

Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: WCR_07_CMP09

Name: Mill Creek SWAT Modeling (1398600) WCR_07_09

Type: TMDL/303d Projects

Subtype: Refine Load Estimates

Status: COMPLETE

Start Date: 7/1/2008

End Date: 6/30/2010

Purpose: UWSP will develop a SWAT watershed model for the Mill Creek watershed located in Central Wisconsin. Mill Creek is on the state 303d list of impaired waters for excessive nutrients and DO problems. The SWAT and Snap-Plus models will be used to link land use in the watershed to water quality in the stream. The model will be developed using land use and water quality monitoring data to provide citizens and agencies necessary information to develop a TMDL

Objective: During 2001-2002 DNR staff conducted extensive water quality monitoring in the Mill Creek watershed, including continuous flow monitoring and grab water sampling consistent with DNR TMDL monitoring guidance. One remaining component to complete the TMDL is to develop a SWAT model that links land use with water quality. The purpose of this project is to contract with UWSP to develop a SWAT model for the Mill Creek watershed.

Comments: Project Category 4: New Projects

Outcome: The project outcome is a functioning SWAT model for Mill Creek and a final report summarizing model setup and management scenarios. Specific details of the project will be incorporated in the contract with UWSP. Once the SWAT modelling is complete, the information will be used to complete a TMDL for Mill Creek.

Study Design:

QA Measures:

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
SCHREIBER, KENNETH W	COORDINATOR	ACTIVE	7/1/2008	6/30/2010		

Project Statuses			
Date	Reported By	Status	Comments
3/18/2008	KENNETH SCHREIBER	Proposed	
11/2/2010	MOLLI MACDONALD	Active	Submitted via email by Ken Schreiber: This is an ongoing modeling effort being done by UWSP. No report available yet.
11/4/2010	KENNETH SCHREIBER	Progress: 50-75% Complete	Project is scheduled to be completed by June 30, 2011
7/5/2011	KENNETH SCHREIBER	Progress: 75-100% Complete	Contract has been extended to end of July 2011

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6/19/2012	MOLLI MACDONALD	Complete	<p>Project continued in FY 2011 as Mill Creek SWAT Modeling (1398600)- WCR 8_11.</p> <p>Pat Oldenburg: There was some review work on the UWSP report by Adam Friehoeffer and Theresa Nelson fall of 2011 before Ken Schreiber retired. Not sure if he closed out the modeling contract or not. Other than any finalization of that report, we likely won't be doing anything much with a Mill Creek TMDL until we do the bigger TMDL.</p> <p>From Adam Friehoeffer: Theresa and I reviewed UWSP's Mill Creek document prior to Ken's departure and noted that we will likely have more questions for Paul / UWSP when we begin modeling the entire Upper Wisconsin (including Mill Creek) for the TMDL. At this point, I don't think we want to use the UWSP model to address the Mill Creek impairment / TMDL allocations since we will be doing our own modeling of the entire system. My recommendation is that we use the same model (i.e. DNRs) for the dealing with all the TMDLs in the basin and use the UWSP model to validate our conceptualization, etc.</p>
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Actions

Action	Detailed Description	Start Date	End Date	Status
Monitor Watershed (Status,Sources,Impairments)	Lower East Branch Pecatonica Watershed assessment (surveyed in 07/08). UWSP will develop a SWAT watershed model for the Mill Creek watershed located in Central Wisconsin. Mill Creek is on the state 303d list of impaired waters for excessive nutrients and DO problems. The SWAT and Snap-Plus models will be used to link land use in the watershed to water quality in the stream. The model will be developed using land use and water quality monitoring data to provide citizens and agencies necessary information to develop a TMDL.	7/1/2009	6/30/2010	COMPLETE

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
897800	1	E. Br. Pecatonica River	East Branch Pecatonica River

Lab Account Codes

Account Code	Description	Start Date	End Date
WT098	WATER QUALITY SPECIAL PROJECTS	7/1/2008	6/30/2009

Forms

Form Code	Form Name
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Methods

Method Code	Method Description
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Fieldwork Events

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Start Date	Status	Field ID	Station ID	Station Name
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Documents

Title	Description	Author	Published	Comments
MILL CREEK SWAT MODELING BUDGET		Schreiber		

Budget

Budget Description: Budget for Mill Creek SWAT Modeling (1398600) WCR_07_09	Start Date: 7/1/2008	End Date: 6/30/2010
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
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				\$0.00	
EQUIP	Equipment				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$0.00	

Total WSLH Lab Costs:	\$0.00
Total Budget:	\$0.00

Combined Budgets:	\$0.00
Combined WSLH:	\$0.00
Combined Total:	\$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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