

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** ARRA\_Project14 WTDN  
**Name:** ARRA 14 Sheboygan River Basin Partnership Willow Creek Grant 2P-00E73201  
**Type:** Grant Project  
**Subtype:** ARRA Pass Through Project  
**Status:** ACTIVE  
**Start Date:** 12/21/2009  
**End Date:** 10/31/2010  
**Purpose:** Willow Creek Contract & Willow Creek comprehensive watershed protection and improvement plan; contract with the Sheboygan River Basin Partnership.  
**Objective:** Today, the single largest threat facing Willow Creek is development. Previous development in the watershed has degraded the stream through channelization, stream diversion, increase in impervious area, diversion of groundwater springs, installation of culverts and lengthy stream enclosures, loss of in-stream cover and streambank vegetation, reduced water quality, diminished base flow and degraded habitat. Although future growth in the watershed is inevitable, many of the associated watershed impacts can be minimized or avoided through a better understanding of the baseline conditions and communication of this information to local decision makers and regulators.

The best way to direct stream restoration activities and protection in Willow Creek should include habitat assessment, understanding stream hydrology and potential pollution sources that impair water chemistry and how they relate to the watershed land use. The impact of current and future land use on water quality conditions in Willow Creek are not well understood. Therefore, planning needs to be completed to help guide the types of BMPs and management policies that will be needed to preserve and restore water quality and habitat in the watershed. The watershed plan can identify types of restoration and stream improvement projects that could be implemented.

The purpose of this project is to implement portions of a Willow Creek Comprehensive Watershed Protection and Stream Improvement Plan. The objective is to bring together the stakeholders to develop a comprehensive watershed plan for Willow Creek. Funds sought under this planning grant would assist in the development of data, maps and recommended BMPs which would be used to preserve and enhance habitat, hydrology, water quality, and the biological integrity of Willow Creek within a set of recommendations within a final plan. It is anticipated that DNR FTE staff and SRBP volunteer time would also be utilized for some tasks identified for this watershed planning project.

**Comments:** Total project award:\$25,500

- Outcome:**
- Data Collection & soils, land use, topo, aerial, use of approved municipal stormwater plans, floodplain maps, H&H studies & 4 weeks
  - Compile GIS Base Maps & 2 weeks
  - Delineate planning drainage basins & sub-basins & 3 weeks
  - Hydrologic and hydraulic modeling to establish peak discharge, runoff volumes, in-stream flow velocities & 3 weeks
  - Estimate sediment loadings & 3 weeks
  - Stakeholder Planning Meetings (3) & 9 months
  - Development of Management Alternatives & 3 weeks
  - Stakeholder Meeting Rank and Prioritize Alternatives & 2 weeks
  - Finalize Recommendations and Costs & 2 weeks

### Project Statuses

Date	Reported By	Status	Comments
04/06/2010	VICTOR PAPPAS	0-25% Complete	Project has just been initiated. Future project status will be evaluated against project deliverables and shown as a % complete.
06/30/2010	LAUREL LAST	25-50% Complete	Project is underway. Project is approximately 25% complete and reflected in June 2010 billings.

### Project Status Detail

Question	Answer
1. Reporting Timeframe (Q1 (Oct-Dec), Q2 (Jan-Mar), Q3 (Apr-June), Q4 (July-Sept):	Q3 (April-June 30, 2010)
2. Amount expended this time period:	\$2,359.75 dollars expended.
3. Subcontracts or subgrants awarded this period:	Prime contractor selected as well as subcontractor. Natural Resource Consulting-Selected as Prime Contractor (Providing all

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Question	Answer
	consulting services except those by the selected subcontractor. Shaw Group, Inc. ? Selected as Subcontractor (providing modeling services)
4. Number work hours created or maintained to date:	No new jobs created or retained by this grant. All work conducted by consulting agencies. Work conducted by the Sheboygan River Basin Partnership including Grant Administration is volunteer.
5. Work accomplished this reporting period:	Project kickoff meeting with SRBP and contractors. Notified municipalities and stakeholders about the project and schedule. Acquired and organized existing datasets. Prepared watershed boundary and determining the extent of subwatersheds Acquired 10m Digital Elevation Model from U.S. Department of Agriculture. Used ArcGIS Spatial Analyst hydrologic modeling tools to update watershed boundaries. Obtained LiDAR data from Sheboygan County GIS Department. Contacted municipalities requesting meeting to explain project and any available information from previous modeling in watershed.
6. Work goals for coming reporting period:	Coordinate stakeholder activities. Obtain and review municipality stormwater plans and modeling. Complete stakeholder meeting.
7. Overall project status:	Project is underway. Project is approximately 25% complete and reflected in June 2010 billings.
8. WDNR Question: Job equivalent Created	None known

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
LAST, LAUREL L	COORDINATOR	ACTIVE	04/06/2010		Wisconsin DNR	
PAPPAS, VICTOR C	SUPERVISOR	ACTIVE	10/03/2009	12/31/2099	Wisconsin DNR	
Sheboygan River Basin Partn	GRANT_RECIPII	ACTIVE	10/03/2009		Sheboygan River Basin Partnership	

### Actions

Action	Detailed Description	Start Date	End Date	Status
Urban Growth Planning		10/03/2009	12/31/2099	PROPOSED
Survey Watershed (Status, Sources, Impairments)		10/03/2009	12/31/2099	PROPOSED

### Monitoring Stations

Station I	Name	Comments
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### Assessment Units

WBIC	Segment	Local Name	Official Name
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### Lab Account Codes

Account Code	Description	Start Date	End Date
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### Forms

Form Code	Form Name
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### Methods

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**Method Code**                      **Description**

### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
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### Documents

Title	Description	Author	Published	Comments
ARRA 14 Sheboygan River Basin Partnership Willow Creek Contract		WDNR	10/29/2009	
ARRA 14 Sheboygan River Basin Partnership Willow Creek Project Description		WDNR	05/23/2009	
ARRA_14_Q2FFY10_Report		WDNR	04/28/2010	

### Budget

Code	Description	Quantity	Units	Unit Cost	Total Cost
FTE	FTE Hours		Hours	\$0.00	\$0.00
LTE SAL	LTE Salary		Hours	\$13.00	\$0.00
LTE FR	LTE Fringe				\$0.00
LTE IND	LTE Indirect				\$0.00
LTE TOT	LTE Total Cost				\$0.00
SUPPLY	Supplies				\$0.00
MILEAGE	Mileage		Miles	\$0.72	\$0.00
MEAL	Meals		Meals	\$9.00	\$0.00
LODGE	Lodging				\$0.00
TRAVEL	Travel Total				\$0.00
BUG	Bug Contracts				\$0.00
OTHER	Other Contracts	1		\$25,500.00	\$25,500.00
EQUIP	Equipment				\$0.00
USGS	USGS Costs				\$0.00
<b>TOTAL</b>	<b>Total Cost (excludes SLOH)</b>				<b>\$25,500.00</b>

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
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**Total SLOH Lab Costs:** \$0.00