments, and investigating drainage issues. His extensive experience includes project inspection, participating in public information meetings and public hearings for many different cities and townships, as well as preparing Pavement Management Studies and Capital Improvement Programs.

**EDUCATION**

- University of Minnesota – Minneapolis Bachelor of Science Civil Engineering

**PROFESSIONAL ORGANIZATIONS**

- Minnesota Society of Professional Engineers (MSPE)
- Current State President American Council of Engineering Companies (ACEC)
- American Society of Civil Engineers (ASCE) Minnesota Public Works Association (MPWA)
- City Engineers Association of Minnesota

**RELEVANT EXPERIENCE**

• CARVER, MN - CITY ENGINEERING SERVICES

Dan has served as the City Engineer in Carver since 1996. Over the years, Dan has worked closely with staff, council, residents, developers, and other consultants in addressing both project and everyday City engineering issues. He and Bonestroo's staff have completed multiple feasibility reports and studies, including developing engineering standards and policy. He has either designed or coordinated various engineering projects, including wells, pump houses, water towers, water and wastewater treatment plants, street and utility reconstruction, street maintenance, comprehensive plan and environmental studies, levee reconstruction, and mapping.

• MAPLE PLAIN, MN - CITY ENGINEERING SERVICES

Dan has served as the City Engineer in Maple Plain since 2004. He has worked closely with the City staff, council, and Bonestroo staff on various projects, including Poplar Avenue Sewer Improvements and TH 12 Area Utility Improvements, various stormwater projects (including Howard Avenue Drainage Improvements), water treatment plant, transportation plan, water emergency preparedness and conservation plan, Capital Improvement Plan, MS4 stormwater permit, Mn/DOT's TH 12- Baker Park Road Improvements, and draft pavement management study. Dan also reviews site plans for new developments in the City and works closely with the City planning staff.