Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: North_TWA_1_2016

Name: Black River Targeted Watershed Assessment, Douglas County

Type: Targeted Watershed Approach

Subtype: Evaluation (TP SSC, Stressor, Bioassess)

Status: COMPLETE

Start Date: 07/01/2016

End Date: 06/30/2017

Purpose: The Black River and Little Black River in Douglas County were monitored to further document their high quality. The watershed is 94.4% undeveloped. Pattison State Park and Pattison Falls, Wisconsin's highest waterfall are located on the river. Three sites on the Black River and one site on the Little Black River have excellent IBI's for both fish and macroinvertebrate communities. They appear to be excellent candidates for applying the proposed protection tier for tiered aquatic life uses (TALU). HUC12s include 040103010302, 040103010303, 040103010304.

Read the Black and Little Black Targeted Watershed Assessment: A Water Quality Plan to Protect Wisconsin Watersheds

Objective: Project need, management questions, and specific information from sites to be addressed are described in the purpose section above. There are 8 sample sites, the Black River WBIC is 2836900, the Little Black River WBIC is 2839900.

Comments:

Outcome: 1. There are 8 sample sites
2. There will be 4 sampling events in FY16 and 9 sampling events in FY17.
3. Sample collection completion date is November 30, 2016.
4. Can't predict when all data will be entered in database due to uncertainty of when macroinvertebrate analyses by lab will be done. Could be late in 2017.
5. Final report possible by May 15, 2017, but depends on macroinvertebrate analyses timeline.
6. Data bases to be used for data storage are SWIMS and FHDB.
7. Person responsible for data entry is Craig Roesler.

Study Design: Fish surveys, macroinvertebrate samples, qualitative habitat assessments, and water quality data will be collected from 8 sites (see map in documents section). Water quality data will include nutrients, TSS, and field parameters - temp, DO, pH, cond., transp., flow. The Black River site near the mouth will have 6 monthly (May-Oct) samples collected for nutrients and TSS, along with field parameters. Six sites are on the Black River and two sites are on the Little Black River. One diatom sample will be tested from the near-mouth site on the Black River. Craig Roesler will be the lead biologist for the project. Five sites have established SWIMS no.'s. Three additional sites have been identified, and will have SWIMS no.'s assigned after they are field verified.

QA Measures: Standard DNR protocols will be followed.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
AARTILA, THOMAS P	SUPERVISOR	ACTIVE	12/18/2019		Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	ACTIVE	11/23/2019		Wisconsin DNR	
Roesler, Craig P	PROJECT_LEAD	COMPLETE	07/01/2016	06/30/2017	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
12/18/2016	Lisa Helmuth	Active	
12/18/2019	Lisa Helmuth	Progress: 75-100% Complete	
12/18/2019	Lisa Helmuth	Final Report Needed	
03/16/2020	Lisa Helmuth	Public Comment Period	

Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	

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Question	Answer
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	
3. Proposed Dates for Sample Collection	
4. List applicable databases and who will enter data?	
5. Did you receive competitive projects funding in the previous year?	
6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not?	
7. Reviewer Notes: Identify questions or issues with project (use during review period)	
8. Reviewer Decision: Is this project recommended for funding?	

Actions

Action	Detailed Description	Start	End Date	Status
Monitor Targeted Watershed Area (TWA)	The Black River and Little Black River in Douglas County will be monitored to further document their high quality. The watershed is 94.4% undeveloped. Pattison State Park and Pattison Falls, Wisconsin's highest waterfall are located on the river. Three sites on the Black River and one site on the Little Black River have excellent IBI's for both fish and macroinvertebrate communities. They appear to be excellent candidates for applying the proposed protection tier for tiered aquatic life uses (TALU). HUC12s include 040103010302, 040103010303, 040103010304.	07/01/2016	06/30/2017	COMPLETE

Details:	Parameter	Value/Amount	Units	Comments
	Degraded Biological Community Report Writeup			
	Total Nitrogen			
	Total Phosphorus			
	Total Suspended Solids			

Natural Community Review or Change	10048235		12/12/2018	COMPLETE

Monitoring Stations

Station ID	Name	Comments
10010190	Black River - Black River 10 M Upstream Of Foxboro-Chaffey Rd.	
10010225	Black River - Black River Upstream Of Milchesky Rd.	
10030272	Black River - upstream of bridge at end of Finn Rd.	
10047674	Black River 0.42 miles upstream of mouth	
10047036	Black River 10m US canoe take-out at Pattison Park	
10039686	Black River 1mi W of STH 35 and Manitou Valley Rd	
10046990	Black River 25 m US Dietz Rd	
10046991	Black River 410 m DS of STH 35	
10010194	Little Black River - Little Black River 27 M Upstream Of Foxboro-Chaffey Rd.	
10041728	Miller Creek at CTH B culvert	
10041750	Miller Creek at Polish Road	

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Station ID	Name	Comments
10043086	Rock Creek - Manisky Rd	
10043087	Rock Creek- RR trestle	
10021341	Station 1: 19 Meters Upstream Of Cty B Culvert	

Assessment Units

WBIC	Segment	Local Name	Official Name
2836900	1	Black River	Black River
2836900	2	Black River	Black River
2837000	1	Miller Creek	Miller Creek
2837000	2	Miller Creek	Miller Creek
2837300	1	Rock Creek	Rock Creek
2839900	1	Little Black River	Little Black River

Lab Account Codes

Account Code	Description	Start Date	End Date
WQ002	TARGETED WATERSHED ASSESSMENTS	03/26/2014	12/31/2099

Forms

Form Code	Form Name

Methods

Method Code	Description
DNR-FPM-1001.3	Benthic Invertebrate D-Frame Net, Kick Samples 1988
DNR-FPM-2201	Conductivity Instantanenous Field Meters 1993
DNR-FPM-2010, D.O. METER	Dissolved Oxygen Digital Instantanenous Field Meters 1995
ELECTROFISHING: BACKPACK SHOCKER	Electrofishing: Backpack Shocker
ELECTROFISHING: STREAM SHOCKER	Electrofishing: Stream Shocker
SP-004	Electroshock Fish Survey Procedure
DNR-FPM 3002 GLOBAL POSITIONING SYSTEM (GPS)	Global Positioning System (GPS)
DNR-FPM 2301 OPEN CHANNEL FLOW MEASUREMENT	Open Channel Flow Measurement
DNR-FPM 1003 PERIPHYTON SAMPLING AND ANALYSIS	Periphyton Sampling and Analysis
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005
DNR-FPM-2001, PH METERS	pH Digital Instantaneous Field Meters 1993

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
05/11/2016	COMPLETE	20161006-16-01	10047674	Black River 0.42 miles upstream of mouth
05/11/2016	COMPLETE	BL-1	10047674	Black River 0.42 miles upstream of mouth
05/31/2016	COMPLETE	HOBO	10046991	Black River 410 m DS of STH 35
05/31/2016	COMPLETE	HOBO	10010190	Black River - Black River 10 M Upstream Of Foxboro-Chaffey Rd.
05/31/2016	COMPLETE	HOBO	10010194	Little Black River - Little Black River 27 M Upstream Of Foxboro-Chaffey Rd.
05/31/2016	COMPLETE	HOBO	10010225	Black River - Black River Upstream Of Milchesky Rd.
05/31/2016	COMPLETE	HOBO	10039686	Black River 1mi W of STH 35 and Manitou Valley Rd

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Start Date	Status	Field ID	Station ID	Station Name
05/31/2016	COMPLETE	HOBO	10047036	Black River 10m US canoe take-out at Pattison Park
06/07/2016 10:00	COMPLETE	BL-3	10047674	Black River 0.42 miles upstream of mouth
06/07/2016 13:00	COMPLETE	LB-4	10010194	Little Black River - Little Black River 27 M Upstream Of Foxboro-Chaffey Rd.
07/25/2016 10:00	COMPLETE	BL-1	10047674	Black River 0.42 miles upstream of mouth
08/09/2016 10:00	COMPLETE	BL-1	10047674	Black River 0.42 miles upstream of mouth
08/15/2016 10:00	COMPLETE	BL-D	10046990	Black River 25 m US Dietz Rd
08/15/2016 13:00	COMPLETE	BL-35	10046991	Black River 410 m DS of STH 35
08/30/2016 10:00	COMPLETE	BL-M	10010225	Black River - Black River Upstream Of Milchesky Rd.
08/30/2016 13:00	COMPLETE	BL-P	10047036	Black River 10m US canoe take-out at Pattison Park
09/01/2016 10:00	COMPLETE	BL-1	10047674	Black River 0.42 miles upstream of mouth
09/14/2016 09:00	COMPLETE	BL-MV	10039686	Black River 1mi W of STH 35 and Manitou Valley Rd
09/14/2016 11:00	COMPLETE	BL-1	10047674	Black River 0.42 miles upstream of mouth
10/06/2016	COMPLETE	20161006-16-02	10039686	Black River 1mi W of STH 35 and Manitou Valley Rd
10/06/2016	COMPLETE	20161006-16-03	10047036	Black River 10m US canoe take-out at Pattison Park
10/06/2016	COMPLETE	20161006-16-04	10010225	Black River - Black River Upstream Of Milchesky Rd.
10/10/2016	COMPLETE	20161010-16-03	10046991	Black River 410 m DS of STH 35
10/10/2016 13:00	COMPLETE	BL-1	10047674	Black River 0.42 miles upstream of mouth
10/13/2016	COMPLETE		10046990	Black River 25 m US Dietz Rd
10/13/2016	COMPLETE		10010194	Little Black River - Little Black River 27 M Upstream Of Foxboro-Chaffey Rd.

Documents

Title	Description	Author	Published	Comments
Black R E Foxboro Chaffey Rd	Black R E Foxboro Chaffey Rd	Roesler, Craig	12/18/2019	
Black R Malchesky Rd (2) 20161006	20161006_Black R Malchesky Rd (2)	Roesler, Craig	12/18/2019	
Black R Malchesky Rd 20161006	20161006_Black R Malchesky Rd	Roesler, Craig	12/18/2019	
Black R Mantiou Valley Site	Black R Mantiou Valley Site	Roesler, Craig	12/18/2019	
Black R. HWY 35 US view	Black R. HWY 35 US view	Roesler, Craig	12/18/2019	
Black River 0.42 miles usptream of mouth, 2016, Natural Community Validation	Black River 0.42 miles usptream of mouth, 2016, Natural Community Validation	Madeline Roberts	07/14/2017	
Black River 10m US canoe take-out at Pattison Park, 2016, Natural Community Validation	Black River 10m US canoe take-out at Pattison Park, 2016, Natural Community Validation	Madeline Roberts	07/17/2017	
Black River 410m DS of STH 35, 2016, Natural Community Validation	Black River 410m DS of STH 35, 2016, Natural Community Validation	Madeline Roberts	05/31/2017	
Black River Targeted Watershed Assessment: A Water Quality Plan to Protect Wisconsin Watersheds	Black River Targeted Watershed Assessment	Roesler, Craig, and Lisa Kosmond Helmuth	03/23/2020	
Black River and Little Black River monitoring sites for 2016		Craig Roesler	12/01/2016	
Black River-upstream of Milchesky Rd., 2016, Natural Community Validation	Black River-upstream of Milchesky Rd., 2016, Natural Community Validation	Madeline Roberts	05/31/2017	

Budget

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Budget Description: FY2016 **Start Date:** 07/01/2015 **End Date:** 06/30/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	40	Hours	$0.00	$0.00	
LTE SAL	LTE Salary	30	Hours	$13.00	$390.00	
LTE FR	LTE Fringe				$96.33	
LTE IND	LTE Indirect				$78.64	
LTE TOT	LTE Total Cost				$564.97	
SUPPLY	Supplies	3		$20.00	$60.00	sample shipping
EQUIP	Equipment				$0.00	
MILEAGE	Mileage	450	Miles	$0.31	$139.50	
MEAL	Meals	8	Meals	$9.00	$72.00	
LODGE	Lodging				$0.00	
TRAVEL	Travel Total				$211.50	
BUG	Bug Contracts				$0.00	
OTHER	Other Contracts				$0.00	
USGS	USGS Costs				$0.00	
TOTAL	Total Cost (excludes SLOH)				$836.47	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost

Total SLOH Lab Costs: $0.00
Total Budget: $836.47

Budget Description: FY2017 **Start Date:** 07/01/2016 **End Date:** 06/30/2017

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	200	Hours	$0.00	$0.00	
LTE SAL	LTE Salary	330	Hours	$13.00	$4,290.00	
LTE FR	LTE Fringe				$1,059.63	
LTE IND	LTE Indirect				$865.04	
LTE TOT	LTE Total Cost				$6,214.67	
SUPPLY	Supplies	7		$20.00	$140.00	sample shipment
EQUIP	Equipment				$0.00	
MILEAGE	Mileage	1650	Miles	$0.31	$511.50	
MEAL	Meals	18	Meals	$9.00	$162.00	
LODGE	Lodging				$0.00	
TRAVEL	Travel Total				$673.50	
BUG	Bug Contracts	8		$185.00	$1,480.00	
OTHER	Other Contracts	1		$150.00	$150.00	diatom sample analysis
USGS	USGS Costs				$0.00	
TOTAL	Total Cost (excludes SLOH)				$8,658.17	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost

Total SLOH Lab Costs: $0.00
Total Budget: $8,658.17

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Combined Budgets: $9,494.63
Combined SLOH: $0.00
Combined Total: $9,494.63

Funding

Organization	Source	Type	Amount	Start Date	End Date