

Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: RP-253-14

Name: DANE COUNTY: Urban SWAT Model

Type: River Grant

Subtype: River Planning Grant

Status: COMPLETE

Start Date: 7/1/2013

End Date: 12/31/2014

Purpose: Dane County will undertake a River Planning Grant project to incorporate an urban analysis component within the SWAT (Soil and Water Assessment Tool) model. Project deliverables are as follows: 1.) Develop a revised SWAT model that can reliably simulate runoff from both urban and rural sources within the Six Mile Creek Watershed, 2.) Provide a summary of the modeling approach and modeling results in the final report; 3.) revised SWAT model will be an open source model available at no charge for other users.

Objective:

Comments: Grantee is DANE COUNTY

Outcome:

Study Design:

QA Measures:

People

| Name | Role | Status | Start Date | End Date | Organization | Comments |
|--------------|-----------------|--------|------------|------------|--------------|----------|
| DANE COUNTY, | GRANT_RECIPIENT | ACTIVE | 7/1/2013 | 12/31/2014 | DANE COUNTY | |

Project Statuses

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

Actions

| Action | Detailed Description | Start Date | End Date | Status |
|-------------------|--|------------|------------|----------|
| Runoff Evaluation | Dane County will undertake a River Planning Grant project to incorporate an urban analysis component within the SWAT (Soil and Water Assessment Tool) model. Project deliverables are as follows: 1.) Develop a revised SWAT model that can reliably simulate runoff from both urban and rural sources within the Six Mile Creek Watershed, 2.) Provide a summary of the modeling approach and modeling results in the final report; 3.) revised SWAT model will be an open source model available at no charge for other users. | 7/1/2013 | 12/31/2014 | COMPLETE |

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|---------------------------------------|--|----------|------------|----------|
| Project Deliverable | Dane County will undertake a River Planning Grant project to incorporate an urban analysis component within the SWAT (Soil and Water Assessment Tool) model. Project deliverables are as follows: 1.) Develop a revised SWAT model that can reliably simulate runoff from both urban and rural sources within the Six Mile Creek Watershed, 2.) Provide a summary of the modeling approach and modeling results in the final report; 3.) revised SWAT model will be an open source model available at no charge for other users. | 7/1/2013 | 12/31/2014 | COMPLETE |
| Rivers Planning Grant | Dane County will undertake a River Planning Grant project to incorporate an urban analysis component within the SWAT (Soil and Water Assessment Tool) model. Project deliverables are as follows: 1.) Develop a revised SWAT model that can reliably simulate runoff from both urban and rural sources within the Six Mile Creek Watershed, 2.) Provide a summary of the modeling approach and modeling results in the final report; 3.) revised SWAT model will be an open source model available at no charge for other users. | 7/1/2013 | 12/31/2014 | COMPLETE |
| County Land and Water Management Plan | Dane County will undertake a River Planning Grant project to incorporate an urban analysis component within the SWAT (Soil and Water Assessment Tool) model. Project deliverables are as follows: 1.) Develop a revised SWAT model that can reliably simulate runoff from both urban and rural sources within the Six Mile Creek Watershed, 2.) Provide a summary of the modeling approach and modeling results in the final report; 3.) revised SWAT model will be an open source model available at no charge for other users. | 7/1/2013 | 12/31/2014 | COMPLETE |

| Details: Parameter | Value/Amount | Units | Comments |
|---|--------------|-------|----------|
| BMP Implementation | | | |
| I & E Activities | | | |
| PCBs | | | |
| Permit Modification | | | |
| Products Developed: Stormwater Plan | | | |
| Protective Areas: Feet of bank protected | | | |
| Protective Areas: Feet of bank protected | | | |
| Protective Areas: Feet of bank protected | | | |
| Report Writeup | | | |
| Stormwater Goals Addressed: Protective areas | | | |
| Stormwater Goals Addressed: Reduce TSS | | | |
| Streambank & Shoreline Protection: Pollutant load reduction | | | |

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| Details: Parameter | Value/Amount | Units | Comments |
|--|--------------|-------|----------|
| Streambank & Shoreline Protection: Units | | | |
| Streambank &Shoreline Protection: Pollutant load reduction | | | |
| Streambank &Shoreline Protection: Units | | | |
| Streambanks: Feet of bank protected | | | |
| Streambanks: Feet of bank protected | | | |
| Streambanks: Feet of bank protected | | | |
| Total Nitrogen | | | |
| Total Phosphorus | | | |
| Total Suspended Solids | | | |

Watershed Outreach, Planning

| | | | | |
|------------------------|--|----------|------------|----------|
| Grant Awarded | Dane County will undertake a River Planning Grant project to incorporate an urban analysis component within the SWAT (Soil and Water Assessment Tool) model. Project deliverables are as follows: 1.) Develop a revised SWAT model that can reliably simulate runoff from both urban and rural sources within the Six Mile Creek Watershed, 2.) Provide a summary of the modeling approach and modeling results in the final report; 3.) revised SWAT model will be an open source model available at no charge for other users. | 7/1/2013 | 12/31/2014 | COMPLETE |
| Water Quality Modeling | Dane County will undertake a River Planning Grant project to incorporate an urban analysis component within the SWAT (Soil and Water Assessment Tool) model. Project deliverables are as follows: 1.) Develop a revised SWAT model that can reliably simulate runoff from both urban and rural sources within the Six Mile Creek Watershed, 2.) Provide a summary of the modeling approach and modeling results in the final report; 3.) revised SWAT model will be an open source model available at no charge for other users. | 7/1/2013 | 12/31/2014 | COMPLETE |

Monitoring Stations

| Station ID | Name | Comments |
|------------|------|----------|
|------------|------|----------|

Assessment Units

| WBIC | Segment | Local Name | Official Name |
|--------|---------|---------------------|---------------|
| 805400 | 1 | Mendota Lake | Lake Mendota |
| 805500 | 1 | Six Mile Creek | Sixmile Creek |
| 805500 | 2 | Six Mile Creek | Sixmile Creek |
| 805600 | 1 | Spring (Dorn) Creek | Dorn Creek |

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| | | | |
|---------|---|---------------------|------------|
| 805600 | 2 | Spring (Dorn) Creek | Dorn Creek |
| 5034347 | 1 | Six Mile Creek | Unnamed |
| 5034420 | 1 | Local Water | Unnamed |
| 5034421 | 1 | Local Water | Unnamed |
| 5034500 | 1 | Local Water | Unnamed |
| 5034546 | 1 | Local Water | Unnamed |
| 5034619 | 1 | Local Water | Unnamed |
| 5034683 | 1 | Local Water | Unnamed |
| 5034711 | 1 | Local Water | Unnamed |
| 5034839 | 1 | Local Water | Unnamed |
| 5034876 | 1 | Local Water | Unnamed |
| 5573608 | 1 | Local Water | Unnamed |
| 5573976 | 1 | Local Water | Unnamed |
| 5574195 | 1 | Local Water | Unnamed |
| 5574260 | 1 | Local Water | Unnamed |
| 5574312 | 1 | Local Water | Unnamed |

Lab Account Codes

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

Forms

| Form Code | Form Name |
|-----------|-----------|
|-----------|-----------|

Methods

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

Fieldwork Events

| Start Date | Status | Field ID | Station ID | Station Name |
|------------|--------|----------|------------|--------------|
|------------|--------|----------|------------|--------------|

Documents

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

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

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