

Wisconsin Department of Natural Resources  
SWIMS Project Summary

General Project Information

**Project ID:** SCR\_09\_CMP12

**Name:** Silver Spring PI Project - Water Chemistry

**Type:** TMDL/303d Projects

**Subtype:** Refine Load Estimates

**Status:** COMPLETE

**Start Date:** 5/1/2011

**End Date:** 10/31/2012

**Purpose:** Silver Spring Creek in Lafayette County is on the state's list of impaired waters due to habitat degradation from sediment. In 2010, a project was initiated to monitor phosphorus and sediment loads entering the stream. The project will then look to manage upland sources of sediment and nutrients in order to improve water quality and eventually remove the site from the impaired waters list.

**Objective:** This project specifically looks to continue monitoring of sediment and nutrient loads at 5 sites in the watershed during the growing season in accordance with WISCALM guidance. Since there is no USGS gauging station on this stream, water chemistry data will be necessary to determine the success of this project. This proposal continues collection of water chemistry data in accordance with WISCALM guidance and expands it to include several contributing tributaries in the watershed.

**Comments:** Project Category 2: 303(d) Impaired Waters List Project

**Outcome:** 5 sites will be assessed once per month during the growing season (May - October). Total suspended sediment, phosphorus, and the nitrogen series will be analyzed.

Data will be entered into SWIMS.

**Study Design:** 5 sites will be assessed once per month during the growing season (May - October). Total suspended sediment, phosphorus, and the nitrogen series will be analyzed.

Data will be entered into SWIMS.

**QA Measures:**

| People           |              |          |            |            |               |                                           |
|------------------|--------------|----------|------------|------------|---------------|-------------------------------------------|
| Name             | Role         | Status   | Start Date | End Date   | Organization  | Comments                                  |
| AMRHEIN, JAMES F | PROJECT_LEAD | COMPLETE | 5/1/2011   | 10/31/2012 | Wisconsin DNR | Samples will be collected by a volunteer. |

| Project Statuses |                 |          |                                                                                                                                                                             |
|------------------|-----------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date             | Reported By     | Status   | Comments                                                                                                                                                                    |
| 1/28/2011        | MOLLI MACDONALD | Proposed |                                                                                                                                                                             |
| 1/19/2012        | JAMES AMRHEIN   | Complete | Water chemistry samples were collected during the growing season of 2011 as planned. All data has been entered into SWIMS. A summary of data has been shared with partners. |

| Actions                               |                                                                                                                                                                                  |            |            |          |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|----------|
| Action                                | Detailed Description                                                                                                                                                             | Start Date | End Date   | Status   |
| Monitor or Assess Watershed Condition | This project specifically looks to continue monitoring of sediment and nutrient loads at 5 sites in the watershed during the growing season in accordance with WISCALM guidance. | 5/1/2011   | 10/31/2012 | COMPLETE |

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| Details: Parameter                | Value/Amount                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Units    | Comments   |          |  |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|----------|--|
| Total Nitrogen                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |            |          |  |
| Total Phosphorus                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |            |          |  |
| Total Suspended Solids            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |            |          |  |
| Monitor Water Quality or Sediment | SWIMS Stations: 10031346, 10014194,10031350, 10031345, 10014238. Silver Spring Creek in Lafayette County is on the state's list of impaired waters due to habitat degradation from sediment. In 2010, a project was initiated to monitor phosphorus and sediment loads entering the stream. The project will then look to manage upland sources of sediment and nutrients in order to improve water quality and eventually remove the site from the impaired waters list. | 5/1/2011 | 10/31/2012 | PROPOSED |  |

Monitoring Stations

| Station ID | Name                                                               | Comments |
|------------|--------------------------------------------------------------------|----------|
| 10014194   | Silver Spring Creek Baseline (at Walnut Rd)                        |          |
| 10014238   | Silver Spring Creek-Baseline Lower (at Silver Spring Rd)           |          |
| 10031346   | Unnamed Tributary (5040863) to Silver Spring Creek                 |          |
| 10031345   | Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd       |          |
| 10031350   | Unnamed Tributary (917900) to Silver Spring Creek S of Walnut Road |          |

Assessment Units

| WBIC   | Segment | Local Name                            | Official Name                |
|--------|---------|---------------------------------------|------------------------------|
| 873200 | 1       | Unnamed water to the Pecatonica River | Unnamed                      |
| 888600 | 1       | Bloody Lake                           | Bloody Lake                  |
| 888700 | 1       | Horseshoe Lake                        | Horseshoe Lake               |
| 888800 | 1       | Un Lake                               | Unnamed                      |
| 888900 | 1       | Un Lake                               | Unnamed                      |
| 889000 | 1       | Un Lake                               | Unnamed                      |
| 889100 | 1       | Pecatonica River                      | Pecatonica River             |
| 889100 | 2       | Pecatonica River                      | Pecatonica River             |
| 889100 | 3       | Pecatonica River                      | Pecatonica River             |
| 893700 | 1       | Local Water                           | Unnamed                      |
| 894100 | 1       | Local Water                           | Unnamed                      |
| 897800 | 1       | E. Br. Pecatonica River               | East Branch Pecatonica River |
| 897800 | 2       | E. Br. Pecatonica River               | East Branch Pecatonica River |
| 897800 | 5       | E. Br. Pecatonica River               | East Branch Pecatonica River |
| 898000 | 1       | Unnamed Stream                        | Unnamed                      |

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|        |   |                                                             |                      |
|--------|---|-------------------------------------------------------------|----------------------|
| 898500 | 1 | Cherry Branch                                               | Cherry Br            |
| 898800 | 1 | Cherry Branch Trib                                          | Unnamed              |
| 898900 | 1 | Cherry Branch                                               | Unnamed              |
| 899000 | 1 | Cherry Branch Trib                                          | Unnamed              |
| 899400 | 1 | Trotter Branch                                              | Trotter Br           |
| 899500 | 1 | Jockey Hollow Creek                                         | Unnamed              |
| 899700 | 1 | Whiteside Creek                                             | Whiteside Creek      |
| 899700 | 2 | Whiteside Creek                                             | Whiteside Creek      |
| 899700 | 3 | Whiteside Creek                                             | Whiteside Creek      |
| 899800 | 1 | Apple Branch                                                | Apple Branch         |
| 899800 | 3 | Apple Branch                                                | Apple Branch         |
| 900700 | 1 | Braezels Branch                                             | Braezels Br          |
| 901000 | 1 | Dougherty Creek                                             | Dougherty Creek      |
| 902200 | 1 | Local Water                                                 | Unnamed              |
| 902300 | 1 | Mud Branch                                                  | Mud Br               |
| 902300 | 2 | Mud Branch                                                  | Mud Br               |
| 902300 | 4 | Mud Branch                                                  | Mud Br               |
| 902400 | 1 | Local Water                                                 | Unnamed              |
| 902500 | 1 | Yellowstone River                                           | Yellowstone River    |
| 902500 | 2 | Yellowstone River                                           | Yellowstone River    |
| 902500 | 3 | Yellowstone River                                           | Yellowstone River    |
| 902500 | 4 | Yellowstone River                                           | Yellowstone River    |
| 902700 | 1 | Mc Clintock Creek                                           | McClintock Creek     |
| 903400 | 1 | Unnamed Lake                                                | Unnamed              |
| 903450 | 1 | Hidden Valley Lake                                          | Hidden Valley Lake 1 |
| 903700 | 1 | Yellowstone Lake                                            | Yellowstone Lake     |
| 903700 | 2 | Yellowstone Lake State Park Swim Beach,<br>Yellowstone Lake | Yellowstone Lake     |
| 904000 | 1 | Steiner Branch                                              | Steiner Br           |
| 904000 | 3 | Steiner Branch                                              | Steiner Br           |
| 904200 | 1 | Unnamed Trib to Steiner Br                                  | Unnamed              |
| 904400 | 1 | Unnamed Trib to Steiner Branch                              | Unnamed              |
| 904500 | 1 | Cannon Creek                                                | Canon Creek          |
| 904700 | 1 | Local Water                                                 | Unnamed              |
| 904800 | 1 | Local Water                                                 | Unnamed              |
| 904800 | 2 | Local Water                                                 | Unnamed              |

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|        |   |                                                |                     |
|--------|---|------------------------------------------------|---------------------|
| 905000 | 1 | Local Water                                    | Unnamed             |
| 905700 | 1 | Brennan Creek                                  | Brennan Creek       |
| 905700 | 2 | Brennan Creek                                  | Brennan Creek       |
| 905900 | 1 | Local Water                                    | Unnamed             |
| 906000 | 1 | Sawmill Creek                                  | Sawmill Creek       |
| 906000 | 2 | Sawmill Creek                                  | Sawmill Creek       |
| 906200 | 1 | Erickson Creek                                 | Erickson Creek      |
| 906800 | 1 | Local Water                                    | Unnamed             |
| 906900 | 1 | Local Water                                    | Unnamed             |
| 907000 | 1 | Local Water                                    | Unnamed             |
| 907100 | 1 | Local Water                                    | Unnamed             |
| 907200 | 1 | Local Water                                    | Unnamed             |
| 907300 | 1 | Gordon Creek (Big Spring Cr Or Blue Mounds Cr) | Gordon Creek        |
| 915600 | 1 | Spafford Creek                                 | Spafford Creek      |
| 915700 | 1 | Local Water                                    | Unnamed             |
| 915800 | 1 | Turtle Creek                                   | Turtle Creek        |
| 915900 | 1 | Brown Branch                                   | Brown Br            |
| 915900 | 3 | Brown Branch                                   | Brown Br            |
| 916000 | 1 | Unnamed Stream                                 | Unnamed             |
| 916100 | 1 | Unnamed Stream                                 | Unnamed             |
| 916300 | 1 | Unnamed Stream                                 | Unnamed             |
| 916500 | 1 | Unnamed Stream                                 | Unnamed             |
| 916700 | 1 | Local Water                                    | Unnamed             |
| 916800 | 1 | Local Water                                    | Unnamed             |
| 917400 | 1 | Feather Branch                                 | Feather Br          |
| 917400 | 2 | Feather Branch                                 | Feather Br          |
| 917700 | 1 | Silver Spring Creek                            | Silver Spring Creek |
| 917800 | 1 | Local Water                                    | Unnamed             |
| 917900 | 1 | Local Water                                    | Unnamed             |
| 918000 | 1 | Wolf Creek                                     | Wolf Creek          |
| 918000 | 2 | Wolf Creek                                     | Wolf Creek          |
| 918000 | 3 | Wolf Creek                                     | Wolf Creek          |
| 918000 | 4 | Wolf Creek                                     | Wolf Creek          |
| 918100 | 1 | Trout Brook (Slawther Creek)                   | Trout Brook         |
| 918100 | 2 | Trout Brook (Slawther Creek)                   | Trout Brook         |

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|        |   |                                          |                    |
|--------|---|------------------------------------------|--------------------|
| 918200 | 1 | Unnamed Stream                           | Unnamed            |
| 919600 | 1 | Trib To Wolf Creek                       | Unnamed            |
| 919800 | 1 | Copper Creek                             | Copper Creek       |
| 919800 | 4 | Copper Creek                             | Copper Creek       |
| 920700 | 1 | Lovetts Creek                            | Lovett Creek       |
| 920700 | 2 | Lovetts Creek                            | Lovett Creek       |
| 921100 | 1 | Thunder Branch                           | Thunder Br         |
| 921200 | 1 | Ames Branch                              | Ames Br            |
| 921400 | 1 | Local Water                              | Unnamed            |
| 922800 | 1 | N. Fork Ames Branch                      | North Fork Ames Br |
| 923100 | 1 | S. Fork Ames Branch                      | South Fork Ames Br |
| 923300 | 1 | Otter Creek                              | Otter Creek        |
| 923400 | 1 | Gravel Run Creek                         | Gravel Run Creek   |
| 923400 | 2 | Gravel Run Creek                         | Gravel Run Creek   |
| 924000 | 1 | Local Water                              | Unnamed            |
| 924100 | 1 | Unnamed Trib To Otter Creek (T3nr3es24)  | Unnamed            |
| 924800 | 1 | Local Water                              | Unnamed            |
| 925300 | 1 | Local Water                              | Unnamed            |
| 925500 | 1 | Unnamed Trib to Otter Cr at CTH S        | Unnamed            |
| 925750 | 1 | Un Lake                                  | Unnamed            |
| 925900 | 1 | Vinegar Branch                           | Vinegar Br         |
| 926300 | 1 | Wood Branch                              | Wood Br            |
| 926600 | 1 | Unnamed Trib to Wood Branch              | Unnamed            |
| 927000 | 1 | Bonner Branch                            | Bonner Br          |
| 927100 | 1 | Cottage Inn Branch                       | Cottage Inn Branch |
| 927100 | 2 | Cottage Inn Branch                       | Cottage Inn Branch |
| 927300 | 1 | Whiteside Branch                         | Whiteside Br       |
| 927800 | 1 | Unnamed Trib To Pecatonica R (T3nr3es05) | Unnamed            |
| 927900 | 1 | Mineral Point Branch                     | Mineral Point Br   |
| 928000 | 1 | Furnace Creek/Brewery Creek              | Furnace Creek      |
| 928000 | 2 | Furnace Creek/Brewery Creek              | Furnace Creek      |
| 928300 | 1 | Unnamed                                  | Unnamed            |
| 931800 | 1 | Jones Branch                             | Jones Br           |
| 933500 | 1 | Apple River                              | Apple River        |
| 933600 | 1 | Clear Cr                                 | Clear Creek        |

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|        |   |                                     |                        |
|--------|---|-------------------------------------|------------------------|
| 934200 | 1 | Kentucky Creek                      | Kentucky Creek         |
| 934700 | 1 | Unnamed Stream                      | Unnamed                |
| 935300 | 1 | Unnamed Trib to Apple R             | Unnamed                |
| 935500 | 1 | Galena River                        | Fever River            |
| 935500 | 2 | Galena River                        | Fever River            |
| 935600 | 2 | East Fork Galena River              | East Fork Galena River |
| 936300 | 1 | Scrabble Creek                      | Scrabble Br            |
| 936400 | 1 | Bull Branch                         | Bull Br                |
| 936500 | 1 | Coon Branch                         | Coon Br                |
| 936500 | 2 | Coon Branch                         | Coon Br                |
| 936500 | 3 | Coon Branch                         | Coon Br                |
| 936500 | 4 | Coon Branch                         | Coon Br                |
| 936600 | 1 | Kelsey Br                           | Kelsey Br              |
| 936600 | 2 | Kelsey Br                           | Kelsey Br              |
| 936800 | 1 | Diggings Creek                      | Diggings Creek         |
| 936900 | 1 | Ellis Branch                        | Ellis Br               |
| 937000 | 1 | Shullsburg Creek                    | Shullsburg Br          |
| 937200 | 1 | Spring Br                           | Spring Br              |
| 937700 | 1 | Shullsburg Trib                     | Unnamed                |
| 937800 | 1 | Un Tr To Shullsburg Br              | Unnamed                |
| 937800 | 2 | DUPLICATE                           | Unnamed                |
| 938200 | 1 | Local Water                         | Unnamed                |
| 938500 | 1 | Local Water                         | Unnamed                |
| 938600 | 1 | Blacks Creek                        | Blacks Creek           |
| 938900 | 1 | Local Water                         | Unnamed                |
| 939100 | 1 | Madden Br                           | Madden Br              |
| 939200 | 1 | Local Water                         | Unnamed                |
| 939300 | 1 | Local Water                         | Unnamed                |
| 939400 | 1 | Local Water                         | Unnamed                |
| 939700 | 1 | Local Water                         | Unnamed                |
| 939800 | 1 | Pats Creek                          | Pats Creek             |
| 939900 | 1 | Local Water                         | Unnamed                |
| 940100 | 1 | Un Trib To Galena River (Elk Grove) | Unnamed                |
| 944500 | 1 | Blockhouse Creek                    | Blockhouse Creek       |
| 946000 | 3 | Rountree Br                         | Rountree Br            |

7/25/2024

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|         |   |                                          |            |
|---------|---|------------------------------------------|------------|
| 947100  | 1 | Mounds Branch                            | Mounds Br  |
| 947100  | 2 | Mounds Branch                            | Mounds Br  |
| 947700  | 1 | Local Water                              | Unnamed    |
| 3000517 | 1 | Local Water                              | Unnamed    |
| 3000630 | 1 | TRIBUTARY TO SHULLSBURG BRANCH           | Unnamed    |
| 4000020 | 1 | Lake Joy                                 | Lake Joy 2 |
| 5038836 | 1 | Unnamed Stream                           | Unnamed    |
| 5038860 | 1 | Unnamed Stream                           | Unnamed    |
| 5038864 | 1 | Local Water                              | Unnamed    |
| 5039109 | 1 | Unnamed Trib to Mineral Point Br         | Unnamed    |
| 5039704 | 1 | Local Water                              | Unnamed    |
| 5039752 | 1 | Local Water                              | Unnamed    |
| 5039775 | 1 | Local Water                              | Unnamed    |
| 5039789 | 1 | Local Water                              | Unnamed    |
| 5039798 | 1 | Local Water                              | Unnamed    |
| 5039800 | 1 | Local Water                              | Unnamed    |
| 5039908 | 1 | Local Water                              | Unnamed    |
| 5039942 | 1 | Local Water                              | Unnamed    |
| 5039958 | 1 | Local Water                              | Unnamed    |
| 5039967 | 1 | Local Water                              | Unnamed    |
| 5039975 | 1 | Local Water                              | Unnamed    |
| 5039976 | 1 | Local Water                              | Unnamed    |
| 5040044 | 1 | Local Water                              | Unnamed    |
| 5040059 | 1 | Local Water                              | Unnamed    |
| 5040081 | 1 | Local Water                              | Unnamed    |
| 5040087 | 1 | Unnamed Stream                           | Unnamed    |
| 5040136 | 1 | Local Water                              | Unnamed    |
| 5040863 | 1 | Unnamed Tributary to Silver Spring Creek | Unnamed    |
| 5040896 | 1 | Local Water                              | Unnamed    |
| 5041212 | 1 | Unnamed Stream                           | Unnamed    |
| 5041500 | 1 | Unnamed Stream                           | Unnamed    |
| 5041775 | 1 | Unnamed Stream                           | Unnamed    |
| 5041776 | 1 | Unnamed Stream                           | Unnamed    |
| 5041857 | 1 | Local Water                              | Unnamed    |
| 5041924 | 1 | Unnamed Stream                           | Unnamed    |

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|         |   |                |         |
|---------|---|----------------|---------|
| 5041933 | 1 | Unnamed Stream | Unnamed |
| 5042082 | 1 | Unnamed Stream | Unnamed |
| 5042127 | 1 | Unnamed Stream | Unnamed |
| 5042179 | 1 | Unnamed Stream | Unnamed |
| 5042229 | 1 | Unnamed Stream | Unnamed |
| 5577959 | 1 | Local Water    | Unnamed |
| 5578005 | 1 | Local Water    | Unnamed |
| 5578053 | 1 | Local Water    | Unnamed |
| 5578208 | 1 | Local Water    | Unnamed |
| 5578256 | 1 | Local Water    | Unnamed |
| 5578314 | 1 | Local Water    | Unnamed |
| 5578337 | 1 | Local Water    | Unnamed |
| 5578394 | 1 | Local Water    | Unnamed |
| 5578529 | 1 | Local Water    | Unnamed |
| 5578723 | 1 | Local Water    | Unnamed |
| 5578736 | 1 | Local Water    | Unnamed |
| 5579404 | 1 | Local Water    | Unnamed |
| 5579524 | 1 | Local Water    | Unnamed |
| 5579660 | 1 | Local Water    | Unnamed |
| 5579675 | 1 | Local Water    | Unnamed |
| 5579720 | 1 | Local Water    | Unnamed |
| 5579828 | 1 | Local Water    | Unnamed |
| 5580001 | 1 | Local Water    | Unnamed |
| 5580019 | 1 | Local Water    | Unnamed |
| 5580050 | 1 | Local Water    | Unnamed |
| 5580233 | 1 | Local Water    | Unnamed |
| 5580273 | 1 | Local Water    | Unnamed |
| 5580570 | 1 | Local Water    | Unnamed |
| 5580815 | 1 | Local Water    | Unnamed |

| Lab Account Codes |                      |            |           |
|-------------------|----------------------|------------|-----------|
| Account Code      | Description          | Start Date | End Date  |
| WT142             | 303D/TMDL MONITORING | 5/3/2011   | 6/30/2012 |

| Forms      |                        |
|------------|------------------------|
| Form Code  | Form Name              |
| CONTINUOUS | Continuous Data Upload |



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| Methods          |          |                    |            |                                                                    |
|------------------|----------|--------------------|------------|--------------------------------------------------------------------|
| Method Code      |          | Method Description |            |                                                                    |
| Fieldwork Events |          |                    |            |                                                                    |
| Start Date       | Status   | Field ID           | Station ID | Station Name                                                       |
| 5/24/2011 6:27   | COMPLETE | 0550               | 10031350   | Unnamed Tributary (917900) to Silver Spring Creek S of Walnut Road |
| 5/24/2011 6:40   | COMPLETE | 0594               | 10014194   | Silver Spring Creek Baseline (at Walnut Rd)                        |
| 5/24/2011 6:50   | COMPLETE | 0546               | 10031346   | Unnamed Tributary (5040863) to Silver Spring Creek                 |
| 5/24/2011 7:05   | COMPLETE | 0545               | 10031345   | Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd       |
| 5/24/2011 7:20   | COMPLETE | 0538               | 10014238   | Silver Spring Creek-Baseline Lower (at Silver Spring Rd)           |
| 6/27/2011        | COMPLETE | 450627             | 10031345   | Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd       |
| 6/27/2011 8:30   | COMPLETE | 500627             | 10031350   | Unnamed Tributary (917900) to Silver Spring Creek S of Walnut Road |
| 6/27/2011 8:40   | COMPLETE | 460627             | 10031346   | Unnamed Tributary (5040863) to Silver Spring Creek                 |
| 6/27/2011 8:40   | COMPLETE | 940627             | 10014194   | Silver Spring Creek Baseline (at Walnut Rd)                        |
| 6/27/2011 9:20   | COMPLETE | 380627             | 10014238   | Silver Spring Creek-Baseline Lower (at Silver Spring Rd)           |
| 7/27/2011 6:20   | COMPLETE | 072701             | 10031350   | Unnamed Tributary (917900) to Silver Spring Creek S of Walnut Road |
| 7/27/2011 6:30   | COMPLETE | 072702             | 10014194   | Silver Spring Creek Baseline (at Walnut Rd)                        |
| 7/27/2011 6:40   | COMPLETE | 072703             | 10031346   | Unnamed Tributary (5040863) to Silver Spring Creek                 |
| 7/27/2011 6:55   | COMPLETE | 072704             | 10031345   | Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd       |
| 7/27/2011 7:15   | COMPLETE | 072705             | 10014238   | Silver Spring Creek-Baseline Lower (at Silver Spring Rd)           |
| 8/30/2011 6:05   | COMPLETE | 3083011            | 10031346   | Unnamed Tributary (5040863) to Silver Spring Creek                 |
| 8/30/2011 6:20   | COMPLETE | 1083011            | 10031350   | Unnamed Tributary (917900) to Silver Spring Creek S of Walnut Road |
| 8/30/2011 6:25   | COMPLETE | 4083011            | 10031345   | Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd       |
| 8/30/2011 6:40   | COMPLETE | 5083011            | 10014238   | Silver Spring Creek-Baseline Lower (at Silver Spring Rd)           |
| 8/30/2011 6:50   | COMPLETE | 2083011            | 10014194   | Silver Spring Creek Baseline (at Walnut Rd)                        |
| 9/29/2011 5:50   | COMPLETE | 010929             | 10031350   | Unnamed Tributary (917900) to Silver Spring Creek S of Walnut Road |
| 9/29/2011 6:00   | COMPLETE | 020929             | 10014194   | Silver Spring Creek Baseline (at Walnut Rd)                        |
| 9/29/2011 6:15   | COMPLETE | 030929             | 10031346   | Unnamed Tributary (5040863) to Silver Spring Creek                 |
| 9/29/2011 6:25   | COMPLETE | 040929             | 10031345   | Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd       |
| 9/29/2011 6:35   | COMPLETE | 050929             | 10014238   | Silver Spring Creek-Baseline Lower (at Silver Spring Rd)           |
| 10/19/2011 6:10  | COMPLETE | 101901             | 10031350   | Unnamed Tributary (917900) to Silver Spring Creek S of Walnut Road |
| 10/19/2011 6:25  | COMPLETE | 101902             | 10014194   | Silver Spring Creek Baseline (at Walnut Rd)                        |

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|                 |          |        |          |                                                              |
|-----------------|----------|--------|----------|--------------------------------------------------------------|
| 10/19/2011 6:35 | COMPLETE | 101903 | 10031346 | Unnamed Tributary (5040863) to Silver Spring Creek           |
| 10/19/2011 6:40 | COMPLETE | 101904 | 10031345 | Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd |
| 10/19/2011 7:00 | COMPLETE | 101905 | 10014238 | Silver Spring Creek-Baseline Lower (at Silver Spring Rd)     |

Documents

| Title                                              | Description | Author        | Published  | Comments |
|----------------------------------------------------|-------------|---------------|------------|----------|
| Email Regarding Silver Spring Data                 |             | James Amrhein | 11/18/2011 |          |
| PowerPoint Presentation of Silver Spring 2011 Data |             | James Amrhein | 11/18/2011 |          |
| Silver Spring Fisheries Survey Data                |             | James Amrhein | 11/18/2011 |          |

Budget

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|                                                                                                  |                             |                             |
|--------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|
| <b>Budget Description:</b> Budget for Silver Spring PI Project - Water Chemistry<br>SCR_09_CMP12 | <b>Start Date:</b> 5/1/2011 | <b>End Date:</b> 10/31/2012 |
|--------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|

| Code    | Description                | Quantity | Units | Unit Cost | Total Cost | Comments                                 |
|---------|----------------------------|----------|-------|-----------|------------|------------------------------------------|
| FTE     | FTE Hours                  | 0        | Hours | \$0.00    | \$0.00     | Samples will be collected by a volunteer |
| LTE SAL | LTE Salary                 | 0        | Hours | \$13.00   | \$0.00     |                                          |
| LTE FR  | LTE Fringe                 |          |       |           | \$0.00     |                                          |
| LTE IND | LTE Indirect               |          |       |           | \$0.00     |                                          |
| LTE TOT | LTE Total Cost             |          |       |           | \$0.00     |                                          |
| SUPPLY  | Supplies                   | 6        |       | \$40.00   | \$240.00   | Shipping Cost + mailers                  |
| MILEAGE | Mileage                    | 0        | Miles | \$0.72    | \$0.00     |                                          |
| MEAL    | Meals                      | 0        | Meals | \$9.00    | \$0.00     |                                          |
| LODGE   | Lodging                    |          |       |           | \$0.00     |                                          |
| TRAVEL  | Travel Total               |          |       |           | \$0.00     |                                          |
| BUG     | Bug Contracts              |          |       |           | \$0.00     |                                          |
| OTHER   | Other Contracts            |          |       |           | \$0.00     |                                          |
| EQUIP   | Equipment                  |          |       |           | \$0.00     |                                          |
| USGS    | USGS Costs                 |          |       |           | \$0.00     |                                          |
| TOTAL   | Total Cost (excludes SLOH) |          |       |           | \$240.00   |                                          |

| Test Code | Description                                | Test Group          | # Planned | Unit Cost | Total Cost |
|-----------|--------------------------------------------|---------------------|-----------|-----------|------------|
| I440NLD   | AMMONIA (AS N), DISS (EPA 350.1)           | INORGANIC CHEMISTRY | 30        | \$25.89   | \$776.70   |
| I460GLT   | NITRATE + NITRITE (AS N) (EPA 353.2)       | INORGANIC CHEMISTRY | 30        | \$27.00   | \$810.00   |
| I470DLT   | TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2) | INORGANIC CHEMISTRY | 30        | \$32.99   | \$989.70   |
| I520PLT   | TOTAL PHOSPHORUS (AS P) (EPA 365.1)        | INORGANIC CHEMISTRY | 30        | \$23.60   | \$708.00   |
| I650JLT   | SUSPENDED SOLIDS (EPA METHOD 160.2)        | INORGANIC CHEMISTRY | 30        | \$18.80   | \$564.00   |

Total WSLH Lab Costs: \$3,848.40

Total Budget: \$4,088.40

Combined Budgets: \$240.00

Combined WSLH: \$3,848.40

Combined Total: \$4,088.40

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