

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: WCR_05_CMP09
Name: Rush River Lake Pepin WCR_05_09
Type: Targeted Monitoring
Subtype: Special Project
Status: COMPLETE
Start Date: 08/29/2006
End Date: 04/01/2009
Purpose: The purpose of this project is to complete the second year of collecting water quality samples from the Rush River to be used in developing a land use model for the Lake Pepin TMDL. Lake Pepin is currently on Minnesota's 303d list for turbidity and phosphorus and is proposed to be added to the Wisconsin 303d list in 2008. Monitoring includes collection of water chemistry samples following TMDL monitoring technical guidance (WDNR 2001) for two years, including monthly sampling and storm chasing. Samples are collected by a local volunteer and lab parameters include total P, dissolved P, nitrate-nitrate N, total and volatile suspended solids and turbidity. Sampling began in October 2006 and will end in September 2008.

Objective: Collect water quality and flow data to use in developing a SWAT model for a Lake Pepin TMDL. Lake Pepin is on dissolved P, total suspended solids and turbidity. Sampling will begin in October 2006 and end in September 2007. Minnesota's 303d list (turbidity, phosphorus) and is proposed for Wisconsin. A stakeholder and technical support groups have been formed and have been meeting for over a year to develop the TMDL.

Comments: Monitoring will include establishing a USGS flow monitoring station and collection of water chemistry samples. Samples will be collected by WDNR staff following the TMDL monitoring technical guidance (WDNR 2001) for one year, including monthly sampling and storm chasing. Water quality parameters will include total P, Assessment Unit: 13342

Outcome: Water quality samples will be collected from Oct. 2006 to Sept. 2007. Data from this effort will be used to calibrate a SWAT model for the Rush River watershed. The University of Minnesota will contract with the Minnesota Pollution Control Agency to develop the SWAT model. This calibrated model, in conjunction another being done for the Wells Creek watershed in Minnesota, will form the basis for the nonpoint source portion of the TMDL for the driftless area directly tributary to Lake Pepin. Scheduled completion date of the TMDL is April 2009.

Study Design:
QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
HILLMAN, LACEY C	TEAM_MEMBER	ACTIVE	09/22/2006		Wisconsin DNR	
Kleinhans, James	TEAM_MEMBER	ACTIVE	09/22/2006		Pierce County LCD	
SCHREIBER, KENNETH W	COORDINATOR	ACTIVE	09/12/2006			

Project Statuses

Date	Reported By	Status	Comments
10/26/2010	KENNETH SCHREIBER	Complete	Flow monitoring and water sampling was completed in September 2008. Data was provided to MPCA for use in developing Lake Pepin TMDL.

Actions

Action	Detailed Description	Start	End Date	Status
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Action	Detailed Description	Start	End Date	Status
TMDL Monitoring	The purpose of this project is to complete the second year of collecting water quality samples from the Rush River to be used in developing a land use model for the Lake Pepin TMDL. Lake Pepin is currently on Minnesota's 303d list for turbidity and phosphorus and is proposed to be added to the Wisconsin 303d list in 2008. Monitoring includes collection of water chemistry samples following TMDL monitoring technical guidance (WDNR 2001) for two years, including monthly sampling and storm chasing. Samples are collected by a local volunteer and lab parameters include total P, dissolved P, nitrate-nitrate N, total and volatile suspended solids and turbidity. Sampling began in October 2006 and will end in September 2008.	08/29/2006	04/01/2009	COMPLETE

Details:	Parameter	Value/Amount	Units	Comments
	Temperature			
	Total Nitrogen			
	Total Phosphorus			
	Total Suspended Solids			

Monitoring Stations

Station ID	Name	Comments
483080	Rush River - 385th St.	

Assessment Units

WBIC	Segment	Local Name	Official Name
720950	1	Mississippi Backwater (T25n R18w S30-01)	Unnamed
721000	1	Mississippi (Reach 1) Rush-Vermillion - St. Croix R to Chippewa R(Pools 3- lower Pool 4, Lake Pepin)	Mississippi River
731800	1	Lake Pepin	Lake Pepin
732000	1	Mississippi backwater	Lily Pond
732200	1	Mississippi Backwater	Dead Slough Lake
732300	1	Mississippi backwater	Goose Lake
732375	1	Mississippi Backwater	Unnamed
732400	1	Mississippi backwater	Lake Pepin - Dead Slough
732600	1	Mississippi backwater	Mud Lake
733000	1	Mississippi Backwater	Unnamed
733200	1	Mississippi backwater	Gantenbein Lake
1888600	1	Mississippi Backwater near Bay City	Unnamed
1888700	1	Lake Adjacent to Mississippi Backwater in Bay city	Unnamed
1888800	1	Mississippi Backwater near Hagar City	Unnamed
1888900	1	Mississippi Backwater near Mud Lake	Unnamed
1889000	1	Mississippi Backwater near Goose Lake	Unnamed
1889400	1	Mississippi backwater near Diamond Bluff	Unnamed
1889500	1	Mississippi Backwater near Gantenbein Lake	Unnamed
1889600	1	Mississippi backwater near Gantenbein Lake	Unnamed

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WBIC	Segment	Local Name	Official Name
1889700	1	Mississippi backwater (Trenton Slough)	Unnamed
1890300	1	Un Lake Adjacent Big River, Mississippi River and RR	Unnamed
1890400	1	Mississippi Backwater Adjacent Big River and RR	Unnamed
1890500	1	Un Lake Adjacent Mississippi River near Prescott	Unnamed
2043200	1	Mississippi Backwater near Bay City	Un Spring
2043300	1	Mississippi Backwater near Goose Lake	Un Spring
2051300	2	Plum Creek	Plum Creek
2051300	4	Plum Creek	Plum Creek
2051300	5	Plum Creek	Plum Creek
2051300	6	Plum Creek	Plum Creek
2051500	2	Porcupine Creek	Porcupine Creek
2051900	1	Elk Creek	Elk Creek
2051900	2	Elk Creek	Elk Creek
2052400	1	Creek 2-15 (Brunner Valley)	Unnamed
2052400	2	Creek 2-15 (Brunner Valley)	Unnamed
2052700	1	Creek 34-3 T25n R15w	Unnamed
2052700	2	Creek 34-3 T25n R15w	Unnamed
2052800	1	Stream 22-12 (Rush Coulee)	Unnamed
2052800	2	Creek 22-12 T25n R15w	Unnamed
2052850	1	Creek 22-11 T25n R15w	Unnamed
2053200	1	Stream 10-8 (T25N, R15W)	Unnamed
2053200	2	Stream 10-8 (T25N, R15W)	Unnamed
2053250	1	Stream 3-7	Unnamed
2053400	1	Nugget Lake	Nugget Lake
2053500	1	Rock Elm Creek	Rock Elm Creek
2055000	2	Eau Galle River	Eau Galle River
2055000	3	Eau Galle River	Eau Galle River
2055000	4	Eau Galle River	Eau Galle River
2055700	3	Missouri Creek	Missouri Creek
2056300	1	Creek 24-13	Unnamed
2056325	1	Creek 234d	Unnamed
2058000	1	Cady Creek	Cady Creek
2058000	2	Cady Creek	Cady Creek
2058800	1	Creek 35-15 (T27n R15w) Porter Creek	Unnamed
2058800	2	Creek 35-15 (T27n R15w) Porter Creek	Unnamed
2058900	1	Creek 27-16 T27n R15w	Unnamed
2059400	1	Burkart Creek	Burkart Creek
2059600	1	Mines Creek	Mines Creek
2059600	2	Mines Creek	Mines Creek
2059650	1	Creek 1-16 (T27N, R16W)	Unnamed
2059800	1	Lake George	Lake George
2440000	1	Pine Creek	Pine Creek
2440000	2	Pine Creek	Pine Creek
2440000	3	Pine Creek	Pine Creek
2440100	1	North Branch Pine Creek	North Branch Pine Creek
2440100	2	North Branch Pine Creek	North Branch Pine Creek

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WBIC	Segment	Local Name	Official Name
2440300	1	Rush River	Rush River
2440300	3	Rush River	Rush River
2440300	5	Rush River	Rush River
2440500	1	Crystal Spring Creek	Unnamed
2440700	1	Morgan Coulee Creek	Unnamed
2440700	2	Morgan Coulee Creek	Unnamed
2441000	1	Foley Branch	Foley Br
2441700	1	Lost Creek	Lost Creek
2441700	2	Lost Creek	Lost Creek
2442000	1	Brush Creek	Brush Creek
2442100	1	Cave Creek	Cave Creek
2442100	2	Cave Creek	Cave Creek
2442100	3	Cave Creek	Cave Creek
2443000	1	Creek 5-5 (T26n R16w)	Unnamed
2443200	1	Creek 32-7 T27n R16w Coulee Creek	Unnamed
2443200	2	Creek 32-7 T27n R16w Coulee Creek	Unnamed
2443200	3	Creek 32-7 T27n R16w Coulee Creek	Unnamed
2443300	1	Gilman Creek T27n R16w S19	Gilman Creek
2443300	2	Gilman Creek T27n R16w S19	Gilman Creek
2445000	1	Isabelle Creek	Isabelle Creek
2445000	2	Isabelle Creek	Isabelle Creek
2445000	3	Isabelle Creek	Isabelle Creek
2445000	4	Isabelle Creek	Isabelle Creek
2445000	5	Isabelle Creek	Isabelle Creek
2445000	7	Isabelle Creek	Isabelle Creek
2445000	8	Isabelle Creek	Isabelle Creek
2445000	9	Isabelle Creek	Isabelle Creek
2445000	10	Isabelle Creek	Isabelle Creek
2445200	1	Jackson Bluff Creek	Jackson Bluff Creek
2445400	1	Un Spring Adjacent to Isabelle Creek and 620th ave.	Un Spring
2446300	1	Un Lake Adjacent Mississippi River near Bay City	Unnamed
2446800	1	Mississippi Backwater	Unnamed
2446900	1	Mississippi Backwater near mouth of Trimbelle	Unnamed
2447000	1	Trimbelle River	Trimbelle River
2447000	2	Trimbelle River	Trimbelle River
2447000	3	Trimbelle River	Trimbelle River
2447000	4	Trimbelle River	Trimbelle River
2447000	5	Trimbelle River	Trimbelle River
2447100	1	Little Trimbelle Creek	Little Trimbelle Creek
2447100	2	Little Trimbelle Creek	Little Trimbelle Creek
2447100	3	Little Trimbelle Creek	Little Trimbelle Creek
2447200	1	Spring Creek	Spring Creek
2447200	2	Spring Creek	Spring Creek
2447250	1	Unnamed Creek 16-10	Unnamed
2447270	1	Creek 16-2	Unnamed
2447300	1	Goose Creek	Goose Creek
2447400	1	Wind River	Wind River

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WBIC	Segment	Local Name	Official Name
2447400	2	Wind River	Wind River
2447600	1	Big River	Big River
2447600	2	Big River	Big River
2447600	3	Big River	Big River
2447600	4	Big River	Big River
2447700	1	Dry Run Coulee	Unnamed
2447900	1	Unnamed Creek (T26n R20w S14)	Unnamed
2503600	1	Local Water	Unnamed
2601400	1	St Croix River	Saint Croix River
2601500	1	St. Croix Lake	Lake Saint Croix
2601500	2	Kinnickinnic SP, Lake Saint Croix	Lake Saint Croix
2601800	1	Kinnickinnic River	Kinnickinnic River
2601800	4	Kinnickinnic River	Kinnickinnic River
2601800	6	Kinnickinnic River	Kinnickinnic River
2602200	1	Creek 10-11(T27n R19w)	Unnamed
2602400	1	Rocky Branch(Rocky Brook)(Creek 11-3)	Rocky Run
2602500	1	Creek 12-11 (T27N, R19W)	Unnamed
2602800	1	Creek 2-16 T27n R19w	Unnamed
2603000	1	Lower Kinnickinnic Pond	Kinnickinnic Pond, Lower
2603100	1	South Fork Kinnickinnic River	South Fork Kinnickinnic River
2603200	1	Creek 7-1 T27n R18w	Unnamed
2603200	2	Creek 7-1 T27n R18w	Unnamed
2603500	1	Unnamed T27n, R18w, S10&11	Unnamed
2603700	1	Kinnickinnic Pond	Kinnickinnic Pond, Upper
3000357	1	Creek 9-12 T26n R16w	Unnamed
3000365	1	Creek 9-15b T27n R19w	Unnamed
3000366	1	Creek 8-13 T27n R19w	Unnamed
3000367	1	Creek 8-11 T27n R19w	Unnamed
3000368	1	Creek 17-6 T27n R19w	Unnamed
3000369	1	Creek 9-15a T27n R19w	Unnamed
3000370	1	Creek 5-15 T27n R18w	Unnamed
3000372	1	Creek 33-3 T26n R16w	Unnamed
3000375	1	Creek 23-3 T27n R15w	Unnamed
5013251	1	Creek 2-3	Unnamed
5014378	1	Creek 3-7	Unnamed
5014502	1	Creek 3-7 (T25n R15w)	Unnamed
5016366	1	Pine Creek	Pine Creek
5016366	2	pine creek test	Pine Creek
5016871	1	Unnamed Creek 23-13D	Unnamed
5016902	1	Unnamed Creek 23-13C	Unnamed
5016903	1	Unnamed Creek 24-11	Unnamed
5539434	1	Local Water	Unnamed
5540087	1	Unnamed	Unnamed
5540244	1	Local Water	Unnamed
5540673	1	Sharp Muskrat Lake	Sharp Muskrat Lake
5540718	1	Twin Lakes	Twin Lakes

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WBIC	Segment	Local Name	Official Name
5540790	1	Twin Lakes	Twin Lakes
5540804	1	Local Water	Unnamed
5541277	1	North Lake	North Lake
5541646	1	Brewer Lake	Brewer Lake
5541733	1	Local Water	Unnamed
5542754	1	Impoundment on Un. Cr. near Trenton	Unnamed
5543545	1	Cannon Lake	Cannon Lake
5544149	1	Unnamed Lake	Unnamed
5544218	1	Unnamed Lake	Unnamed
5582104	1	Unnamed Lake	Grotes Pond
5584475	1	Unnamed Lake	Unnamed
5584587	1	Unnamed Lake	Unnamed
5584591	1	Pickereel Slough	Pickereel Slough
5584618	1	Upper Round Lake	Upper Round Lake
5589771	1	Sturgeon Lake	Sturgeon Lake

Lab Account Codes

Account Code	Description	Start Date	End Date
WT082	SPECIAL PROJECTS	07/01/2006	06/30/2007
WT086	TMDL MONITORING	10/01/2006	09/30/2007
WT089	SPECIAL PROJECTS	07/01/2007	06/30/2008
WT098	WATER QUALITY SPECIAL PROJECTS	03/03/2008	06/30/2009

Forms

Form Code	Form Name
CONTINUOUS	Continuous Data Upload
INORGANIC	Inorganic Lab - Field Data

Methods

Method Code	Description
DNR-FPM-2301	Open Channel Flow Measurement 1988
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
10/03/2006 10:20	COMPLETE	11960783	483080	Rush River - 385th St.
10/04/2006 12:21	COMPLETE	11960785	483080	Rush River - 385th St.
10/17/2006 07:30	COMPLETE	11960789	483080	Rush River - 385th St.
10/31/2006 07:30	COMPLETE	11960805	483080	Rush River - 385th St.
11/14/2006 07:30	COMPLETE	11960787	483080	Rush River - 385th St.
11/28/2006 07:30	COMPLETE	11960791	483080	Rush River - 385th St.
11/29/2006 07:35	COMPLETE	11960793	483080	Rush River - 385th St.
12/12/2006 07:30	COMPLETE	11960795	483080	Rush River - 385th St.
12/21/2006 15:00	COMPLETE	11960797	483080	Rush River - 385th St.
12/26/2006 07:30	COMPLETE	11960799	483080	Rush River - 385th St.

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Start Date	Status	Field ID	Station ID	Station Name
01/09/2007 07:30	COMPLETE	11960801	483080	Rush River - 385th St.
01/23/2007 07:40	COMPLETE	11960682	483080	Rush River - 385th St.
02/06/2007 07:30	COMPLETE	11960803	483080	Rush River - 385th St.
03/06/2007 07:30	COMPLETE		483080	Rush River - 385th St.
03/13/2007 07:50	COMPLETE		483080	Rush River - 385th St.
03/13/2007 12:30	COMPLETE	RR1	483080	Rush River - 385th St.
03/14/2007 07:45	COMPLETE		483080	Rush River - 385th St.
03/20/2007 07:40	COMPLETE		483080	Rush River - 385th St.
04/03/2007 07:50	COMPLETE		483080	Rush River - 385th St.
04/17/2007 07:45	COMPLETE		483080	Rush River - 385th St.
05/01/2007 07:40	COMPLETE		483080	Rush River - 385th St.
05/15/2007 07:30	COMPLETE		483080	Rush River - 385th St.
05/24/2007 07:50	COMPLETE		483080	Rush River - 385th St.
05/29/2007 07:50	COMPLETE		483080	Rush River - 385th St.
06/07/2007 07:50	COMPLETE		483080	Rush River - 385th St.
06/13/2007 07:45	COMPLETE		483080	Rush River - 385th St.
06/26/2007 07:40	COMPLETE	RR1	483080	Rush River - 385th St.
07/10/2007 07:40	COMPLETE	RR1	483080	Rush River - 385th St.
07/24/2007 07:40	COMPLETE	RR1	483080	Rush River - 385th St.
08/14/2007 07:30	COMPLETE	11960793	483080	Rush River - 385th St.
08/19/2007 09:30	COMPLETE	RR1	483080	Rush River - 385th St.
08/21/2007 07:40	COMPLETE	RR1	483080	Rush River - 385th St.
08/27/2007 14:30	COMPLETE	RR1	483080	Rush River - 385th St.
09/04/2007 08:00	COMPLETE	RR1	483080	Rush River - 385th St.
09/07/2007 13:10	COMPLETE	RR1	483080	Rush River - 385th St.
09/18/2007 17:20	COMPLETE	RR1	483080	Rush River - 385th St.
10/01/2007 07:45	COMPLETE	RR1	483080	Rush River - 385th St.
10/02/2007 17:45	COMPLETE	RR1	483080	Rush River - 385th St.
10/16/2007 17:10	COMPLETE	RR1	483080	Rush River - 385th St.
10/19/2007 17:30	COMPLETE	RR1	483080	Rush River - 385th St.
10/30/2007 07:30	COMPLETE	RR1	483080	Rush River - 385th St.
11/13/2007 07:40	COMPLETE	RR1	483080	Rush River - 385th St.
11/27/2007 07:45	COMPLETE	RR1	483080	Rush River - 385th St.
12/11/2007 07:40	COMPLETE	RR1	483080	Rush River - 385th St.
12/26/2007 08:00	COMPLETE	RR1	483080	Rush River - 385th St.
01/08/2008 07:50	COMPLETE	RR1	483080	Rush River - 385th St.
01/22/2008 08:00	COMPLETE	RR1	483080	Rush River - 385th St.
02/05/2008 17:25	COMPLETE	RR1	483080	Rush River - 385th St.
02/19/2008 07:45	COMPLETE	RR1	483080	Rush River - 385th St.
03/18/2008 07:40	COMPLETE	RR1	483080	Rush River - 385th St.
04/01/2008 08:00	COMPLETE	RR1	483080	Rush River - 385th St.
04/08/2008 08:15	COMPLETE	RR1	483080	Rush River - 385th St.
04/11/2008 08:30	COMPLETE	RR1	483080	Rush River - 385th St.
04/15/2008 07:50	COMPLETE	RR1	483080	Rush River - 385th St.
04/25/2008 09:40	COMPLETE	RR1	483080	Rush River - 385th St.
04/29/2008 07:50	COMPLETE	RR1	483080	Rush River - 385th St.
05/03/2008 10:20	COMPLETE	RR1	483080	Rush River - 385th St.
05/13/2008 07:45	COMPLETE	RR1	483080	Rush River - 385th St.

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Start Date	Status	Field ID	Station ID	Station Name
05/27/2008 07:50	COMPLETE	RR1	483080	Rush River - 385th St.
06/06/2008 08:00	COMPLETE	RR1	483080	Rush River - 385th St.
06/10/2008 07:45	COMPLETE	RR1	483080	Rush River - 385th St.
06/12/2008 07:40	COMPLETE	RR1	483080	Rush River - 385th St.
06/13/2008 18:00	COMPLETE	RR1	483080	Rush River - 385th St.
06/24/2008 07:40	COMPLETE	RR1	483080	Rush River - 385th St.
07/08/2008 07:40	COMPLETE	RR1	483080	Rush River - 385th St.
07/20/2008 07:00	COMPLETE	RR1	483080	Rush River - 385th St.
07/22/2008 07:40	COMPLETE	RR1	483080	Rush River - 385th St.
08/05/2008 08:10	COMPLETE	RR1	483080	Rush River - 385th St.
08/13/2008 11:00	COMPLETE	RR1	483080	Rush River - 385th St.
08/28/2008 11:15	COMPLETE	RR1	483080	Rush River - 385th St.
09/02/2008 18:00	COMPLETE	RR1	483080	Rush River - 385th St.
09/11/2008 15:30	COMPLETE	RR1	483080	Rush River - 385th St.
09/16/2008 07:40	COMPLETE	RR1	483080	Rush River - 385th St.
09/24/2008 07:45	COMPLETE	RR1	483080	Rush River - 385th St.
09/30/2008 07:40	COMPLETE	RR1	483080	Rush River - 385th St.

Documents

Title	Description	Author	Published	Comments
RUSH RIVER (LAKE PEPIN BASIN) 303D FY07 MONITORING PROPOSAL	Monitoring proposal	Schreiber, Kenneth	11/12/2006	
RUSH RIVER PROJECT DESCRIPTION 2008	reference to project description for year two.	Schreiber, Ken	08/13/2008	
RUSH RIVER, LAKE PEPIN FY08 MONITORING STUDY Proposal and Budget	MONITORING PROPOSAL FY08	Schreiber, Ken	07/01/2007	
Rush Creek Map of Stations Tributary to Lake Pepin	Rush Creek Map of stations RUSH CREEK MAP OF STATIONS TRIBUTARY TO LAKE PEPIN	Helmuth, Lisa	11/12/2006	map

Budget

Combined Budgets:

Combined SLOH:

Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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