

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** MISS\_NUTRIENTS  
**Name:** Mississippi River Nutrient Impairment Study  
**Type:** Targeted Monitoring  
**Subtype:**  
**Status:** ACTIVE  
**Start Date:** 07/01/2003  
**End Date:** 12/31/2099  
**Purpose:** The study will measure metaphyton (floating mats of algae) and duckweed biomass and associated water quality variables in backwater and impounded reaches of the Mississippi River, primarily in the Pools 5 to 9. Of particular interest is documenting water quality standard exceedances (low DO or high pH) and their association with dense growths of metaphyton and duckweeds. Water chemistry and plant tissue analysis will be conducted to evaluate the development of these plant communities under varying nutrient concentrations and to help determine nutrient limited conditions. This work will also evaluate USGS-LTRMP stratified random sampling water quality and vegetation data as another means for identifying water quality impairments associated with phytoplankton (sestonic chlorophyll a) or excessive metaphyton or duckweeds. This information will be useful for quantifying nutrient impairment problems on the Mississippi River and may also provide information for establishing nutrient criteria. To evaluate water quality impairments associated with the development of nuisance algae and duckweed growth in impounded and backwater areas of the Upper Mississippi River. An abstract and presentation of this work was made in St. Louis last October.  
[http://www.epa.gov/msbasin/taskforce/nutrient\\_workshop/pdf/session-c2\\_2.pdf](http://www.epa.gov/msbasin/taskforce/nutrient_workshop/pdf/session-c2_2.pdf)

**Objective:**  
**Comments:** This higher level of the project contains 2005 to present. the two 'child projects' connected contains previous years data an the project. Bulk download work should ensure to query both project levels.  
**Outcome:**  
**Study Design:**  
**QA Measures:**

### People

| Name              | Role        | Status   | Start Date | End Date   | Organization  | Comments |
|-------------------|-------------|----------|------------|------------|---------------|----------|
| GIBLIN, SHAWN M   | COORDINATOR | ACTIVE   | 09/08/2014 |            | Wisconsin DNR |          |
| STRASSMAN, SARA L | COORDINATOR | ACTIVE   | 04/04/2014 |            | Wisconsin DNR |          |
| SULLIVAN, JOHN F  | COORDINATOR | COMPLETE | 05/29/2006 | 07/01/2014 | Wisconsin DNR |          |
| UNMUTH, JEAN M    | TEAM_MEMBER | COMPLETE | 07/01/2003 | 01/15/2020 | Wisconsin DNR |          |

### Project Statuses

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

### Actions

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

### Monitoring Stations

| Station ID | Name                             | Comments |
|------------|----------------------------------|----------|
| 10029810   | Artesian Well Desoto Pond Pool 9 |          |
| 10031525   | Avoca Lake Deep Hole             |          |
| 10029808   | Blue Lake Site 1 Pool 8          |          |
| 10029809   | Blue Lake Site 2 Pool 8          |          |
| 10031568   | Conway Lake - Pool 9             |          |
| 10031567   | Dairyland Power Rail loop pond   |          |
| 123075     | De Soto Pond - Along Hwy 35      |          |
| 10019463   | Helen Lake -- Landing            |          |
| 10031527   | Helen Lake Deep Hole             |          |

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| Station ID | Name   | Comments |
|------------|--|----------|
| 10037733   | La Crosse Marsh East Site  |          |
| 10037734   | La Crosse Marsh North Site                                       |          |
| 10037735   | La Crosse Marsh West Site  |          |
| 323132     | Lake Onalaska - Brice Prairie Channel 1/4 Mile Above Lake        |          |
| 323140     | Lake Onalaska - Lake Onalaska Off Brice Prairie Channel          |          |
| 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                        |          |
| 633170     | Miss River-Wetland Adjacent To Goose Island Road First Culvert - |          |
| 323139     | Mississippi River - Blue Lake Near Lacrescent Wwtp               |          |
| 633166     | Mississippi River - Stoddard Wetland N End                       |          |
| 633167     | Mississippi River -Stoddard Wetland South End -                  |          |
| 10029009   | Mississippi River at Target Lake East                            |          |
| 10029010   | Mississippi River at Target Lake West                            |          |
| 633168     | Mississippi River-Wetland At Goose Island Road And Hwy 35        |          |
| 10031594   | Second Lake north end - Pool 7                                   |          |
| 10031569   | Spring Lake Pool 10  |          |
| 10019809   | Thompson Lake -- Access  |          |
| 10031501   | Unnamed Slough Near Blue Mounds Creek Mouth                      |          |
| 10031524   | Unnamed Slough Near Blue River                                   |          |
| 10031502   | Unnamed Slough near Lowery Cr. Mouth                             |          |
| 10031503   | Unnamed Slough near Morrey Creek Mouth                           |          |
| 10031526   | Unnamed WI River Slough Downstream of Rush Creek                 |          |
| 063076     | Wetland Above Ld 5a Near Hwy 35                                  |          |
| 633169     | Wetland S of Coon Cr Betw. Hwy 35 & RR                           |          |
| 323129     | Wetland W Of Pettibone Park -                                    |          |

### Assessment Units

| WBIC    | Segment | Local Name   | Official Name     |
|---------|---------|--|-------------------|
| 721000  | 2       | Mississippi (Reach 2) Buffalo-Whitewater - Chippewa River to LD 6 (lower Pool 4 to Pool 6) | Mississippi River |
| 721000  | 3       | Mississippi (Reach 3) LaCrosse-Pine - LD 6 to Root River (Pool 7 to upper Pool 8)          | Mississippi River |
| 721000  | 4       | Mississippi (Reach 4) Coon-Yellow - Pool 8 portion - LD 8 to Root R.)                      | Mississippi River |
| 724300  | 1       | Spring Lake  | Spring Lake       |
| 728100  | 1       | Lake Onalaska  | Lake Onalaska     |
| 728800  | 1       | Second Lake  | Second Lake       |
| 1219900 | 1       | Marsh Creek  | Marsh Creek       |
| 1242400 | 1       | Helen Lake   | Helen Lake        |
| 1248400 | 1       | Blue Mounds Creek  | Blue Mounds Creek |
| 1634500 | 1       | Un Lake  | Unnamed           |
| 1636900 | 1       | Un Lake  | Unnamed           |
| 1813500 | 1       | Mississippi backwater (Lizzie Pauls Pond)  | Lizzie Pauls Pond |
| 2055200 | 1       | Thompson Lake  | Thompson Lake     |
| 3000257 | 1       | Unnamed Lake   | Unnamed           |
| 5561990 | 1       | La Crosse River Marsh  | Unnamed           |
| 5561990 | 2       |  | Unnamed           |
| 5562016 | 1       | La Crosse River Marsh  | Unnamed           |
| 5574267 | 1       | Local Water  | Unnamed           |

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| WBIC    | Segment | Local Name   | Official Name |
|---------|---------|--------------|---------------|
| 5582338 | 1       | Unnamed Lake | Unnamed       |
| 5588642 | 1       | Local Water  | Unnamed       |
| 5589786 | 1       | Target Lake  | Target Lake   |

### Lab Account Codes

| Account Code | Description                    | Start Date | End Date   |
|--------------|--------------------------------|------------|------------|
| MR006        | MISS RIVER NUTRIENT IMPAIRMENT | 07/01/2003 | 06/30/2004 |
| MR010        | MISS RIVER NUTRIENT IMPAIRMENT | 07/01/2004 | 06/30/2005 |
| MR013        | NUTRIENT IMPAIRMENT STUDY      | 07/01/2005 | 06/30/2006 |
| MR018        | NUTRIENT IMPAIRMENT STUDY      | 07/01/2006 | 06/29/2007 |
| MR023        | NUTRIENT IMPAIRMENT STUDY      | 07/01/2007 | 06/30/2008 |
| MR029        | NUTRIENT IMPAIRMENT STUDY      | 05/27/2008 | 06/30/2009 |
| MR040        | NUTRIENT IMPAIRMENT STUDY      | 05/03/2011 | 06/30/2011 |

### Forms

| Form Code | Form Name                  |
|-----------|----------------------------|
| INORGANIC | Inorganic Lab - Field Data |

### Methods

| Method Code | Description |
|-------------|-------------|
|-------------|-------------|

### Fieldwork Events

| Start Date       | Status   | Field ID | Station ID | Station Name   |
|------------------|----------|----------|------------|--|
| 08/01/2005 11:10 | COMPLETE | 002      | 123075     | De Soto Pond - Along Hwy 35                                      |
| 08/02/2005 09:50 | COMPLETE | 001      | 633169     | Wetland S of Coon Cr Betw. Hwy 35 & RR                           |
| 08/02/2005 11:02 | COMPLETE | 002      | 633167     | Mississippi River -Stoddard Wetland South End -                  |
| 08/02/2005 11:38 | COMPLETE | 003      | 633166     | Mississippi River - Stoddard Wetland N End                       |
| 08/02/2005 13:05 | COMPLETE | 004      | 633170     | Miss River-Wetland Adjacent To Goose Island Road First Culvert - |
| 08/02/2005 13:44 | COMPLETE | 005      | 633168     | Mississippi River-Wetland At Goose Island Road And Hwy 35        |
| 08/03/2005 10:10 | COMPLETE | 001      | 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                        |
| 08/03/2005 10:55 | COMPLETE | 002      | 063076     | Wetland Above Ld 5a Near Hwy 35                                  |
| 08/03/2005 12:40 | COMPLETE | 003      | 323139     | Mississippi River - Blue Lake Near Lacrescent Wwtp               |
| 08/08/2005 11:30 | COMPLETE | 001      | 323132     | Lake Onalaska - Brice Prairie Channel 1/4 Mile Above Lake        |
| 08/08/2005 12:05 | COMPLETE | 002      | 323140     | Lake Onalaska - Lake Onalaska Off Brice Praire Channel           |
| 07/25/2007 11:45 | COMPLETE | 001      | 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                        |
| 07/24/2008 09:42 | COMPLETE | 001      | 10029009   | Mississippi River at Target Lake East                            |
| 07/24/2008 10:00 | COMPLETE | 002      | 10029010   | Mississippi River at Target Lake West                            |
| 07/24/2008 12:20 | COMPLETE | 003      | 323132     | Lake Onalaska - Brice Prairie Channel 1/4 Mile Above Lake        |
| 07/28/2008 10:30 | COMPLETE | 001      | 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                        |
| 08/05/2008 11:41 | COMPLETE | 001      | 323129     | Wetland W Of Pettibone Park -                                    |
| 08/05/2008 12:50 | COMPLETE | 002      | 633166     | Mississippi River - Stoddard Wetland N End                       |
| 02/09/2009 10:00 | COMPLETE | 001      | 10029009   | Mississippi River at Target Lake East                            |
| 02/09/2009 10:19 | COMPLETE | 002      | 10029010   | Mississippi River at Target Lake West                            |
| 02/10/2009 09:18 | COMPLETE | 003      | 10029808   | Blue Lake Site 1 Pool 8  |
| 02/10/2009 09:18 | COMPLETE | 003      | 10029808   | Blue Lake Site 1 Pool 8  |

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| Start Date       | Status   | Field ID | Station ID | Station Name  |
|------------------|----------|----------|------------|---|
| 02/10/2009 09:40 | COMPLETE | 004      | 10029809   | Blue Lake Site 2 Pool 8                                   |
| 02/10/2009 09:40 | COMPLETE | 004      | 10029809   | Blue Lake Site 2 Pool 8                                   |
| 02/10/2009 11:08 | COMPLETE | 005      | 123075     | De Soto Pond - Along Hwy 35                               |
| 02/10/2009 11:08 | COMPLETE | 005      | 123075     | De Soto Pond - Along Hwy 35                               |
| 02/26/2009 11:00 | COMPLETE | 002      | 123075     | De Soto Pond - Along Hwy 35                               |
| 02/26/2009 11:00 | COMPLETE | 003      | 10029009   | Mississippi River at Target Lake East                     |
| 02/26/2009 11:00 | COMPLETE | 004      | 10029010   | Mississippi River at Target Lake West                     |
| 02/26/2009 11:00 | COMPLETE | 005      | 10029808   | Blue Lake Site 1 Pool 8                                   |
| 02/26/2009 11:00 | COMPLETE | 006      | 10029809   | Blue Lake Site 2 Pool 8                                   |
| 07/28/2009       | COMPLETE | 001      | 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                 |
| 07/29/2009 10:10 | COMPLETE | 001      | 123075     | De Soto Pond - Along Hwy 35                               |
| 07/29/2009 11:40 | COMPLETE | 002      | 633166     | Mississippi River - Stoddard Wetland N End                |
| 07/19/2010 10:30 | COMPLETE | SLOUGH 1 | 10031501   | Unnamed Slough Near Blue Mounds Creek Mouth               |
| 07/19/2010 11:40 | COMPLETE | SLOUGH 5 | 10019463   | Helen Lake -- Landing                                     |
| 07/28/2010 11:30 | COMPLETE | 001      | 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                 |
| 07/29/2010 10:00 | COMPLETE | 002      | 633166     | Mississippi River - Stoddard Wetland N End                |
| 07/29/2010 10:45 | COMPLETE | 003      | 633169     | Wetland S of Coon Cr Betw. Hwy 35 & RR                    |
| 07/29/2010 11:45 | COMPLETE | 004      | 123075     | De Soto Pond - Along Hwy 35                               |
| 08/05/2010       | COMPLETE | SLOUGH2  | 10031502   | Unnamed Slough near Lowery Cr. Mouth                      |
| 08/05/2010       | COMPLETE | SLOUGH4  | 10031526   | Unnamed WI River Slough Downstream of Rush Creek          |
| 08/05/2010 11:45 | COMPLETE | 001      | 10031567   | Dairyland Power Rail loop pond                            |
| 08/05/2010 14:00 | COMPLETE | 002      | 10031594   | Second Lake north end - Pool 7                            |
| 08/10/2010 09:25 | COMPLETE | 001      | 323132     | Lake Onalaska - Brice Prairie Channel 1/4 Mile Above Lake |
| 08/10/2010 11:20 | COMPLETE | 002      | 10029010   | Mississippi River at Target Lake West                     |
| 08/12/2010 10:00 | COMPLETE | SLOUGH 6 | 10031524   | Unnamed Slough Near Blue River                            |
| 08/12/2010 11:00 | COMPLETE | SLOUGH 7 | 10031525   | Avoca Lake Deep Hole                                      |
| 08/12/2010 12:00 | COMPLETE | SLOUGH 3 | 10031503   | Unnamed Slough near Morrey Creek Mouth                    |
| 07/15/2011 16:00 | COMPLETE | 001      | 10029010   | Mississippi River at Target Lake West                     |
| 07/16/2011 09:30 | COMPLETE | 002      | 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                 |
| 07/25/2011 09:30 | COMPLETE | 001      | 10029010   | Mississippi River at Target Lake West                     |
| 07/25/2011 12:45 | COMPLETE | 002      | 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                 |
| 08/03/2011 09:50 | COMPLETE | 001      | 10029010   | Mississippi River at Target Lake West                     |
| 08/03/2011 12:30 | COMPLETE | 002      | 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                 |
| 08/11/2011 08:35 | COMPLETE | 001      | 10029010   | Mississippi River at Target Lake West                     |
| 08/11/2011 11:40 | COMPLETE | 002      | 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                 |
| 08/18/2011 10:40 | COMPLETE | 002      | 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                 |
| 08/22/2011 09:00 | COMPLETE | 001      | 10029010   | Mississippi River at Target Lake West                     |
| 07/23/2012 09:30 | COMPLETE | 004      | 10037734   | La Crosse Marsh North Site                                |
| 07/23/2012 10:20 | COMPLETE | 002      | 10037735   | La Crosse Marsh West Site                                 |
| 07/23/2012 10:50 | COMPLETE | 003      | 10037733   | La Crosse Marsh East Site                                 |
| 07/24/2012 12:50 | COMPLETE | 001      | 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                 |
| 08/13/2012 13:40 | COMPLETE | 001      | 10029010   | Mississippi River at Target Lake West                     |
| 08/15/2012 09:20 | COMPLETE | 001      | 633166     | Mississippi River - Stoddard Wetland N End                |
| 08/28/2012 09:50 | COMPLETE | 001      | 10037734   | La Crosse Marsh North Site                                |
| 07/10/2013 13:19 | COMPLETE | 001      | 10019809   | Thompson Lake -- Access                                   |
| 07/11/2013 10:55 | COMPLETE | 002      | 10037733   | La Crosse Marsh East Site                                 |
| 07/12/2013 10:15 | COMPLETE | 003      | 063074     | Lizzy Pauls Pond - Near Wayside on Hwy 35                 |

## Wisconsin Department of Natural Resources SWIMS Project Summary

### Documents

| Title   | Description  | Author  | Published  | Comments  |
|---|--|---|------------|---|
| MISSISSIPPI - LAKE ONALASKA - FILAMENTOUS ALGAE - 2                                       | Filamentous Algae Photo 2  | Sullivan, John                                | 08/10/2005 |   |
| MISSISSIPPI - SAMPLING SURFACE VEGETATION   | Sampling Surface Vegetation, Mississippi main channel border in Pool 9 near Lynxville, WI.   | Sullivan, John                                | 11/10/2003 | NUTRIENT STUDY LAKE ONLASKSA, SURFACE VEGETATION SAMPLE |
| MISSISSIPPI-LAKE ONALASKA - FILAMENTOUS ALGAE - 1   | FILAMENTOUS ALGAE PIC 1  | Sullivan, John                                | 08/10/2005 |   |
| NUTRIENT IMPAIRMENT IDENTIFICATION IN THE UPPER MISSISSIPPI RIVER STATION MAP FROM GOOGLE | <a href="http://www.epa.gov/msbasin/">http://www.epa.gov/msbasin/</a><br><a href="http://www.epa.gov/msbasin/taskforce/index.htm">http://www.epa.gov/msbasin/taskforce/index.htm</a> | Sullivan, John;<br>Fischer, Jim; Houser, Jeff | 10/05/2005 |   |

### Budget

**Combined Budgets:**

**Combined SLOH:**

**Combined Total:**

### Funding

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