

2005 Storm Water Management Annual Report

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**City of Chippewa Falls
2006 Annual Storm Water Management Report**

A. Status

In 2005, the City of Chippewa Falls continued completing and improving its storm water management program. Throughout the year various components of the program and permit have been completed and are currently being implemented. Areas such as public education, SLAMM modeling, and site inspections have been examined and implemented according to plan. The following report details progress, continued programs, and measurable results are reported.

B. Mapping

Maps of the Chippewa Falls MS4 have been upgraded to include all improvements that were completed during the year. A copy of the current MS4 map has been included in the appendix of this document.

C. Program Results

1. Enforcement Actions

There were no enforcement actions to report in 2005.

2. Inspections

a. Outfalls

All known outfalls on the city's MS4 were inspected under low flow winter conditions. No illicit discharges were detected during the examination. Outfall C22 was found to have some erosion problems, riprap and erosion mat were installed to help stabilize the bank and decrease the amount of erosion on the bank. The outfall will be inspected again in spring 2006 to determine if more work is needed.

b. Construction Sites

The following construction sites filed storm water management and construction site erosion control permits:

Wissota Green Subdivision
M & L Brands Commercial Building
Chippewa River Industries Commercial Building
Renaissance Faire Commercial Development

The construction sites permits were reviewed and construction sites have been periodically inspected. Final stabilization has been completed on the Chippewa River Industries site with the rest being completed in 2006.

Along with the private construction sites, all street construction that took place was inspected on a weekly basis. The following sites were included in the program;

Grand Avenue - (Bay Street - Kennedy Road)
Eagle Street - (Coleman Street - Bridgewater Avenue)
Mansir Street - (Wheaton Street - Columbia Street)
Wheaton Street - (Rand Street - Miles Street)

3. Public Education Programs

The public education program continued as submitted to the Wisconsin DNR. In addition, that plan was supplemented by the creation of a Storm Water Utility. During the initial set-up portion of the utility, a number of meetings were held regarding storm water and the creation of the utility. During the process, time was taken to help educate individuals on the storm water management program and what it does.

In addition, a working group has been meeting regularly with various municipal, county, and town entities regarding a group that could possibly provide public education opportunities within the Eau Claire and Chippewa Falls area. Some features that the group has worked on have ranged from Earth Day exhibits to possible public service announcements on local television and radio stations. The purpose of the group is to develop a common message to help educate people of the area regarding the issues facing storm water management.

4. Spill Responses

Two spills were reported to the spill response team in the City of Chippewa Falls. Both were small gasoline spills that were cleaned up before they escaped from the pavement area.

5. Other Activities

a. Catch Basin Cleaning

The catch basins and inlets were cleaned according to the submitted Storm Water Management Plan. An estimated 38.5 C.Y. of debris and soil was removed during cleaning.

b. Street Sweeping

Approximately 3,140 C.Y. of debris and soil have been collected during the course of 2005. The streets have been swept on average of once every three to four weeks.

c. Leaf Collection

The yard waste site was operated by the City of Chippewa Falls and collected a large volume of yard waste from throughout the city. The waste was piled and composted to be used in conjunction with street construction projects and the required restoration work.

D. Storm Water Management Program Proposals

The following program proposals have been submitted as part of this report:

Retrofit Analysis
Initial Pollutant Loading Calculations

E. Program Revisions

There are no program revisions to report at this time.

F. Vacant

G. Vacant

H. Pollutant Loading Calculations

The initial pollutant loading calculations and the initial model with controls have been completed and are included in the appendix of this report.

I. Assessment of Controls

1. Pollutant Removal

The Storm Water Management Program has continued to expand and create more opportunities for removing pollutants in the City's storm water conveyance system. Ponds, catch basins, and other BMP's have been inspected on a regular basis to ensure they are operating properly and do not need further maintenance. If problems are found during the inspection process they are corrected as soon as the maintenance can be completed.

The street sweeping and catch basin cleaning, working in conjunction with the yard waste site, have been doing a valuable job in taking the solids off the street and out of the conveyance system. In 2005, every catch basin and inlet was cleaned in the city, which reduced solids loading in the system.

2. Programs

Other programs that have been implemented within the City are also having an effect. The storm water management and construction site erosion control ordinances are forcing larger construction projects to properly plan, implement, and maintain their storm water and erosion control devices.

Various other projects that occurred within the Storm Water Management Program last year ranged from waste oil collection to a clean sweep program that helps collect possible hazardous material that otherwise may end up in the City's MS4. Over 4,000 gallons of waste oil was collected at the City maintenance facility and used to help heat the maintenance garage.

A number of new BMP's were either constructed or in the process of being constructed in 2005 in new development areas within the City. The sites with new BMP's are listed below:

Wissota Green Subdivision
M & L Brands Commercial Site
Chippewa River Industries Commercial Site
Renaissance Faire Commercial Site

J. Effluent Limitation Compliance

With the baseline "no control" established in the SLAMM model we ran the initial "with controls" model and determined the City of Chippewa Falls has achieved between 35-37% removal efficiency. The initial run has excluded some of the BMP's that are currently in place because more investigation is needed in the spring of 2006 to determine the overall area that these BMP's handle as well as their overall productivity. The model will be further enhanced to determine what retrofits are necessary to achieve the 40% removal that is required by 2013.

K. Fiscal Analysis

The 2005 Storm Water Management Budget, and the proposed 2006 Budget are included in the appendix of this report.

L. Water Quality

Water quality improvement steps have been made at various places within the City. Through an aggressive street sweeping and catch basin cleaning program, sediments and potential contaminants have been removed from the City's storm water conveyance system.

Water bodies such as the Chippewa River and Duncan Creek have been protected on construction sites by proper erosion control devices that were implemented with restrictions from our storm water management and construction site erosion control

ordinances.

Through continued public education programs and waste collection more progress can be made informing the public on ways to better handle waste and properly dispose of materials within the City.