

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: CBSM-10010757

Name: Milwaukee River at Locust Street

Type: Citizen Based Stream Monitoring

Subtype: Volunteer Monitoring

Status: ACTIVE

Start Date: 04/01/2012

End Date: 05/31/2012

Purpose: 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.

Objective: 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.

Comments:

Outcome:

Study Design: 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.

QA Measures: 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 |
|------------------------|-------------|--------|------------|----------|----------------------------|----------|
| Davis-Foust, Shannon L | COORDINATOR | ACTIVE | 05/29/2012 | | UW Oshkosh / Wisconsin DNR | |
| UW Oshkosh Students, | TEAM_MEMBER | ACTIVE | 05/29/2012 | | UWO | |

Project Statuses

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

Actions

| Action | Detailed Description | Start | End Date | Status |
|--------|----------------------|-------|----------|--------|
|--------|----------------------|-------|----------|--------|

Wisconsin Department of Natural Resources SWIMS Project Summary

| 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 |
|------------|---|----------|
| 10010757 | Milwaukee River - Milwaukee River 2 at Locust Street (380 Meters Upstream) - Nonwadable | |

Assessment Units

| WBIC | Segment | Local Name | Official Name |
|-------|---------|-----------------|-----------------|
| 15000 | 2 | Milwaukee River | Milwaukee River |

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 |
|------------------|----------|----------|------------|---|
| 05/24/2012 15:00 | COMPLETE | | 10010757 | Milwaukee River - Milwaukee River 2 at Locust Street (380 Meters Upstream) - Nonwadable |
| 05/24/2012 15:30 | COMPLETE | | 10010757 | Milwaukee River - Milwaukee River 2 at Locust Street (380 Meters Upstream) - Nonwadable |
| 05/25/2012 15:40 | COMPLETE | | 10010757 | Milwaukee River - Milwaukee River 2 at Locust Street (380 Meters Upstream) - Nonwadable |

Documents

| Title | Description | Author | Published | Comments |
|--------------------------------|---|------------------|------------|----------|
| Milwaukee River near Cedarburg | Milwaukee River near Cedarburg, Photo Courtesy of Milwaukee Sweetwater Trust. | Sweetwater Trust | 07/14/2012 | |

Budget

Combined Budgets:
 Combined SLOH:
 Combined Total:

Funding

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