

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** CBSM-673269

**Name:** Willow Creek at Maple Road, near Germantown, WI

**Type:** Citizen Based Stream Monitoring

**Subtype:** Volunteer Monitoring

**Status:** ACTIVE

**Start Date:** 5/20/2011

**End Date:** 12/31/2099

**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 |
|---------------------|-------------|----------|------------|----------|-----------------------|----------|
| Bartlein, Eric      | TEAM_MEMBER | ACTIVE   | 9/8/2015   |          |                       |          |
| DRISCOLL, ZACHERY G | COORDINATOR | ACTIVE   | 5/9/2016   |          | Wisconsin DNR         |          |
| Hitch, Christopher  | TEAM_MEMBER | ACTIVE   | 5/20/2011  |          | Milwaukee Riverkeeper |          |
| Lukasz, Brad        | TEAM_MEMBER | INACTIVE | 2/16/2015  | 5/1/2017 | Milwaukee Riverkeeper |          |

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|                   |             |          |            |          |                       |  |
|-------------------|-------------|----------|------------|----------|-----------------------|--|
| Nenn, Cheryl      | COORDINATOR | ACTIVE   | 2/13/2015  |          | Milwaukee Riverkeeper |  |
| Rademacher, Katie | COORDINATOR | ACTIVE   | 12/7/2018  |          | Milwaukee Riverkeeper |  |
| Rath, Joe         | COORDINATOR | INACTIVE | 12/20/2011 | 5/9/2017 | Milwaukee Riverkeeper |  |
| Schalig, Ron      | TEAM_MEMBER | ACTIVE   | 5/31/2017  | 6/6/2017 | Milwaukee Riverkeeper |  |
| Tutkowski, Jason  | TEAM_MEMBER | ACTIVE   | 6/8/2016   |          | Carroll University    |  |

### Project Statuses

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

### 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 |

### Monitoring Stations

| Station ID | Name  | Comments |
|------------|---|----------|
| 673269     | Willow Creek at Maple Rd Near Germantown WI |          |

### Assessment Units

| WBIC  | Segment | Local Name   | Official Name |
|-------|---------|--------------|---------------|
| 18800 | 1       | Willow Creek | Willow Creek  |

### Lab Account Codes

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

### Forms

| 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                                |
|------------------|----------|----------|------------|---|
| 10/30/2010 10:05 | COMPLETE |          | 673269     | Willow Creek at Maple Rd Near Germantown WI |
| 5/11/2011 8:00   | COMPLETE |          | 673269     | Willow Creek at Maple Rd Near Germantown WI |
| 5/11/2011 8:15   | COMPLETE | HOBO     | 673269     | Willow Creek at Maple Rd Near Germantown WI |
| 6/8/2011 8:00    | COMPLETE |          | 673269     | Willow Creek at Maple Rd Near Germantown WI |
| 7/13/2011 10:35  | COMPLETE |          | 673269     | Willow Creek at Maple Rd Near Germantown WI |

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|                  |          |                 |        |   |
|------------------|----------|-----------------|--------|---|
| 8/14/2011 7:30   | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/20/2011 9:15   | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 5/31/2012 14:50  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 6/30/2012 11:15  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 7/31/2012 11:05  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/28/2012 13:20  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/29/2012 14:20  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/30/2012 13:10 | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/26/2013        | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/21/2013       | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 7/22/2014 9:50   | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/30/2014 12:35  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/30/2014 10:05 | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 5/29/2015        | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 5/29/2015 10:45  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 6/26/2015 14:35  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 7/31/2015 17:15  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/31/2015 11:30  | COMPLETE | WCMR-2015-8     | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/31/2015 11:30  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/21/2015 15:00  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/21/2015 14:20 | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 6/13/2016 9:25   | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 6/13/2016 9:50   | COMPLETE | WILLOW-JUN2016  | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 7/15/2016 9:30   | COMPLETE | WILLOW-JUL2016  | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 7/15/2016 9:30   | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/15/2016 14:20  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/15/2016 14:30  | COMPLETE | WILLOW-AUG2016  | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/16/2016 16:45  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/17/2016 11:15  | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/17/2016 11:25  | COMPLETE | WILLOW-SEP-2016 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/14/2016 15:35 | COMPLETE | WILLOW-OCT2016  | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/14/2016 15:35 | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 6/1/2017 10:20   | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 6/28/2017 9:25   | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 7/17/2017 9:39   | COMPLETE |                 | 673269 | Willow Creek at Maple Rd Near Germantown WI |

7/4/2024

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|                  |          |      |        |   |
|------------------|----------|------|--------|---|
| 7/25/2017 10:15  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/9/2017 9:20    | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/17/2017 8:57   | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/29/2017 10:34  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/5/2017 10:20  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/31/2017 12:15 | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 5/16/2018 14:30  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 7/3/2018 12:19   | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/2/2018 11:54   | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/11/2018 13:45  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/4/2018 10:30  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 11/21/2018 9:27  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 5/29/2019 14:21  | COMPLETE | HOBO | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 7/3/2019 12:33   | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/21/2019 8:36   | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/17/2019 11:48  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/9/2019 12:20  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 11/4/2019 10:46  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 6/23/2020 13:10  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/28/2020 10:20  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/2/2020 14:30  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 11/4/2020 12:32  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 5/27/2021 12:01  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 7/2/2021 12:39   | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 8/2/2021 14:27   | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/3/2021 12:20   | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/23/2021 10:01  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 11/3/2021 10:50  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 5/27/2022 12:05  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 6/29/2022 12:15  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 7/25/2022 12:55  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/6/2022 12:45   | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/28/2022 12:19  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 11/2/2022 11:30  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 6/28/2023 13:18  | COMPLETE |      | 673269 | Willow Creek at Maple Rd Near Germantown WI |

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|                  |           |               |        |   |
|------------------|-----------|---------------|--------|---|
| 7/25/2023 10:10  | COMPLETE  |               | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 9/5/2023 10:50   | COMPLETE  |               | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/2/2023 13:00  | COMPLETE  |               | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 10/30/2023 12:00 | COMPLETE  |               | 673269 | Willow Creek at Maple Rd Near Germantown WI |
| 5/31/2024 8:45   | COMPLETE  | WCMR-2024-MAY | 673269 | Willow Creek at Maple Rd Near Germantown WI |
|                  | SCHEDULED | WCMR-2024-    | 673269 | Willow Creek at Maple Rd Near Germantown WI |
|                  | SCHEDULED | WCMR-2024-    | 673269 | Willow Creek at Maple Rd Near Germantown WI |
|                  | SCHEDULED | WCMR-2024-    | 673269 | Willow Creek at Maple Rd Near Germantown WI |
|                  | SCHEDULED | WCMR-2024-    | 673269 | Willow Creek at Maple Rd Near Germantown WI |
|                  | SCHEDULED | WCMR-2024-    | 673269 | Willow Creek at Maple Rd Near Germantown WI |

### Documents

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

### Budget

**Combined Budgets:**

**Combined WSLH:**

**Combined Total:**                    \$0.00

### Funding

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