

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

<b>Project ID:</b>	CBSM-413722
<b>Name:</b>	Root River Canal - Upst Conf/ Root R
<b>Type:</b>	Citizen Based Stream Monitoring
<b>Subtype:</b>	Volunteer Monitoring
<b>Status:</b>	ACTIVE
<b>Start Date:</b>	5/26/2010
<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>	Citizen Monitoring under the UW-Parkside Geosciences Club project
<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
Friend, Jonathan	TEAM_MEMBER	ACTIVE	5/26/2010		UW Parkside Geosciences Club	
Krukowski, Keith	TEAM_MEMBER	ACTIVE	5/18/2012		UW Parkside	

### Project Statuses

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Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start Date	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.	1/1/2012		IN_PROGRESS
Water Quality Planning	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.	1/1/2012		IN_PROGRESS

Details: Parameter	Value/Amount	Units	Comments
Dissolved Oxygen, Field			
Elevated Water Temperature			

Monitoring Stations

Station ID	Name	Comments
413722	Root River Canal - Upst Conf/ Root R	

Assessment Units

WBIC	Segment	Local Name	Official Name
20	1	South Shore Beach, Lake Michigan	Lake Michigan
20	12	Lake Michigan	Lake Michigan
20	14	Bender Beach, Lake Michigan	Lake Michigan
20	20	Eichelman Beach, Lake Michigan	Lake Michigan
20	22	Grant Park Beach, Lake Michigan	Lake Michigan
20	26	Pennoyer Park Beach, Lake Michigan	Lake Michigan
20	27	Simmons Island Beach, Lake Michigan	Lake Michigan
20	32	Alford Park Beach, Lake Michigan	Lake Michigan
20	38	Southport Park Beach, Lake Michigan	Lake Michigan
20	40	Bayview Park Beach, Lake Michigan	Lake Michigan
20	51	Michigan Boulevard Beach, Lake Michigan	Lake Michigan
20	87	Myers Park Beach, Lake Michigan	Lake Michigan
20	88	North Beach, Lake Michigan	Lake Michigan
20	89	Zoo Beach, Lake Michigan	Lake Michigan
20	91	Shoop Park Beach, Lake Michigan	Lake Michigan
20	92	Wind Point Lighthouse Beach	Lake Michigan
20	94	Lake Michigan - Parkway (Racine Beach) 52-004	Lake Michigan
20	95	Prairie Shores / Lakeshore Drive Beach	Lake Michigan

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22	1	Kenosha Harbor	Kenosha Harbor
25	1	Racine Harbor	Racine Harbor
28	1	Milwaukee Harbor	Milwaukee Harbor
100	1	Gravel Pit Lake	Gravel Pit Lake
300	1	Lower Kelly Lake	Lower Kelly Lake
330	1	Un Lake	Pritchard Park Pond
340	1	Un Lake	Lockwood Park Pond
350	1	Un Lake	Reservoir Park Pond
370	1	Un Lake	Unnamed
390	1	Un Lake	Unnamed
400	1	Unnamed Lake	Quarry Lake
500	1	Runway Bay	Runaway Bay
510	1	Unnamed Creek	Unnamed
600	1	Local Water	Unnamed
700	1	Barnes Creek	Barnes Creek
1000	1	Un Lake	Unnamed
1200	1	Pike Creek	Pike Creek
1300	1	Pike River	Pike River
1300	2	Pike River	Pike River
1350	1	Kenosha Branch Of Pike River	Unnamed
1400	1	Sorenson Creek	Unnamed
1500	1	Unnamed	Unnamed
1800	1	Petrified Springs Park Pond	Petrified Springs Park Pond
1900	1	North Branch Of Pike River	North Branch Pike River
1900	2	North Branch Pike River	North Branch Pike River
2100	1	Unnamed Stream	Unnamed
2300	1	Waxdale Creek	Unnamed
2400	1	Unnamed Stream	Unnamed
2450	1	Local Water	Unnamed
2500	1	South Branch of Pike River	South Branch Pike River
2600	1	Unnamed	Unnamed
2700	1	Somers Tributary To S Br Pike River	Unnamed
2800	2	Unnamed Trib to S Br Pike River	Unnamed
2825	1	Airport Tributary	Unnamed
2900	1	Root River	Root River

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2900	2	Root River	Root River
2900	3	Root River	Root River
2900	4	Root River	Root River
3100	1	Hoods Creek	Hoods Creek
3300	1	Ives Grove Ditch to Hoods Creek	Unnamed
3355	1	Unnamed Stream	Unnamed
3385	1	Unnamed	Unnamed
3500	1	Husher Creek (Hoosier)	Husher Creek
3500	2	Husher Creek	Husher Creek
3510	1	Local Water	Unnamed
3600	1	Kilbournville Trib	Unnamed
3800	1	Mid. Oakwood Golf Course P	Mid. Oakwood Golf Course P
4000	1	South Oakwood Golf Course Pond	South Oakwood Golf Course Pond
4200	1	North Oakwood Golf Course Pond	North Oakwood Golf Course Pond
4300	1	Root River Canal	Root River Canal
4350	1	Local Water	Unnamed
4500	1	West Branch Root River Canal	West Branch Root River Canal
4500	2	West Branch Root River Canal	West Branch Root River Canal
4500	3	West Branch Root River Canal	West Branch Root River Canal
4500	4	West Branch Root River Canal	West Branch Root River Canal
4600	1	Raymond Creek	Raymond Creek
4705	1	Unnamed Tributary to the West Branch Root River	Unnamed
4800	1	Yorkville Trib	Unnamed
4840	1	Unnamed Trib to W Br Root River Canal	Unnamed
4900	1	East Branch Root River Canal	East Branch Root River Canal
4900	2	East Branch Root River Canal	East Branch Root River Canal
5100	1	Ryan Creek	Ryan Creek
5200	1	Dumkes Lake	Dumkes Lake
5300	1	Franklin Trib	Unnamed
5350	1	Un Lake	Unnamed
5500	1	Mud Lake	Mud Lake
5550	1	Legend Creek	Legend Creek
5700	1	Root River Parkway Pond	Root River Parkway Pond
5900	1	Koepmier Lake	Koepmier Lake
6000	1	Dale Creek	Dale Creek

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6100	1	Scout Lake	Scout Lake
6200	1	Tess Corners Creek	Unnamed
6300	1	Local Water	Unnamed
6500	1	Boerner Bot. Garden Pond No.1	Boerner Bot Gdn Pond No. 1
6700	1	Boerner Bot. Garden Pond No.2	Boerner Bot Gdn Pond No. 2
7100	1	Upper Kelly Lake	Upper Kelly Lake
7300	1	Whitnall Park Pond	Whitnall Park Pond
7500	1	Monastery Lake	Monastery Lake
7600	1	Un Lake	Unnamed
7635	1	Wildcat Creek	Unnamed
7670	1	Unnamed Stream	Unnamed
7700	1	Unnamed Stream	Unnamed
7800	1	Unnamed Stream	Unnamed
7800	2	DUPLICATE	Unnamed
7825	1	Unnamed Stream	Unnamed
7840	1	Local Water	Unnamed
11700	1	Sheridan Park Pond	Sheridan Park Pond
14500	1	Oak Creek	Oak Creek
14700	1	Oak Creek Parkway Pond	Oak Creek Parkway Pond
14800	1	Mitchell Field Ditch	Unnamed
14800	2	Mitchell Field Ditch	Unnamed
14900	2	North Branch Oak Creek	Unnamed
742240	1	Un Lake	Unnamed
3000082	1	Lincoln Park Pond	Lincoln Park Pond
3000341	1	Local Water	Unnamed
3000518	1	Dominican Creek	Unnamed
5036265	1	Hale Creek	Unnamed
5036469	1	Unnamed Stream	Unnamed
5037118	1	Local Water	Unnamed
5037240	1	Local Water	Unnamed
5037305	1	Local Water	Unnamed
5037407	1	Local Water	Unnamed
5037597	1	Local Water	Unnamed
5037655	1	Local Water	Unnamed
5037694	1	Local Water	Unnamed

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5037792	1	Local Water	Unnamed
5037797	1	Unnamed Stream	Unnamed
5037833	1	Local Water	Unnamed
5038138	1	Unnamed Stream	Unnamed
5038429	1	Unnamed Stream	Unnamed
5038451	1	Local Water	Unnamed
5038458	1	Local Water	Unnamed
5038857	1	Local Water	Unnamed
5039510	1	Unnamed Stream	Unnamed
5039760	1	Unnamed Stream	Unnamed
5039936	1	Unnamed Stream	Unnamed
5040395	1	Unnamed	Unnamed
5040437	1	Unnamed	Unnamed
5040442	1	Unnamed	Unnamed
5040492	1	Unnamed	Unnamed
5576428	1	Unnamed Lake	Unnamed
5576479	1	Local Water	Unnamed
5576495	1	Local Water	Unnamed
5576523	1	Unnamed Lake	Unnamed
5576584	1	Unnamed	Unnamed
5576636	1	Local Water	Unnamed
5576657	1	Local Water	Unnamed
5576672	1	Local Water	Unnamed
5576682	1	Unnamed	Unnamed
5576685	1	Local Water	Unnamed
5576690	1	Lake Brittany	Lake Brittany
5576707	1	Local Water	Unnamed
5576877	1	Local Water	Unnamed
5576946	1	Local Water	Unnamed
5576991	1	Unnamed Lake	Unnamed
5577024	1	Local Water	Unnamed
5577038	1	Local Water	Unnamed
5577146	1	Local Water	Unnamed
5577409	1	Local Water	Unnamed
5577746	1	Local Water	Unnamed

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5578068	1	Local Water	Unnamed
5578093	1	Local Water	Unnamed
5578156	1	Unnamed Lake	Unnamed
5578188	1	Local Water	Unnamed
5578191	1	Local Water	Unnamed
5578195	1	Local Water	Unnamed
5578198	1	Unnamed	Unnamed
5578317	1	Local Water	Unnamed
5578434	1	Local Water	Unnamed
5578565	1	Local Water	Unnamed
5578724	1	Local Water	Unnamed
5578732	1	Local Water	Unnamed
5578788	1	Local Water	Unnamed
5578875	1	Local Water	Unnamed
5578935	1	Local Water	Unnamed
5579123	1	Local Water	Unnamed
5579160	1	Local Water	Unnamed
5579165	1	Local Water	Unnamed
5579169	1	Local Water	Unnamed
5579177	1	Local Water	Unnamed
5579181	1	Local Water	Unnamed
5579218	1	Local Water	Unnamed
5579246	1	Local Water	Unnamed
5579698	1	Local Water	Unnamed
5579710	1	Local Water	Unnamed
5580242	1	Local Water	Unnamed
5580295	1	Local Water	Unnamed
5580719	1	Local Water	Unnamed
5580904	1	Local Water	Unnamed
5588787	1	Local Water	Unnamed
5588789	1	Local Water	Unnamed
5590267	1	Local Water	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

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Form Code	Form Name
WAV_2015	WAV Stream Monitoring 2015

Methods

Method Code	Method Description
CBSM_PP_FIELD_METHODS	CBSM Stream Monitoring YSI DO Meter 2009

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
6/12/2010 11:10	COMPLETE		413722	Root River Canal - Upst Conf/ Root R
7/2/2010 14:55	COMPLETE		413722	Root River Canal - Upst Conf/ Root R
7/10/2010 16:00	COMPLETE		413722	Root River Canal - Upst Conf/ Root R
8/7/2010 12:05	COMPLETE		413722	Root River Canal - Upst Conf/ Root R
9/4/2010 11:00	COMPLETE		413722	Root River Canal - Upst Conf/ Root R
10/9/2010 11:25	COMPLETE		413722	Root River Canal - Upst Conf/ Root R

Documents

Title	Description	Author	Published	Comments
D.O. YSI METHODS CHEAT SHEET 2009 - CITIZEN BASED STREAM MONITORING		Clayton, Chris	3/23/2009	

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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