

Work Program for Lake Independence Water Quality Project

Project Sponsor: Pioneer-Sarah Creek Watershed Management
Commission
3235 Fernbrook Lane
Plymouth, MN 55447
Phone (763) 553-1144

Designated Project Representative: James Kujawa, Technical Advisor to the
Commission. Phone (612) 348-7338

Project Title: Lake Independence Water Quality Project

Total Project Cost: \$52,500

Grant Request Amount: \$24,500

Project Summary

Lake Independence is an important local and regional recreational resource. This project was proposed to reduce nutrient inputs to the Lake because of the increased impairment to its water quality. The project will identify potential rain garden and lakeshore stabilization sites for BMP's selected within and adjacent to Lake Independence in the Cities of Independence and Medina. The project includes an educational component that presents the benefits of these practices. The educational component includes the installation of signage and distribution of brochures. The ultimate result of the project will be reduced nutrient input to the lake and a better-informed and engaged public.

The goals of the project are to:

- Reduce nutrient inputs to Lake Independence by installing rain gardens and lakeshore stabilization
- Identify and locate 5 rain gardens and 5 lakeshore stabilization projects in areas that the nutrient reduction will be the most beneficial and visible to the public.
- Through the instillation and location of the practices, create the opportunity to view and educate the public on the benefits and natural beauty of the practices.
- Work with the Lake Independence Citizens Association, Hennepin County, Three Rivers Park District, Medina, and Independence to provide the cooperation and community inputs necessary to create beneficial water quality practices that can also further the knowledge and understanding of the interactions between their yard landscaping and the water quality in Lake Independence.
- Leverage funds, donations and in-kind assistance to maximize the number of projects and reduction of nutrients into Lake Independence.

Work Plan

The following work plan divides the proposed project into tasks based on project objectives and schedule:

1. Initial stakeholders meetings to identify potential sites.
2. Detailed site investigations, conceptual design work and work plan development;
3. Survey, design and construction;
4. Promotion and education of the constructed practices

Specific tasks, responsible parties, associated costs and anticipated timelines are outlined for each these phases.

Task I) Initial stakeholders meetings to identify potential sites and preliminary technical site investigations

The initial work consists of combining the knowledge of the area that the local stakeholders have with the technical expertise of the agencies that will quantify and design the rain gardens and lakeshore stabilization sites. The Lake Association will inform its members and lake residents of the program and its goals. It will request interested landowners to inform the Association of their site and resource issue. The Lake Association will provide technical staff with the information regarding interested landowners. The technical staff will perform initial site investigations to identify site constraints and the appropriate practice(s) to achieve the desired nutrient reduction to the lake.

Responsible Parties

Local Stakeholders.....LICA

Technical experts.....HCDES, TRPD and PSCWMC

Timeline

December 2005 to June 2006

Estimated Costs (\$2,000.00)

In-Kind expenses.....\$ 1,500.00

MEP Grant..... \$ 500.00

Task 2) Site investigations, conceptual design-work and landowner commitment.

This task involves detailed investigation of the sites. This will entail preliminary survey work, conceptual design layout, preliminary timelines for the work and the costs associated with the work. Once these are developed, they will be presented to the landowners to determine their commitment to their individual project and provide a basis to begin the final design work. The PSCWMC, LICA and HCDES staff will form a committee to prioritize the proposed projects if they exceed available funds.

Responsible Parties

Technical Staff.....HCDES, PSCWMC, Medina, Independence

Local Stakeholders.....Individual landowners, LICA,

Timelines

April 2006 to April 2007

Estimated Costs (\$ 2,500.00)

In-Kind Expenses.....\$2,000.00

MEP Grant.....\$ 500.00

Task 3) Final Survey, Design and Construction

This task involves detailed surveying and designing of the rain garden or lakeshore stabilization project. The rain garden or lakeshore stabilization projects will be designed and constructed based on design information, input from stakeholders and considerations related to the goals of the work plan. It would determine the extent of the work, materials and quantities needed with an engineer's estimate of construction costs.

Responsible Parties

Technical Staff.....HCDES, PSCWMC, Independence, Medina
 Local Stakeholders.....Individual landowners, LICA, Independence
 and Medina

Timelines

May 2006-October 2008

Estimated Costs (\$ 46,500)

In Kind.....\$ 18,000.00
 MEP Grant.....\$ 23,500.00
 Landowner.....\$ 5,000.00

Task 4) Promotion and Education of the Practices.

The Lake Independence Citizens Association (LICA) will install signage, where allowed, promoting the rain gardens constructed from the project. LICA will also produce and distribute educational brochures in the Lake Independence neighborhood. The brochures will provide information on rain gardens and the benefits associated with them.

Responsible Parties

Local Stakeholders.....LICA, Independence, Medina

Timelines

Brochure and flyer.....December 2005-December 2006
 Signage.....Varies, when the projects are completed.

Estimated Costs (\$1,500.00)

In Kind.....\$ 1,500.00

Budget:

Task	Task Description	MEP Grant	Landowner's	Other*	Total	Entity
I	Initial stakeholders meetings to identify potential sites and preliminary technical site investigations	\$ 500.00		\$ 1,500.00	\$ 2,000.00	HCDES, TRPD, LICA, PSCWMC,
II	Site investigations, conceptual design-work and landowner commitment	\$ 500.00		\$ 2,000.00	\$ 2,500.00	HCDES, LICA, PSCWMC, Medina, Independence
III	Final Survey, Design and Construction	\$ 23,500.00	\$ 5,000.00	\$ 18,000.00	\$ 46,500.00	HCDES, LICA, PSCWMC, Medina, Independence
IV	Promotion and Education of the Practices		.	\$ 1,500	\$ 1,500	LICA
	Total	\$ 24,500	\$ 5,000	\$ 23,000	\$ 52,500	
	Percentages	46%	10%	44%	100%	

*In-kind from Lake Independence Citizens Association, Hennepin County Environmental Services, Medina, Independence.

HCDES	Hennepin County Department of Environmental Services Contact: Joel Settles (612) 348-6157
LICA	Lake Independence Citizens Association Contact: Mike McLaughlin (763) 479-3632
TRPD	Three Rivers Park District Contact: John Barten (763) 694-7841
PSCWMC	Pioneer-Sarah Creek Watershed Management Commission Contacts: James Kujawa (612) 348-7338 Judie Anderson (763) 553-1144
Independence	City of Independence Contact: Toni Hirsch (763) 479-0527 x5
Medina	City of Medina Contact; Jim Dillman (763) 473-4643

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