

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: Becky Creek TMDL
Name: Becky Creek TMDL
Type: TMDL/303d Projects
Subtype: Implement TMDL
Status: ACTIVE
Start Date: 07/01/2005
End Date: 07/01/2099
Purpose: Becky Creek is a cold water stream that flows out of the Blue Hills in the northwest portion of the Soft Maple and Hay Creek Watershed. Becky Creek is 8.0 miles in length with a drainage area of 10.74 sq.miles. Its designated use is a coldwater fishery for its entire length. The mouth of Becky Creek is located in northeast Atlanta Township with its headwaters located in southern Murry Township. The creek flows directly into the Chippewa River. Becky Creek's watershed does not include any Indian County.

Objective: Becky Creek is located within one of 11 subwatersheds that make up the Soft Maple and Hay Creek Priority Watershed. In the management plan for the priority watershed project, stream bank pasturing, county and township road maintenance and construction, riparian habitat degradation, upland sediment delivery, manure and nutrient runoff are identified in the watershed plan as sources of pollutants impacting Becky Creek. Sediment may effect the fish community in a variety of ways that are deemed objectionable. In the downstream segment, mile 0 to mile 1.0, the sedimentation has reduced the depth of the water. This often causes the stream to widen, causing more sediment to enter the stream. The wide and shallow stream cross section allows more sunlight to enter the stream, elevating the temperature to where it may have a detrimental effect on the coldwater trout fishery. The substrate also does not provide suitable conditions for spawning and deeper, cooler holes are filled and lost. In addition, the eroding banks eliminate shading, food sources and cover. The loss of overhanging grasses eliminates the stream's natural capacity to trap sediment along its edges and naturally narrow and deepen the water. In the impaired segment near mile 4.6, the trampled banks cause similar effects on the fish community, including making the stream wider, shallower and warmer. Presently, one mile of Becky Creek is classified as a Class I cold water stream with the remainder being class III. Although class I, class II and class III trout fisheries all fall within the coldwater designated use, in the early 1980's the entire length of Becky Creek was considered a class I trout fishery.

Outcome: Specific to this TMDL, Becky Creek is part of a larger watershed project, the Soft Maple and Hay Creek Priority Watershed Project. As part of a financing plan for priority watershed projects, long-term state cost-sharing and local staff funding was committed to the Soft Maple and Hay Creek Priority Watershed Project. The Becky Creek priority watershed plan also contains critical site enforcement requirements.

Study Design: As described in the Soft Maple and Hay Creek Priority Watershed Plan, three trampled stream bank sites on Becky Creek were designated as critical sites. The owners of these lands are required to install best management practices to control these trampled sites. A copy of the watershed plan is attached to the TMDL.

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
AARTILA, THOMAS P	SUPERVISOR	ACTIVE	07/01/2005	07/01/2099	Wisconsin DNR	
KIRSCH, KEVIN J	TEAM_MEMBER	ACTIVE	07/01/2005	07/01/2099	Wisconsin DNR	
Roesler, Craig P	PROJECT_MAN	COMPLETE	07/01/2014	07/01/2014	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
07/16/2014	Lisa Helmuth	Progress: 75-100% Complete	TMDL Approved, not implemented.

Actions

Action	Detailed Description	Start	End Date	Status
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Action	Detailed Description	Start	End Date	Status
TMDL Implementation	<p>Becky Creek is a cold water stream that flows out of the Blue Hills in the northwest portion of the Soft Maple and Hay Creek Watershed. Becky Creek is 8.0 miles in length with a drainage area of 10.74 sq.miles. Its designated use is a coldwater fishery for its entire length. The mouth of Becky Creek is located in northeast Atlanta Township with its headwaters located in southern Murry Township. The creek flows directly into the Chippewa River. Becky Creek's watershed does not include any Indian County . Becky Creek is located within one of 11 subwatersheds that make up the Soft Maple and Hay Creek Priority Watershed. In the management plan for the priority watershed project, stream bank pasturing, county and township road maintenance and construction, riparian habitat degradation, upland sediment delivery, manure and nutrient runoff are identified in the watershed plan as sources of pollutants impacting Becky Creek.</p>	07/01/2005	07/01/2009	IN_PROGRESS
<p>Details: Parameter Total Phosphorus Total Suspended Solids</p>	<p>Value/Amount Units</p>		<p>Comments</p>	
TMDL (USEPA) Approved	<p>Becky Creek is a cold water stream that flows out of the Blue Hills in the northwest portion of the Soft Maple and Hay Creek Watershed. TMDL for sediment and temperature was approved in 9/05.</p>	09/27/2005	09/27/2005	COMPLETE
TMDL Development	<p>TMDL Development for Becky Creek for sediment and temperature impairments. Becky Creek is a cold water stream that flows out of the Blue Hills in the northwest portion of the Soft Maple and Hay Creek Watershed. Becky Creek is 8.0 miles in length with a drainage area of 10.74 sq.miles. Its designated use is a coldwater fishery for its entire length.</p>	09/27/2005	09/27/2005	COMPLETE
TMDL Implementation	<p>In the management plan for the priority watershed project, stream bank pasturing, county and township road maintenance and construction, riparian habitat degradation, upland sediment delivery, manure and nutrient runoff are identified in the watershed plan as sources of pollutants impacting Becky Creek. This information will be used for implementation of the TMDL.</p>	09/27/2005	07/01/2009	IN_PROGRESS
	<p>Implementation Plan is needed.</p>			

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Monitor or Propose 303(d) Listing	<p>Becky Creek assessment in 2009 included the following components:</p> <ul style="list-style-type: none"> - Continuous temperature monitoring at a site upstream of the impaired segment and a site within the impaired segment. - Fish community surveys of a 300 meter section within the impaired segment, and a 300 meter section upstream of the impaired segment. - Macroinvertebrate samples at a site upstream of the impaired segment and a site within the impaired segment. - Stream width and depth measurements of the upper 634 meters of the impaired segment, and an 823 meter segment upstream of the impaired segment. - A count of woody stems near the streambank in the upper 634 meters of the impaired segment (the formerly pastured area). - Photos of the stream channel in the impaired segment at 6 locations in 2009 and 2010. - Streamflow measurements at multiple sites on one date to assess the distribution of groundwater inputs. <p>Other existing data for Becky Creek was also reviewed and incorporated into this report.</p>	05/01/2009	09/01/2009	COMPLETE

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
1933100	1	Un Lake	Unnamed
1933200	1	Un Lake	Unnamed
1933300	1	Un Lake	Unnamed
1933500	1	Un Lake	Unnamed
2050000	9	Chippewa River	Chippewa River
2050000	11	Chippewa River	Chippewa River
2152600	1	Chippewa Falls Flowage	Chippewa Falls Flowage 5555
2369600	1	Becky Creek	Becky Creek
2369600	2	Becky Creek	Becky Creek
2369700	1	Local Water	Unnamed
2370100	1	Clear Creek	Clear Creek
2370300	1	Unnamed Stream	Unnamed
5005083	1	Local Water	Unnamed
5005135	1	Unnamed	Unnamed
5005250	1	Unnamed Stream	Unnamed
5005252	1	Unnamed Stream	Unnamed
5005264	1	Unnamed Stream	Unnamed

Wisconsin Department of Natural Resources SWIMS Project Summary

WBIC	Segment	Local Name	Official Name
5005318	1	Unnamed Stream	Unnamed
5518136	1	Local Water	Unnamed
5519453	1	Local Water	Unnamed
5519785	1	Local Water	Unnamed
5520421	1	Local Water	Unnamed
5521453	1	Unnamed	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
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Methods

Method Code	Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
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Documents

Title	Description	Author	Published	Comments
Becky Creek (Rusk Co. 2369600) Impaired Waters Documentation 2010 Assessment	IW DOCUMENTATION - 2009-2010.	Craig Roesler	01/10/2011	
Becky Creek 2369600 Sediment TMDL	Final TMDL Report. Sediment TMDL for Becky Creek. Initial Draft October 11, 2004. Revised Draft March 29, 2005. Final July 1, 2005.	WDNR WES, Tmdl Swat Team	07/01/2005	
Becky Creek Photo	Becky Creek Photo	Roesler, Craig	03/27/2011	
USEPA Decision Document for the Approval of the BeckyCreek TMDL 2369600	'After a full and complete review, EPA finds that the TMDL for Becky Creek satisfies all of the elements of an approvable TMDL. This document addresses 1 TMDL for 1 waterbody for 1 pollutant addressing 2 impairments from the 2004 Wisconsin 303d list.'	USEPA	09/27/2005	

Budget

Combined Budgets:
Combined SLOH:
Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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