

Village of
Ashwaubenon

ENGINEERING DEPARTMENT

2155 Holmgren Way
Ashwaubenon, Wisconsin 54304-4605

Phone (920) 492-2308 Fax (920) 492-2326
www.ashwaubenon.com



March 23, 2016

Ms. Sarah Anderson
Water Management Specialist
WDNR Northeast Region
2984 Shawano Avenue
Green Bay, WI 54313

RE: 2015 Annual Report
Village of Ashwaubenon, Brown County

Dear Sarah:

The information submitted here pertains to the 2015 Annual Report for the Village of Ashwaubenon as it applies to the reporting requirements of the MS4 General Permit.

Also attached to the MS4 permit information is additional information pertaining to the Illicit Discharge Detection & Elimination program. We have inspected outfalls in the Northwest portion of the Village. This is an on-going effort that will occur yearly with documented information planned to be supplied with our Annual Report. With the completion of the Villages' Storm Water Management Plan Update in December 2015, future Annual Reports (2016 and beyond) will have different labels to the outfalls as they relate to the updated 2015 Storm Water System Map. The Storm Sewer System Map will be included at that time as well.

The 2015 Village-Wide Stormwater Quality Management Plan was submitted to WDNR staff in early 2016. Additional information pertaining to Ashwaubenon municipal facilities SWPPP and updated Storm Water Ordinances will be submitted in the near future to WDNR under separate cover.

Thank you for your assistance as we move forward in meeting the MS4 permitting efforts. If you have any questions or need additional information, I can be reached at (920) 492-2308 or sbirr@ashwaubenon.com.

Sincerely,

A handwritten signature in black ink that reads 'Steve R. Birr'.

Steve R. Birr, P.E.
Village Engineer
Dept. of Public Works

Enclosures

Due by March 31, 2016

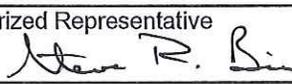
Notice: Pursuant to s. NR 216.07(8), Wis. Adm. Code, an owner or operator of a Municipal Separate Storm Sewer System (MS4) is required to submit an annual report to the Department of Natural Resources (DNR) by March 31 of each year to report on activities for the previous calendar year. This form is being provided by the DNR for the user's convenience. Personal information collected will be used for administrative purposes and may be provided to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

This form is for reporting on activities undertaken in calendar year 2015.

Instructions: Complete each section of the form that follows. If additional space is needed to respond to a question, attach additional pages. Provide descriptions that explain the program actions taken to comply with the general permit. Complete and submit the annual report by March 31, 2016, to the appropriate address indicated on the last page of this form.

SECTION I. Municipal Information			
Name of Municipality		Facility ID No. (FIN)	
Village of Ashwaubenon		31086	
Mailing Address	City	State	ZIP Code
2155 Holmgren Way	Ashwaubenon	WI	54304
County(s) in which Municipality is located	Municipality Type: (select one)		
Brown	<input type="radio"/> County <input type="radio"/> City <input checked="" type="radio"/> Village <input type="radio"/> Town <input type="radio"/> Other (specify)		

SECTION II. Municipal Contact Information			
Name of Municipal Contact Person		Title	
Steve R. Birr, P.E.		Village Engineer	
Mailing Address (if different from above)	City	State	ZIP Code
		WI	
Email	Phone Number (include area code)	Fax Number (include area code)	
sbirr@ashwaubenon.com	(920) 492-2308	(920) 492-2336	

SECTION III. Certification			
<p><i>I hereby certify that I am an authorized representative of the municipality covered under MS4 General Permit No. WI-S050075-2 for which this annual report is being submitted and that the information contained in this document and all attachments were gathered and prepared under my direction or supervision. Based on my inquiry of the person or persons under my direction or supervision involved in the preparation of this document, to the best of my knowledge, the information is true, accurate, and complete. I further certify that the municipality's governing body or delegated representatives have reviewed or been apprised of the contents of this annual report. I understand that Wisconsin law provides severe penalties for submitting false information.</i></p>			
Authorized Representative Printed Name	Authorized Representative Title		
Steve R. Birr, P.E.	Village Engineer		
Signature of Authorized Representative	Date		
	3/23/16		
Email	Phone Number (include area code)	Fax Number (include area code)	
sbirr@ashwaubenon.com	(920) 492-2308	(920) 492-2336	

SECTION IV. General Information			
<p>a. Describe what efforts the municipality has undertaken to invite the municipal governing body, interest groups, and the general public to review and comment on the annual report.</p> <p>Village staff continues to provide updates at monthly Village Board Meetings and the Public Works & Protection Committee meetings on what is being done to meet the current WDNR mandates and also to share information on future responsibilities. Information shared reviews what is being listed in the Annual Report and included here. Village Board and Public Works & Protection Committee meetings are broadcast on the local Ashwaubenon cable television station for all residents to view and hear. The Village website also documents storm water management information and lists the Annual Report for the current year submittal. The Village has a tracking system for "hits" on its website and documentation of activity on the Storm Water page is included with this submittal. Mailings were distributed to property owners including mailing "Ice and Snow Control" and "Leave your Leaves on Land" to all water utility users of the Village (see Attachment A).</p>			
<p>b. Describe how elected and municipal officials and appropriate staff have been kept apprised of the municipal storm water discharge permit and its requirements.</p> <p>The formation of the Village of Ashwaubenon Storm Water Utility in 2012 (Storm Water Utility Ordinance and information can be found on the Village website, www.ashwaubenon.com, under Departments/Engineering link)</p>			

SECTION IV. General Information (continued)

requires staff and elected municipal officials to have lengthy discussions regarding storm water management and how the Storm Water Utility Budget will be utilized to meet the municipal storm water discharge permit requirements each Budget year. Staff meetings amongst Public Works personnel are held weekly or bi-monthly and Staff Department Head meetings are held weekly and discussions are had regarding storm water management. As a member of NEWSC, Village staff continues to hear of any changes to WDNR regulations and also how other communities are working towards meeting the WDNR mandates. The Village of Ashwaubenon received a Storm Water Planning Grant from the WDNR and during the review of the "Village-Wide Stormwater Quality Management Plan" in 2015, several discussions/ meetings were had with elected officials and staff during the course of the plan development and finalization. The Village also received 2 WDNR Stormwater Pond Construction Grants. During the design phase and contract award portion of those projects, discussions were had with elected officials and staff.

- c. Has the municipality prepared its own municipal-wide storm water management plan? Yes No

If yes, title and date of storm water management plan:

Village-Wide Stormwater Quality Management Plan, December 1, 2015. This Plan was submitted to WDNR in early January 2016.

- d. Has the municipality entered into a written agreement with another municipality or a contract with another entity to perform one or more of the conditions as provided under section 2.10 of the general permit? Yes No

If yes, describe these cooperative efforts:

- e. Does the municipality have an internet website? Yes No

If yes, provide web address:

www.ashwaubenon.com

If the municipality has an internet website, is there current information about or links provided to the MS4 general permit and/or the municipality's storm water management program?

- Yes No

If yes, provide web address:

<http://www.ashwaubenon.com/Departments/EngineeringGIS/StormWaterManagement/tabid/155/Default.aspx>

SECTION V. Permit Conditions

- a. **Minimum Control Measures:** For each of the permit conditions listed below, provide a description of the implementation of each program element, the status of meeting measurable goals, and compliance with permit schedule in section 2.11 of the MS4 general permit. Provide an evaluation of program compliance with the general permit, the appropriateness of identified best management practices, and progress towards achieving identified measurable goals. Be specific in describing the actions that have been taken during the reporting year to implement each permit condition and whether measurable goals have been met, including any data collected to document a measurable goal. Also, explain the reasons for any variations from the compliance schedule in the MS4 general permit.

- Public Education and Outreach

The Village has maintained the storm water features on its website. Links to both the WDNR storm water page and NEWSC have been maintained. The Villages' storm water webpage links had over 160 hits during 2015 (See Attachment A). Mailings of storm water informational topics were included in the Spring, Fall and Winter quarter 2015 utility billings (See Attachment A). The Village Park and Recreation Department publishes a Spring/Summer brochure. Information regarding the Storm Water Utility and the Villages' MS4 permit were included (See Attachment A). Through our building inspection and zoning department, over 140 commercial/residential developments have had discussions on erosion control procedures/requirements and storm water management reviews. The Village website also lists recycling/composting information. Seasonal reminders are highlighted on the website main page. As a member of NEWSC, Village staff have attended bi-annual meetings to keep abreast of MS4 permit compliance issues and also to garner information that has been useful to other nearby communities in their compliance meeting measures. Information received at these meetings has been shared at weekly staff meetings to keep members of the Village Public Works Dept. informed. Village staff also placed Storm Water informational banners at Ashwaubomay Lake, the Ashwaubenon Sports Complex and at various locations throughout Village Hall. Also, as members of NEWSC, the NEWSC Outreach Coordinator offered and visited Pioneer Elementary School in Ashwaubenon 3 separate times and met with fifth grade classes (See Attachment A) and discussed storm water management in our community. The NEWSC website also posted pictures of a highway cleanup event in our community (See Attachment A for NEWSC documentation).

SECTION V. Permit Conditions (continued)

• Public Involvement and Participation

Village residents who visit the website or who watch the Village Board meetings on the Village TV channel continually hear about stormwater management and are encouraged to ask questions and get involved with monitoring their own yards for water quality benefits. Since the formation of the Storm Water Utility, several meetings have been held where discussions on the Storm Water Utility Budget were had and the need for storm water management explained. Utility invoices during 2015 have resulted in several residents and business owners contacting the Village with questions. Numerous discussions were had involving water quantity and water quality management.

• Illicit Discharge Detection and Elimination

The Village has an Illicit Discharge Detection and Elimination Ordinance Sec. 5-772 and through the Public Works Department, inspects construction sites for incorrect connections. All Village staff have been educated to look for illicit discharges during their daily work actions and report any findings. In following the Villages' compliance schedule, all major outfalls have been inspected and any water found during dry periods tested. Also, the Village was separated into four quadrants (divided by STH 172 and US 41) with the plan to monitor the minor outfalls in one quadrant per year along with re-monitoring any major outfalls in that same quadrant where some water quality issues were found from prior testing. That information is attached here for review (see Attachment B). In 2015, the minor outfalls in the northwest(NW) quadrant were reviewed. There was 1 separate incident where the Village was notified that an Illicit Discharge may have occurred. During the IDDE monitoring task, follow-up in that watershed and testing at the outfall (SW19) was conducted. No further action was needed.

• Construction Site Pollutant Control

With the enactment of the Construction Site Pollution Control Ordinance, Sec. 5-770, Village staff has been able to better enforce any visible or improper erosion control practices. The Site Plan Review committee along with staff reviews any new or redevelopment projects for proper erosion control plans. During construction, Village staff verifies that those plans are implemented. It appears most contractors are aware of erosion control mandates for communities in Brown County and are following correct practices. During 2015, an erosion control inspection sheet was kept to keep track of sites with infractions and what was done by the Village to insure proper controls were in-place. In most cases, only a verbal discussion was needed. One site was issued a 1st Notice for Noncompliance. Corrective measures were completed and maintained thereafter. No citations were issued.

• Post-Construction Storm Water Management

With the enactment of the Post-Construction Stormwater Management Ordinance, Sec. 5-771, any new development or redevelopment has met the ordinance requirements with both design and construction. During the Villages' Site Plan Committee Review, site design and storm water management features are reviewed and approved.

• Pollution Prevention

The Village maintains covered storage facilities for salt storage along with providing and maintaining a site for yard waste disposal. Garbage pickup is maintained daily throughout the Village. Street sweeping is a daily occurrence during the appropriate times and leaf pick-up is completed every fall for several weeks. These measures ensure improper contamination of receiving waters is prevented.

b. Winter Road Management Activities:

Provide the name, title, and phone number for the individual(s) with overall responsibility for winter roadway maintenance.

Mr. Lee Van Den Elzen, Street Operations Supervisor. (920-492-2310)

Describe the types of products used for winter road management (e.g., deicing, pre-wetting, salting, etc.).

Salting during typical ice/snow events. During brutally cold events, the Village utilized a sand/salt mixture at several intersections.

Describe the type of equipment used to apply the products.

Tandem axle dump trucks utilizing spinners to broadcast the salt.

SECTION V. Permit Conditions (continued)

Report the amount of product used per month.

Approximately 12 ton of rock salt is used per storm event in the Village of Ashwaubenon. In 2015, approximately 1,600 tons of rock salt were placed on Village roadways (400 tons per month).

Report the snow disposal locations, if snow is hauled away.

Not applicable.

Describe any anti-icing, equipment calibration, and salt reduction strategies considered.

Spinner calibration was completed prior to the first ice or snow event of the season in. Also, spinner calibration occurs on an event basis as the mechanics work in conjunction with the plow drivers.

Describe any other additional measurable data or information that the permittee used to evaluate its winter road management activities.

We are continually monitoring other winter road management activities/methods in our surrounding area and will continue to do so in the future. Those methods include pre-wetting and various liquid alternatives to rock salt. A pre-wetting system was purchased in 2015 and is in the process of being assembled and may be utilized in 2016.

c. Municipal facility(s):

Provide an inventory of municipally owned or operated structural storm water management facility(s), include: Location of each facility and contact information for the individual(s) with overall responsibility for each facility.

Regional pond facilities owned by the Village of Ashwaubenon are located near Main Avenue/Sand Acres Drive, Glory Road/Commodity Lane, Babcock Road/STH 172 and Holmgren Way/VanderPerren Way. The Ashwaubenon Public Works Department oversees these ponds. Steve Birr, Village Engineer (492-2308), can be contacted. A SWPPP is being prepared in 2016 for the other Village of Ashwaubenon owned sites (Village Hall/Village Public Works garage and yard along with the leaf collection site. That SWPPP will be delivered to the WDNR upon its completion in early April, 2016.

Describe the housekeeping activities and best management practices installed to reduce or eliminate storm water contamination.

The Village of Ashwaubenon completes street sweeping and regular catch basin cleaning in the watersheds draining to these ponds. Additional information will be provided in the SWPPP.

Discuss recommendations for improvements to current storm water management practices at the facility(s) and a timeline for installation and/or implementation of these recommendations.

No improvements planned. The facilities are operating as intended. Additional information will be provided in the SWPPP.

Describe the municipal facility(s) employee training on storm water pollution prevention provided.

Village staff is kept informed on storm water management concepts and these facilities are continually monitored. Additional information will be provided in the SWPPP.

Describe the spill prevention and response procedures in place at the municipal facility(s).

Ordinance No. 04-5-09, creating Section 5-772: Illicit Discharge and Connection Ordinance documents the IDDE procedures. This information was submitted to WDNR on October 9, 2008 in Addendum D. Additional information will be provided in the SWPPP.

d. Storm Water Quality Management: Has the municipality completed a pollutant-loading analysis to assess compliance with the 20% TSS reduction developed urban area performance standard? Yes No

If yes, provide the following: Model used SLAMM Version 10.1.6 Reduction (%) 7

If no, include a description of any actions the municipality has undertaken during 2015 to help achieve the 20% standard.

Has the municipality completed an evaluation of all municipal owned or operated structural flood control facilities to determine the feasibility of retrofitting to increase TSS removal? Yes No

SECTION V. Permit Conditions (continued)

If yes, describe:

The Village has completed preliminary discussions with WDNR staff pertaining to making modifications to the area described as the Main Avenue Storm Water Pond. We constructed the Holmgren Way Pond in 2015 and will be constructing the Ashland Avenue Pond in 2016. Along with these 2 ponds and modifications to the Main Avenue Pond, the Village will achieve the 20% TSS requirement (see 2015 Village-Wide Stormwater Quality Management Plan).

- e. **Best Management Practices Maintenance:** Does the municipality have a maintenance program for installed storm water best management practices? Yes No

If yes, describe the maintenance program and any maintenance activities that have occurred for best management practices in 2015. If available, attach any additional information on the maintenance program. See Attachment C.

- f. **Storm Sewer System Map:** Describe any changes or updates to the storm sewer system map made in the reporting year. Provide an updated map if any changes occurred during the reporting year.

An updated map was completed for the 2015 Village-Wide Stormwater Quality Management Plan. That Plan was submitted to WDNR in early January 2016 with the corresponding storm sewer system map, Figure 6.

SECTION VI. Fiscal Analysis

- a. Provide a fiscal analysis that includes the annual expenditures for 2015, and the budget for 2015 and 2016. A table to document fiscal information is provided on page 8.

See attached.

- b. What financing/fiscal strategy has the municipality implemented to finance the requirements of the general permit?

Storm water utility General fund Other _____

- c. Are adequate revenues being generated to implement your storm water management program to meet the permit requirements? Yes No

Please provide a brief summary of your financing/fiscal strategy and any additional information that will assist the Department in understanding how storm water management funds are being generated to implement and administer your storm water management program.

The Village of Ashwaubenon Storm Water Utility was created in 2012. The first invoices were sent out during Q4 of 2012. During the creation of the Storm Water Utility, a 5-year Budget Projection was conducted to illustrate the amount of revenue needed to complete the various tasks of storm water management throughout the Village in the next 5 years. With the completion of the 2015 Village-Wide Stormwater Quality Management Plan, future budget projections and alternatives were developed to show how the Village will stay in compliance with its MS4 General Permit.

SECTION VII. Inspections and Enforcement Actions

Note: If an ordinance listed below has previously been submitted and has not been amended since that time, a copy does not need to be submitted again. If the ordinance was previously submitted, indicate such in the space provided.

- a. As of the date of this annual report, has the municipality updated or revised its construction site pollutant control ordinance in accordance with subsection 2.4.1 of the general permit? Yes No

If yes, attach copy or provide web link to ordinance:

- b. As of the date of this annual report, has the municipality updated or revised its post-construction storm water management ordinance in accordance with subsection 2.5.1 of the general permit? Yes No

If yes, attach copy or provide web link to ordinance:

- c. As of the date of this annual report, has the municipality updated or revised its illicit discharge detection and elimination ordinance in accordance with subsection 2.3.1 of the general permit? Yes No

If yes, attach copy or provide web link to ordinance:

SECTION VII. Inspections and Enforcement Actions (continued)

d. As of the date of this annual report, has the municipality adopted any other ordinances it has deemed necessary to implement a program under the general permit (e.g., pet waste ordinance, leaf management/yard waste ordinance, parking restrictions for street cleaning, etc.)? Yes No

If yes, attach copy or provide web link to ordinance:

e. Provide a summary of available information on the number and nature of inspections and enforcement actions conducted during the reporting period to ensure compliance with the ordinances described in a. to d. above.

Inspections have taken place on a routine basis during the building construction inspection procedure. Almost all inspections verify compliance with approved plans and ordinances. One property received a Notice on Non-Compliance Letter. No further enforcement action was needed.

SECTION VIII. Water Quality Concerns

a. Does any part of the MS4 discharge to an outstanding resource water (ORW) or exceptional resource water (ERW) listed under s. NR 102.10 or 102.11, Wis. Adm. Code? (A list of ORWs and ERWs may be found on the Department's Internet site at: <http://dnr.wi.gov/topic/surfacewater/orwerw.html>) Yes No

If yes, list:

b. Does any part of the MS4 discharge to an impaired waterbody listed in accordance with section 303(d)(1) of the federal Clean Water Act, 33 USC § 1313(d)(1)(C)? (A list of the most current Wisconsin impaired waterbodies may be found on the Department's Internet site at: <http://dnr.wi.gov/water/impairedsearch.aspx?status=303d>) Yes No

If yes, complete the following:

- Impaired waterbody to which the MS4 discharges:
Fox River, Duck Creek, Dutchmans Creek and Ashwaubenon Creek.
- Description of actions municipality has taken to comply with section 1.5.2 of the MS4 general permit for discharges of pollutant (s) of concern to an impaired waterbody:
All Village efforts to manage storm water runoff would comply with this section.

c. Identify any known water quality improvements in the receiving water to which the MS4 discharges during the reporting period.
PCB contamination exists in the Fox River with clean-up in progress. Construction of the Holmgren Pond will improve water quality in both Dutchmans Creek and the Fox River.

d. Identify any known water quality degradation in the receiving water to which the MS4 discharges during the reporting period and what actions are being taken to improve the water quality in the receiving water.
PCB contamination exists in the Fox River with clean-up in progress.

SECTION IX. Proposed Program Changes

Describe any proposed changes to the storm water management program being contemplated by the municipality for 2016 and the schedule for implementing those changes. Proposed program changes must be consistent with the requirements of the general permit.

The Village updated its Stormwater Plan in 2015 and lists prospective locations for storm water ponds. Moving forward, that Plan will guide the Village to stay in compliance with its MS4 permit. The Village received a WDNR Urban NPS Storm Water Construction Grant for the construction of a regional pond located on Ashland Avenue near Morris Avenue. Construction of this pond in 2016 will further aid the Village in meeting MS4 permit requirements. Storm water ordinances will be updated and are scheduled to be implemented by June 2016.

SECTION X. Other

SECTION X. Other (continued)

Any other additional information the permittee would like to provide in the Annual Report regarding their storm water program?

To continually stay in compliance with its MS4 General Permit, the Villages' Storm Water Utility will be applying for WDNR Urban Non-Point Source Storm Water Land Acquisition and Construction Grants in 2016 for future pond construction in 2018 and 2019.

Fiscal Analysis Table. Complete the fiscal analysis table provided below.

Program Element	Annual Expenditure		Budget		Source of Funds
	2015	2016	2015	2016	
Public Education and Outreach	10,000	10,000	10,000	10,000	Storm Water Utility
Public Involvement and Participation	10,000	10,000	10,000	10,000	Storm Water Utility
Illicit Discharge Detection and Elimination	5,000	10,000	10,000	5,000	Storm Water Utility
Construction Site Pollutant Control	6,000	6,000	6,000	6,000	Storm Water Utility
Post-Construction Storm Water Management	10,000	6,000	6,000	6,000	Storm Water Utility
Pollution Prevention	6,000	6,000	6,000	6,000	Storm Water Utility
Storm Water Quality Management (including pollutant-loading analysis)	400,000	20,000	20,000	400,000	Storm Water Utility & WDNR Grant
Storm Sewer System Map	10,000	5,000	5,000	3,000	Storm Water Utility
Other:					

NORTHERN REGION COUNTIES			WEST CENTRAL REGION COUNTIES		
Ashland	Langlade	DNR Service Center	Adams	Marathon	DNR Service Center
Barron	Lincoln	Attn: Storm Water Program	Buffalo	Monroe	Attn: Storm Water Program
Bayfield	Oneida	5301 Rib Mountain Rd.	Chippewa	Pepin	5301 Rib Mountain Rd.
Burnett	Polk	Wausau, WI 54401	Clark	Pierce	Wausau, WI 54401
Douglas	Price	Phone: (715) 359-4522	Crawford	Portage	Phone: (715) 359-4522
Florence	Rusk		Dunn	St. Croix	
Forest	Sawyer		Eau Claire	Trempealeau	
Iron	Taylor		Jackson	Vernon	
	Vilas		Juneau	Wood	
	Washburn		La Crosse		

NORTHEAST REGION COUNTIES			SOUTH CENTRAL REGION COUNTIES		
Brown	Marquette	DNR Northeast Region	Columbia	Jefferson	DNR South Central Region
Calumet	Menominee	Attn: Storm Water Program	Dane	LaFayette	Attn: Storm Water Program
Door	Oconto	2984 Shawano Ave.	Dodge	Richland	3911 Fish Hatchery Rd.
Fond du Lac	Outagamie	Green Bay, WI 54313	Grant	Rock	Fitchburg, WI 53711
Green Lake	Shawano	Phone: (920) 662-5100	Green	Sauk	Phone: (608) 275-3266
Kewaunee	Waupaca		Iowa		
Manitowoc	Waushara				
Marinette	Winnebago				

SOUTHEAST REGION COUNTIES		
Kenosha	Sheboygan	DNR Service Center
Milwaukee	Walworth	Attn: Storm Water Program
Ozaukee	Washington	141 NW Barstow Street,
Racine	Waukesha	Room 180
		Waukesha, WI 53188
		(262) 574-2100

Attachment A

2015 Public Educational Information

Renew Our Waters

Every choice counts.

Ice and Snow Control

We can have safe walkways in the winter and cleaner water all year round.

Winter in Northeast Wisconsin is a great time for outdoor fun, like ice fishing, ice skating, sledding and skiing. Here, winter also means mountains of snow to shovel and layers of ice to remove from driveways and sidewalks.

We often try to make ice removal easier by using products like salt and sand to melt the snow and ice. Many people do not realize that these products are harming local waters and the animals that rely on them. When the ice and snow melt, the salt and chemicals flow into street drains that lead directly to rivers and lakes.

SHOVEL OFTEN AND EARLY

Shoveling often during and immediately following the storm removes the snow from walkways and driveways before it gets packed down by tires and feet. The most important part of deicing is removing as much snow as possible before applying salt or sand - it's also great exercise!

Use only the recommended amount.

Throwing down more salt will not speed up the

MAKE THE MOST OF THE SALT YOU USE
It is not always necessary to see bare pavement to have a safe winter surface. Ask yourself if it is necessary that the snow or ice be removed. For salt to be effective, air temperature needs to be warmer than the surface temperature of the area you want to treat. A little goes a long way. Use only the recommended amount. Throwing

down more salt will not speed up the melting process. Use only enough deicer to break the bond between the ice and the pavement, then remove the remaining slush by shoveling.

LIMIT THE AMOUNT OF SAND YOU USE

Sand provides traction. It does not melt ice. Sand, although not chemical, contributes to polluting our local waters. It adds to the excess sediment that is entering waterways, eliminating important habitat for aquatic plants and animals. Sand does play a role in winter road management. It is often used by municipalities on roads to help maintain traction. Since ice removal is typically the concern of homeowners, sand may not be necessary.

Stormwater is rain or snowmelt and water from things people do, like overwatering the lawn or washing the car on the driveway. This water runs off our properties, into the street and down the storm drain - picking up pollutants on its way. Once it reaches the storm drain the water and the pollutants it carries is discharged into local waterways.

Untreated runoff is the biggest threat to our nation's water quality, according to the U.S. Environmental Protection Agency. Let's make the small, important changes that will reduce that threat

**Realize
What touches the ground
enters the water**

Northeast Wisconsin Stormwater Consortium

P.O. Box 1861 Appleton, WI 54912 | 920.858.4246

Renewourwaters.org



Renew Our Waters

Every choice counts.

Leave your Leaves on Land

Fall leaves provide beautiful color on trees, but in local waters they contribute to green algae blooms - not so pretty.

Cleaning up your yard in the fall properly will help keep our local waters clean too! Read these tips. Post this sheet in your garage near your rakes. Working together to keep leaves out of the storm drain and out of local waters will help keep green on the land and out of the water.

KEEP YOUR LEAVES ON YOUR PROPERTY

A great way to make sure leaves do not end up in local waters is to keep them on your property!

Mulch leaves in place by making several passes over the leaves with a mulching mower. This will keep leaves on your lawn and provide it with nutrients it needs for healthy grass next spring.

Composting is recycling your lawn trimmings and turning them into a valuable resource for your garden or houseplants!

Collect leaves and spread them in garden beds or under shrubs. Here leaves provide valuable protection for plants through the winter.

COMPOSTING

Composting is recycling your lawn trimmings and turning them into a rich soil, known as compost - a valuable resource for your garden or houseplants.

Cold composting requires little maintenance but can take up to 2 years to complete. To create a cold compost pile, mix non-woody yard wastes and let them sit.

Hot composting requires regular maintenance such as turning and watering. Typically, compost can be reached in 1-3 months. To create a hot compost pile, layer or mix roughly equal amount of high nitrogen "Greens" (wet and soft materials, like grass clippings) and high-carbon "Browns" (dry and woody, like dead leaves) with 10% bulky materials (wood chips) to keep the pile loose.

All materials in the pile must stay moist, but not soaking wet. Add water to maintain conditions conducive to the composting process. Turn the pile often.

RAKING & COLLECTION

If you decide to collect your leaves for removal from your yard, follow your community leaf collection policies and schedules. Put a tarp over leaf piles between pick-up times to prevent them from blowing away. Remove leaves and debris from the gutters and storm sewer outlets.

Stormwater is rain or snowmelt and water from things people do, like overwatering the lawn or letting fertilizer fall into the street drain. We can choose products carefully and shape our lawns and pavement so water sinks in. When we do, runoff is reduced, pollutants filter out and streams and groundwater are protected.

Untreated runoff is the biggest threat to our nation's water quality, according to the U.S. Environmental Protection Agency. Let's make the small, important changes that will reduce that threat and improve water quality and our lives!

Realize

What touches the ground enters the water

Northeast Wisconsin Stormwater Consortium

P.O. Box 1861 Appleton, WI 54912 | 920.858.4246

RenewOurWaters.org



Renew Our Waters

Every choice counts.

Ice and Snow Control

We can have safe walkways in the winter and cleaner water all year round.

Winter in Northeast Wisconsin is a great time for outdoor fun, like ice fishing, ice skating, sledding and skiing. Here, winter also means mountains of snow to shovel and layers of ice to remove from driveways and sidewalks.

We often try to make ice removal easier by using products like salt and sand to melt the snow and ice. Many people do not realize that these products are harming local waters and the animals that rely on them. When the ice and snow melt, the salt and chemicals flow into street drains that lead directly to rivers and lakes.

SHOVEL OFTEN AND EARLY

Shoveling often during and immediately following the storm removes the snow from walkways and driveways before it gets packed down by tires and feet. The most important part of deicing is removing as much snow as possible before applying salt or sand - it's also great exercise!

Use only the recommended amount.

Throwing down more salt will not speed up the melting process.

MAKE THE MOST OF THE SALT YOU USE

It is not always necessary to see bare pavement to have a safe winter surface. Ask yourself if it is necessary that the snow or ice be removed. For salt to be effective, air temperature needs to be warmer than the surface temperature of the area you want to treat. A little goes a long way. Use only the recommended amount. Throwing down more salt will not speed up the melting process. Use only enough deicer to break the bond between the ice and the pavement, then remove the remaining slush by shoveling.

LIMIT THE AMOUNT OF SAND YOU USE

Sand provides traction. It does not melt ice. Sand, although not chemical, contributes to polluting our local waters. It adds to the excess sediment that is entering waterways, eliminating important habitat for aquatic plants and animals. Sand does play a role in winter road management. It is often used by municipalities on roads to help maintain traction. Since ice removal is typically the concern of homeowners, sand may not be necessary.

Stormwater is rain or snowmelt and water from things people do, like overwatering the lawn or washing the car on the driveway. This water runs off our properties, into the street and down the storm drain - picking up pollutants on its way. Once it reaches the storm drain the water and the pollutants it carries is discharged into local waterways.

Untreated runoff is the biggest threat to our nation's water quality, according to the U.S. Environmental Protection Agency. Let's make the small, important changes that will reduce that threat and improve water quality and our lives!

Realize

What touches the ground enters the water

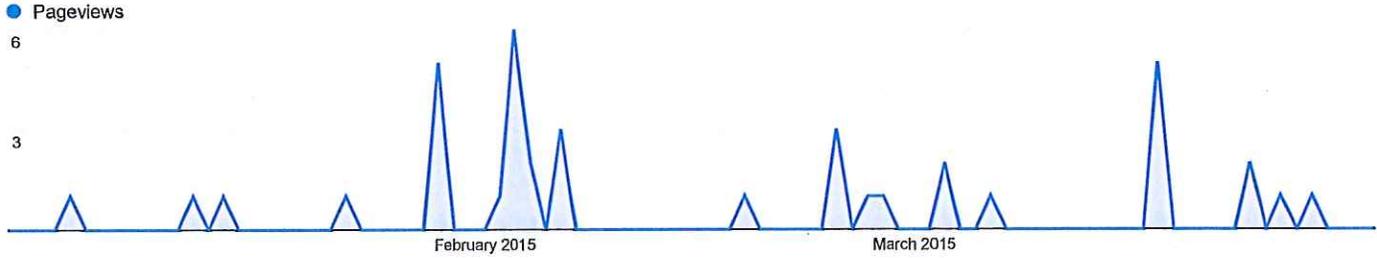
Jan 1, 2015 - Mar 31, 2015

Content Drilldown

ALL » PAGE PATH LEVEL 1: /Departments/ » PAGE PATH LEVEL 2: /EngineeringGIS/ » PAGE PATH LEVEL 3: /StormWaterManagement/

All Sessions
0.08%

Explorer



Page path level 4	Pageviews	Unique Pageviews	Avg. Time on Page	Bounce Rate	% Exit
	39 % of Total: 0.08% (46,671)	30 % of Total: 0.08% (36,376)	00:00:54 Avg for View: 00:01:15 (-28.08%)	33.33% Avg for View: 52.70% (-36.75%)	15.38% Avg for View: 40.31% (-61.84%)
1. /tabid/155/Default.aspx	27 (69.23%)	20 (66.67%)	00:00:56	0.00%	7.41%
2. /StormWaterOrdinances/tabid/156/Default.aspx	9 (23.08%)	8 (26.67%)	00:00:18	100.00%	44.44%
3. /StormWaterFriendlyTips/tabid/157/Default.aspx	3 (7.69%)	2 (6.67%)	00:01:33	0.00%	0.00%

Rows 1 - 3 of 3

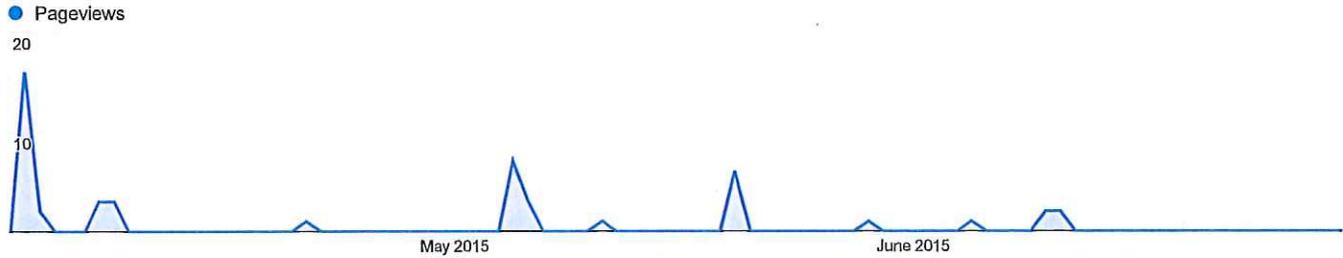
Apr 1, 2015 - Jun 30, 2015

Content Drilldown

ALL » PAGE PATH LEVEL 1: /Departments/ » PAGE PATH LEVEL 2: /EngineeringGIS/ » PAGE PATH LEVEL 3: /StormWaterManagement/

All Sessions
0.07%

Explorer



Page path level 4	Pageviews	Unique Pageviews	Avg. Time on Page	Bounce Rate	% Exit
	48 % of Total: 0.07% (73,386)	27 % of Total: 0.05% (57,767)	00:01:14 Avg for View: 00:01:19 (-8.84%)	0.00% Avg for View: 58.52% (-100.00%)	10.42% Avg for View: 44.25% (-76.46%)
1. /tabid/155/Default.aspx	24 (50.00%)	14 (51.85%)	00:01:24	0.00%	16.67%
2. /StormWaterOrdinances/tabid/156/Default.aspx	13 (27.08%)	8 (29.63%)	00:01:55	0.00%	7.69%
3. /tabid/155/ctl/Edit/mid/563/ItemID/69/Default.aspx	6 (12.50%)	1 (3.70%)	00:00:06	0.00%	0.00%
4. /StormWaterFriendlyTips/tabid/157/Default.aspx	4 (8.33%)	3 (11.11%)	00:00:20	0.00%	0.00%
5. /tabid/155/ctl/Login/Default.aspx?returnurl=/Departments/EngineeringGIS/StormWaterManagement/tabid/155/Default.aspx	1 (2.08%)	1 (3.70%)	00:00:06	0.00%	0.00%

Rows 1 - 5 of 5

Content Drilldown

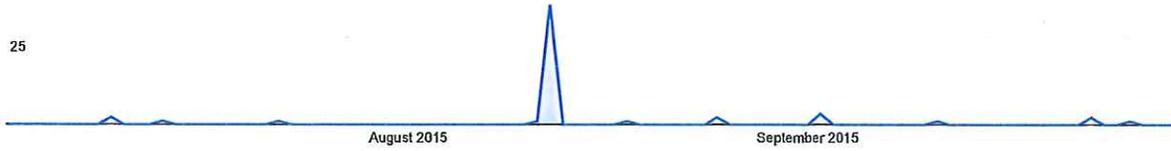
Jul 1, 2015 - Sep 30, 2015

ALL » PAGE PATH LEVEL 1: /Departments/ » PAGE PATH LEVEL 2: /EngineeringGIS/ » PAGE PATH LEVEL 3: /StormWaterManagement/

All Sessions
0.06%

Explorer

Pageviews
50



Page path level 4	Pageviews	Unique Pageviews	Avg. Time on Page	Bounce Rate	% Exit
	49 % of Total: 0.06% (75,885)	25 % of Total: 0.04% (60,572)	00:01:22 Avg for View: 00:01:25 (-4.15%)	33.33% Avg for View: 61.25% (-45.58%)	8.16% Avg for View: 47.63% (-82.86%)
1. /StormWaterOrdinances/tabid/156/Default.aspx	24 (48.98%)	8 (32.00%)	00:01:28	0.00%	4.17%
2. /tabid/155/Default.aspx	22 (44.90%)	15 (60.00%)	00:01:21	33.33%	13.64%
3. /StormWaterOrdinances/tabid/156/ctl/Edit/mid/564/Default.aspx?popUp=true	2 (4.08%)	1 (4.00%)	00:00:56	0.00%	0.00%
4. /StormWaterOrdinances/tabid/156/ctl/Login/Default.aspx?returnurl=/Departments/EngineeringGIS/StormWaterManagement/StormWaterOrdinances/tabid/156/Default.aspx	1 (2.04%)	1 (4.00%)	00:00:05	0.00%	0.00%

Rows 1 - 4 of 4

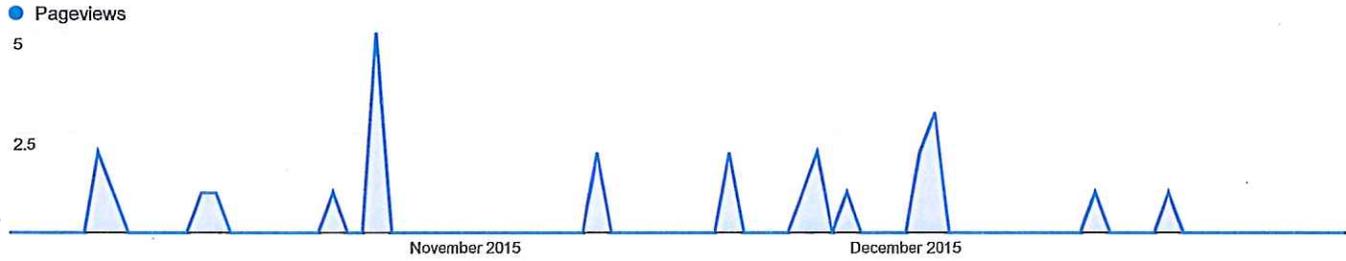
Oct 1, 2015 - Dec 31, 2015

Content Drilldown

ALL » PAGE PATH LEVEL 1: /Departments/ » PAGE PATH LEVEL 2: /EngineeringGIS/ » PAGE PATH LEVEL 3: /StormWaterManagement/

All Sessions
0.07%

Explorer



Page path level 4	Pageviews	Unique Pageviews	Avg. Time on Page	Bounce Rate	% Exit
	26 % of Total: 0.07% (38,564)	20 % of Total: 0.06% (30,898)	00:00:18 Avg for View: 00:01:13 (-74.96%)	50.00% Avg for View: 53.63% (-6.76%)	11.54% Avg for View: 41.30% (-72.06%)
1. /tabid/155/Default.aspx	17 (65.38%)	15 (75.00%)	00:00:27	50.00%	17.65%
2. /StormWaterOrdinances/tabid/156/Default.aspx	9 (34.62%)	5 (25.00%)	00:00:05	0.00%	0.00%

Rows 1 - 2 of 2

Ashwaubenon

Recreation & Village Services

SPRING & SUMMER
2015

Applications Now Being Accepted for
Summer & Fall Part-Time Recreation Jobs!



2155 Holmgren Way
Ashwaubenon, WI 54304
920.492.2331

www.ashwaubenon.com

STORM WATER UTILITY



With the creation of the Storm Water Utility in 2012, all developed parcels in the Village have received a storm water usage charge (a line item included on the Water & Sewer Utility invoice or a separate Storm Water Utility invoice) based on the amount of impervious surface that parcel has. Impervious surfaces are those that prevent water from infiltrating into the ground, such as rooftops, driveways, parking lots, and sidewalks. The amount of impervious surface was determined from the 2010 Aerial Photos completed for Brown County (available on the Village Website through "Access Ashwaubenon"). The 2014 aerial photos will be used to update the impervious surface calculations in 2015.

A typical residential lot has 3,316 square feet of impervious surface which is the basis for the annual rate of \$50 per equivalent runoff unit (ERU). 1 ERU is the same as 1 Usage charge on the Utility invoice. The Village has calculated each parcel's ERU/Usage. A parcel with 3,316 square feet of impervious surface will see a \$12.50 storm water charge on their quarterly water bill. If a parcel has less than the average amount of impervious surface, the Usage charge will be less. Larger parcels will have multiple ERU/Usage charges.

Storm Water Utility funds are being used to meet mandates by the Wisconsin Department of Natural Resources to ensure Waters of the State are kept clean. Through the Wisconsin Pollution Discharge and Elimination System (WPDES) permitting process, the Village must continually stay in compliance with the Municipal Separate Storm Sewer System Discharge Permit issued to the Village in 2006 and reviewed in 2014.

A Utility also includes all tax-exempt parcels in with this effort so that all

generators of storm water runoff are working together on storm water management.

Projects being funded by the Storm Water Utility in 2015 include a storm water pond near the Holmgren Way/Van Der Perren Way intersection, runoff conveyance measurements in floodplain areas, system maintenance (i.e. existing pond dredging, storm sewer replacement and cleaning) street sweeping, yard waste management, and overall system management planning.



If you have any questions regarding the Storm Water Utility or your storm water charge, please contact the Village Engineer, Steve Birr, in the Public Works Department at (920) 492-2308.

Outreach Activities January 2015 to Present

School Outreach:

- 2/6/15 Jacob Shapiro Elementary School in Oshkosh (2) fourth grade classes (approx. 40 children)
- X 2/9/15 Pioneer Elementary School Ashwaubenon (3) fifth grade classes (approx. 60 children)
- 3/12/15 Notre Dame Academy in Green Bay (3) Junior & Senior classes (approx. 60 students)
- 3/19/15 Stephanie Staiton's Apprenticeship High School in Green Bay (2) Senior classes (approx. 25 students)
- 3/31/15 Alliance Charter Elementary School in Neenah (3) combined grade 1, 2, & 3 classes (approx. 65 students)
- 4/7/15 Madison Elementary in Manitowoc (2) fifth grade classes (approx. 45 students)
- 4/15/15 De Pere High School (1) Environmental Studies class (approx. 18 students)
- 4/21/15 Appleton North High School Green Careers event (approx. 40 students)
- 5/14/15 Baird Elementary School in Green Bay (2) fifth grade classes
- 9/22/15 Outagamie County Field Days (Greenville Middle, Hortonville Middle, and Shiocton) (335 reached)
- 9/23/15 Outagamie County Field Days (St. Francis Xavier, Mount Olive, Rockledge, & St. Peter Lutheran) (308 reached)
- 9/24/15 Outagamie County Field Days (New London Middle, Black Creek Elementary, & Johnson Elementary) (310 reached)
- 11/4/15 De Pere High School Environmental Studies class (approx. 20 students)
- X 11/10/15 Pioneer Elementary in Ashwaubenon (2) fifth grade classes (approx. 50 students)
- X 11/11/15 Pioneer Elementary in Ashwaubenon (2) fifth grade classes (approx. 50 students)

Exhibiting:

- 1/17/15 Day With the Eagles at FREEA (approx. 50 reached)
- 2/20-2/21/15 Sport Fishing Show at Player's Choice (approx. 400 reached)
- 4/21/15 UW-Green Bay Earth Week exhibiting (approx. 60 reached)
- 4/28/15 Time Warner Cable "Green Fair" (approx. 100 reached)
- 6/6/15 Kid's Fishing Day at Jefferson Park in Menasha (approx. 300 reached)
- 6/14/15 Bellevue Community Picnic in Bellevue (approx. 65 reached)
- 8/7/15 Community Cares Event in Two Rivers (approx. 55 reached)
- 8/11/15 Rock Our Water Event in Green Bay (approx. 50 reached)
- 8/14/15 Lake Michigan Day at UW-Manitowoc (approx. 40 reached)
- 9/12/15 Neenah Farmer's Market (Sustainable Neenah Table)(approx. 50 Reached)

Rain Barrel Workshops:

- 3/7/15 Appleton Rain Barrel Workshop at FREEA in Appleton (approx. 15 attendees)
- 4/18/15 Oshkosh Rain Barrel Workshop at Masonic Center in Oshkosh (approx. 50 people)
- 6/18/15 Appleton Rain Barrel Workshop at FREEA in Appleton (approx. 20 attendees)

Presentations:

- 4/8/15 Rain Barrel & Rain Gardens to the Women League of Voters at Primos in Oshkosh (approx 30 people)
- 4/8/15 Rain Garden Presentation at the Maritime Museum in Manitowoc (reach 23 people)
- 4/22/15 Earth Day Event at FREEA, morning hands on stormwater education for ages 3-10 (approx. 50)
- 4/24/15 Stormwater Presentation at UW-Oshkosh for Earth Week events (20 students and community members)
- 4/28/15 Ducks Unlimited UWGB Chapter presentation on TMDL – what does it mean for the watershed? (reach ?)
- 7/22/15 FREEA (the Refuge) Summer Camp: Water Week, Day 3: Stormwater (approx. 15 reached)
- 10/27/15 UWGB Environmental Studies, NEWSC, stormwater & TMDL presentation
- 11/16/15 Girl Scout Troop Water Track: Stormwater Talk & Pledge (approx. 12 reached)

NEWSC SWMP Report

January 01, 2015 To December 31, 2015

This program consists of the following 11 Minimum Control Measure(s).

1. Public Education and Outreach
2. Public Involvement and Participation
4. Construction Site Pollutant Control
6. Pollution Prevention
7. Storm Water Quality Management
9. Annual Report
11. NEWSC Management

July 6 - Consequences of not picking up pet waste - 130 people reached
July 7 - Vote: Best Recreational Lake Awards (Lake Winnebago was nominated) (link) - 219 people reached
July 13 - Link: Wisconsin DOT no longer uses crown vetch along highways (invasive species) - 65 people reached
July 14 - (Article) Sauk County helps residents reduce harmful stormwater runoff with rain barrel - 25+ people reached

12/31/2015

Fox-Wolf Watershed Alliance Facebook Page (7/17-9/3)

Description

Posts that were made reached many more. Below is a recap of the posts and the number of people reached:

July 17 - Vanishing Shorelines Gain Protection Along Wolf River, Lake Poygan – 95 reached
July 20 – Volunteers Needed for AIS Bridge Snapshot Day event – 457 reached
July 20 – Street art showing the land draining into storm drains (painted on storm drains) – 284 reached
July 21 – Explore your watershed! Post Crescent article on people recreating in the Crystal River – 163 reached
July 26 – A great day to enjoy the beach. Share your photos – 88 reached
July 27 – (river photo) “When one tugs on a single thing in nature, he finds it attached to the rest of the world.” – 149 reached
July 30 – Rock Our Water event at Meyer Theatre in Green Bay (focus on runoff pollution) 182 reached
August 3 – Renew Our Waters Campaign. Wash your car on the grass – 247 reached
August 4 – Appleton Summer Camp photo. Campers learned about how prairies provide shelter to prey animals and allow water to soak into the ground instead of running off. – 296 reached
August 15 - August is [WaterQualityMonth](#)! Head over to www.renewourwaters.org for tips we can all do to help protect our waters. – 371 reached
August 18 – Cat Island Restoration Project (before & After) The photo shows a build-up of wetlands from the protection of the project – 2,369 reached
August 19 – UW-Oshkosh Ranked 3rd Greenest College! – 300 reached
August 29 – Pictures of AIS Bridge Snapshot Day volunteer MarKatie looking for invasives on the Fox River – 94 reached
August 31 – Outagamie County recycling program. Recycle your large plastic items – 74 reached
September 1 – Thank you AIS Bridge Snapshot Day Volunteers (80 event photos)
September 3 – Riverwalk Project along the Fox River in Oshkosh (section opens and connects people to the river) – 80 reached

12/31/2015

Fox-Wolf Watershed Alliance Facebook Page (9/8-10/1)

Description

Posts that were made reached many more. Below is a recap of the posts and the number of people reached:

September 8 – Outagamie County recycling—empty aerosol cans can be recycled – 58 reached
September 9 – (Fox-11) Photos show flooding in northeastern Wisconsin. Visit Renewourwaters.com to see how you can reduce stormwater runoff pollution – 88 reached
September 10 – La Crosse story, “Soak It Up” showcases practices to soak up rain water like rain barrels, rain gardens, and bioswales – 171 reached
September 11 – We’ll be set up at the Neenah Farmers Market (9/12) public invited – 42 reached
September 13 – 10 Family Friendly Trails in northeast Wisconsin (link) – 92 reached
September 14 – (Post Crescent) “Women Key to Conservation Push” article about the workshop that Fox-Wolf Watershed Alliance hosted – 529 reached
September 16 – ‘Healthy Waters’ program at Fond du Lac Public Library on Sept. 30, public invited – 66 reached
September 19 – Coverage of the Bringing Back the Bay Tour that Fox-Wolf helped organize (several links) – 440 reached
September 20 – 14 photos from the Bringing Back the Bay Tour – 111 reached
September 22 – Volunteer Opportunity for the Wiouwash Trail Cleanup with the Butte des Morts Conservation Club – 33 reached
September 23 – 7 photos from the Wiouwash Trail Cleanup – 109 reached
September 25 – Time Warner Cable Blog Post about their involvement in the 8/29 AIS Bridge Snapshot Day event with TWC volunteers – 74 reached
September 29 – Photos from the Ashwaubenon highway cleanup – 90 reached
September 30 – Video from the WDNR showcasing Wisconsin’s State Parks – 101 reached
September 30 – Upcoming events at The Refuge – 15 reached

09/12/2015 Future Neenah Farmers Market

Description

The Future Neenah Farmers Market took place on Saturday, September 12th with exhibiting at Shattuck Park from 8 a.m. to noon. NEWSOC set up an exhibit and provided 8 Renew Our Waters flyers to the public. The watershed pledge was available at this event where pledgers provided their demographic information, and received either a beach ball or sports bottle that read, "I took the watershed pledge" in return. At least 60 people approached the booth throughout the event. "The Farmers Market consists of approximately 40 vendors. At the Market you'll find the flavors of the garden including the expected produce with vegetables from Asparagus to Zucchini and everything in between plus fruits from early summer strawberries to crisp fall apples!"

<http://www.neenah.org/events/farmers-market/>

Photo is linked

1.9.9 Storm Water Education Presentations

Responsible Staff / Position:

Description

Host, support or conduct presentations on stormwater education topics for local organizations, including community groups, business groups, schools, non-profit and professional organizations.

Identify each presentation conducted each reporting period, including the date, name of the group or organization, audience description, topic presented and stormwater theme, approximate number of participants in the discussion and any materials distributed. Include a copy of the presentation document when available.

Activity Date	Name
02/06/2015	Jacob Shapiro Elementary Oshkosh

Description

Outreach Coordinator, Kelly Reyer, and Executive Director, Jessica Schultz, presented to two fourth grade classrooms at Jacob Shapiro Elementary School in Oshkosh on February 6th in the morning. Both classes received a presentation on stormwater runoff education and used the enviroscape model to show stormwater runoff in action.

File Attachment [Jessica Presenting1.JPG](#)

File Attachment [Jessica Presenting2.jpg](#)

02/09/2015 Pioneer Elementary School Ashwaubenon

Description

Outreach Coordinator, Kelly Reyer, and Executive Director, Jessica Schultz, presented to three fifth grade classrooms at Pioneer Elementary School in Ashwaubenon on February 9th during the afternoon. All three classes received a presentation on stormwater runoff education and used the enviroscape model to show stormwater runoff in action.

File Attachment [5th grade School Presentation 2015.ppt](#)

03/12/2015 Notre Dame Academy in Green Bay

Description

Outreach Coordinator, Kelly Reyer, presented to three junior and senior classes at Notre Dame Academy in Green Bay on March 12th during the afternoon. All three classes received a presentation on stormwater runoff education and used the enviroscape model to show stormwater runoff in action.

File Attachment [High School 2014.ppt](#)

File Attachment [notredamety.jpg](#)

10/27/2015 University of Wisconsin - Green Bay

Description

Presentation and discussion with the students in the UWGB Perspectives in Environmental Science & Policy graduate course. The presentation was titled "Applying Environmental Science and Policy in the Nonprofit Sector." We were asked to discuss how we use science and policy in your job/how it affects your job. This presentation was given for NEWSOC and FWWA.

File Attachment [UW GB Presentation.pptx](#)

11/04/2015 De Pere High School

Description

Outreach Coordinator, Kelly Reyer, presented to the junior/senior Environmental Studies class at De Pere High School in De Pere on November 11th during the afternoon. The class received a presentation on stormwater runoff education and used the enviroscape model to show stormwater runoff in action. There were approximately 15 students.

11/10/2015 Pioneer Elementary Ashwaubenon

Description

Outreach Coordinator, Kelly Reyer, presented to two 5th grade classes at Pioneer Elementary School in Ashwaubenon in the morning on November 10th. The classes received a presentation on stormwater runoff education and used the enviroscape model to show stormwater runoff in action. There were approximately 50 students.

11/11/2015 Pioneer Elementary Ashwaubenon

Description

Outreach Coordinator, Kelly Reyer, presented to two 5th grade classes at Pioneer Elementary School in Ashwaubenon in the morning on November 11th. The classes received a presentation on stormwater runoff education and used the enviroscape model to show stormwater runoff in action. There were approximately 50 students.

11/16/2015 Girl Scout Troup 2337

Description

Outreach Coordinator, Kelly Reyer, presented to Girl Scout Troup 2337 at the Refuge in Appleton at 6:30pm. The group received a presentation on stormwater runoff education and used the enviroscape model to show stormwater runoff in action. Afterwards, the girls took the watershed pledge. There were approximately 10 students.

12/02/2015 Lakeshore Elementary Fond du Lac

Description

Outreach Coordinator, Kelly Reyer, presented to two 5th grade classes at Lakeshore Elementary in Fond du Lac in the afternoon on December 2nd. The classes received a presentation on stormwater runoff education and used the enviroscape model to show stormwater runoff in action. There were approximately 50 students.

1.9.10 Collaborative Education Efforts

Responsible Staff / Position:

Description

Collaborate with other entities to meet stormwater education and outreach goals, including local and regional non-profit/ environmental/ community groups and other local units of government.

Summarize collaboration efforts each reporting period, including the name and description of each group, and collaborative efforts completed including a summary of educational materials or information provided, date conducted and estimated number of participants for each activity.

Activity Date	Name	Description
None		

Attachment B

2015 Illicit Discharge Detection and Elimination Information

Steve Birr

From: Enderby, Adam <enderbya@AyresAssociates.com>
Sent: Tuesday, September 22, 2015 2:02 PM
To: Steve Birr
Cc: Liebman, Mike
Subject: SW19 Stormwater Outfall Illicit Discharge

Steve,

I tested the discharge water at the SW19 outfall today and got negative results on all of the tests.

Temp: 67 deg F
pH: 7.9
Chlorine: 0.0
Free Copper: 0.0
Total Copper: 0.0
Detergents: 0.0
Phenols: 0.0

Let me know if you need me to look at anything else or have any questions.

Thanks,
Adam



Adam J. Enderby, EIT

Civil Engineering Staff

Ayres Associates

3376 Packerland Drive • Ashwaubenon, WI 54115

T: 920.498.1200 • C: 920.391.8370

EnderbyA@AyresAssociates.com

www.AyresAssociates.com

**ILLICIT STORMWATER
DISCHARGE MONITORING
2015 NW QUADRANT**



AYRES
ASSOCIATES

Village of Ashwaubenon, Wisconsin

**NW Outfall Inspection Summary
Village of Ashwaubenon**



Basin Outfall	Location	Basin Land Use	Date Inspected	Findings	Testing Results	Source
<i>MINOR</i>						
NW3	N. of Orlando Dr. cul-de-sac	Residential	9/2/2015	Low flow, algae, new riprap	Negative	GW Infiltration/Sumps
NW4	SW of North/Gerhardt Int.	Residential	9/2/2015	Low flow, algae	Negative	GW Infiltration/Sumps
NW6	Behind 2412 Leona Dr.	Residential	9/2/2015	Dry, algae	Negative	GW Infiltration/Sumps
NW7	Kimberly St. betw. Buffalo/Glen	Residential	9/2/2015	Low flow	Negative	GW Infiltration/Sumps
NW9	N. of Buffalo betw. 1382/1386	Residential	9/2/2015	Dry, algae		
NW10	Kimberly St. betw. Buffalo/Glen	Residential	9/2/2015	Dry		
NW11	500' E of Balsam betw. Buffalo/Glen	Residential	9/1/2015	Dry		
NW12	440' E. of Balsam betw. Buffalo/Glen	Residential	9/1/2015	Dry		
NW13	Behind 1446 Buffalo St.	Residential	9/1/2015	Dry, algae		
NW14	30 YD W of B.O.C. W. side of Balsam	Residential	9/1/2015	Dry		
NW15	N. of Buffalo/Peshigo Int.	Residential	9/1/2015	Dry, algae		
NW17	NE Quadrant of Shady/Bufalo	Residential	9/1/2015	Moderate flow	Negative	Babcock Pond overflow/GW Infil./Sumps
NW20	W. of Packerland @ Lamers Pond	Residential	9/1/2015	Dry, riprap washed away		
NW21	Soutpoint Rd, 250' S. of Cormier	Commercial	9/1/2015	Low flow	Negative	Drainage Ditch/Casino Lot & Wetland Area
NW22	S. of Ruby/View Int.	Residential	9/1/2015	Low flow	Negative	Green Bay Storm System
NW23	100yds NE of Ledvina cul-de-sac	Residential	9/1/2015	Dry		
NW24	SW of Dew/Glen Int.	Residential	9/1/2015	Dry		
NW25	S. of Key Way/Glen	Residential	9/1/2015	Low, scum in flowline	Trace Detergents	GW Infiltration/Sumps
NW27	S. of Courtland cul-de-sac	Residential	9/1/2015	Dry		
NW28	E. of Shady @ Sherwood Forest Park	Residential	9/1/2015	Low flow, algae	Trace Detergents	GW Infiltration/Sumps
NW29	SW of Mesa/Trissino Int.	Residential	9/1/2015	Low flow	Trace Detergents	GW Infiltration/Sumps
<i>MAJOR</i>						
NW8	Behind 1316 North Rd.	Resid/Comm	9/2/2015	Low flow (surging)	Negative	GW Infiltration/Sumps
NW16	Behind 1528 Buffalo St.	Residential	9/1/2015	Dry		
NW26	Balsam betw. Buffalo and Glen	Residential	9/1/2015	Low flow, partial submerge	Trace Detergents	GW Infiltration/Sumps



**NW Outfall Sample Results
Village of Ashwaubenon**

Basin Outfall	Date Tested	pH	Chlorine	Copper		Phenols	Detergents
				Free	Total		
<i>MINOR</i>							
NW3	9/2/2015	7.6	0.0	0.0	0.0	0.0	0.0
NW4	9/2/2015	8.5	0.0	0.0	0.0	0.0	0.0
NW6	9/2/2015						
NW7	9/2/2015	8.4	0.0	0.0	0.0	0.0	0.0
NW9	9/2/2015						
NW10	9/2/2015						
NW11	9/1/2015						
NW12	9/1/2015						
NW13	9/1/2015						
NW14	9/1/2015						
NW15	9/1/2015						
NW17	9/1/2015	8.1	0.0	0.0	0.0	0.0	0.0
NW20	9/1/2015						
NW21	9/1/2015	7.5	0.0	0.0	0.0	0.0	0.0
NW22	9/1/2015	8.1	0.0	0.0	0.0	0.0	0.0
NW23	9/1/2015						
NW24	9/1/2015						
NW25	9/1/2015	8.5	0.0	0.0	0.0	0.0	0.05
NW27	9/1/2015						
NW28	9/1/2015	8.1	0.0	0.0	0.0	0.0	0.05
NW29	9/1/2015	8.2	0.0	0.0	0.0	0.0	0.05
<i>MAJOR</i>							
NW8	9/2/2015	8.5	0.0	0.0	0.0	0.0	0.0
NW16	9/1/2015						
NW26	9/1/2015	8.6	0.0	0.0	0.0	0.0	0.05

**AVRES
ASSOCIATES**

Village of Ashwaubenon – Illicit Storm Water Discharge Monitoring

NW Minor Outfalls

- NW 3 N. inlet at Santa Barbara Dr. and Eminence Street intersection had a sump pump/storm lateral discharge from 1340 Eminence Street (Western Adobe Apts) showing low flow. Very little to no flow coming from Emir Street, manholes and inlets along Emir St. show wetness of recent use. Sample was drawn from the storm manhole between 2243/2235 Santa Barbara Drive. Apron endwall appears to be separating from the last pipe section at outfall, no tie rods. New rip rap was installed during the Hwy 41 construction efforts.
- NW 4 Various flows coming from ground water infiltration and sump pump discharges. Storm lateral from 2360/2358 Cedar Ridge witnessed operating in inlet. Inlet on the opposite side of Cedar Ridge has infiltration on the upstream and downstream leads. Infiltration also present at inlet on the SW corner of Cedar Ridge/North (north intersection). Intermittent flow from View Ln. sump pumps. No flow from North of View Ln. to Cormier Rd. Apron endwall appears to be separating from last pipe section, no tie rods present.
- NW 7 Trace of flow from mini storm west of Kimberly St. between houses 2372 and 2380 Kimberly St. No flows on Lindale Ln. west of Kimberly St. Intermittent sump pump operation on Lindale Ln. and Bruce Ln. east of Kimberly St. Sample drawn from manhole at the intersection of Glen/Kimberly.
- NW 17 Flow originates from Babcock Pond overflow structure on the south side of STH 172. Various sump pump discharges and groundwater infiltration from pond to outfall structure.
- NW 21 75% of flow originates from a drainage ditch west of South Point Rd. 250' south of North Rd. Remaining flow is from Radisson Inn/Conference Center and Oneida Bingo/Casino parking lot and wetland areas south of Maes Drive. Infiltration to the catch basins along the south side of Maes Drive was observed. Wetlands appeared to be recently delineated via pink flags.
- NW 22 Flow is from the City of Green Bay (N. side of Cormier Rd.). Low flow from both the east and west of Ruby Ln. No flow from View Ln. Discharging at wetlands west of Lamers Pond.
- NW 25 Storm MH was dry at the Key Way and Lindale intersection. Flow from sump pump operation and ground water infiltration along Key Way produces flow.
- NW 28 Infiltration present in MH at Sherwood Forest Park. 80% of flow appeared to be coming from Mesa Drive, west side of Shady Ln. No flow observed in MH between 1561 and 1571 Mesa Dr. Trickle of flow coming from the north at storm manhole at the intersection of Mesa/Shady. Sump pump operation and groundwater infiltration also enter the system at various locations, visible through wet storm sewer structures.
- NW 29 Low flow from Sweetwater Ct. Storm laterals are wet showing recent use. Residential lawns appear to be heavily watered. Minimal wetness in sump pump discharges, groundwater infiltration is assumed to be present.

Village of Ashwaubenon – Illicit Storm Water Discharge Monitoring

NW Major Outfalls

- NW 8 90% of flow appears to be coming from the west along North Rd. Groundwater infiltration and sump pump discharge are the contributors to the suggested flow. Visible active sump discharge into the last MH @ the North/Kimberly intersection from duplex in the NE corner (2467 Kimberly/1392 North). Remaining flow coming from the east, storm manhole between 1288 and 1280 North Rd. was dry. Flow from outfall appeared to be surging, suggesting that sump pumps are operating intermittently. Old apron endwall sitting at outfall, pipe appeared to be replaced recently, erosion mat was still visible.
- NW 26 Flow east on Bruce Lane from Balsam. Witnessed active storm lateral inlet from 1580 & 1581 Bruce Ln. MH between 1617 and 1611 Bruce Ln. was dry. Active sump pump discharge witnessed at the north inlet between 1452 & 1444 Bruce. More flow coming from the east, visible at storm manhole in front of 1445 Bruce. Low flow witnessed from MH at the cul-de-sac west of the View/Balsam intersection. More flow was coming from Smith Park to the west. Flow east on View Ln. from Balsam. Lateral inlet for 1424 View Ln. appeared wet. Flow from Cormier Rd. East of Balsam was low flow and west of Balsam was a moderate flow. No flow from Balsam north of Cormier Rd. Large drainage basin generating flows from various sump pump discharges and groundwater infiltration.

Attachment C

2015 Maintenance Activities on BMP's

- Street Sweeping
- Catch Basin and storm sewer cleaning/jetting
- Leaf pick-up
- Monitoring Storm Water ponds
- Storm Sewer Outfall Repairs
- Erosion Control Installation and Repairs