Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: ARRA_Project15 WTDO

Name: ARRA 15 Village of Sussex Spring Creek Grant 2P-00E73201

Type: Grant Project

Subtype: ARRA Pass Through Project

 Status:
 COMPLETE

 Start Date:
 02/09/2010

 End Date:
 03/31/2011

Purpose: Spring Creek planning and study of culvert removals and stream restoration of Spring Creek, an impaired waterbody.

Objective: Develop a strategy to remove man-made barriers to this waterway and restore a natural stream flow pattern. Collect data to be used in a study on the water quality benefits and treatment of urban pollutants through restoration of natural stream

segments in suburban areas, including the capacity for mitigating urban runoff impacts, through:

¿ more evenly-dispersed flow through natural meanders and in-stream vegetation during storm events as compared to piped systems;

¿ nutrient uptake by in-stream and nearby vegetation;

¿ incorporation of sediment into restored streambed;

¿ transport of ¿normal¿ amounts of sediment downstream, as compared to excessive scouring of streambed due to

current ¿flashy¿ type of system

 $\ \ \textbf{\textit{i}} \ \, \text{evaporation and infiltration of runoff throughout the drainage area, rather than depositing excess water in the}$

downstream reaches of the basin

¿ temperature stabilization

Comments: DUNS #: _____ CCR#:____

Total project award: \$36,000

Outcome: A detailed plan describing the strategy for removing artificial barriers to the stream system which could be adopted by local

units of government, to be used for development of infrastructure and downtown re-development planning. Recommendations from this plan could be adopted by other communities with similar stream obstacles.

The study would determine if there is a water quality benefit to daylighting and restoring other stream segments in semiurban communities by allowing runoff to be treated by the natural ecosystem, as opposed to directing water away to the nearest downstream surface water. Other previous studies around the country have primarily focused on the habitat values of daylighting projects, as opposed to water quality improvements. Results of this study could be considered in

deciding other water quality projects to implement in the region.

People								
Name	Role	Status	Start Date	End Date	Organization	Comments		
D ANTUONO, JAMES R	PROJECT_OFFI	ACTIVE	10/03/2009		Wisconsin DNR			
MCBROOM, MAUREEN A	PROJECT_OFFI	ACTIVE	04/16/2010		Wisconsin DNR			
VILLAGE OF SUSSEX.	GRANT RECIPII	ACTIVE	10/03/2009		VILLAGE OF SUSSEX			

Project Statuses Date Reported By **Status** Comments 04/16/2010 MAUREEN MCBROOM Progress: 0-25% Cor consultant has gathered field data; using this to begin designing preliminary alternatives before next meeting 07/14/2010 MAUREEN MCBROOM Progress: 50-75% Cc met with Village and Interfluve (consultant) to review preliminary conceptual drawings. analysis of field work and other information have determined recommended stream width, buffer size, and 2 potential realignment possibilities. Discussed potential funding sources, inclusion in possible TIF district plans, and potential incorporation into upcoming road reconstruction project. Meetings are tentatively scheduled for August - October to present info. to village's redevelopment group, the general public, and Village Board. 10/13/2010 MAUREEN MCBROOM Progress: 75-100% (Developed 2 conceptual plan alternatives for daylighting Spring

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Date	Reported By	Status	Comments Creek; plans & details sent out to Village & Department staff for review and comment. Continuing with meeting planning.
01/28/2011	MAUREEN MCBROOM	Progress: 75-100% (0 01 0
03/22/2011	LISAHELMUTH	Active	Also extended to March 31st.
04/28/2011	MAUREEN MCBROOM	Complete	Deliverables complete & presented to Village board. Project currently proposed to be worked into larger overall road construction project.

Project Status Detail

Question Answer

1. Reporting Timeframe (Q1 (Oct-Dec), Q2 (Jan-Mar), Q3 (Apr-Q6 June), Q4 (July-Sept):

- 2. Amount expended this time period:
- 3. Subcontracts or subgrants awarded this period:
- 4. Number work hours created or maintained to date:

5. Work accomplished this reporting period: Deliverables reviewed, completed and presented to village board.

6. Work goals for coming reporting period: Project complete.

7. Overall project status: Done.

8. WDNR Question: Job equivalent Created

Actions

ActionDetailed DescriptionStartEnd DateStatusRestore Hydrology, Morphology********06/30/2010PROPOSEDRestore Riparian Habitat********06/30/2010PROPOSED

Monitoring Stations

Station ID Name Comments

683208 Sussex Creek at Sth 164

Assessment Units

WBICSegmentLocal NameOfficial Name7734001Spring CreekSpring Creek

Lab Account Codes

Account Code Description Start Date End Date

Forms

Form Code Form Name

Methods

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Method Code	Description
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Fieldwork Events								
Start Date	Status	Field ID Station		on ID Station Name				
Documents								
Title		Description	Author		Published	Comments		
ARRA 15 Village Spring Creek Co			Wdnr		10/29/2009			
ARRA 15 Village Spring Creek Pr Description	of Sussex		Wdnr		07/22/2009			
ARRA_15_Q1FF	Y11_Report				01/31/2011			
ARRA_15_Q2FF	Y10_Report		Wdnr		04/28/2010			
ARRA_15_Q2FF	Y11_Report				04/29/2011			
ARRA_15_Q3FF	Y10_Report				07/30/2010			
ARRA_15_Q4FF	Y10_Report				11/01/2010			
Preliminary cros	s section	preliminary conceptual cross sec and floodplain - plantings, etc.	tion Beth W		07/07/0010			
Spring Creek Pr Concept Design			Beth W	entzel and elle	12/13/2010			
Water Quality Be	enefits of		Inter-Fl		02/16/2011			
preliminary plan		Preliminary conceptual realignme locations 1 & 2	ent Beth W Interflu		07/07/2010			
Rudget								

Budget

Combined Budgets:

Combined SLOH:

Fundina						
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Organization Source Type Amount Start Date End Date