

**Wisconsin Department of Natural Resources
SWIMS Project Summary****General Project Information**

Project ID: East_TWA_3_2014

Name: Wolf Creek TWA WQM Plan, 2017

Type: Targeted Watershed Approach

Subtype: Evaluation (TP SSC, Stressor, Bioassess)

Status: COMPLETE

Start Date: 1/1/2014

End Date: 12/31/2099

Purpose: The Wolf Creek watershed is a 15.71 square mile, HUC-12 sub-watershed that lies in the Wausaukee and Lower Menomonee River watershed in Marinette County. Soils and topography in the Wolf Creek sub-watershed are unique in that the entire area is fairly isolated with glacial deposits forming distinctive breaks in the upper watershed surrounding the lakes and then dropping into poorly drained organic soils immediately adjacent to the lakes and streams. Wetlands are extensive throughout the watershed along the stream and lake corridors with minimal fragmentation.

Read the [Wolf Creek TWA WQ Plan](https://dnr.wi.gov/water/wsSWIMSDocument.ashx?documentSeqNo=145826376).

Objective: Wolf Creek was selected for evaluation monitoring in 2014. Based on current surveys, it would appear water quality of the streams in the Wolf Creek watershed, are in overall good to excellent condition. Current land use practices in the region do not appear to be causing adverse impacts to water quality conditions. Total Phosphorous concentrations at the pour point would suggest that nutrients are in balance and excess phosphorous is not a problem.

Comments: 40301080904
HWI

Outcome:

Study Design: Water quality monitoring was conducted at 6 wadeable sites throughout the watershed in the spring, summer, and fall of 2014. During each field visit, basic water quality parameters including air temperature, water temperature, conductivity, dissolved oxygen, dissolved oxygen percent, pH, flow, and water clarity were collected. Total Phosphorous samples were collected by a citizen volunteer once per month throughout the growing season from May-October. A continuous temperature HOBO was installed at this site and collected continuous water temperature reading between May-October.

QA Measures: basic water quality parameters including air temperature, water temperature, conductivity, dissolved oxygen, dissolved oxygen percent, pH, flow, and water clarity were collected. Total Phosphorous samples were collected by a citizen volunteer once per month throughout the growing season from May-October. A continuous temperature HOBO was installed at this site and collected continuous water temperature reading between May-October.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Helmuth, Lisa D	COORDINATOR	INACTIVE	11/23/2019	12/28/2022	Wisconsin DNR	
Hudak, Andrew J	COORDINATOR	COMPLETE	1/1/2014	12/31/2099	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
5/12/2014	Andrew Hudak	Progress: 0-25% Complete	
1/27/2016	Andrew Hudak	Complete	

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Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	
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 Date	End Date	Status
Monitor and/or Protect Groundwater, Sourcewater	Site selection for new septic systems should be conducted with care on suitable sites where poor filtration or high groundwater tables are not present.	1/1/2014	12/31/2099	PROPOSED
Monitor Targeted Watershed Area (TWA)	Wolf Creek TWA [HUC12] 2014	1/1/2014	12/8/2015	COMPLETE
Best Management Practices, Implement	Land managers should follow and promote the use of forestry best management practices to protect water quality.	1/1/2014	12/31/2099	PROPOSED
Protect Riparian or Shorelands	Land divisions and new development in the riparian areas of lakes and streams should be conducted only after careful consideration of how to reduce impacts such as short and long-term erosion.	1/1/2014	12/31/2099	PROPOSED
Protect Riparian or Shorelands	Protection of riparian corridors and streams and the landscape of streams and lakes is a highpriority.	1/1/2014	12/31/2099	PROPOSED
Protect Riparian or Shorelands	Proper site placement and planning to protect shoreline cutting and clearing for home development is needed.	1/1/2014	12/31/2099	PROPOSED
Natural Community Review or Change	Wolf Creek upstream of Keating Road is modeled as a cool warm headwater natural community; recent data indicates this is a warm mainstem stream.	1/16/2018		PROPOSED
Natural Community Review or Change	Wolf Creek at Narragon Road is modeled as a cool warm headwater natural community; based on recent data this is a warm mainstem stream.	1/16/2018		PROPOSED
Natural Community Review or Change	Wolf Creek downstream of Lubke Road is modeled as a cool warm mainstem natural community; based on recent data this is a warm mainstem stream.	1/16/2018		PROPOSED

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Natural Community Review or Change	Wolf Creek at Island Lake Road is modeled as a cool warm headwater natural community; recent data indicates this is a warm headwater stream.	1/16/2018		PROPOSED
Natural Community Review or Change	Wolf Creek downstream of Pike River Road is modeled as a cool warm mainstem natural community; recent data indicates this is a warm mainstem stream.	1/16/2018		PROPOSED
Natural Community Review or Change	Wolf Creek downstream of Lubke Road is modeled as a cool warm mainstem natural community; based on recent data this is a warm mainstem stream.	1/16/2018		PROPOSED

Monitoring Stations

Station ID	Name	Comments
10042954	Holmes Creek 30m US Pike River Rd	
10042719	Wolf Creek 10m US Naragon Rd	
10042953	Wolf Creek 115m DS Island Lake Rd	
10042718	Wolf Creek 15m US Keating Rd	
10042952	Wolf Creek 350m DS Lubka Rd	
10041789	Wolf Creek DS of bridge crossing at Pike River Rd	

Assessment Units

WBIC	Segment	Local Name	Official Name
613900	1	Wolf Creek	Wolf Creek
613900	2	Wolf Creek	Wolf Creek
613900	4	Wolf Creek	Wolf Creek
614100	1	Birch Lake	Birch Lake
615400	1	Holmes Creek	Holmes Creek

Lab Account Codes

Account Code	Description	Start Date	End Date
WQ002	TARGETED WATERSHED ASSESSMENTS	3/26/2014	12/31/2099

Forms

Form Code	Form Name
INORGANIC	Inorganic Lab - Field Data
WAV_FLOW_2015	WAV Streamflow

Methods

Method Code	Method Description
ELECTROFISHING: BACKPACK SHOCKER	Electrofishing: Backpack Shocker

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ELECTROFISHING: STREAM SHOCKER	Electrofishing: Stream Shocker
WAV STREAM MONITORING PROTOCOLS	Water Action Volunteers (WAV) Stream Monitoring Protocols 2009

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
5/21/2014 10:45	COMPLETE	NA	10041789	Wolf Creek DS of bridge crossing at Pike River Rd
6/15/2014 11:05	COMPLETE	NA	10041789	Wolf Creek DS of bridge crossing at Pike River Rd
7/15/2014 11:00	COMPLETE	NA	10041789	Wolf Creek DS of bridge crossing at Pike River Rd
8/11/2014 12:50	COMPLETE	NA	10041789	Wolf Creek DS of bridge crossing at Pike River Rd
9/15/2014 11:50	COMPLETE	NA	10041789	Wolf Creek DS of bridge crossing at Pike River Rd
9/24/2014	COMPLETE	MIBI	10042718	Wolf Creek 15m US Keating Rd
9/24/2014	COMPLETE	MIBI	10042953	Wolf Creek 115m DS Island Lake Rd
9/24/2014	COMPLETE	MIBI	10042719	Wolf Creek 10m US Naragon Rd
9/24/2014	COMPLETE	MIBI	10042954	Holmes Creek 30m US Pike River Rd
9/24/2014	COMPLETE	MIBI	10042952	Wolf Creek 350m DS Lubka Rd
9/24/2014	COMPLETE	MIBI	10041789	Wolf Creek DS of bridge crossing at Pike River Rd
10/13/2014 12:25	COMPLETE	NA	10041789	Wolf Creek DS of bridge crossing at Pike River Rd

Documents

Title	Description	Author	Published	Comments
2014 Total Phosphorus Monitoring Report - Wolf Creek DS of bridge crossing at Pike River Rd	This Targeted Watershed Assessment (TWA) will address needs for baseline water quality monitoring of the Wolf Creek Watershed. In 2014, Water Action Volunteers stream monitors were asked to assist in the monitoring process by collecting water samples. The TWA will hopefully provide enough information in order to evaluate the watershed for total phosphorus levels, update water body assessment status (i.e. future monitoring for 303(d)), make management recommendations, and update water body and watershed narratives in WATERS.	Lindsey Albright	2/4/2015	
Wolf Creek 4 - small	Wolf Creek 4 - small	Hudak, Andy	9/3/2014	
Wolf Creek Headwaters (613900) photo by Andrew Hudak	Wolf Creek Headwaters (613900) photo by Andrew Hudak	Hudak, Andrew	7/16/2014	
Wolf Creek Keating Drive Photo				

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Wolf Creek TWA 2014 (613900) Fish photo by Andrew Hudak	Wolf Creek TWA 2014 (613900) Fish photo by Andrew Hudak	Hudak, Andrew	8/21/2014	
Wolf Creek TWA 2014 (613900) Fish2 photo by Andrew Hudak	Wolf Creek TWA 2014 (613900) Fish2 photo by Andrew Hudak	Hudak, Andrew	8/21/2014	
Wolf Creek TWA 2014 (613900) Fish3 photo by Andrew Hudak	Wolf Creek TWA 2014 (613900) Fish3 photo by Andrew Hudak	Hudak, Andrew	8/13/2014	
Wolf Creek TWA 2014 Project (613900) Wolf River photo by Andrew Hudak	Wolf Creek TWA 2014 Project (613900) Wolf River photo by Andrew Hudak	Hudak, Andrew	6/9/2017	
Wolf Creek TWA Final Technical Report 2016 Andy Hudak		Andrew Hudak	1/4/2016	
Wolf Creek TWA Presentation	Wolf Creek TWA WQM Plan 2017 [GB13] Presentation	WDNR	8/9/2017	
Wolf Creek TWA WQM Plan 2017 [GB13]	Assessments and recommendations for the Watershed. Wolf Creek TWA WQ Plan 2017 Draft Final Report GB13	Hudak, Andrew	6/9/2017	
Wolf Creek photo 4 (613900) by Andrew Hudak	Wolf Creek photo 4 (613900) by Andrew Hudak	Hudak, Andrew	9/3/2014	
Wolf Creek- Island Lake Drive		Andrew Hudak		
Wolf Creek-1 (613900)photo by Andrew Hudak	Wolf Creek-1 (613900)photo by Andrew Hudak	Hudak, Andrew	8/13/2014	
Wolf Creek-2 (613900) photo by Andrew Hudak	Wolf Creek-2 (613900) photo by Andrew Hudak	Hudak, Andrew	9/3/2014	
Wolf Creek-3 (613900) photo by Andrew Hudak	Wolf Creek-3 (613900) photo by Andrew Hudak	Hudak, Andrew	7/16/2014	
wolfriver-small	wolfriver-small	Hudak, Andy	9/3/2014	

Budget

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Budget Description: Wolf Creek TWA		Start Date: 1/1/2014	End Date: 12/31/2014
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
SUPPLY	Supplies				\$0.00	
FTE	FTE Hours	130	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	47	Hours	\$13.00	\$611.00	
LTE FR	LTE Fringe				\$150.92	
LTE IND	LTE Indirect				\$123.20	
LTE TOT	LTE Total Cost				\$885.12	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	1200	Miles	\$0.62	\$744.00	
MEAL	Meals	14	Meals	\$10.00	\$140.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$884.00	
BUG	Bug Contracts	6		\$180.00	\$1,080.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$2,849.12	

Total WSLH Lab Costs: \$0.00

Total Budget: \$2,849.12

Combined Budgets: \$2,849.12

Combined WSLH: \$0.00

Combined Total: \$2,849.12

Funding					
Organization	Source	Type	Amount	Start Date	End Date