

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

<b>Project ID:</b>	CBSM-10031395
<b>Name:</b>	Fredonia Creek near intersection with Milwaukee River
<b>Type:</b>	Citizen Based Stream Monitoring
<b>Subtype:</b>	Volunteer Monitoring
<b>Status:</b>	ACTIVE
<b>Start Date:</b>	06/01/2010
<b>End Date:</b>	12/31/2099
<b>Purpose:</b>	The Water Action Volunteers Program (WAV) involves citizen monitors in the collection of stream water quality data that may be used by the Wisconsin Department of Natural Resources (DNR) and their partner organizations. Program goals include building relationships between DNR staff and citizen monitors while assessing streams in need of additional monitoring, restoration, and/or protection. Ultimately, volunteer participation increases capabilities of the DNR and communities to monitor streams, providing water quality information that may be used to make decisions that affect the management of streams throughout Wisconsin.
<b>Objective:</b>	The main goal of the WAV program is to preserve and protect Wisconsin's streams and the lakes to which they are connected. Objectives of the program are to educate and empower citizens to share their data, to obtain high quality data useful for DNR decision-making, and to encourage data and knowledge sharing. The process of data collection by Wisconsin residents enhances their understanding of water quality parameters, and in many cases, interests them in assisting with more sophisticated projects, including the collection of additional biological, chemical, and physical site data. Ultimately, a goal is that DNR staff trust volunteer data results, and therefore utilize WAV data to assist in making management decisions.
<b>Comments:</b>	Per Joe Rath 2/11/2015, currently inactive, looking for new volunteers
<b>Outcome:</b>	
<b>Study Design:</b>	Volunteer stream monitors assess water quality parameters identified in the DNR's Water Resources Monitoring Strategy for Wisconsin. Volunteers may identify their own sampling locations. In some instances, WAV Coordinators, DNR, or county staff may recommend sites based on the need to acquire status or trends information, or other types of monitoring that are priorities. In general, volunteers are asked to monitor from May through October. Advanced volunteers choose primary (P) and secondary (S) sampling dates in advance and note on their data sheets which of those dates they monitored. Volunteers are asked to sample on the primary date unless there are safety concerns about being at the stream site (e.g., tornado, lightning, dangerously high flows) or a personal or family emergency. The goal is to monitor at the same time each month, about 30 days after the last monitoring visit. Volunteers are instructed to enter data into the Surface Water Integrated Monitoring System (SWIMS) database by the end of each month and to immediately report extreme conditions that may be hazardous to aquatic life to their local DNR or County biologist. Parameters measured monthly include: dissolved oxygen (concentration), dissolved oxygen (saturation), streamflow, transparency, temperature (instantaneous and/or continuous measurements), and sometimes pH. In addition, macroinvertebrates (Biotic Index) are assessed twice per year and habitat conditions are assessed once per year. Some volunteers monitor specific conductance, chloride, total phosphorus, E. coli, or other parameters.
<b>QA Measures:</b>	For advanced volunteers, a WAV staff person, local coordinator or authorized representative visits with 10% of volunteers annually to conduct side-by-side monitoring. The goal of field QA checks is to check that volunteers are properly calibrating their meters (if used) and following the sampling methods correctly. Staff members conducting QA checks also ensure that equipment is functioning properly and answer any volunteer questions or concerns. A Data Manager runs regular (monthly whenever possible) database queries throughout the field season to evaluate the quality of data entered into the database and follow-up with volunteers to address anomalies that are identified.

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Buchholz, Renee	TEAM_MEMBER	ACTIVE	06/12/2018		Milwaukee Riverkeeper	
DRISCOLL, ZACHERY G	COORDINATOR	ACTIVE	04/15/2016		Wisconsin DNR	
Farina, Jason	TEAM_MEMBER	COMPLETE	05/31/2011	02/11/2015	Cedarburg Science Center	
Frazee, Alex	TEAM_MEMBER	COMPLETE	05/31/2011	02/11/2015	Cedarburg Science Center	
Heston, Chris	TEAM_MEMBER	COMPLETE	07/19/2010	02/11/2015	Milwaukee Riverkeeper	
Larsen, Amanda	TEAM_MEMBER	COMPLETE	06/08/2011	02/11/2015	Cedarburg Science	
Lukasz, Brad	TEAM_MEMBER	INACTIVE	02/16/2015	05/01/2017	Milwaukee Riverkeeper	
MARCANGELI, APRIL N	TEAM_MEMBER	INACTIVE	06/11/2013	02/11/2015		
Nenn, Cheryl	COORDINATOR	ACTIVE	01/08/2019		Milwaukee Riverkeeper	
Rademacher, Katie	COORDINATOR	ACTIVE	12/06/2018		Milwaukee Riverkeeper	

## Wisconsin Department of Natural Resources SWIMS Project Summary

Name	Role	Status	Start Date	End Date	Organization	Comments
Rath, Joe	COORDINATOR	INACTIVE	07/19/2010	05/10/2017	Milwaukee Riverkeeper	
Schumacher, Ross	TEAM_MEMBER	COMPLETE	07/19/2010	02/11/2015	Milwaukee Riverkeeper	
Weber, Katie	TEAM_MEMBER	COMPLETE	05/31/2011	02/11/2015	Cedarburg Science Center	

### Project Statuses

Date	Reported By	Status	Comments
------	-------------	--------	----------

### Actions

Action	Detailed Description	Start	End Date	Status
Citizen-Based Stream Monitoring	Collect chemical, physical, and/or biological water quality data to assess the current overall stream health. The data can inform management decisions and may be used to identify impaired waters for biennial lists.	01/01/2012		IN_PROGRESS

### Monitoring Stations

Station ID	Name	Comments
10031395	Fredonia Creek near intersection with Milwaukee River	

### Assessment Units

WBIC	Segment	Local Name	Official Name
26600	1	Fredonia Creek	Unnamed

### Lab Account Codes

Account Code	Description	Start Date	End Date
--------------	-------------	------------	----------

### Forms

Form Code	Form Name
WAV_2015	WAV Stream Monitoring 2015

### Methods

Method Code	Description
CBSM_PP_FIELD_METHODS	CBSM Stream Monitoring YSI DO Meter 2009

### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
05/13/2010 11:55	COMPLETE	TIDBITV2	10031395	Fredonia Creek near intersection with Milwaukee River
05/13/2010 11:55	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
06/10/2010 10:15	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
07/21/2010 09:15	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
08/12/2010 10:30	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
09/09/2010 09:50	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
05/17/2011 10:00	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
06/17/2011 10:30	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
07/15/2011 11:05	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
08/17/2011 11:25	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River

## Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
08/17/2011 11:30	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
09/17/2011 11:20	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
05/24/2012 10:00	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
05/24/2012 10:15	COMPLETE	HOBO	10031395	Fredonia Creek near intersection with Milwaukee River
07/24/2012 10:25	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
08/25/2012 10:45	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
09/27/2012 08:35	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
10/28/2012 11:40	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
05/31/2013 07:25	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
06/22/2013 14:30	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
07/19/2013 11:20	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
08/25/2013 10:45	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
09/29/2013 15:30	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
10/19/2013 15:15	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
04/08/2014	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
04/08/2014 13:00	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
05/28/2018 18:00	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
06/25/2018 18:00	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
07/30/2018 18:15	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
09/26/2018 17:20	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
10/22/2018 17:30	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
05/29/2019 18:30	COMPLETE	HOBO	10031395	Fredonia Creek near intersection with Milwaukee River
06/26/2019 17:30	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
07/24/2019 17:45	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
08/28/2019 18:10	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
09/25/2019 17:45	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River
10/24/2019 16:00	COMPLETE		10031395	Fredonia Creek near intersection with Milwaukee River

### Documents

Title	Description	Author	Published	Comments
-------	-------------	--------	-----------	----------

### Budget

**Combined Budgets:**  
**Combined SLOH:**  
**Combined Total:**

### Funding

Organization	Source	Type	Amount	Start Date	End Date
--------------	--------	------	--------	------------	----------