Village of West Milwaukee Municipal Separate Storm Sewer System (MS4) 2021 Annual Report





CREATIVITY BEYOND ENGINEERING



WPDES Permit No. WI-S065404-2 Effective April 1, 2020 – March 31, 2025

Submittal of Annual Reports and Other Compliance Documents for Municipal Separate Storm Sewer System (MS4) Permits

NOTE: Missing or incomplete fields are highlighted at the bottom of each page. You may save, close and return to your draft permit as often as necessary to complete your application. After 120 days your draft is **deleted**.

Form 3400-224(R8/2021)

Reporting Information :

Will you be completing the Annual Report or other submittal type?
 Annual Report
 Other

Project Name:	2021 Annual Report		
County:	<u>Milwaukee</u>		
Municipality:	West Milwaukee, Village		
Permit Number:	S065404		
Facility Number:	31322		
Reporting Year:	<u>2021</u>		

Is this submittal also satisfying an Urban Nonpoint Source Grant funded deliverable? O Yes 💿 No

Required Attachments and Supplemental Information

Please complete the contents of each tab to submit your MS4 permit compliance document. The information included in this checklist is necessary for a complete submittal. A complete and detailed submittal will help us review about your MS4 permit document. To help us make a decision in the shortest amount of time possible, the following information must be submitted:

Annual Report

- Review related web site and instructions for Municipal storm water permit eReporting [Exit Form]
- Complete all required fields on the annual report form and upload required attachments
- Attach the following other supporting documents as appropriate using the attachments tab above
 - Public Education and Outreach Annual Report Summary
 - Public Involvement and Participation Annual Report Summary
 - Illicit Discharge Detection and Elimination Annual Report Summary
 - Construction Site Pollution Control Annual Report Summary
 - Post-Construction Storm Water Management Annual Report Summary
 - Pollution Prevention Annual Report Summary
 - Leaf and Yard Waste Management
 - Municipal Facility (BMP) Inspection Report
 - Municipal Property SWPPP
 - Municipally Property Inspection Report
 - Winter Road Maintenance
 - Storm Sewer Map Annual Report Attachment
 - Storm Water Quality Management Annual Report Attachment
 - TMDL Attachment
 - Storm Water Consortium/Group Report

- Municipal Cooperation Attachment
- Other Annual Report Attachment
- Attach the following permit compliance documents as appropriate using the attachments tab above
 - Storm Water Management Program
 - Public Education and Outreach Program
 - Public Involvement and Participation Program
 - Illicit Discharge Detection and Elimination Program
 - Construction Site Pollutant Control Program
 - Post-Construction Storm Water Management Program
 - Pollution Prevention Program
 - Municipal Storm Water Management Facility (BMP) Inventory
 - Municipal Storm Water Management Facility (BMP) Inspection and Maintenance Plan
 - Total Maximum Daily Load documents (*If applicable, see permit for due dates.)
 - TMDL Mapping*
 - TMDL Modeling*
 - TMDL Implementation Plan*
 - Fecal Coliform Screening Parameter *
 - Fecal Coliform Inventory and Map (S050075-03 general permittees Appendix B B.5.2 document due to the department by March 31, 2022)
 - Fecal Coliform Source Elimination Plan (S050075-03 general permittees Appendix B document due to the department by October 31,2023)
- Sign and Submit form

Municipal Contact Information- Complete

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 (Department) by March 31 of each year to report on activities for the previous calendar year ("reporting year"). This form is being provided by the Department for the user's convenience for reporting on activities undertaken in each reporting year of the permit term. 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.]. **Note:** Compliance items must be submitted using the Attachments tab.

Municipality Information

Name of Municipality	West Milwaukee, Village
Facility ID # or (FIN):	31322
Updated Information:	Check to update mailing address information
Mailing Address:	4755 West Beloit Rd.
Mailing Address 2:	
City:	West Milwaukee
State:	Wisconsin
Zip Code:	53214 xxxxx or xxxxx-xxxx

Primary Municipal Contact Person (Authorized Representative for MS4 Permit)

The "Authorized Representative" or "Authorized Municipal Contact" includes the municipal official that was charged with compliance and oversight of the permit conditions, and has signature authority for submitting permit documents to the Department (i.e., Mayor, Municipal Administrator, Director of Public Works, City Engineer).

Select to <i>create new</i> primary contact				
First Name:	James			
Last Name:	Stenzel			
Select to <i>update</i> current contact information				
Title:	Superintendent of DPW			
Mailing Address:	4517 W Burnham St			
Mailing Address 2:				
City:	West Milwaukee			
State:	<u>WI</u>			
Zip Code:	53219 xxxxx or xxxxx-xxxx			
Phone Number:	414-645-6238 Ext: xxx-xxx-xxxx			
Email:	james.stenzel@westmilwaukee.org			

Additional Contacts Information (Optional)

- 🗌 I&E Program
- ✓ IDDE Program

Individual with responsibility for: (Check all that apply)	 IDDE Response Procedure Manual Municipal-wide Water Quality Plan Ordinances Pollution Prevention Program Post-Construction Program Winter roadway maintenance 			
First Name:	Riley			
Last Name:	Stone			
Title:	Consultant			
Mailing Address:	16745 W Bluemou	und Road	1	
Mailing Address 2:				
City:	Brookfield			
State:	<u>WI</u>			
Zip Code:	53005	xxxxx or	xxxxx-xxxx	
Phone Number:	262-317-3269	Ext:		xxx-xxx-xxxx
Email:	riley.stone@rasm	ith.com		
Individual with responsibility for: (Check all that apply)	 ✓ I&E Program ✓ IDDE Program ✓ IDDE Response Procedure Manual ✓ Municipal-wide Water Quality Plan ✓ Ordinances ✓ Pollution Prevention Program ✓ Post-Construction Program ✓ Winter roadway maintenance 			ıl ın
First Name:	Len			
Last Name:	Roecker			
Title:	Village Engineer			
Mailing Address:	16745 W Bluemound Road			
Mailing Address 2:				
City:	Brookfield			
State:	<u>WI</u>			
Zip Code:	53005	xxxxx or	xxxxx-xxxx	
Phone Number:	262-317-3383	Ext:		xxx-xxx-xxxx
Email:	len.roecker@rasm	nith.com		

✓ I&E Program☐ IDDE Program

Individual with responsibility for: (Check all that apply)	 IDDE Response Procedure Manual Municipal-wide Water Quality Plan Ordinances Pollution Prevention Program Post-Construction Program Winter roadway maintenance 		
First Name	lacob		
Last Name:	Fincher		
Title:	Evocutivo Director		
Mailing Address:	600 E Greenfield Ave		
Mailing Address 2:			
Maning Address 2:			
City:	Milwaukee		
State:	<u>WI</u>		
Zip Code:	53204 xxxxx or xxxxx-xxxx		
Phone Number:	262-716-2211 Ext: xxx-xxx-xxxx		
Email:	fincher@swwtwater.org		

1. Does the municipality rely on another entity to satisfy some of the permit requirements?

 \odot Yes \bigcirc No

✓ Public Education and Outreach Southern Wisconsin Watersheds Trust, Inc.

✓ Public Involvement and Participation Southern Wisconsin Watersheds Trust, Inc.

Illicit Discharge Detection and Elimination

Construction Site Pollutant Control

Post-Construction Storm Water Management

Pollution Prevention

2. Has there been any changes to the municipality's participation in group efforts towards permit compliances (i.e., the municipality has added or dropped consortium membership)?

🔾 Yes 💿 No

Minimum Control Measures- Section 1: Complete

1. Public Education and Outreach

a. Complete the following information on Public Education and Outreach Activities related to storm water. Select the Delivery Mechanism that best describes how the topics were conveyed to your population. Use the Add Event to add additional entries.

Event Start Date	1/1/2021			
Project/Event Name	Respect Our Waters Website			
Delivery Mechanism	<u>Website</u>			*Active
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
 Illicit discharge detection and e Household hazardous waste di waste management/vehicle washin Yard waste management/pest fertilizer application Stream and shoreline managem Residential infiltration Construction sites and post-co storm water management Pollution prevention Green infrastructure/low impa development Other: General Watershed & Stormwater 	elimination isposal/pet ng icide and nent nstruction act	 General Public Public Employees Residents Businesses Contractors Developers Industries Other 	<u>101 +</u>	● Yes ○ No

Event Start Date	1/6/2021			
Project/Event Name	Watershed Wednesday Social Media Campaign			
Delivery Mechanism	Social media po	<u>ost</u>		*Active
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
 Illicit discharge detection and e Household hazardous waste di waste management/vehicle washir Yard waste management/pesti fertilizer application Stream and shoreline managen Residential infiltration Construction sites and post-co storm water management Pollution prevention Green infrastructure/low impa development Other: General Watershed & Stormwater 	elimination sposal/pet ng icide and nent nstruction ict	 General Public Public Employees Residents Businesses Contractors Developers Industries Other 	<u>101 +</u>	● Yes ○ No

Project/Event Name	Direct Mailer			
Delivery Mechanism	Distribution of	print media		*Active
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
 Illicit discharge detection and e Household hazardous waste di waste management/vehicle washir Yard waste management/pesti fertilizer application Stream and shoreline managen Residential infiltration Construction sites and post-co storm water management Pollution prevention Green infrastructure/low impa development Other: Ice & Snow Control 	elimination sposal/pet ng icide and nent nstruction	 General Public Public Employees Residents Businesses Contractors Developers Industries Other 	<u>101 +</u>	● Yes ○ No

Event Start Date	1/1/2021			
Project/Event Name	Respect Our W	aters Tabling Activities		
Delivery Mechanism	Informational b	oooth*		*Active
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
 Illicit discharge detection and e Household hazardous waste di waste management/vehicle washir Yard waste management/pesti fertilizer application Stream and shoreline management Residential infiltration Construction sites and post-constorm water management Pollution prevention Green infrastructure/low impa development Other: 	elimination sposal/pet ng icide and nent nstruction	 General Public Public Employees Residents Businesses Contractors Developers Industries Other 	<u>101 +</u>	• Yes O No

Event Start Date	12/7/2021			
Project/Event Name	Clean Rivers, Cl	ean Lake Conference		
Delivery Mechanism	Targeted group	training*		*Active
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
 Illicit discharge detection and e Household hazardous waste di waste management/vehicle washir Yard waste management/pesti fertilizer application Stream and shoreline managem 	elimination sposal/pet Ig cide and nent	 General Public Public Employees Residents Businesses Contractors 	<u>11-50</u>	● Yes ○ No

Residential infiltration	Developers	
Construction sites and post-construction	🗌 Industries	
storm water management	✓ Other	
✓ Pollution prevention		
Green infrastructure/low impact		
development		
Other:		

Event Start Date	12/8/2021			
Project/Event Name	Preparing for V	Preparing for Winter Stormwater Pollution Prevention Direct Mailer		
Delivery Mechanism	Distribution of	print media		*Active
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
 Illicit discharge detection and e Household hazardous waste di waste management/vehicle washir Yard waste management/pestifertilizer application Stream and shoreline managen Residential infiltration Construction sites and post-costorm water management Pollution prevention Green infrastructure/low impart development Other: Snow & Ice Control 	elimination sposal/pet ng icide and nent nstruction	 General Public Public Employees Residents Businesses Contractors Developers Industries Other 	<u>101 +</u>	○ Yes ● No

Event Start Date	9/20/2021						
Project/Event Name	Updated Lands	cape Company Pollution Prevention Webpage					
Delivery Mechanism	<u>Website</u>			*Active			
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)			
 Illicit discharge detection and e Household hazardous waste di waste management/vehicle washin Yard waste management/pest fertilizer application Stream and shoreline managem Residential infiltration Construction sites and post-co storm water management Pollution prevention Green infrastructure/low impart development Other: 	elimination sposal/pet ng icide and nent nstruction	 General Public Public Employees Residents Businesses Contractors Developers Industries Other 	<u>101 +</u>	○ Yes ● No			

b. Brief explanation on Public Education and Outreach reporting. *Limit response to 250 characters and/or attach supplemental information on the attachments page.*

See attachments for more information about activities performed in partnership with Sweet Water.

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 2 : Complete

2. Public Involvement and Participation

a. <u>Permit Activities</u>. Complete the following information on Public Involvement and Participation Activities related to storm water. Select the Delivery Mechanism that best describes how the permit activities were conveyed to your population. Use the Add Event to add additional entries.

Event Start Date	4/1/202	1			
Project/Event Name	Municip	al Website			
Delivery Mechanism	<u>Website</u>				
Topics Covered	Target Audience		Estimated People Reached (Optional)	Regional Effort (Optional)	
MS4 Annual Report Storm Water Management Program Storm Water related ordinance Other:		General Publi Public Employees Residents Businesses Contractors Developers Industries Other	ic 🗌	<u>101 +</u>	○ Yes ● No

b. <u>Volunteer Activities</u>. Complete the following information on Public Involvement and Participation Activities related to storm water. Select the Delivery Mechanism that best describes how volunteer activities were conveyed to your population. Use the Add Event to add additional entries.

Event Start Date	1/1/2021 🗌 NA (Individual Permittee).						
Project/Event Name	Adopt Your Drain Prog	Adopt Your Drain Program					
Delivery Mechanism	Other hands-on event						
Topics Covered	Target AudienceEstimated PeopleRegionalReached (Optional)(Optional)						
Volunteer Opportunity	☑ General Public□ Public Employees□ Residents	<u>Select</u>	● Yes ○ No				
	 Businesses Contractors Developers 						

c. Brief explanation on Public Involvement and Participation reporting. *Limit response* to 250 characters and/or attach supplemental information on the attachments page.

See attachment for more information about the Adopt Your Drain program

			Form 3400-224 (R8/
Minimum Control Measures -	ection 3 : Complete		
3. Illicit Discharge Detection a	d Elimination		
How many total outfalls doe	the municipality have?	18	
How many outfalls did the m of their routine ongoing field	unicipality evaluate as part screening program?	18	Unsure
From the municipality's rout were confirmed illicit discha	ne screening, how many ges?	0	
How many illicit discharge comunicipality receive?	1		
From the complaints receive confirmed illicit discharges?	l, how many were	1	
How many of the identified municipality eliminate in the routine screening and comp (If the sum of 3.c. and 3.e. does not equal 3.f., plea	1	Unsure	
How many of the following e use to enforce its illicit disch enter the number of each us	nforcement mechanisms di rge ordinance? Check all th ed in the reporting year.	d the munic nat apply and	ipality 🗌 Unsure d
Verbal Warning	0		
☑ Written Warning (including e	nail) O		
✓ Notice of Violation	0		
Civil Penalty/ Citation	0		
Additional Information:			
Brief explanation on Illicit Di marked Unsure for any ques 250 characters and/or attac	charge Detection and Elimi ions above, justify the rease supplemental information	nation repo oning. Limit on the attac	rting. If you response to chments page.
			1

		Form 3400-224 (R8/2021)					
Minimum Control Measures - Section 4 : Complete							
4. Construction Site Pollutant Control							
^{a.} How many total construction sites with one acre or more	0	🗌 Unsure					

	of land disturbing construction activity were ac point in the reporting year?				
b.	How many construction sites with one acre or land disturbing construction activity did the muissue permits for in the reporting year?	0	Unsure		
с.	How many erosion control inspections did the complete in the reporting year (at sites with or more of land disturbing construction activity)?	municipality ie acre or	0	Unsure	
d.	What types of enforcement actions does the m to compel compliance with the regulatory mec apply and enter the number of each used in the No Authority	unicipality h hanism? Che e reporting y	ave available ck all that ear.	Unsure Unsure	
	✓ Verbal Warning	0			
	 Written Warning (including email) 	0			
	✓ Notice of Violation	0			
	✓ Civil Penalty/ Citation 0				
	✓ Stop Work Order				
	 Forfeiture of Deposit 	0			
	Other - Describe below				

e. Brief explanation on Construction Site Pollutant Control reporting . *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page*.

			Form 3400-224 (R8/2021)
Ν	Ainimum Control Measures - Section 5 : Complete		
5	. Post-Construction Storm Water Management		
a.	How many sites with new structural storm water management facilities* have received local approval ? *Engineered and constructed systems that are designed to provide storm water quality control such as wet detention ponds, constructed wetlands, infiltration basins, grassed swales, permeable pavement, catch basin sumps, etc.	0	Unsure Unsure
b.	Does the permittee have procedures for inspecting and maintaining private storm water facilities?	● Yes ○ No	🗌 Unsure
c.	If Yes, how many privately owned storm water management facilities were inspected in the reporting year ? Inspections completed by private landowners should be included in the reported number.	0	Unsure Unsure
d.	What types of enforcement actions does the municipality hav to compel compliance with the regulatory mechanism? Check	e available k all that	Unsure

apply and enter the number of each used in the reporting year.

. . .

No Authority	
✓ Verbal Warning	0
Written Warning (including email)	0
✓ Notice of Violation	0
✓ Civil Penalty/ Citation	0
✓ Forfeiture of Deposit	0
Complete Maintenance	0
☑ Bill Responsible Party	0
□ Other - Describe below	

e. Brief explanation on Post-Construction Storm Water Management reporting. *If* marked 'Unsure' on any questions above, justify your reasoning. Limit your response to 250 characters and/or attach supplemental information on the attachments page.

		Form 3400-224 (R8/20
Minimum Control Measures - Section 6 : Complete		
6. Pollution Prevention		
Storm Water Management Facility Inspections 🛛 Not Applicable		
 Enter the total number of municipally owned or operated structural storm water management facilities ? How many new municipally owned storm water management 	3 0	UnsureUnsure
 facilities were installed in the reporting year ? How many municipally owned storm water management facilities were inspected in the reporting year? 	3	Unsure
• What elements are looked at during inspections (250 character limit)?		
See the attached BMP inspection reports.		
How many of these facilities required maintenance?	3	Unsure
Brief explanation on Storm Water Management Facility inspection reporting. If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplen information on the attachments page.	e nental	
Dublic Morke Varde 8. Other Municipally Owned Dress stics (CM/DDD 5		
Public Works Yards & Other Municipally Owned Properties (SWPPP P	lan Rev	view) 📋 Not Applicabl

g. How many municipal properties require a SWPPP?

Unsure

1

h.	How many inspections of municipal properties have been <u>4</u> Unsure conducted in the reporting year?								
 ^{i.} Have amendments to the SWPPPs been made? • Yes O No O Unsure 									
 ^{j.} If yes, describe what changes have been made. Limit response to 250 characters and/or attach supplemental information on the attachment page: SWPPP was revised to better align with NR 216.27 									
k.	 ^{k.} Brief explanation on Storm Water Pollution Prevention Plan reporting. <i>If you marked</i> Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page. 								
С	ollection Services - Street Sweeping / Cleaning Program 🗌 Not Applicable								
I.	Did the municipality conduct street sweeping/cleaning during the reporting year? ${\ensuremath{ \bullet }}$ Yes ${\odots }$ No ${\odots }$ Unsure								
m.	If known, how many tons of material was removed? 96 Unsure								
n.	Does the municipality have a low hazard exemption for this O Yes O No material?								
0.	If street cleaning is identified as a storm water best management practice in the pollutant loading analysis, was street cleaning completed at the assumed frequency?								
	Yes - Explain frequency Matches the Village's existing sweeping program								
	O No - Explain								
	○ Not Applicable								
С	ollection Services - Catch Basin Sump Cleaning Program 🔲 Not Applicable								
p.	Did the municipality conduct catch basin sump cleaning during the reporting year? • Yes No • Unsure								
q.	How many catch basin sumps were cleaned in the reporting year? 384 Unsure								
r.	If known, how many tons of material was collected? 13								
s.	Does the municipality have a low hazard exemption for this OYes ONo material?								
t.	If catch basin sump cleaning is identified as a storm water best management practice in the pollutant loading analysis, was cleaning completed at the assumed frequency?								
	Yes- Explain frequency Cleaned once per year								
	○ No - Explain								
	○ Not Applicable								
С	ollection Services - <i>Leaf Collection Program</i> 🗌 Not Applicable								
u.	Does the municipality conduct curbside leaf collection? Yes No Unsure 								
v.	Does the municipality notify homeowners about pickup?								

w.	Where are the residen	ts directed to ile in street	store the	e leaves fo	r collectio	n?	
	☑ Other - Describe G	rass clippings	and gard	en waste i	s containe	rized	
х.	What is the frequency	of collection	?				
	April through Novemb	er					
у.	s collection followed l	by street swe	eping/clea	aning?	۲	Yes 🔿 No	O Unsure
Ζ.	Brief explanation on C marked Unsure for any reasoning. Limit respo supplemental informa	ollection Serv questions at onse to 250 ch tion on the at	ices repo ove, justi aracters o tachment	rting. If you fy the and/or att ts page	u ach		
W	inter Road Manageme	nt 🗌 Not App	olicable				
*No	te: We are requesting in	formation that	goes beyor	nd the repo	rting year, a	answer the l	best you car
aa.	How many lane-miles	of roadway i	s the mur	nicipality	2	254	Unsure
ab.	Provide amount of de	show and ice	ts used b	v month la	st winter	sasson?	
	Solids (tons) (ex sand	or salt-sand		y month la	St WIIILEI	5645011:	
	Product	Oct	Nov	Dec	Jan	Feb	Mar
Sal	<u>.</u>	0	0	5	52	55	10
	Liquids (gallons) (ex. l	orine)					
Bri	10	Oct	Nov	Dec	Jan	1484	Mar 100
Oth	ner	0	0	70	253	1484	100
<u>эс</u> . эс.	Was salt applying ma year? Have municipal perso training in the report	chinery calibr onnel attende ing year?	ated in th	e reportin uction stra	g •	Yes O No	O Unsure
	Training Date	Tro	iining Name			# Attendance	
	10/26/2021	Wisconsin Salt	Nise		5		
	11/4/2021	Wisconsin Salt	Wise		3		
^{3e.} Brief explanation on Winter Road Management reporting. <i>If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page</i>							any ch
	Staff attended Wiscons	in Salt Wise tra	ining				
Int	ernal (Staff) Education	n & Communi	cation				
af	Has training or educ	cation been h	eld for m	unicipal or	other 🖲	Yes 🔿 No	o 🔾 Unsure

personnel involved in implementing each of the pollution

prevention program elements?

If yes, describe what training was provided (250 character limit):

management of municipal garages, storage area and other municipal sources of pollution; Addressing barriers to environmentally sensitive development

When: Meetings with Southeast...

How many attended: 2

^{ag.} Describe how the municipality has kept the following local officials and municipal staff aware of the municipal storm water discharge permit programs and its requirements.

Elected Officials

Board meeting updates

Municipal Officials

Emails and conversations between the Village's consultant engineer and officials

Appropriate Staff (such as operators, Department heads, and those that interact with public)

Emails and conversations between the Village's consultant engineer and appropriate staff.

^{ah.} Brief explanation on Internal Education reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

See attachment for more information about activities performed in partnership with Sweet Water.

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 7 : Complete

7. Storm Sewer System Map

- ^{a.} Did the municipality update their storm sewer map this year?
 - Yes No Unsure

If yes, check the areas the map items that got updated or changed:

- ✓ Storm water treatment facilities
- □ Storm pipes
- Vegetated swales
- Outfalls
- Other Describe below

^{b.} Brief explanation on Storm Sewer System Map reporting. If you marked Unsure for an question for any questions above, justify the reasoning. Limit response to
 250 characters and/or attach supplemental information on the attachments page.

Storm water treatment facilities were identified and added to map.

Final Evaluation - Complete

Fiscal Analysis

126530

126530

Complete the fiscal analysis table provided below. For municipalities that do not break out funding into permit program elements, please enter the monetary amount to your best estimate of what funding may be going towards these programs.

Annual Expenditure Reporting Year	Budget Reporting Year	Budget Upcoming Year	Source of Funds				
Element: Public Education and Outreach							
4589	4589	5048	Storm water utility				
Element: Public Invo	lvement and Pa	articipation					
4171	4171	4589	Storm water utility				
Element: Illicit Disch	arge Detection	and Elimination					
16045	16045	17450	Storm water utility				
Element: Construction	on Site Pollutan	it Control					
20650	20650	22715	Storm water utility				
Element: Post-Cons	truction Storm	Water Managen	nent				
22944	22944	25239	Storm water utility				
Element: Pollution F	Prevention						
117449	144449	182764	Storm water utility				
Other (describe)							
Storm Water Quality	Management						
22944	22944	25239	Storm water utility				
Other (describe)	Manufactor						
Storm Sewer System	Mapping						
4365	4365	4802	Storm water utility				
Other (describe)							
Capital Projects							

143361

Storm water utility

Please provide a justification for a "0" entered in the Fiscal Analysis. *Limit response to 250 characters*.

Water Quality

a: Were there any known water quality improvements in the receiving waters to which the municipality's storm sewer system directly discharges to?
Yes

No
Unsure
If Yes, explain below:

b: Were there any known water quality degradation in the receiving waters to which the municipality's storm sewer system directly discharges to?
○ Yes ● No ○ Unsure If Yes, explain below:

c: Have any of the receiving waters that the municipality discharges to been added to the impaired waters list during the reporting year? ○ Yes ● No ○ Unsure

d: Has the municipality evaluated their storm water practices to reduce the pollutants of concern? ○ Yes ● No ○ Unsure

Storm Water Quality Management

a. Has the municipality completed or updated modeling in the reporting year (relating to developed urban area performance standards of s. NR 151.13(2)(b)1., Wis. Adm. Code)? ○ Yes ● No

b. If yes, enter percent reduction in the annual average mass discharging from the entire MS4 to surface waters of the state as compared to implementing no storm water management controls:

Total suspended solids (TSS)

Total phosphorus (TP)

Additional Information

Based on the municipality's storm water program evaluation, describe any proposed changes to the municipality's storm water program. *If your response exceeds the 250 character limit, attach supplemental information on the attachments page.*

Requests for Assistance on Understanding Permit Programs

Would the municipality like the Department to contact them about providing more information on understanding any of the Municipal Separate Storm Sewer Permit programs?

- Please select all that apply:
- □ Public Education and Outreach
- Public Involvement and Participation
- □ Illicit Discharge Detection and Elimination
- Construction Site Pollutant Control
- □ Post-Construction Storm Water Management
- □ Pollution Prevention
- □ Storm Water Quality Management
- □ Storm Sewer System Map
- □ Water Quality Concerns
- □ Compliance Schedule Items Due
- □ MS4 Program Evaluation

Form 3400-224(R8/2021)

Required Attachments and Supplemental Information

Any other MS4 program information for inclusion in the Annual Report may be attached on here. Use the Add Additional Attachments to add multiple documents.

Upload Required Attachments (15 MB per file limit) - <u>Help reduce file size and trouble shoot file uploads</u> *Required Item

Note: To replace an existing file, use the 'Click here to attach file ' link or press the to delete an item.

Municipal Facility SW	РРР
III File Attachment	SWPollutionPreventionProgramWestMilwaukee 2022-03.pdf
Storm Sewer System	Мар
I File Attachment	<u>StormDrainageSystem2021.pdf</u>
Attach - Other Suppor	ting Documents
AR EO	
I File Attachment	WestMilwaukee2021IEReport.pdf
AR_IDDE	
I File Attachment	October2021WMIDDESummary.pdf
AR_BMPInspSum	
I File Attachment	2021WestMilwaukeeBMPInspectionDocuments.pdf
AR_MuniFacInsp	
U File Attachment	2021DPWInspectionForms.pdf
(To remove items, use your cur	sor to hover over the attachment section. When the drop down arrow appears, select remove item)
Attach - Permit Comp	liance Documents
EO Program	
I File Attachment	A-GroupPublicEducationOutreachProgram.pdf
EO Program	

File Attachment

B-IndividualPublicEducationOutreachProgram.pdf

IP_Program

l File Attachment	<u>C-PublicInvolvementParticipationProgram.pdf</u>
IDDE_Program	D-IllicitDischargeDetectionEliminationProgram.pdf
CS_Program File Attachment	E-ConstructionSitePollutantControlProgram.pdf
PCSSW_Program	F-Post-ConstructionStormWaterManagementProgram.pdf
PP_BMPInventory Image: File Attachment	StormwaterFacilityInventory2022-03-31.pdf
PP_BMPInsp File Attachment	StormwaterFacilityInventory2022-03-31.pdf
EO_Program	VillageofWestMilwaukee-StormwaterManagementPrograms2022- 03-31 Reduced.pdf

(To remove items, use your cursor to hover over the attachment section. When the drop down arrow appears, select remove item)

Sign and Submit Your Application

Steps to Complete the signature process

- 1. Read and Accept the Terms and Conditions
- 2. Press the Submit and Send to the DNR button

NOTE: For security purposes all email correspondence will be sent to the address you used when registering your WAMS ID. This may be a different email than that provided in the application. For information on your WAMS account click <u>HERE</u>.

Terms and Conditions

Certification: I hereby certify that I am an authorized representative of the municipality covered under West Milwaukee, Village MS4 Permit for which this annual report or other compliance document is being submitted, and that the information contained in this submittal 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.

Signee (must check current role prior to accepting terms and conditions)

 \bigcirc Authorized municipal contact using WAMS ID.

• Delegation of Signature Authority (Form 3400-220) for agent signing on the behalf of the authorized municipal contact.

○ Agent seeking to share this item with authorized municipal contact (authorized municipal contact must get WAMS id and complete signature).

Delegation of Signature Authority

I File Attachment

DelegationofAuthority-Signed.pdf

Submission of this form constitutes notice by the authorized municipal contact that the person electronically signing the MS4 eReport is authorized to do so on behalf of the authorized municipal contact. <u>Please download form 3400-220</u> and sign and attach it above.

Nam	e: Riley Stone
Tit	e: Civil Engineer
Authorized Signature. ✓ I accept the above terms and conditions.	Signed by : i:0#.f wamsmembership rileystone on 2022-03-31T13:01:24 You have already signed and submitted this application to the DNR. Please <u>contact</u> the Wisconsin DNR for assistance

After providing the final authorized signature, the system will send an email to the authorized party and any agents. This email will include a copy to the final read only version of this application.



Public Education & Outreach Information

February 2022

2021 Sweet Water Public Education Report

Village of West Milwaukee





Prepared by:

Southeastern WI Watersheds Trust Inc (Sweet Water) Great Lakes Research Facility 600 E Greenfield Ave Milwaukee, WI 53204 **Prepared for:** Village of West Milwaukee 4517 W Burnham St Milwaukee, WI 53219

https://www.swwtwater.org/

Respect Our Waters 2021 Completed Plan				
Audience	Ge	eneral Permit Topic	Planned Mechanisms	Activity Completed
Residents		Illicit Discharge Detection & Elimination	Watershed Wednesdays - Social Media Post & Advertisement Campaign	Campaign implemented - Section E
			Respect Our Waters Website & Topic Web Pages	Web Pages developed - Section B
	3	Yard Waste Management / Pesticide and Fertilizer	Outreach Templates & Print/Promotional Materials	Outreach Templates and Print/Promotional Materials Developed- Sections C + D
		Application	Streamed & Broadcasted Public Service	Mailing Campaign (alternate activity)- Section F
	5	Residential Infiltration	Announcements	
			Community Event Tabling	Multiple Events Attended - Section G.1
Groups & individuals responsible for the maintenance of SW management facilities	6	Construction Sites + Post-Construction SW Management	Respect Our Waters Website & Topic Web Pages	Web Pages developed - Section B
Lawn care companies, golf courses, and other appropriate businesses	7	Pollution Prevention	Outreach Templates & Print/Promotional Materials	Outreach Templates Developed- Section C
Developers & designers	8	GI / Low Impact Development	Virtual Event	Clean Rivers, Clean Lake Virtual Symposium - Section G.2

Public Education + Outreach 2021 Programs Summary

The following document was prepared for the Village of West Milwaukee to include in their 2021 annual MS4 eReport. It includes a summary of activities conducted to engage in effective public education as mandated by Wisconsin's administrative code - NR216. If you have any questions or would like more information, please contact Kristin Schoenecker, Watershed Coordination Manager of Southeastern Wisconsin Watersheds Trust, Inc. (kristin@swwtwater.org).

In 2021, the Respect Our Waters program focused on developing materials and implementing mechanisms to educate the public of West Milwaukee about phosphorus pollution. The Adopt Your Drain program provided additional educational and volunteer opportunities to members of the public. In 2021, the Adopt Your Drain program also developed a resource guide to explain to volunteers how to become more involved in public participation opportunities. This was made available at https://www.respectourwaters.org/adoptastorm-drain. Finally, Sweet Water and MS4 staff collaborated to identify opportunities to (1) make both group education and outreach programs more effective in West Milwaukee and (2) implement an individual outreach activity in West Milwaukee in 2022-23.

Respect Our Waters Mechanisms

A. MEETINGS

Sweet Water hosted one webinar and one meeting to discuss our programs with Village staff. The following MS4 employee(s) and/or consultants attended these discussions:

- I. MS4 Spring Webinar 3/16/21
 - Ben High, Stormwater Engineering Consultant
- II. MS4 Permit Group Program Discussion 4/6/21
 - Ben High, Stormwater Engineering Consultant

As a technical education program member, the MS4 also had the opportunity to schedule a stormwater education needs assessment and meeting with Sweet Water staff. Village staff took advantage of this opportunity and met with Sweet Water staff on 9/1/21. The results of this assessment are included in Appendix G, and in addition to being used to meet Individual Education Conditions, will be used to guide the activities and direction of the Respect Our Waters campaign. The following MS4 employee(s) and/or consultants participated in the assessment on 9/121.

- Len Roecker, Village Engineer
- Ben High, Stormwater Engineering Consultant
- James Stenzel, Superintendent of Public Works
- Kim Egan, Village Administrator

B. WEBSITE

In 2021, Sweet Water staff updated the Respect Our Waters website by separating the site's educational content into two categories- content appropriate for a residential audience and content appropriate for professionals whose jobs affect water quality. Before 2021, the website only included information that addressed the former audience; this was the first year of a multi-year initiative to develop and include pages that can be used to increase awareness about stormwater pollution prevention among commercial and construction audiences. New pages developed in 2021 included:

- Turf Management + Landscaping
- Stormwater BMP Management
- Low Impact Development + Green Infrastructure

Existing pages covered topics including illicit discharge detection and elimination, watersheds and stormwater, the impacts of pet waste, vehicle fluids, and leaves on stormwater pollution, tips for residential green infrastructure such as rain gardens, rain barrels, and stormwater trees, and managing lawns and gardens to reduce their impact on stormwater pollution.

C. OUTREACH TEMPLATES

In 2021, Sweet Water staff began standardizing the Outreach Template approach that we piloted in 2020. Beginning in Q3 of 2021, the program developed customizable outreach templates that spanned a variety of the year's stormwater education priority topics to allow the Village of West Milwaukee and other partners to use outreach mechanisms most utilized by their residents, such as municipal newsletters, social media accounts, and other platforms, to disseminate education. These topics included:

- Illicit Discharge Detection + Elimination
- Residential Infiltration
- Beneficial Onsite Reuse of Leaves + Yard Fertilizer Use
- Pollution Prevention Turf Management + Landscaping Industries
- Yard Waste Management
- Winter Maintenance

In order to track the usage of these templates, Sweet Water staff created a Google Form to allow MS4 partners to report when and how they used resources in the template, as well as other activities that they performed to educate the public. See Appendix A for West Milwaukee's submitted reports to Sweet Water that defined how they used these templates as well as examples of the templates.

D. MATERIALS

In 2021, Sweet Water staff created new flyers and graphics for use in both in-person and virtual forms of outreach. A new webpage was also created as a clearinghouse for all of these materials so that the Village of West Milwaukee and other partners could also access and use these materials. The webpage is accessible at https://www.swwtwater.org/request-support.

New materials developed in 2021 and available on this page include:

- What is an Illicit Discharge Flyer
- Updated Ditches & Culverts Tri-Fold Brochure
- Illicit Discharge Elimination Illegal Dumping in Storm Drains Graphic
- Illicit Discharge Elimination Illegal Dumping in Grassed Ditches Graphic
- Fertilizer + Nitrogen Pollution Prevention Graphic
- Leaves + Phosphorus Pollution Prevention Graphic
- Fall To Do List Leaf Management Graphic
- Winter Stormwater Management Graphic

See examples of these graphics and flyers in Appendix B.

E. SOCIAL MEDIA

The Respect Our Waters Facebook page is simultaneously used to directly reach the general public of southeastern Wisconsin municipalities and counties and as a depository of posts for the Village of West Milwaukee and other partners to share directly to their residents. The following posts were published in 2021, by permit topic:

Illicit Discharge Detection + Elimination				
Date	Sub-Topic	Link Number	Reach	Engagements
5/12	No Dumping	4483807091646630	57	7
5/19	Illicit Discharge Identification	4527312137296125	45	0
Yard Care				
6/2	Fertilizer	4570313286329343	39	1
6/9	Fertilizer	4590506390976699	627	14
9/1	Other Lawncare	4836508016376534	423	14
10/26	Leaf Management	5011578495536151	99	11
Residential Pollution Prevention / Snow/Ice Control				
1/11	Snow/Ice Control	4151309261563083	78	3
2/2	Snow/Ice Control	4211784725515536	170	17
2/25	Snow/Ice Control	4277392172288124	155	22
6/16	Household Hazardous Waste	4609468619080476	44	1
6/23	Vehicle Maintenance	4628497977177540	773	31

Table 1: 2021 Respect Our Waters Social Media Metrics

8/4	Pet Waste	4750339051660098	103	7
9/8	Household Hazardous Waste	4858159334211402	58	3
Residential Infilt	ration			
Date	Sub-Topic	Link Number	Reach	Engagements
7/7	Rain Gardens	4668181916542479	964	35
7/14	Rain Barrel	4688108931216444	396	22
9/29	Trees	4927291537298181	62	8

Link Number: The unique post number. Access the post by typing <u>www.facebook.com/RespectOurWaters/posts/</u> and then the unique post number after the back-slash.

Reach: The number of people who saw the post at least once. Reach is different from impressions, which may include multiple views of your post by the same people. This metric is estimated by Facebook. **Engagements:** The number of reactions, comments, shares and clicks on your post.

F. MAILING CAMPAIGN

Respect Our Waters sent out a direct mailer to 7,500 addresses in December of 2021. These addresses were targeted toward some of the most densely populated areas of each municipality, as the message was crafted to remind residents to clear the storm sewer system near their property of debris such as leaves before the first snowfall. See a copy of this mailer and a breakdown of the number of households targeted in each community in Appendix C.

G. EVENTS

1. General Public Events

In 2021, Respect Our Waters tabled at multiple regional and community events. While the ability of the program to attend as many events as previous years was impacted by the pandemic, staff were able to increase the number of events attended over the number of events tabled in 2020. A new check-out system was also created for MS4 staff and partners to reserve tabling items. See a list of events attended in 2021 below and more information about reach, topics covered, and more in Appendix D.

2. Professional Event

On December 7, 2021, Sweet Water hosted the Clean Rivers, Clean Lake Virtual Symposium- a short, online version of the annual Clean Rivers, Clean Lake Conference. Presentations at this event covered two permit topics- Green Infrastructure Barrier Removal and DPW Facilities BMPs. Presentations and presenters included:

- **Overview of Green Infrastructure Barrier Removal**: Pam Ritger, Milwaukee Program Director & Staff Attorney, Clean Wisconsin
- Current Happenings: Code & Ordinance Updates for Green Infrastructure: Juli Beth Hinds, AICP, Principal, Birchline Planning, LLC

- Green Infrastructure in City Planning and Zoning: Kyle Gast, Senior Planner-Architectural Design, City of Milwaukee
- **GI Code Amendments: City of Green Bay**: Melissa Schmitz, CEM, LEED GA, Resiliency Coordinator, City of Green Bay
- Stormwater Pollution Prevention in Public Works Yards + Facilities: Samantha Katt, Storm Water Specialist, Wisconsin Department of Natural Resources

See Appendix E for more information about this event. Members of Village staff who attended this event included:

• Ben High, Stormwater Engineering Consultant

Adopt Your Drain Mechanisms

A. SOCIAL MEDIA

The Respect Our Waters Facebook page is simultaneously used to directly reach the general public of southeastern Wisconsin municipalities and counties and as a depository of posts for West Milwaukee and other partners to share directly to their residents. The following posts were published in 2021 to promote the Adopt Your Drain program:

Adopt Your Drain Social Media Posts					
Date	Sub-Topic	Link Number	Reach	Engagements	
4/23	Volunteering	4448695735157766	552	59	
5/26	Nutrient Pollution Prevention	4549565905070748	950	19	
10/13	Leaf Management	4971158012911533	56	1	
11/1	KGMB Partnership	5032196070141060	50	5	

Table 2: 2021 Social Media Metrics

Additionally, an Adopt Your Drain Facebook group was developed to engage volunteers once they have joined the program.

B. NEWS ARTICLES

Sweet Water staff submitted an article to Milwaukee Neighborhood News Service to promote the Adopt Your Drain program. This article was published December of 2021 and is available at https://milwaukeenns.org/2021/12/16/post-from-community-adopt-your-drain-and-keep-milwa ukee-streets-sidewalks-and-water-safe-this-winter/

C. ADOPT YOUR DRAIN DASHBOARD

The Adopt Your Drain Dashboard encourages adopters to report metrics from their drain clean-ups. An proto-type online dashboard was developed and made available on

<u>www.respectourwaters.org/adoptastorm-drain</u> for adopters to report the amount and types of debris that they were finding in their storm drains.

D. QUARTERLY VOLUNTEER NEWSLETTER

A new Adopt Your Drain volunteer newsletter was also established in Q4 of 2021 to encourage the submission of these Dashboard reports and continued involvement in the program. Of the 106 recipients, there were at least 46 email opens. See this newsletter in Appendix F.

Appendix A: Outreach Templates and Reports



INSTRUCTIONS

- Copy text from either the Long or Short Template
- Paste text and municipal into into a newsletter, social media, or on a webpage
- Include pictures if appropriate (the fiver below works woll for this)
- 4. Send to target audience / the public
- 5. Fill out reporting form at https://bit.ly/track-21

Recommended: Post links & resources included below on municipal stormwater webpage. Directly share the Watershed Wednesday post through the community Facebook page.

Short-Form Template

Appropriate for social media posts

Keep [MUNICIPALITY] sale by preventing stormwater pollution. Don't allow hazardous materials such as paint, vehicle fluids, fertilizers, and other wastes to drain into our local lakes and rivers.

You can learn how to identify and prevent illicit discharges such as these, as well as where to locally drop off household hazardous wastes, at the following link: www.respectourwaters.org/filicit-dischargesswwf

Long-Form Template

Appropriate for websites & newsletters

Keep [MUNICIPALITY] safe by preventing stormwater pollution and illicit discharges. An illicit discharge is a substance other than stormwater that is released to a storm drain, storm server, or other drainage system that directs to a take or river. These substances are considered "illicit", or banned, because they are hazardous to our water resources.

Examples of illicit discharges can include sanitary waste water, effluent from septic tanks, lawn fertilizers, vehicle fluids, paints, concrete, and other hazardous westes.

You can learn more about Ilicit discharges, how to identify and prevent thom, and how to properly dispose of hazerdous wastes at www.respectourwaters.org/filicitdischarges-servit

Think that you've identified an illicit discharge in our community? Call us at [HOTLINE #].

More Respect Our Waters Resources to Share

Illicit Discharge Web Page: www.respectourwaters.org/licit-discharges-owet Illicit Discharge YouTube Video: www.youtube.com/watch?veH85THEyKew Illicit Discharge Watershed Wednesday FB Post #1: www.facebook.com/RespectOur/Vaters/posts/4403007091640030 Illicit Discharge Watershed Wednesday FB Post #2: www.facebook.com/RespectOur/Vaters/posts/4527312137296125 Download the flyer to the left at the following link: AMENDED: https://www.swwtwater.org/request-support











- Copy text from either the Long or Short Template
- Paste text and municipal info into a newsletter, social media, or on a webpage
- Include pictures if appropriate (the flyer below works woll for this)
- 4. Send to target audience / the public
- 5. Fill out reporting form at https://bit.ly/track-21

Recommended: Post links & resources included below on municipal stormwater webpage. Directly share the Watershed Wednesday post through the community Facebook page.

Short-Form Template

Appropriate for social media posts

Help prevent stormwater pollution and flooding in [MUNICIPALITY] by capturing rainwater in your own yasd. Directing your downspout into a rain barsel or rain garden is a great way to make the most of the precipitation we get?

How do you prevent stormwater runoff in your lawn or garden? There are many ways to be a good steward of our water resources- visit www.respectourwaters.org/facts-al-home to learn moreft

More ROW Resources to Share

Rain Barrel & Garden Watershed Wed FB Posts: www.lacebook.com/Resource/Watershooks/d88108801210444 www.lacebook.com/Resource/OutVisters/souts/d88181916542479 Rain Barrel & Garden Web Pages:

www.respectourwaters.org/add-a-rain-cardien-swort

www.respectourwaters.org/tain-banels-make-a-difference-switt

Rain Barrel YouTube Video: www.youtube.com/watch?vsFcnTgs5476582628 Download the flyers to the right at the following link:

AMENDED: https://www.swwtwater.org/request-support

Long-Form Template

Appropriate for websites & newsletters

Whether we have a dry or wet August in [MUNICIPALITY] this year, make the most of the rain we get and prevent it from becoming stomwater pollution.

You can start making changes at your downspout. If the spout drains to a paved area, direct it to a vegetated area. One of your best options is a rain garden!

In a rain garden, soil amendments ensure that the soil allows enough water to drain to groundwater while still holding onto enough moisture and nutrients to sustain plants. Native plants also help with infitration and are hardy in times of drought.

You can also prevent runoff by attaching your downspout to a rain barrel. During dry weather, rain barrels provide a sustainable source of water to use on lawns & gardens!

There are many other ways to prevent stormwater runoff from your own yard. Visit www.respectourwaters.org/facts-athome to find more ways to take care of our local water resources! [If the community has any incentive programs for rain berrete/gardens, include here.]







A UGUST 2021 *Outreach Calendar ESPECT OUR WATERS Inportant Dates & Opportunities* 4) Acquar 10th Smert Setting for Wilcods Virtual Workshop – A Wiscorsin Set Wise Event *Ingister at worke statistics com* • May it rudges. It is a permit requirement to educate your staff and contractors on proper winter coad *runs contractors*

- · Cost Free
- M34 Minimum Control Measure: Stornwater Polytion Prevention
- Note: Register, anend event, record who goes, include it in your MS4 report.

B) AMENDED: SEPTEMBER 1.9*-15th: StormCon

Pegister at www.stormcon.com/storm/begin

- <u>Why it matters</u>, Multi day conference that covers a veriety of stormwater topics such as: Green
 indestructure best practices, emerging issues, innovative strategies, etc.
- <u>Cont</u> +5450
- MS4 Minimum Control Measure: Multiple control measures will be discussed.
- Note: Register, attend event, record who goes, include it in your MSI report.
- Agenda: https://www.sitemcon.com/sitem/program

C) August 4th, 11th, 18th& 25th: Watersted Wednesday - Respect Our Waters Social Media Campaign

- Find posts and share on municipal pages at www.facebook.com/RespectOurlivaters
 - Every Wednesday, Sweet Water sends out social media posts on various stormwater pollution topics
 - Share posts through your municipal account, recording reach to include in your MS4 report.

Don't forget to FILL OUT THE REPORTING FORM at https://bil.ly/track-21 if you participate in any of these activities!

2021 Respect Our Waters Campaign Updates

Sweet Water Task	Status	Municipal Task
Develop outreach templates for all priority topics"	2/8 Completed	Use the August Outreach Templates in social media, newsletters, or other outreach
Develop webplages covering topics IV, V, & Vi*	Bets Webpages Available	No Current Task
Develop flyers covering topics IV, V, & VI*	PDFs in Development	No Current Task
Implement a Broadcasted/Streaming/Digital Campaign covering topics U.II, & III*	Developing Media RFP	No Task
Make 2 FB posts about each <u>priority</u> topic with residential audience (I, II, & IB)* &1 FB post about other permit topics with residential audience on 'Watershed Wech-esdays'	10 Watershed Wednesday Posts Completed	Share Watershed Wednesday Posts via Facebook If MS4 has an account

"2021 FOW Priority Topics: (I) If of Discharges (II) Yard Care (III) Diso of Residential Of (IV) Poliution Prevention - Law/Garden Commercial (IV) Construction/Post-Construction SW Management - DMP Inspection/Maintenance (IV) GULew Impact Development





Outreach Template #1

INSTRUCTIONS

- 1) Copy text from either the Long or Short Template
- Paste text and municipal info into a newsletter, social media post, or on a webpage
- Include pictures if appropriate (the graphic below works well for this)
- 4) Send to target audience / the public
- 5) Fill out reporting form at https://billyfrack-21

Recommended: Post links & resources included below on municipal stormwater webpage. Directly share the Watershed Wednesday post through the community Facebook page.

Short-Form Template

Appropriate for social media posta

As fall approaches, use yard care techniques that keep lawns green- not lakes! Take a soil test before fertilizing to find the proper amount and kind to use. Also consider using grass clippings as a 'natural' fertilize- by leaving the cuttings on the lawn, you're allowing the nutrients to fertilize the plants and not [Local Water Body].

Remember, when nutrients run off of lawns, they can cause algae blooms. Learn more about preventing stormwater pollution from your own back yard at https://bit.lw/yard-care.

Long-Form Template

Appropriate for websites & newsletters

As we move from summer to fail, many [Municipality] residents will start proparing their lawns and gardons for winter. Consider how these preparations affect [Local Water Body]. Phosphorus and other nutrients that come from lawn care practices can lead to algae blooms that are detrimental to this local amenity?

If you're planning to fertilize your lawn, take a soil test first to find the amount and type that you need. Extra fertilizer can run off or erode away with bare soil, so make sure to apply during dry periods and only when and where needed.

Consider leaving grass clippings on the lawn as an alternative to chemical fertilizer. Mowing your leave high and often makes it easier for the grass to capture the clippings and for the soil to absorb the nutrients. This also keeps the clippings from becoming a source of nutrient pollution!

You can help [Municipality] keep our lawns green- not our lakes! Learn more at https://cit.hu/varc-care.

More Respect Our Waters Resources to Share Yard Care Web Page: www.respectourwaters.cm/what-

to-to-with-fertilizer-served

Fertilizer YouTube Video:

https://youtu.be/CSAKMU8MogE

Yard Waste YouTube Video:

https://youtu.be/vFgZFP6KI0Y

Fertilizer Watershed Wednesday FB Posts:

Download the flyer or the graphic to the right at the following link: www.swwtwoler.org/mcuest-support



CEPTEMBER 2021



Outreach Template #2

INSTRUCTIONS

- 1) Copy text from the Long Template
- 2) Paste text and municipal info into a local business email blast or webpage
- 3) Send to target audience
- Fill out reporting form at <u>https://billyfrack-21</u>

Recommended: Post links & resources included below on municipal stormwater webpage.

Long-Form Template Appropriate for websites & newsletters

Turf Management and Landscaping industries are an important part of [Municipality]. Not only do your products, services, and expertise help our community to enjoy the outdoors, but they can also be important tools for preventing stormwater pollution.

It is important to use proper management practices so that products associated with these services do not become sources of stormwater pollution. Mishandled fertilizers, soils, organic debris, or other materials can be washed into local waterways if they are spilled, stored, or disposed of in improper locations. Employees should be trained on proper storage protocols as well as protocols that protect themselves, customers, and waterways from spilled potentially hazardous materials.

To review important resources for ensuring that your services do not lead to stormwater pollution, visit www.respectourwaters.org/turl-management-landscaping. You can also find education resources for your clients at visit www.respectourwaters.org/facts-st-home to inform them of proper maintenance practices for the landscapes that you help them design, build, or maintain.

More Respect Our Waters Resources to Share

Turf Management & Landscaping Web Paget www.respectourwaters.org/turl-management-landscaping

Suggestions for [Local Water Body] Template Insert

Municipality	Water Body	Municipality	WaterBody
Baysice	Lake Michigan	Mequan	Milwaukee RivertLake Milongan
Broakleid (City)	Menomonee River	Minimumee (City)	Lake Michigan
Drown Deer	Mitanakon River	Miwaukee (County)	Lake Michigan
Butler	Menomonee River	Ozaukee (Court))	Lake Michigan
Cederburg (City)	Milutative River	EverHes	Milwaukee River
Ceclarburg (Town)	Mitoastere River	Shorewood	Mitwaukee RiverStake Michigan
Culaty	Lake Michigan	Singer (Vilage)	Milwauhee RiverRubition River
EmiGrove	Manomoniae River	South Milwaukee	Lake Michigan
Fax Point	Lake Michigan	D. Francia	Lake Michigan
Germantown (Mlage)	Menomonee River	Thiongvillo	Mitwaukoe Rivar
Grendelle (Ob)	Milvashice River	Washington (County)	Milwaukce River
Gration (Milloor)	Milwhole River	Wauwatosa	Menomonee River
Greenfeld	Rock Reenfelencerconee River	West Alls	Menomonee River/Ghnickinnic River
Menomonee Fails	Menomonae River	West Bend (City)	Milwaukee River
CTOBER 2021



Outreach Template

INSTRUCTIONS

- 1) Copy text from the Long or Short Template
- Paste text and municipal info into a social media post, newsletter, or on a webpage
- Include pictures if appropriate (the graphic below works well for this)
- 4) Send to Target Audience / the public
- 5) Fill out reporting form: https://bit.lp/track-21

Recommended: Post links & resources included below on municipal stormwater webpage. Directly share the Watershed Wednesday post through the community Facebook page.

Short-Form Template

Appropriate for social media posts

Want to make dealing with your autumn leaves easy this year, but don't know where to start? Visit https://bit.ly/manage-leaves to make a plan for disposing your leaves in a way that prevents stormwater pollution!

When left on paved surfaces, leaves can brev a "Phosphorus Tea" – leading to scummy rivers and lakes. [Municipality] is committed to preserving our natural amenities- learn how we help you to dispose of your leaves at [Link].

Long-Form Template Appropriate for websites & newslettere

It's that time of year again! While appreciating the fall colors, make a plan for dealing with those leaves once they drop. Here's a step-by-step guide for making your plan:

- 1) Check out our [Yard Waste Drop Off Center/Leaf Collection] schedule & procedures! [Link]
- 2) Check the forecast in the days leading up to your [collection date/chosen drop off date]. Especially if it might rain before that date, try to take any leaves off the street beforehand to make sure they don't contribute to stormwater pollution.
- Rake and [beg/pile/contain] the leaves for disposal.

Leaves left on paved surfaces can lead to "Phosphorus Tea", a nutrient-rich liquid brewed from stormwater and leaves, which can lead to scurmry lakes and rivers. Our DPW crew works hard in the autumn to deal with leaves so that they can't pollute our water!

In addition to following our [drop of/collection policies], there are ways you can help us with this effort! Consider mulching your leaves- chopping them up or running them over with your leven mover- and putting the debris around your trees and gardens for the winter. Numents in the leaves can then return to the soil and plants instead of waterbodies.

For more ideas on how to prevent stormwater pollution, visit https://bit.lo/manage-loaves/

More ROW Resources to Share Leaf Management Watershed Wed FB Posts: Not yet posted in Inte September check man factors com Respect OutWaters? Leaf Management Web Page: http://www.respector.netword.org/cod-b-out-of-the-water-power Download the flyen/graphics to the right at the following link: www.september.org/tecutet-succed



SEPTEMBER/OCTOBER 2021 Outreach Calendar



RESPECT OUR WATERS

Important Dates & Opportunities

Potential MS4 Stati/Contractor Education Opportunities AND Respect Our Waters Activity Dates

Sept. 14, 84, 154, 224, 294: Welershed Wedweeley - Respect Our Waters Social Media Campaign

- Find pasts and share on municipal pages at www.lacebook.com/RespectCurWitters
- Every Wednesday, Sweet Water sends out social media posts on various stormwater pollution topics
- Share posts through your municipal account, recording reach to include in your MS4 report.

Sept. 15th & Mith: Smart Salting for WI Roads Virtual Workshop and Smart Salting for Parking Lots &

Side Walks Virtual Workshop - Milwaukee Riverkeeper Events

Register al www.minesukeamerkeaper.org/3.nov-ice-control-workshap/

- Why it matters: It is a permit requirement to educate staff & contractors on proper winter road management.
- Cost: Free
- ME4 Minimum Control Measure: Stormwater Pollution Prevention

Sept. 13%-15th: StormCon

Register at www.stormcon.com/sacm/begin

- Why it matters: Multi-day conference that covers stormwater topics such as GL BMPs, emerging issues, etc.
- Cost: +\$450
- MS4 Minimum Control Measure: Multiple control measures will be discussed.

Sept. 234: Rice Lake Field Event BMP & Product Demos for Erosion Control & Stormwater Management

Register at Mips./hasecami.org/events/haining/tice/ake-2021/feld-event/

- Wity it matters: It is a permit requirement to educate staff & contractors on proper BMP management & design-learn from experienced professionals & view product testing under a variety of control measures.
- Cost: \$195
- MS4 Minimum Control Measure: Stormwater Pollution Prevention / Public Education: Construction/Post-Construction BMPs

Oct. 5*: Waskesha Salt Wise Equipment Open House

Register at www.wisaitwise.com/Event/Home/Detail/10/N

- Withy it matters: It is a permit requirement to educate staff & contractors on proper winter road management.
- Cost: Free
- MS4 Minimum Control Mozourg: Stormwater Pollution Prevention

Oct. 20* – 21*: UWM Continuing Ed Course: Wisconsin Sedimentation & Erosion Control Inspector (WISEC) Best Management Practices

Register at https://www.edu/toe/courses/elaconativ-and/mentation-entrativ-control-inspector-elancian-beatmanagement/practices/

- Withy it matters; it is a permit requirement to educate staff & contractors on proper BMP inspection & management
- Cost. +8 395
- MS4 Minimum Control Measure: Stormwater Pollution Prevention / Public Education: Construction/Post-Construction BMPs

Don't forget to fill out the reporting form at https://bit.ly/track-21 if you participate in any of these activities!

2021 Respect Our Waters Campaign Updates

Sweet Water Task	Status	Municipal Task
Develop outreach templates for all priority topics"	4/5 Completed	Use the September Outreach Templates in social media, newsletters, or other outreach
Develop webplages covering topics IV, V, & V/*	Webplages Available	No Current Task
Develop flyers covering topics IV, V, & VP	PDFs in Development	No Current Task
Implement a Broadcasted/Streaming/Digital Campaign covering topics U.II, & III*	Media Partnership Pending	No Task
Make 2 FB posts about each priority topic with residential audience (I, II, & IB)* &1 FB post about other permit topics with residential audience on 'Watershed Wechesdays'	10 Wetershed Wednesday Posts Completed	Share Waterahed Wednesday Posts via Facebook if MS4 has an account

*2021 ROW Priority Topics: (I) Higt Discharges (II) Yard Care (III) Use of Residential Gl (IV) Polistion Prevention – Lawr/Garden Commercial (V) Construction/Post-Construction SW Management - EMP Inspectors/Maintenance (VI) G18.ou Impact Development

ECEMBER 2021



Outreach Template

INSTRUCTIONS

- 1) Copy text from either Template
- Paste text and municipal into into a newsletter, social media post, or on a webpage
- Include pictures if appropriate (the graphic below works well for this)
- 4) Send to target audience / the public
- Fill out reporting form at https://bit.ly/tracke21

Recommended: Post links & resources included below on municipal stormwater webpage. Directly share the Watershed Wednesday post through the community Facebook page.

Short-Form Template

Appropriate for social media posts

With winter just around the corner, residents of [municipality] need to prepare for the long and cold months ahead. Part of that preparation includes readying your property for winter stormwater management.

Check out the picture for examples of ways to prepare your property for thowing and re-freezing snow. Visit www.respectour.waters.org/preparingfor-winter to learn more.

Long-Form Template

Appropriate for websites & newsletters With winter just around the corner, residents of [municipality] need to prepare for the long and cold months ahead. Part of that preparation includes readying your property for winter stormwater management.

 Clear the gutters along your roof. Leaves or other debris can contribute to nutrient pollution as well as cause overflow, which could lead to dangerous licicles.

 Disconnect rain barrels from your downspouts, empty them, and cover and store them for the winter.

 Direct your downspout to an area where water won't flood and fraezo. Downspouts directed to a rain garden can stay like this through the winter.

 Add mulch to planted areas to insulate and protect their roots.

 Remove excess leaves from rain gardens, storm drains, and ditches so they can drain.

 Some trees and shrubs should be pruned in the winter to avoid fungal infections. Grasses, on the other hand, should be left standing.

 While min gardens will function to an extent in the winter, don't pile snow in the beds, especially snow from a driveway or walkway that was safed.

Providing winter maintenance on residential landscaping ensures it can manage another rainy spring. Visit www.respectourwaters.org/preparingfor-winter to learn more.



Ice and Snow Control Web Page:

https://www.respectourwaters.org/ice-and-snow-control-swet Download the flyer or the graphic to the right at the following link: www.swetwater.org/equest-support



Date	Name	Mechanism / Activity	Торіс	Target Audience	Metrics	Respect Our Waters resource used?	Description
9/20/21	Kayla Fitzgerald, Administrative Assistant	Municipal / County Educational Webpage	Yard Waste Management / Pesticide & Fertilizer Application / Lawn Care, Pollution Prevention Activities for Commercial / Technical Audiences	West Milwaukee residents and businesses	Webpage visits.	Respect Our Waters Template	I used the September 2021 Long Form Outreach Template for our municipal webpage.
12/8/21	Kim Egan	Mailer / Distribution of Print Materials	Snow and Ice Control	All businesses and residents will receive the flyer with their tax bill.	Mailed 1100 letters to residents and businesses.	Respect Our Waters Template	We are attaching a flyer regarding snow and ice control to the tax bills mailed in December

Appendix B. Examples of Graphics + Flyers Developed in 2021

New Illicit Discharge Graphics and Flyers



New Yard Waste + Yard Care Graphics





Appendix C. Mailer

Zip Code	Number of Post Cards
53005	416
53007	416
53012	416
53022	416
53204	416
53051	416
53092	417
53110	417
53122	417
53209	417
53211	417
53214	417
53215	417
53220	417
53226	417
53235	417
53086	208
53217	626



Appendix D. 2021 Events

Event	Date	Topics Covered	Materials Provided	Metrics	Other Details
Corners of Brookfield Summer Tabling	April 26 May 10 May 24 June 7 June 21 June 28	 Illicit Discharge Detection & Elimination Residential Pollution Prevention Yard Waste Management / Pesticide & Fertilizer Application / Lawn Care Residential Infiltration 	 Simple Solutions Brochure Fall To Do List Adopt Your Drain Door Hanger Lawn Care Brochure Native Plant Care Brochure Tree Care Tips to Prevent Stormwater Pollution Bookmark 		Enviroscape Table at June 28th event
Washington County Fair	July 20 - 25	 Illicit Discharge Detection & Elimination Residential Pollution Prevention Yard Waste Management / Pesticide & Fertilizer Application / Lawn Care Residential Infiltration Salt Reduction Strategies 	 General Stormwater Education Brochure Culvert Maintenance Brochure Pet Waste Management Flyers Vehicle Maintenance Flyers City of Hartford Services Brochures Village of Jackson Services Brochures Village of Richfield Services Brochures Village of Slinger Services Brochures Town of West Bend Brochures Stormwater Basin Management Brochures 	1270 Visitors to Booth	See Washington County Fair Report for more information
Fox Point Open House	Aug 21	 Illicit Discharge Detection & Elimination Residential Pollution Prevention Yard Waste Management / Pesticide & Fertilizer Application / Lawn Care Residential Infiltration Green Infrastructure / Low Impact Development 	 Simple Solutions Brochure Fall To Do List Adopt Your Drain Door Hanger Lawn Care Brochure Native Plant Care Brochure Tree Care Tips to Prevent Stormwater Pollution Bookmark Village of Fox Point Protects the Menomonee River Brochure 	40 Materials Taken	MMSD Fox Point Garden Club

Tosa Green Summit	Sept 11	 Illicit Discharge Detection & Elimination Residential Pollution Prevention Yard Waste Management / Pesticide & Fertilizer Application / Lawn Care Residential Infiltration Green Infrastructure / Low Impact Development 	 Simple Solutions Brochure Fall To Do List Adopt Your Drain Door Hanger Lawn Care Brochure Native Plant Care Brochure Tree Care Tips to Prevent Stormwater Pollution Bookmark City of Wauwatosa Protects the Menomonee River Brochure 	44 Materials Taken Estimated 100 Event Attendees	 Green Neighbor Wauwatosa Wauwatosa DPW Storm GUARDen Sierra Club - Great Waters Group Compost Crusaders
Harborfest	Sept 19	 Illicit Discharge Detection & Elimination Residential Pollution Prevention Yard Waste Management / Pesticide & Fertilizer Application / Lawn Care Residential Infiltration 	 Simple Solutions Brochure Fall To Do List Adopt Your Drain Door Hanger Lawn Care Brochure Native Plant Care Brochure Tree Care Tips to Prevent Stormwater Pollution Bookmark 	91 Materials Taken	
Shorewood Fish + Feather Festival	Oct 2	 Illicit Discharge Detection & Elimination Residential Pollution Prevention Yard Waste Management / Pesticide & Fertilizer Application / Lawn Care Residential Infiltration Green Infrastructure / Low Impact Development 	 Simple Solutions Brochure Fall To Do List Adopt Your Drain Door Hanger Lawn Care Brochure Native Plant Care Brochure Tree Care Tips to Prevent Stormwater Pollution Bookmark 	31 Materials Taken	 MMSD Storm GUARDen Shorewood Waters

Appendix F. Adopt Your Drain Newsletter

Adopt Your Drain Quarterly Newsletter - First Edition: Fall 2021

1 message

Adopt Your Brain ramericatos @swetwater.org-Raphy-To: into@servfauter.org Thu, Nov 18, 2021 at 2:30 PM



Learn More Here!

Program and Partner Updates



BIG Clean MKE

Our friends at Keep Greater Miwaukee Beautiful just finished an amazing season of promoting sustainability and healthier neighborhoods through community dean ups. To learn more, click below

Click here!



Adopt Your Drain Dashboard

We just released an Adopt Your Drain Live Dashboard! Submit your inspection reports here and see the cumulative impact of our volunteers!





? drains were adopted ? was the primary this quarter!

debris found this quarter!

? Ibs of debris were namoved this quarter!

Our Dashboard is brand new! To get started, remember to report your findings after every chain inspection so we can track our progress logetherf



Join our Adopter Facebook Group

Follow the link below to visit the Adapt Your Drain Volunteer Group Facebook page and interact with fellow stormwater stewards?

- 1. Click "Join" and anwser the group questions.
- 2. Once your responses are verified, you will be admitted into the group.
- 3. Connect, collaborate, and discuss. everything storm drain related with like minded individuals!



Thank you for your commitment to protect and reatore water quality in aoutheastern Wisconain! Every dhain counts?

Southeastern Wessenin Watersheds Trunc Inc. 600 E Greenfield Are Milwaukee, 10 53256 info@respectoureaters.prg





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2021 Clean Rivers, Clean Lake Virtual Symposium Agenda

Tuesday, December 7, 2021 8:30 am - 11:00 am

WELCOME & HOUSEKEEPING | 8:30 - 8:45

Kristin Schoenecker, Watershed Coordination Manager, Sweet Water

Jacob Fincher, Executive Director, Sweet Water

GREEN INFRASTRUCTURE BARRIER REMOVAL IN CODES + ORDINANCES PRESENTATIONS & PANEL DISCUSSION | 8:45 - 10:00

Pam Ritger, Milwaukee Program Director & Staff Attorney, Clean Wisconsin

Juli Beth Hinds, AICP, Principal, Birchline Planning, LLC

Kyle Gast, Senior Planner-Architectural Design, City of Milwaukee

Melissa Schmitz, CEM, LEED GA, Resiliency Coordinator, City of Green Bay

BREAK | 10:00 - 10:05

STORMWATER POLLUTION PREVENTION IN PUBLIC WORKS YARDS + FACILITIES PRESENTATION | 10:05 - 10:50

Samantha Katt, Storm Water Specialist, Wisconsin Department of Natural Resources

WRAP UP | 10:50 - 11:00

Kristin Schoenecker, Watershed Coordination Manager, Sweet Water



LOOK AT ALL THAT CODE

JUST FULL OF OPPORTUNITIEST

What hasn't been done, but could, to facilitate more use of G/?

Within Codes:

- · Comprehensive zoning updates underway in more communities are ideal timos to address landscaping, tree planting, subdivisions, and review process.
- "Bacteria-reduction strategies can help with TMDLs
- Outside Codes:
 - Grants, fee incentives to build. more GI
- Coordinating soning & orginoering review processes
 - Mapping & outreach





Internet A pairs

City of Madison: Zoning Code Issues



IT'S 2021.

What's been done to "remove barriers"?

 ALI MMSD service area municipalities have had a full code audit () since 2013 Very few instances of specific

- written barriers MANY more stealthy problems.
- most in the purview of planners: Excessive parking required.
 - Landscape standards conflict with GI
 - Poorly written or conflicting
 - definitions of GI SILENCE

DEFINITION OF

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I GOLDS FOR RANDATING TOWN

People are still a major barrier

- Continue to have skepticism or outright objections among staff to GI
- Code updates have not been a priority for some places especially if "we can do it by exception*
- "No one will maintain it" so. unless required by MMSD, who advocates for GI?



Code change or zoning update process

- Changing zoning in particular requires significant staff time, potential attorney costs
- "Best outcomes when internal departments coordinate changes & Plan Commission is engaged
- Inonically, Gil-friendly changes are business-friendly:
 - · Modernizing parking, design standards
 - Easier to comply with stormwater requirements if landscape 'counts' for volume management

CAN'T COUNT SOCRETINTION



AS RECEIPTION AND CAPTURE

Biggest opportunity in zoning integrating biaretention & standards for tree/landscape health

- Milwaukee, Madison, Franklin, Green Bay tackling this challenge
- Revising regulations to "count" bioretention

code

towards landscape points • Trees need SOIL VOLUME for health & canopy growth - that can be written into



Sector Sector



Landscape Points: Example

(Accession in the local days)		WOLD LINES.	are successive and		
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Another key principle for zoning changes: S P A C E

- Larger planting inlands i better plantiture survival, growth & familian
- Larger stat.gtax/buffer reduces/impect or server shows to that
- * Deep rested and mescable preservates
- sufficient addressatures autores benefits without mentioneres headsches a Transange + tale genieres - ment
- sufficient space to proved stabling • Landscape regulations ofter point towards more small blands & many more simular (marracaping (instead of beatby)

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PERMITABLE PROVING

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RHN GARDENS

Each 100 square field of an period will a task water calculation area of an asso 1.000 square feat may be indedicated for 1 free and 100 square feet of andorogood area.

BROOM HELES

Each 10 value heat (271 gebors) of the reference separaty with a two nearer californed area of all head 1.300 square heat-may be substituted by 1 two and 100 square heat of feedballood area.





AMOUNT REQUIRED

1 canopy tree and 100 square feet of landscaped area is required for every 4 parking spaces or fraction thereof.

The amount of trees and landscaped areas required may be reduced if green infrastructure features are provided.

Applicability and Retrofits



GREEN INFRACTION OF PLATURES



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Milwaukee.gov/DCD/Planning



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Why did GB embark on a GI Code Audit?

- Mayoral initiative
- Improve water quality.
- · Mitigate urban food hazards
- Increase resiliency to effects of climate change.
- Improve neighborhood gesthetics

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Key Codes Examined for Barriers to GI

- Stormwater, Chapter 30
- Test Definitions in Starmwater and Zoning codes.
- Architectural Design Standards, Zaning Code
- Ephdicaping Standards
- * Parking
- · Permeable Materials
- Pollutant Reduction.
- Natural Landscopes





Clean Rivers, Clean Lake Virtual Symposium

Samantha Katt, Stove Water Specialist

(414) 122.0078 December 7, 2021

Map

- Major Activities and Potential Sources of Storm Water Contamination
- Drainage Patterns and Discharge Points
- · Receiving Waters or Wetlands
- Practices to Reduce or Eliminate Storm Water Contamination





Map

- Major Activities and Potential Sources of Searce Water Contamination All admites are 10% (ne question Tee what is this is come?)
- **Drainage Patterns and Discharge** New X
- + Speniskbinet (09
- Receiving Maters or Metland
 Practices to Reduce or Elimin Storm Water Contamination



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Plan to Prevent Storm Water Pollution

What & Where are the potential toourcas?

What does storm water contact, where does storm water go?

How to Reduce or Eliminate?

Evaluate, Look for changes/improvements. How to Reduce or Eliminate Storm Water Pollution

· Person(s) responsible

- Maintenance and
 Inspection Procedures
- Spills Prevention and
- Response Staff Training





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Inlet Protection





Observations informing THETTP activities are not being implemented. The quarte

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Interior Drains



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Residential Disposal – Appliances/batteries/ electronics

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 Solidation









Brine Storage

Secondary Conternances (p. R. Landammert) Retract Remark (Austrian protector) Halls from Secondary

2021 CRCL Virtual Symposium Zoom Chat Resources

Tackling Barriers to Green Infrastructure: An Audit of Municipal Codes and Ordinances

- Guidebook available at <u>https://publications.Aqua.Wisc.Edu/product/tackling-barriers-</u> <u>to-green-infrastructure-an-audit-of-municipal-codes-and-</u> <u>ordinances/</u>
- Guidebook and other resources such as GI practice standards from WDNR available at <u>https://www.Seagrant.Wisc.Edu/our-work/focus-</u> areas/coastal-communities/green-infrastructure/policy/

Milwaukee Landscape Guide available at https://www.milwaukee.gov/ImageLibrary/Groups/cityDCD/pla nning/zoning/MilwaukeeLandscapeGuide.pdf

Door County Conservation Subdivision Ordinance available at https://www.co.door.wi.gov/DocumentCenter/View/1435/Chap. ter06

EPA's Tools & Resources for Sustainable Communities: Codes, Ordinances, and Land Development Regulations available at

https://19january2017snapshot.epa.gov/smartgrowth/tools-andresources-sustainable-communities_.html#codes

More information about Smart Code available at https://smartcodecentral.com/

THANK YOU TO EVERYONE WHO SHARED RESOURCES AND INFORMATION IN THE ZOOM CHAT!



2021 CRCL Virtual Symposium Presenter Contacts

Pamela Ritger, Milwaukee Program Director + Staff Attorney, Clean Wisconsin

- Email: pritger@cleanwisconsin.org
- Presentation: Updating Codes and Ordinances to Enable Green Infrastructure and Improve Water Quality

Juli Beth Hinds, Principal, Birchline Planning LLC

- Email: birchineplanninglc@gmail.com
- Phone: (802) 324-5760
- Presentation: Current Happenings: Code & Ordinance Updates for Green Infrastructure

Melissa Schmitz, Resiliency Coordinator, City of Green Bay

- Email: Melissa.Schmitz@greenbaywi.gov.
- Phone: (920) 448-3040
- Presentation: GI Code Amendments: Green Bay

Kyle Gast, Senior Planner- Architectural Design, City of Milwaukee

- Email: kgast@Milwaukee.gov
- Presentation: Green Infrastructure in City Planning and Zoning

Samantha Katt, Storm Water Specialist, Wisconsin Department of Natural Resources

- Email: Samantha.katt@Wisconsin.gov
- Phone: (414) 522-0073
- Presentation: Storm Water Pollution Prevention Planning DPW Facilities + Yards

THANK YOU TO OUR FANTASTIC PRESENTERS!



Storm Water Education Needs in the Village of West Milwaukee

Each MS4 in the Menomonee River Watershed Permit (WI-S065404-2) must implement an individual education and outreach program designed to achieve measurable goals based on target audiences, specific storm water quality issues in the community, or identified pollutants of concern.

By September 30, 2021, each MS4 must have evaluated the Storm Water Education Needs of their individual community. The Village of West Milwaukee elected to partner with Southeastern Wisconsin Watersheds Trust, Inc. (Sweet Water) to identify these needs. Sweet Water is a natural partner for this procedure, as the organization for nearly a decade has implemented a public education program that assists the Village of West Milwaukee with MS4 requirements. This partnership capitalized on this experience, the knowledge of municipal staff, and the strength of community planning documents to develop a strong set of prioritized community stormwater education needs.

Methods

1) Comprehensive Plan Review

Sweet Water reviewed the Village of West Milwaukee's Comprehensive Plan. According to the Wisconsin Department of Administration, "a comprehensive plan is a local government's guide to community physical, social, and economic development." Comprehensive plans are meant to provide a rational basis for local land use decisions with a twenty-year vision for future planning and community decisions and require public participation at the local level to ensure that the vision for the community's future is supported by the public. Comprehensive Plans must include at least the following elements:

- Issues and Opportunities
- Transportation
- Agricultural, Natural and Cultural Resources
- Intergovernmental Cooperation

- •. Housing
- •. Utilities and Community Facilities
- •. Economic Development
- •. Land Use

• Implementation

Review of these plans is a rational way to identify opportunities to integrate stormwater education into community policies and projects, to address community problems that may be caused by or adjacent to stormwater quantity or quality, and to capitalize on community priorities. The twenty year vision of these plans provides a long outlook at how the community will develop, helping to prioritize more immediately what is needed within the MS4 permit's five year outlook. Additionally, because priorities of the plan are intended to reflect the priorities of the public, stormwater education that provides support to these priorities are more likely to be heeded by the public.

2) Stormwater Education Needs Worksheet

Upon reviewing the Comprehensive Plan, Sweet Water staff developed a *Worksheet to Develop Priority Education Topics in the Village of West Milwaukee*. This worksheet was designed to evaluate potential opportunities identified in the Comprehensive Plan and supplement them with other community characteristics (additional policies, projects, priorities, or problems not in the Comprehensive Plan) that were known but not yet recorded by municipal employees. This worksheet was sent to the Village of West Milwaukee on Wednesday August 25, 2021. Len Roecker, West Milwaukee's Village Engineer and raSmith consultant, and Ben High, West Milwaukee's stormwater engineering consultant from raSmith, reviewed the document and answered many of the questions internally. The Village of West Milwaukee and Sweet Water then met on Wednesday, September 1, 2021, to discuss the answers to the questions during a working meeting. Participants of this meeting included:

- Len Roecker, Village Engineer, Village of West Milwaukee/raSmith
- Kim Egan, Village Administrator, Village of West Milwaukee
- Jim Stenzel, Superintendent of Public Works, Village of West Milwaukee
- Ben High, Stormwater Engineering Consultant, raSmith
- Jake Fincher, Executive Director, Sweet Water
- Kristin Schoenecker, Watershed Coordination Manager, Sweet Water

Please see Attachment A to review the answers to this worksheet.

3) Confirmation of Stormwater Education Needs

Upon completing the *Worksheet to Develop Priority Education Topics in the Village of West Milwaukee*, Sweet Water staff synthesized facts recorded in the sheet to develop a list of needs. These needs were given a preliminary ranking based on factors included in the following table. They were then confirmed or modified by the Village of West Milwaukee.

Results

The results of the procedure to identify the Village of West Milwaukee's individual stormwater education needs are included in the following table. They include high, medium, and low priority needs, a brief description of the need, justification for the need and the ranking, and anticipated target audience, education mechanisms, and targeted pollutants.

Next Steps

An activity that meets one of the high priority needs will be completed by the next deadline pertaining to this requirement: providing education and outreach within the MS4 boundary for at least one prioritized education topic by September 30, 2023. If another activity on the list currently ranked as medium or low priority is deemed to be higher priority before September 30, 2023, the Department will be notified by the Village of West Milwaukee and that activity will supersede other high priority activities. Measurable goals to evaluate the efficacy of the activity will be decided upon before the activity is implemented as well.

A summary of the results of the education efforts and planned targeted education for the next permit term will be submitted as part of the permit application due September 30, 2024.

Prioritized Storm Water Education Needs List for the Village of West Milwaukee

Rank	Need	Justification	Target Audience	Targeted Pollutants
High	Standardized process for educating MS4 staff on stormwater pollution concern identification	Municipal staff noted that the "eyes and ears" that identify potential illicit discharges, construction erosion control permit violations, and other stormwater pollution red flags are public works staff and police officers. So far, training on noticing and reporting potential concerns while out on collection routes or patrols has been anecdotal and informal. While this has been sufficient to flag many concerns, for continuity reasons and to broaden the staff's knowledge of other potential red flags, education procedures should be standardized.	DPW staff and police force	Multiple
High	Activity to work with new commercial redevelopment opportunity to identify possible water quality improvements to implement in new development	GE has announced that it plans to invest in a new plant in West Milwaukee, purchasing an 87,000-square-foot building next to its existing plant. GE and the Village have been in conversation about the redevelopment, and GE intends to implement some form of green infrastructure on the property. Additionally, two other large commercial redevelopments are likely to occur in the Village within the next ten years. As planning moves forward, an activity to discuss potential, appropriate GI installations at the site would be appropriate. By standardizing this activity, this can be replicated at other, future redevelopment sites in the area.	GE and developers	Multiple
Low	Activity to educate landowners with new permeable pavement structures about maintenance requirements	Recently, new permeable pavement structures have been installed in the Village. The owners of these structures have maintenance agreements. Currently the structures are operating well and are being maintained on an as needed basis.	Landowners with LTMAs for new permeable pavement structures	Multiple

		As these structures age, the owners should be educated about annual inspection requirements and increased maintenance needs.		
Medium	Activity to educate landowners along 43 rd Street Ditch about its status as a stream	The 43 rd Street Ditch is the Village of West Milwaukee's only natural water feature within the bounds of the Village. It is currently inaccessible to the public, however there are plans to build a trail near it upon securing funds and an easement. It is a strong possibility that the abutting landowners (all private commercial/industrial landowners) do not recognize the 43 rd Street Ditch as a stream. Educating this audience about the 43 rd Street Ditch can help to ensure that this resource is protected and is in good condition once public access is implemented.	Commercial/ industrial properties along the 43 rd Street Ditch	Multiple
Medium	Activity to educate homeowners about rain barrels	West Milwaukee residential lot sizes are small- in certain areas lots are 40 ft wide and often too small for effective rain gardens to be installed. However, many community members have taken an interest in rain barrels as a form of stormwater capture. Because of the small lot size and demonstrated interest in rain barrels, further education on this practice would be appropriate to spur additional adoption.	West Milwaukee residents	Multiple
Low	Development of a Walmart stormwater storage success story	An innovative project at the Walmart in West Milwaukee included the installation of a stormwater storage tank below the store's parking lot. The tank is owned by the Village and collects stormwater from residential properties in the surrounding area as well. As more redevelopments are implemented in the Village on properties that are more appropriate for storage rather than infiltration stormwater management practices, success stories like this should be shared.	Developers	Multiple

Worksheet to Develop Priority Education Topics in the Village of West Milwaukee

Completed by Kristin Schoenecker, Sweet Water* on September 1, 2021

*This version of this document contains Kristin's notes (green) from the September 1st meeting. For the version of this worksheet filled out by Len Roecker, Village Engineer, and Ben High, project manager, referenced during the meeting, see the other attachment.

MS4 permittees must annually implement a stormwater education program that is guided by topics defined within MS4 permits, directed at appropriate audiences, and driven by measurable goals.

Sweet Water is helping the Village of West Milwaukee to identify residents and professionals to target with education on each of the regulated topics within the Menomonee Group Permit. After finding promising opportunities for education, Sweet Water will develop and implement activities for educating these audiences with the help of partners

Menomonee Group MS4 Permit Education Topics

- Illicit Discharge Detection & Elimination
- Hazardous Waste/Pet Waste/Vehicle Care
- Yard Waste/Pesticide & Fertilizer Application
- Stream & Shoreline Management

Residential Infiltration

The Menomonee Group must also begin to identify best practices for fecal coliform education.

WDNR has also recommended that MS4s consider other stormwater issues relevant to each MS4.

Sweet Water has already analyzed the Village 's Comprehensive plan to help guide West Milwaukee in identifying education opportunities. This worksheet asks permittees to consider the four following questions for each topic and suggested opportunity to further prioritize the methods and messages used by the 2021 Respect Our Waters campaign.

- Does the municipality have policies that the education could align with? Example: Ordinances that govern shoreline/riparian land management
- Does the municipality have **current and upcoming projects** that could be supported by education on this permit topic? Example: New development with green infrastructure element
- Does the municipality have any **community priorities** that align with this topic? *Example:* Popular community activity is gardening/landscaping
- Does the municipality have any **municipal problems** that could be partially or fully solved by education on this topic? Example: Village hall receives many complaints about algae blooms in local stormwater pond

Please answer these questions on the following pages. If you don't know the answers to some questions, you might skip some or seek insight from other municipal staff. First, please answer questions in the first section about other municipal characteristics.

- Construction & Post-Construction Site Storm Water Management
- Pollution Prevention
- Green Infrastructure/Low Impact Development
- Snow & Ice Control

Part I: The Village of West Milwaukee Characteristics **Municipal Contacts**

Please enter the name, title, and contact information of municipal staff members that Sweet Water has approval to contact directly about MS4 compliance activities.

Len Roecker	Village Engineer	(262) 317- 3383	len.roecker@rasmith.com

Consultant Contacts

Does your municipality regularly contract with an engineering consultant for stormwater						
programs? If so, who?						
raSmith	Len Roecker	Len.roecker@rasmith.com				
Minimum control measures firm is contracted to meet						

Community Groups

Does your municipality have active community groups, organizations, or committees who either already engage in environmental education activities or might be interested in pursuing this type of activity if supported? If so, who are they?

Lion's Club

Meets approximately once per month. Holds events for the community such as Thanksgiving and National Night Out.

Beautification Club Brief description of group

Other Characteristics

Are there any elected officials that need to be educated on any stormwater education topic so that you can receive more resources or support? Would you like Sweet Water to attend a meeting to educate these officials, or would you prefer to handle this with our support? The elected are engaged about stormwater after the first of the year, coinciding with budget meetings. They are also given the annual MS4 report to review. The electeds generally don't push back against stormwater programs.

How collaboratively do you work with other Village departments? If we wanted to involve another department in an educational project, would that be possible and would you prefer to

make the connection? (For example, could Sweet Water help you to educate the planning/zoning department so that stormwater management could become a part of the vision for the community at an earlier stage?

Part II: Identifying how education topics apply to the Village of West Milwaukee

Topic: Illicit Discharge Detection & Elimination

General Questions:

- 1) Is the Village primarily curb gutter or grassed swale?
- 2) Does the Village ever get resident complaints about illegal dumping or illicit discharges? DPW is usually called, or the Police. Good relationship between the two departments- they are both the "eyes and ears" for problems. Formalized staff training activities for this could be useful.
- 3) How should/do West Milwaukee residents contact the Village if they have identified an illicit discharge?

Usually a one & done issue if they happen. No repeat offenders- GE was flagged for chlorine once but they fixed the issue.

- 4) If/when the Village identifies illicit discharges, are there any trends in the types or sources of the discharges?
- 5) *Fecal Coliform Question:* Within the Village, are there any areas with known or suspected leaking or failing septic systems?
- 6) Does the Village already have mechanisms for educating on this topic, and if so, what are they? Are they successful as is, or could they be improved with the help of a partner?

Can you identify other ways that this topic connects to the Village of West Milwaukee?

Policy
Project
Priority
Problem
Other
No Connection/Unknown

Briefly Explain:

Difficult to trace, most of the stormwater is underground

Topic: Residential Pollution Prevention (Hazardous Waste/Pet Waste/Vehicle Care)

Connection(s) identified through plan review:

 "The Village should encourage and facilitate the creation of neighborhood associations that can empower residents to build community and improve the quality of life in West Milwaukee" -pg. 20

QUESTION: Has any progress been made on establishing neighborhood associations?

No

General Questions:

- In addition to the county drop off site, is there a location where can residents drop off household hazardous waste? How are these opportunities communicated?
 Oil & Antifreeze is collected by the Village by drop off. Calendar shows drop off times.
- Fecal Coliform Question: Does the Village of West Milwaukee ever get complaints about pet waste in any public or private properties in the Village? Not too many- usually neighbors reporting on neighbors.

- 3) *Fecal Coliform Question:* Are there areas that attract congregations of nuisance urban birds and wildlife?
- 4) Does the Village of West Milwaukee already have mechanisms for educating on this topic, and if so, what are they? Are they successful as is, or could they be improved with the help of a partner?

Can you identify other ways that this topic connects to the Village of West Milwaukee?

Policy \Box Project \Box Priority \Box Problem \Box Other \Box No Connection/Unknown \Box

Briefly Explain:

Village does block by block inspections for property maintenance. Slowed down during covid, but the schedule had been to do the whole village within five years.

Topic: Commercial Pollution Prevention

Connection(s) identified through plan review:

 "[The] Gateway District [is a] Large scale development opportunity to create a community redevelopment vision and plan to guide and advance private sector redevelopment of former industrial site to maximize proximity to Miller Park and I-94. Redevelop[ment] for commercial uses... could include hospitality and or destination related uses such as hotel, entertainment, conference center, restaurants, retail, recreation, and sports rental." -pg. 53

QUESTION: Will progress be made on redevelopment within the permit term or soon after? If so, will most redevelopment (especially in the NE corner of the District near the Menomonee River) be reuse of existing buildings and facilities or the construction of new facilities?

There is a high likelihood that it multiple redevelopments will happen within the next ten years. GE will be reinvesting in the Village, including GI implementation with other improvements. Farther out, Rexnord & Komatsu properties may be redeveloped too.

2) "Take advantage of road improvements to create more complete streets that include bike routes and a welcoming, safe pedestrian environment. Whenever possible and appropriate based on the location, incorporate aesthetic improvements such as terrace trees, pedestrian scale lighting, landscaped boulevards, stormwater management best practices, banners, benches, and upgraded bus shelters." -pg. 23

QUESTION: Will local businesses/industries near transportation corridors undergoing improvement be encouraged or incentivized to do improvements on private properties?

There is annual tree planning (85-90 trees/yr) in public property/right of ways.

 "Consider establishing a Business Improvement District (BID) along National Avenue Chapter 7 2021 – 2025" -pg. 65

QUESTION: Has any progress been made on establishing a BID, or are there other BIDs active in West Milwaukee?

Developed as residential now

General Questions:

- 1) Are there any service providers, businesses, or sectors in the Village of West Milwaukee that you know have issues with pollution prevention? (Fecal Coliform Perspective: especially consider businesses that deal with pets or animals, waste hauling or storage, compost sites, and if there are any properties that might have inadequate food or organic waste storage)
- 2) If we decided on a type of business to prioritize with education, would you be able to provide us with a list of addresses and names of those businesses in your community (for example, garden centers, laundromats, or construction contractors)? If so, could you first provide us with a list of all the garden centers and landscaping companies in your community?
- 3) *Fecal Coliform Question:* Does the Village of West Milwaukee have any livestock or domesticated animals housed or raised within the MS4 permitted area?
- 4) Does the Village of West Milwaukee already have mechanisms for educating on this topic, and if so, what are they? Are they successful as is, or could Sweet Water help improve them?

Can you identify other ways that this topic connects to the Village of West Milwaukee?

Policy
Project
Priority
Problem
Other
No Connection/Unknown

Briefly Explain:

There are maintenance agreements for new permeable pavement systems.

Infiltration isn't always practical due to the industrial past.

Topic: Yard Waste/Pesticide & Fertilizer Application

Connection(s) identified through plan review:

1) "Yard waste removal services are also offered on scheduled days of the month between April and November, in addition to yard waste drop off at the Department of Public Works facility at 4517 West Burnham Street." -pg. 7.2

QUESTION: How are residents informed of this program? Do they take advantage of it, or are there any issues of blowing yard waste into the street?

General Questions:

- 1) Does the Village of West Milwaukee have a group that is already working on a pesticidefree lawns initiative, such as a garden club?
- 2) Does the Village of West Milwaukee already have mechanisms for educating on this topic, and if so, what are they? Are they successful as is, or could Sweet Water help improve them?

Room for elaboration on website (stormwater friendly way for managing turf)

Connection(s) identified through MS4 Reflection:

Briefly Explain:
Topic: Stream and Shoreline Management

Connection(s) identified through plan review:

1) According to the map on page 15, the vast majority of the streamline landowners (43rd St Ditch) are commercial and industrial.

QUESTION: Should any of these properties/landowners be targeted for education for any reason, because of a project, existing problems, or anything else?

There is an easement behind Menards to do some work near the waterway.

2) According to the map on page 15, TID #1 appears to be at the most upstream portion of the 43rd St. Ditch.

QUESTION: What is happening at TID #1, and does it have an effect on water quality?

A soil erosion issue was taken out.

General Questions:

- 1) Are there any sites in the Village of West Milwaukee that are experiencing increased erosion?
- Are the majority of riparian landowners in the Village of West Milwaukee homeowners, businesses, the Village, or other landowners? All private
- 3) Does the Village of West Milwaukee already have mechanisms for educating on this topic, and if so, what are they? Are they successful as is, or could Sweet Water help improve them?

Can you identify other ways that this topic connects to the Village of West Milwaukee?

Briefly Explain:

When Centennial Park is redeveloped, it could be accentuated to promote that the 43rd St Ditch is a natural water feature. The Village is seeking out funds for new paths/improvements.

Topic: Residential Infiltration

Connection(s) identified through plan review:

1) "Floodplains within the Village are limited to areas immediately adjacent to stream corridors and carry little risk of causing harm to properties or persons." -pg. A-18

QUESTION: Related, is flooding pretty infrequent in West Milwaukee neighborhoods? Are there any neighborhoods with specific infiltration problems?

Lots are too small and enviro concerns are sub-surface due to industrial past.

Ge	eneral Questions:
1)	Are there any neighborhoods that experience flooding issues or other stormwater issues where efforts should be targeted?
2)	Does the Village of West Milwaukee already have mechanisms for educating on this topic, and if so, what are they? Are they successful as is, or could Sweet Water help improve them? There is some rain barrel info on the website. Some residents have installed barrels.
	There is a stormguarden at the Community Center with signage.
	In 2024, MMSD will be doing more work on the KK projects, which will mitigate some existing flooding issues (issues currently resolve within 30 minutes, approximately)
Ca	in you identify other ways that this topic connects to the Village of West Milwaukee?
	Policy \Box Project \Box Priority \Box Problem \Box Other \Box No Connection/Unknown \Box
Br	iefly Explain:

Topic: Construction Site / Post-Construction Storm Water Management

Connection(s) identified through plan review:

1) "Protect groundwater by requiring new development to provide adequate on-site stormwater management facilities using stormwater best management practices" -pg. 46

QUESTION: Are developers following this policy and correctly implementing practices? Are they being maintained?

Contractors fix things right away if told.

General Questions:

- 1) Do you know if there are any contractors in the Village of West Milwaukee who struggle with construction site storm water management? Are there any contractors who are particularly good about it?
- 2) Do you know if there are any HOAs, businesses, or other landowners in the Village of West Milwaukee who struggle with post-construction BMP maintenance? Are there any landowners who are particularly good about it?
- 3) Does the Village of West Milwaukee already have mechanisms for educating on this topic, and if so, what are they? Are they successful as is, or could Sweet Water help improve them?

Can you identify other ways that this topic connects to the Village of West Milwaukee?

Policy
Project
Priority
Problem
Other
No Connection/Unknown

Briefly Explain:

Village does a good job with this, adhering to MMSD & regulatory requirements. Not a lot of redevelopment outside of what larger corporations are doing- because of the industrial past there are expensive obstacles to redevelopment.

Topics: Green Infrastructure/Low Impact Development

Connection(s) identified through plan review:

1) "The Rexnord property could be redeveloped as a future Village Center that would include mixed-use development, housing, greenspace/gathering space and commercial" -pg. 9

QUESTION: Are there any plans for this greenspace to include green infrastructure?

Chambers for stormwater

General Questions:

1) Does the Village of West Milwaukee already have mechanisms for educating on this topic, and if so, what are they? Are they successful as is, or could Sweet Water help improve them?

The Walmart success story is in some trade articles. Further promotion could encourage similar projects. There is a public storage chamber below the parking lot. The Village owns the tank/easement.

Can you identify other ways that this topic connects to the Village of West Milwaukee?

Policy \Box Project \Box Priority \Box Problem \Box Other \Box No Connection/Unknown \Box

Briefly Explain:

Detention is often better than infiltration here.

Topics: Snow & Ice Control

Connection(s) identified through plan review:

1) "The Village of West Milwaukee participates in several joint initiatives with other governmental entities. A partial list of these includes... Municipal vehicle fueling and road salt provision agreement with the City of West Allis." -pg.

QUESTION: How far does this salt provision agreement extend? Does West Allis salt West Milwaukee roads? To what extent do West Milwaukee staff engage in winter road management activities?

General Questions:

1) Does the Village of West Milwaukee ever get complaints from residents or businesses that not enough salt has been applied? That too much has been applied?

- 2) Does the Village of West Milwaukee ever get complaints from MS4 staff that private contractors have applied too much or not enough salt or other ice control practices? If so, have you ever reached out to the contractors? No
- 3) What is the capacity of West Milwaukee's salt storage facilities? Would the Village of West Milwaukee be interested in a salt take-back program? Possibly a joint program with West Allis
- 4) Does the Village of West Milwaukee already have mechanisms for educating on this topic, and if so, what are they? What audiences do you reach (residents, private applicators, MS4 staff, etc.) Are the mechanisms successful as is, or could Sweet Water help improve them?

Can you identify other ways that this topic connects to the Village of West Milwaukee?

Policy □ Project □ Priority □ Problem □ Other □ No Connection/Unknown □ Briefly Explain:

Purchases brine from Wauwatosa

Topics: Other Stormwater Issues Relevant to the MS4

Connection(s) identified through plan review:

1) Install two storm water quality improvement projects during the permit term Individual Permit Condition Menomonee Group Individual Permit Condition

QUESTION: Are there plans for these two storm water quality improvement projects?

General Questions:

- 1) Does the Village of West Milwaukee have any other stormwater issues that public education can and should address?
- 2) Does the Village of West Milwaukee already have mechanisms for educating on this topic, and if so, what are they? Are they successful as is, or could Sweet Water help improve them?

Can you identify other ways that this topic connects to the Village of West Milwaukee?

Policy Project Priority Problem Other No Connection/Unknown

Briefly Explain:

There is an annual clean up day in April. Draws participation from businesses and over 100 people.

For Sweet Water Use Only

Date Worksheet Submitted to Sweet Water: September 1, 2021

Staff Member Review: Kristin Schoenecker, Watershed Coordination Manager



Respect Our Waters Education Plan

Group Public Education and Outreach Conditions

Section II.A of the Menomonee Group Permit requires that the permittees shall create and implement a public education and outreach program that addresses at least 3 of the 9 topics listed in Table 1 on annual basis, and must address each topic at least once per permit term, with a focus on targeted pollutants, a targeted audience, and a planned delivery mechanism. The permit allows for third party assistance so long as the results are tracked and reported annually. Sweet Water will serve in this capacity.

Sweet Water prioritizes group education topics from the Menomonee Group MS4 permit by identifying what different stakeholders within the region can do to reduce MS4 contributions of pollutants identified within the Milwaukee River Basin TMDL. Sweet Water proposes to address the required topics on the basis of targeted pollutants. Because there are four main pollutant categories, the topics are repeated on a four-year cycle.

- 2021, '25...: Education of appropriate audiences about the need and actions to reduce nutrient loading
- 2022, '26...: Education of appropriate audiences about the need and actions to reduce sediment loading;
- 2023, '27...: Education of appropriate audiences about the need and actions to reduce bacteria loading; and
- 2024, '28...: Education of appropriate audiences about the need and actions to reduce pollutants not covered by the TMDL (ie. certain chemicals & chlorides)

All education topics within the general permit and all stakeholders within an MS4 could address multiple pollutants to an extent. However, some topics and stakeholders are especially suited to address a certain subset of the pollutant categories mentioned above. If it has been identified that one of the topics can lead a certain stakeholder group to address multiple pollutant categories, that permit topic and matching audience will be covered during multiple years. As outlined in the tables below, more than 3 of the general topics from Table 1 of the permit will be addressed each year.

Although yearly themes guide the choice of education topics prioritized each year, they do not preclude the addition of other activities and topics as opportunities arise. Mechanisms such as the Respect Our Waters website, print offerings, and social media offerings will continue to offer education on other topics in addition to those prioritized by the theme.

Upon working with municipal and county partners each year, the targeted audiences and educational messages from the broad categories in this table will be refined. This will help define specific measurable goals for activities implemented each year. Activities in this table may be amended, supplemented, or replaced if merited by annual assessments on progress toward measurable goals. Each year Sweet Water will attempt to form new partnerships and increase the breadth and depth of the reach of the mechanisms listed.

Mechanisms

Watershed Wednesdays - Social Media Post & Advertisement Campaign: A social media campaign that is developed for and delivered through Respect Our Waters social media platforms that includes posts and advertisements delivering education topics on the priority residential topics for that year.

Respect Our Waters Website & Topic Webpages: An educational website with topic pages developed from NR216 education requirements. Each year, pages are added/updated to address new aspects of priority education topics, with all pages being maintained every year.

Outreach Templates & Print/Promotional Materials: Customizable articles, social media posts, and other materials that Respect Our Waters develops for municipalities to use in their own outreach. Some of these are sent to partners at regular intervals, some are available upon request.

Streamed & Broadcasted Public Service Announcements: Pre-recorded and live public service announcements that are shared by media contractors using broadcast, streaming, or digital mechanisms chosen each year.

Community Event Tabling: Promotional, educational, and tabling tools provided by Sweet Water by request to partners to use at community events not supported by the Mini-Grant Program. Sweet Water staff may also be able to attend events on a limited basis.



2022 Theme: Sediment Pollution Prevention										
Audience General Permit Topic		Passive Mechanisms	Municipal Role	Active Mechanisms	Municipal Role					
	1	Illicit Discharge Detection & Elimination	Public Service Announcements	No Role	_					
Residents			Respect Our Waters Website & Topic Webpages	Link to Respect Our Waters Website on Municipality Website (<i>Required Activity</i>)	Community Event Tabling	Request and use tabling materials and handbook from Sweet Water to use at community events				
	5	Residential Infiltration	Outreach Templates &	• Use outreach templates to include educational articles and posts in municipal outreach (<i>Required Activity</i>)						
Riparian Landowners		Stream and Shoreline	Print/Promotional Materials	<i>Recommended Activity)</i>						
	4	Management	Watershed Wednesdays - Social Media Post & Advertisement Campaign	Share social media posts (<i>Recommended activity</i>)						
Groups & individuals responsible for the design & installation of construction site erosion control practices & stormwater management facilities		Construction Sites and Post-Construction Storm Water Management	Respect Our Waters Website & Topic Webpages	Link to Respect Our Waters Website on Municipality Website (<i>Required Activity</i>)	Nothing currently planned					
Developers & designers	8 Green 10 Infrastructure/Low 10 Impact Development		Outreach Templates & Print/Promotional Materials	 Use outreach templates to send appropriate education to appropriate contact lists (<i>Required Activity</i>) Print and place materials in relevant places in municipal building (<i>Recommended Activity</i>) 						



2	2023 Theme: Bacteria Pollution Prevention											
	Audience General Permit Topic		General Permit Topic Passive Mechanisms Municipal Role		Municipal Role	Active Mechanisms	Municipal Role					
		1 Illicit Discharge Detection & Elimination		Watershed Wednesdays - Social Media Post & Advertisement Campaign	Share social media posts (<i>Recommended activity</i>)							
	Residents		Household Hazardous	Respect Our Waters Website & Topic Webpages	Link to Respect Our Waters Website on Municipality Website (<i>Required Activity</i>)	Community Event	Request and use tabling materials and handbook from Sweet Water to use at community events					
	Residents	2	Waste Disposal / Pet Waste Management / Vehicle Washing	Outreach Templates & Print/Promotional Materials	 Use outreach templates to include educational articles and posts in municipal outreach (<i>Required Activity</i>) Print and place materials in relevant places in 	Tabling						
					municipal building or at community event (Recommended Activity)							
		5	Residential Infiltration	Public Service Announcements	No Role							
	Restaurants, grocery stores, & other appropriate businesses	7	Pollution Prevention	Respect Our Waters Website & Topic Webpages	Link to Respect Our Waters Website on Municipality Website (<i>Required Activity</i>)							
	Developers & Designers		Green Infrastructure/Low Impact Development	Outreach Templates & Print/Promotional Materials	 Use outreach templates to send appropriate education to appropriate contact lists (Required Activity) Print and place materials in relevant places in municipal building (<i>Recommended Activity</i>) 	Nothing currently planned						



Audience	G	eneral Permit Topic	Passive Mechanisms	Municipal Role	Active Mechanisms	Municipal Role	
	1	Illicit Discharge Detection & Elimination	Watershed Wednesdays - Social Media Post & Advertisement Campaign	Share social media posts (<i>Recommended activity</i>)			
	2	Household Hazardous Waste Disposal / Pet Waste Management / Vehicle Washing	Respect Our Waters Website & Topic Webpages	Link to Respect Our Waters Website on Municipality Website (<i>Required Activity</i>)	Request and use tabling material		
Residents	3	Yard Waste Management/Pesticide and Fertilizer Application	Outreach Templates & Print/Promotional Materials	 Use outreach templates to include educational articles and posts in municipal outreach (<i>Required Activity</i>) Print and place materials in relevant places in municipal building or at community event (<i>Recommended Activity</i>) 	Community Event Tabling	and handbook from Sweet Water to use at community events	
	5	Residential Infiltration	Public Service Announcements	No Role			
	9	Snow and Ice Control					
Appropriate Businesses	7	Pollution Prevention	Respect Our Waters Website & Topic Webpages	Link to Respect Our Waters Website on Municipality Website (<i>Required Activity</i>)			
Developers & Designers		8 Green Infrastructure/Low Impact Development Outreach Templates & Print/Promotional Materials		 Use outreach templates to send appropriate education to appropriate contact lists (Required Activity) Print and place materials in relevant places in municipal building (Recommended Activity) 		lanned	

2024 Theme: Chlorides & Chemicals Pollution Prevention



2025 Theme: Nutrient Pollution Prevention										
Audience	lience General Permit Topic			Municipal Role	Active Mechanisms	Municipal Role				
	1	Illicit Discharge Detection & Elimination	Watershed Wednesdays - Social Media Post & Advertisement Campaign	Share social media posts (Recommended activity)						
		Yard Waste	Respect Our Waters Website & Topic Webpages	Link to Respect Our Waters Website on Municipality Website (<i>Required Activity</i>)	Request and use					
Residents	3	Management/Pesticide and Fertilizer Application	Outreach Templates & Print/Promotional Materials	 Use outreach templates to include educational articles and posts in municipal outreach (Required Activity) Print and place materials in relevant places in 	Community Event Tabling	tabling materials and handbook from Sweet Water to use at community events				
	_			municipal building or at community event (Recommended Activity)						
	5	Residential Infiltration	Public Service Announcements	No Role						
Groups & individuals responsible for the maintenance of stormwater management facilities	6	Construction Sites and Post-Construction Storm Water Management	Respect Our Waters Website & Topic Webpages	Link to Respect Our Waters Website on Municipality Website (<i>Required Activity</i>)						
Lawn care companies, golf courses, and other	7	Pollution Prevention								
appropriate businesses			_	• Use outreach templates to send appropriate education to appropriate contact lists <i>(Required</i>	Nothing currenti	y planned				
Developers & designers	8	Green Infrastructure/Low Impact Development	Outreach Templates & Print/Promotional Materials	Activity) • Print and place materials in relevant places in municipal building (Recommended Activity)						



Adopt Your Drain Plan

Group Public Education and Outreach Conditions

Section II.A of the Menomonee Group Permit requires that the permittees shall create and implement a public education and outreach program that addresses at least 3 of the 9 topics listed in Table 1 on annual basis, and must address each topic at least once per permit term, with a focus on targeted pollutants, a targeted audience, and a planned delivery mechanism. The permit allows for third party assistance so long as the results are tracked and reported annually. Sweet Water will serve in this capacity.

The Adopt Your Drain program was initially developed as a public involvement initiative. However, the newest Menomonee Group Permit no longer has a volunteer opportunity requirement under this minimum control measure. The main purpose of the program is now to encourage and measure behavior change that has been introduced through Respect Our Waters education. The program recruits and maintains its own target audience of volunteers- the size of which is dependent on the efficacy of efforts to educate the general public of the MS4 on the importance of stormwater pollution prevention. Upon implementation of successful education, members of the public feel compelled to take action and change their behaviors by committing to the Adopt Your Drain stewardship activity.

The program also measures the sustained efficacy of the education. It is good to compel the public to adopt a drain- it's better to see them continuing to engage in program activities that show sustained behavior change. Mechanisms used to sustain the behavior change include:

Mechanisms

Volunteer Newsletter: Sent to volunteers quarterly via email, this newsletter reminds volunteers to continue to clear their storm drain of debris. It also contains information about other seasonally relevant stormwater pollution prevention activities.

Facebook Group: A space designed to be an informal network for volunteers to share their experience and also receive updates about the Adopt Your Drain program and other seasonally relevant stormwater pollution prevention activities.

Online Map + Live Dashboard: The online map shows drains that are available to be adopted and those that are adopted. The Live Dashboard shows the results of volunteer efforts such as the total weight and categories of debris removed by volunteers. Both of these visual representations of behavior change help to show the efficacy of the program and encourage current and prospective volunteers by making them feel that they are part of the large community.

In-Person Events: Sweet Water will either implement, support, or coordinate volunteer activities in partner communities that use Respect Our Waters resources to educate participants and raise awareness of the Adopt Your Drain program, leading to more ongoing behavior change.

The Adopt Your Drain plan echoes the Respect Our Waters plan; however the only target audience of this program are current and prospective volunteers, which will mainly be members of the residential audience. Thus, only topics identified as relevant to the residential audience will be covered by this program.



Adopt Your Drain Plan 2022 - 25

Mechanism	Topics Covered By Year 2022	2023	2024	2025	Municipal Role
Volunteer Newsletter	 Illicit Discharge Detection & Elimination Residential Infiltration 	 Illicit Discharge Detection & Elimination Household Hazardous Waste Disposal / Pet Waste Management / Vehicle Washing Residential Infiltration 	 Illicit Discharge Detection & Elimination Household Hazardous Waste Disposal / Pet Waste Management / Vehicle Washing Yard Waste Management / Pesticide and Fertilizer Application Snow and Ice Control 	 Illicit Discharge Detection & Elimination Yard Waste Management / Pesticide and Fertilizer Application Residential Infiltration 	No Role
Facebook Group	 Illicit Discharge Detection & Elimination Residential Infiltration 	 Illicit Discharge Detection & Elimination Household Hazardous Waste Disposal / Pet Waste Management / Vehicle Washing Residential Infiltration 	 Illicit Discharge Detection & Elimination Household Hazardous Waste Disposal / Pet Waste Management / Vehicle Washing Yard Waste Management / Pesticide and Fertilizer Application Snow and Ice Control 	 Illicit Discharge Detection & Elimination Yard Waste Management / Pesticide and Fertilizer Application Residential Infiltration 	No Role
Adopt Your Drain Website / Dashboard	 Illicit Discharge Detection & Elimination Residential Infiltration 	 Illicit Discharge Detection & Elimination Household Hazardous Waste Disposal / Pet Waste Management / Vehicle Washing Residential Infiltration 	 Illicit Discharge Detection & Elimination Household Hazardous Waste Disposal / Pet Waste Management / Vehicle Washing Yard Waste Management / Pesticide and Fertilizer Application Snow and Ice Control 	 Illicit Discharge Detection & Elimination Yard Waste Management / Pesticide and Fertilizer Application Residential Infiltration 	 Send drain locations to Sweet Water if not already completed Share Adopt Your Drain website and opportunity on website and through other appropriate mechanisms
In Person Volunteer Event	TBD – Depends on year of imple	ementation (at least one in-person e	event per community per permit term)		 Approve Volunteer plans (i.e. storm drain stenciling location) Share Adopt Your Drain volunteer opportunity on website and through other appropriate mechanisms



Technical Education Plan

Individual Education and Outreach Conditions

Sweet Water assists members of the Menomonee Group to identify individual stormwater education needs, develop and implement an activity to meet at least one of the prioritized individual stormwater education needs, develop and implement methods to measure progress after the education event has been held, and summarize the results of the activity. This work is done over a four-year schedule. See below for an approximate timeline that meets MS4 permit deadlines provided in Section II.B:

Individual Education + Outreach Program Timeline

June 2021 – Sep 2021	*Deadline*	Oct 2021 – Sep 2023	*Deadline*	Oct 2023 – Sep 2024	*Deadline*
SW Education Need Assessment +	Sep 30, 2021	• Education activity selection + development	Sep 30, 2023	 Post-activity metric measurements 	Sep 30, 2024
Prioritization	Provision of	 Education activity metrics selection + 	Completion	• Education activity summary development	Provision of
	Storm Water	development	of Individual		Post-
	Education	 Pre-activity metric measurements (if 	Education		Education
	Assessment	applicable)	Activity		Activity
	Documents	 Education activity implementation 			Summary

The Village of West Milwaukee has identified the following needs as high priority. Unless another need is identified as higher priority before the activity is fully planned and implemented, one of these needs will be addressed by this activity:

- A standardized process for educating MS4 staff on stormwater pollution concern identification
- An activity to work with new commercial redevelopment opportunity to identify possible water quality improvements to implement in new development

The following mechanisms are examples of how Sweet Water may help design and implement an activity that will meet the chosen need. Other mechanisms may be developed and implemented to meet the need as appropriate.

Mechanisms

Mini-Grant Assistance: Sweet Water may solicit and advise a project proposed by a community organization that will meet the community's stormwater education need. This mechanism may be used if the target audience is a residential audience, or a sub-audience thereof.

Workshop Development: Sweet Water may work with partners to plan and design materials for a workshop that will meet the community's stormwater education need, and help coordinate the implementation of this event. This mechanism may be used if the target audience is a staff, contractor, or other professional audience.

Content Development: Sweet Water may work with partners to plan and design digital content for ongoing virtual outreach. This mechanism may be used for multiple audiences. **Site-Visit Outreach:** Sweet Water may work with partners to visit and educate specific sites to meet the community's stormwater education need. This mechanism may be used if the target audience is a business, an HOA, or other appropriate audience.



Training Requirements

The Menomonee Group Permit calls for staff and contractor education and training on tasks associated with the Stormwater Management Program in multiple parts of the permit, including: II.A. Group Public Education and Outreach Conditions

- Inform and educate those responsible for the design, installation, and maintenance of construction site erosion control practices and storm water management facilities on how to design, install and maintain the practices.
- II.D. Illicit Discharge Detection and Elimination:
 - All staff responsible for implementation of the IDDE program shall receive training at least once per permit term. This includes office staff, field staff, and emergency response staff (police and fire departments).

II.G. Pollution Prevention:

- Training on the Permittee's salt strategy shall be provided at a frequency no less than every other year.
- The permittee shall provide education for appropriate municipal and other personnel involved in implementing the pollution prevention programs. Documentation shall be maintained of the date, the names of each person attending, and the content of the training.¹

V.F. Proper Operations and Maintenance

• The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control which are installed or used by the municipality to achieve compliance with the conditions of the permit and the storm water management program. Proper operation and maintenance includes ... adequate operator staffing and training..."

Sweet Water will use the following mechanisms to provide training opportunities on an annual basis that align with these requirements:

<u>Mechanisms</u>

Clean Rivers, Clean Lake Conference: The Clean Rivers, Clean Lake (CRCL) Conference is an annual event that includes education and training activities such as presentations, field trips, workshop sessions, and panels.

Quarterly Partner Meetings: The Quarterly Meetings are meetings between MS4 Technical Education partners that include education activities such as presentations and guided conversations between members.

One-Stop-Shop: Online source for recordings of Quarterly Meeting and CRCL presentations and associated participation quizzes, staff training activity templates, and activities provided by organizations other than Sweet Water.

Other Mechanisms as Appropriate: Sweet Water will work with partners to plan, coordinate, and/or facilitate other training and education events as necessary, such as permittee and group permit specific training events.

¹ Not including the winter road management pollution prevention program, which has training requirements defined within the permit language, pollution prevention programs include Nutrient Management, Street Sweeping and Catch Basin Cleaning, Management of Leaves and Grass Clippings, and Storm Water Pollution Prevention Planning.



Training Requirement										
Training/Ed Requirement	Municipal Specific?	Frequency	Audience	Sweet Water Role	Municipal Role					
Designing, installing, and maintaining construction site erosion control practices	No	≥ Once / Permit Term	"Those responsible for the design, installation, and maintenance of construction site erosion control practices"	 Designing and planning training events OR alerting MS4s of pre-existing events Recruiting presenters/trainers Tracking attendance and developing report following event 	 Identifying staff + contractors who should attend training Sending staff + contractors to training Identifying other professionals/businesses in community to be invited Providing input on desired specifics of training 					
IDDE Program training	Yes	≥ Once / Permit Term	Staff + Contractors (including "office staff, field staff, and emergency response staff (police and fire departments")	 Designing training materials and templates (may be used in combination with pre-existing events and activities) Designing and planning standard content and making it available through a workshop, video, or other appropriate method Tracking attendance and developing report following event 	 Identifying staff + contractors who should attend training Sending staff + contractors to training Adding municipal-specific content to training materials and templates Leading municipal-specific training 					
Training on the Permittee's salt strategy	Yes	≥ Every Other Year	Staff + Contractors	 Designing training materials and templates (may be used in combination with pre-existing events and activities) Designing and planning standard content and making it available through a workshop, video, or other appropriate method Tracking attendance and developing report following event 	 Identifying staff + contractors who should attend training Sending staff + contractors to training Adding municipal-specific content to training materials and templates Leading municipal-specific training 					
Nutrient Management	Partial	Unspecified	Staff + Contractors	 Designing and planning training events OR alerting MS4s of pre-existing events Designing training materials and templates for municipal specific training (may be used in combination with pre-existing events and activities) Recruiting presenters/trainers Tracking attendance and developing report following event 	 Identifying staff + contractors who should attend training Sending staff + contractors to training Identifying other professionals/businesses in community to be invited Providing input on desired specifics of training Leading municipal-specific training 					

					Sweet water
Street Sweeping and Catch Basin Cleaning	Partial	Unspecified	Staff + Contractors	 Designing and planning training events OR alerting MS4s of pre-existing events Designing training materials and templates for municipal specific training (may be used in combination with pre-existing events and activities) Recruiting presenters/trainers Tracking attendance and developing report following event 	 Identifying staff + contractors who should attend training Sending staff + contractors to training Identifying other professionals/businesses in community to be invited Providing input on desired specifics of training Leading municipal-specific training
Management of Leaves and Grass Clippings	Partial	Unspecified	Staff + Contractors	 Designing and planning training events OR alerting MS4s of pre-existing events Designing training materials and templates for municipal specific training (may be used in combination with pre-existing events and activities) Recruiting presenters/trainers Tracking attendance and developing report following event 	 Identifying staff + contractors who should attend training Sending staff + contractors to training Identifying other professionals/businesses in community to be invited Providing input on desired specifics of training Leading municipal-specific training
Storm Water Pollution Prevention Planning	Partial	Unspecified	Staff + Contractors	 Designing and planning training events OR alerting MS4s of pre-existing events Designing training materials and templates for municipal specific training (may be used in combination with pre-existing events and activities) Recruiting presenters/trainers Tracking attendance and developing report following event 	 Identifying staff + contractors who should attend training Sending staff + contractors to training Identifying other professionals/businesses in community to be invited Providing input on desired specifics of training Leading municipal-specific training
Other topics to ensure proper operation + maintenance of "facilities & systems of treatment & control which are installed or used by the municipality to achieve compliance with the conditions of the permit & the SWMP"	TBD	Unspecified	TBD	 Reach out to MS4 partners before meeting opportunities (CRCL & Quarterly Meetings) to identify topics of interest that will help MS4s with operation & maintenance Designing training materials and templates Designing and planning standard content and making it available through a workshop, video, or other appropriate method Tracking attendance and developing report following event Other tasks as appropriate 	 Provide topics of interest to Sweet Water Identifying staff + contractors who should attend training Sending staff + contractors to training Identifying other professionals/businesses in community to be invited Providing input on desired specifics of training Leading municipal-specific training



Public Involvement and Participation Requirements

The Menomonee Group Permit calls for public involvement and participation through the provision of opportunities for the public to effectively participate in the development, implementation, and modification of the permittee's storm water management program. The approach must include provisions for receiving and considering public comments on the following permit activities: annual reports, SWMP revisions, adoption of storm water related ordinances, and TMDL pollutant load reduction benchmark development. The permittee shall also identify delivery mechanism and target participants associated with each permit activity. Delivery mechanisms may include public workshop, presentation of storm water information, government event (public hearing, council meeting, etc.), citizen committee meeting, or website.

Sweet Water will develop presentation templates explaining MS4 permits and the permit activities included under this requirement (annual reports, SWMP revisions, adoption of storm water related ordinances, and TMDL pollutant load reduction benchmark development). This presentation will be made available to partners via the One-Stop-Shop described previously. Sweet Water staff will also be available to present this presentation at public workshops, government events, or other events as applicable at the request of the MS4.



Illicit Discharge Detection & Elimination Inspections

VILLAGE OF WEST MILWAUKEE
TABLE 1 - ILLICIT DISCHARGE INSPECTION SUMMARY 10/20/2021

Outfall #	Subbasin ID	Subwatershed	Pipe Material	Pipe Size	Sampled?	Illicit Discharge?	Follow-up Work Required
1	M-12	Menomonee River	RCP	48"	NO	NO	
2	M-11	Menomonee River	RCP	15"	YES	NO	
3	M-9	Menomonee River	RCP	60"	YES	NO	
4	M-8	Menomonee River	RCP	38" x 60"	NO	NO	
5	M-10	Menomonee River	RCP	24"	NO	NO	
6	M-6	Menomonee River	CMP	30"	YES	NO	
7	K-2	Kinnickinnic River	RCP	4' x 6'	YES	NO	
8	K-1	Kinnickinnic River	RCP	72"	NO	NO	
9	K-15	Kinnickinnic River	RCP	30"	NO	NO	
10	K-14	Kinnickinnic River	RCP	18"	NO	NO	
11	K-11	Kinnickinnic River	RCP	60"	YES	NO	
12	K-3	Kinnickinnic River	RCP	48"	NO	NO	
13	K-4	Kinnickinnic River	RCP	48"	NO	NO	
14	K-10	Kinnickinnic River	RCP	48"	YES	NO	
15	K-9	Kinnickinnic River	RCP	6' x 16'	YES	NO	
16	K-5	Kinnickinnic River	CMP	36"	NO	NO	
17	K-6	Kinnickinnic River	RCP	54"	NO	NO	
18	M-9	Menomonee River	RCP	42"	YES	NO	



Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID	1									
Date of Last Rainfall				10	10-14-2021 (0.12")					
Date Inspection Performed				(C	5-19	+-70	21			
Name of Inspector				TR	LRS +	t JAM	-			
Receiving Water				Menc	monee	e River	M-11			
M.H. or Outfall (Circle On	e)			(M.H)			Outfall			
Pipe Size					4	48"				
Dimo Motorial (Cirola One)		RCD	!	CMP		PVC	F	IDPE		
Fipe Material (Circle Offe)		Steel		DI		VCP	Other		
Color (Cirolo Ono)		Clear		Yellov	V	Gray	Oi	range		
			Brown		Gree	en	Red	Other		
Turbidity (Circle One)	Turbidity (Circle One)		S	lightly	Cloud	У	Cloudy	Opaque		
Surface Sheen (Circle One)		None			Oil			Gasoline		
			Scum			Un	known			
Odor (Circle One)		None	0	i1	Deca	iying V	egetation	SO_2		
		F	uel	Sewa	ige	M	ethane	Unknown		
Pipe Active (Circle One)		No	<u>(</u>	ricklø		Modera	ate	Substantial		
IF FLOW IS OBSERVE	D, A	New Yor	RSAN	128080	₽₩V(6)	SHBB	CONDU	CARD/IC)		
DETERMINE		<u>ANILI</u>	9(9))	លស្តន	<u> MIR(</u> e)	34633	<u> an shakar</u>	*		
Parameter		species	Rang	e		ial Par	ameler (<u>eading</u>		
pH Level*		6.0 -	9.0							
Total Chlorine Level*		< 0.2 r	ng/L							
Total Copper Level*		< 0.1 r	ng/L							
Total Phenol Level*		< 0.5 t	ng/L							
Detergents Level*		< 0.5 t	ng/L							
Ammonia Level*		< 0.1 r	ng/L							
Bacteria (E. Coli) Level**	<',	235 cfu	/100ml							
Water Temperature		15					۰F			

water remperature - °F *Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination" **EPA Standard

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID						2		
Date of Last Rainfall					10-14	-2021	(0.12")	
Date Inspection Performe	d				10-1	9-20	Z (
Name of Inspector					TZRS	+ 54	<u>л</u> .	
Receiving Water				Mer	nomone	e River	- M-11	
M.H. or Outfall (Circle On	e)			(M.H))		Outfall	
Pipe Size					1	5"		
Pipe Material (Circle One)	RC)		CMP		PVC	ŀ	IDPE
	,		Steel		Dl		VCP	Other
Color (Circle One)		Clear		Yello	W	Gray	0	range
			Brow	n)	Gree	en	Red	Other
Turbidity (Circle One)		Clear	<u> </u>	Slightl	y Cloud	\triangleright	Cloudy	Opaque
Surface Sheen (Circle One	а (None			Oil			Gasoline
	9		Scur	n		Ur	known	
Odor (Circle One)		None) (Dil	Deca	aying V	'egetation	SO ₂
		F	uel	Sev	vage	M	ethane	Unknown
Pipe Active (Circle One)		No		rickle)	Moder	ate	Substantial
IF FLOW IS OBSERVE		MARE	RASYAN	412.01h	NGAVIU	STEPP	(8(0)ND)1	(e(199/D)(10)))
DETERMINE	11.2.7		<u>#(%()</u>	<u>0063(0</u>	\$\$ <i>1</i> 2\{{C	1046822	<u> (1987)</u>	
Parameter		<u>uprasie</u>	i (Referre	<u>;e</u>	$=$ Δc_1	16142an	ameter	<u>teading</u>
pH Level*		6.0	- 9.0			<u> </u>	<u>د</u>	
Total Chlorine Level*		< 0.2	mg/L			0.	2	
Total Copper Level*		< 0.1	mg/L			0.0	>	
Total Phenol Level*		< 0.5	mg/L			0.0	د	
Detergents Level*		< 0.5	mg/L			0.0	5	
Ammonia Level*		< 0.1	mg/L			0.0	U	
Bacteria (E. Coli) Level**	<	235 eft	ı/100m	L		5400	cfu/ 100.	mL
Water Temperature		-				64.5	°F	

*Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination" **EPA Standard

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID							3			
Date of Last Rainfall					10	-14-7	2021 (0.12")		
Date Inspection Performe	đ				10	2-19-	-2021			
Name of Inspector						ERS	-AC +-	2		
Receiving Water				J	Menc	monee	e River	– <i>M</i> -9		
M.H. or Outfall (Circle On	e)			\mathbb{V}	I.ID			Outfall		
Pipe Size						6	0"			
Pipe Material (Circle One) (RCP	Steel	CM	1P	DI	PVC	I VCP	HDPI	Other
······································		Cland	50001	Ve	Ilau	1/1	Grav		Irona	
Color (Circle One)		Cicar	Brou	m	-11U W	Green	n	Red	nange	Other
Turbidity (Circle One)		Clear	(Slig	hfly (loude	7	Cloudy		Onaque
		None		*		Oil		orouur	Gas	soline
Surface Sheen (Circle Onc) (Sem	m		V	Un	known	04.	
	(None	(Dil		Deca	ving V	egetatior	1	SO ₂
Odor (Circle One)		Fi	uel	S	Sewa	ge	M	ethane	Ū	nknown
Pipe Active (Circle One)		No		Tric	de	1	Modera	ate	Sul	ostantial
							**************************************	<u></u>		
MINDEROXVIS(OBSIDRAVE	0,0	MANNO.	(46.7A)	्राष्ट्रा	ni. ((MV UK	900:HD	CONDI		DTO
DETERMINE	110%		A (🛛) I	*01	Xeiti	AR(H	2692	arsent		
Parameter	- 13 A		<u>)) (</u> 4517)	<u>ee</u>		a cin	hebh.	ameteril	₹ \$900	ing
pH Level*		6.0	9.0				7.	8		
Total Chlorine Level*		< 0.2 r	ng/L				0	,0		
Total Copper Level*		< 0.1 n	ng/L				0	S S		
Total Phenol Level*		< 0.5 n	ng/L				0	.0		
Detergents Level*		< 0.5 n	ng/L				0	.0		
Ammonia Level*		< 0.1 n	ng/L				0	-0		
Bacteria (E. Coli) Level**	<2	235 cfu/	/100n	nL			2100	CFU/100	mL	
Water Temperature						1	65.6	°F		

*Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination"
**EPA Standard

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID						4			
Date of Last Rainfall					10-14	-2021	(0.12")	
Date Inspection Performed	d				to -	19-20	120		
Name of Inspector					TZRS	4	M		
Receiving Water				Menc	omonee	e River	· – M-8		
M.H. or Outfall (Circle On	e)			M.H)			Outfal	1	
Pipe Size					38"	x 60"			
Dine Material (Circle One)	RCP CMP PVC H	H	DPE						
Pipe Material (Circle One			Steel		DI		VCP		Other
Color (Circle One)		Clear		Yellow	r	Gray		Ora	ange
Color (Circle Oile)			Brown		Greer	1	Red		Other
Turbidity (Circle One)		Clear	SI	ightly (Cloudy	•	Cloud	У	Opaque
Surface Sheen (Circle One	3	None			Oil				Gasoline
Surface Sheen (Circle One	ク		Scum			Un	known		
Odor (Circle One)		None	Oi	1	Decay	ying V	egetatio	on	SO_2
		F	uel	Sewa	ge	M	ethane		Unknown
Pipe Active (Circle One)	+ +	NO	Tr	ickle	N	Moder	ate		Substantial
IF FLOW IS OBSERVE	$[0,\infty]$	VATE	RESIMU	PHINE	HW UIS	(AB)	COND)0(TEDIO
DEPERMINE	18%	NSULU	<u>n(@in@</u>	06(01)		<u> #1692</u>	<u>(183)</u> m	<u> (</u>) (
Parameter	<i>43</i>	specter	Reng	•	Actu	al Par	ameter	<u>.</u>	eading
pH Level*		6.0 -	9.0						
Total Chlorine Level*		< 0.2 i	mg/L						
Total Copper Level*		< 0.1	mg/L						
Total Phenol Level*		< 0.5 1	mg/L						
Detergents Level*		< 0.5)	mg/L						
Ammonia Level*		< 0.1 i	mg/L						
Bacteria (E. Coli) Level**	<2	235 cfu	/100mL						
Water Temperature							°F		

*Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination" **EPA Standard

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID				5		
Date of Last Rainfall		10-14-2021 (0.12")				
Date Inspection Performed	10-11-2021					
Name of Inspector			RRS	+ Jam		
Receiving Water		M	enomonee	e River – I	M-10	
M.H. or Outfall (Circle One)		M.	Ð	0	utfall	
Pipe Size				24"		
Bing Material (Circle One)	Material (Circle One) (RCR CMP PVC H		DPE			
Pipe Material (Circle Offe)	\bigvee s	steel	DI	V	CP	Other
Color (Cirolo Ono)	Clear	Yel	low	Gray	Or	ange
Color (Chese One)	Br	own	Green	Re	d	Other
Turbidity (Circle One)	Clear	Sligh	tly Cloud	<u>y C</u>	loudy	Opaque
Surface Shace (Circle One)	None		Oil			Gasoline
Surface Sheen (Circle One)		Scum		Unkn	own	
Odar (Cirala Ora)	None	Oil	Deca	iying Vege	etation	SO_2
Odor (Circle Oile)	Fue	el <u>S</u>	ewage	Meth	ane	Unknown
Pipe Active (Circle One)	No	Trick	ĺē,	Moderate		Substantial
			7			
E E E E E E E E E E E E E E E E E E E	1.12.418.017	SWAVI20	IN CRAVID	Si di Malan	ON OD M	801300160

IF FLOW IS OBSERVED, WATER SAMPLING MUST BE CONDUCTED TO DETERMINE IF AN ILLICIT DISCHARGE IS PRESENT.

Parameter	Expected Range	Actual Parameter Reading
pH Level*	6.0 - 9.0	
Total Chlorine Level*	< 0.2 mg/L	
Total Copper Level*	< 0.1 mg/L	
Total Phenol Level*	< 0.5 mg/L	
Detergents Level*	< 0.5 mg/L	
Ammonia Level*	< 0.1 mg/L	
Bacteria (E. Coli) Level**	< 235 cfu/100mL	
Water Temperature	-	or

*Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination" **EPA Standard

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID					6		
Date of Last Rainfall			l	0-14-24	121 (0.	12")	
Date Inspection Performed	ł		10	- 19-	-2021		
Name of Inspector	·			TRAS	AAC +	۸	
Receiving Water			Me	nomone	e River	M-6	
M.H. or Outfall (Circle One	e)		M.H	•	(Outal	
Pipe Size					30"	\sim	
Dine Material (Cirola Ora)	<u>, </u>	RCP	CMP		PVC	H	IDPE
Pipe Material (Circle One)	;	Ste	el	DI		VCP	Other
Color (Circle One)		Clear	Yello	W	Gray	O	range
		Bro	own	Gree	n	Red	Other
Turbidity (Circle One)		Clear	Slightly	y Cloud	у	Cloudy	Opaque
Surface Sheen (Cirola One	1	None		Oil			Gasoline
Surface Sheen (Chere One)	S	cum		Unk	nown	
Odan (Cirala Ona)		None	Oil	Deca	iying Ve	getation	SO ₂
Odor (Circle Offe)		Fuel	Sev	vage	Me	thane	Unknown
Pipe Active (Circle One)		No	Trickle		Modera	te	Substantia)
IF FLOW IS OBSERVE	$O_{\rm PA}$	WANDRES	amena	(69)/(U	STABLY (9(0) <u>31</u>)]8	GIVED I (O)
DETERMINE		<u>\\`#!0#(</u> @	<u>IIIMDS(</u> e	li Marke		1242261	•
Parameter		apesed R	ange	Acti	ie Diare	meleret	leading
pH Level*		6.0 - 9.0)		8.3	. <u>.</u>	
Total Chlorine Level*		< 0.2 mg/	L		0.0		
Total Copper Level*		< 0.1 mg/	L		0.0		

Total Phenol Level* < 0.5 mg/L Detergents Level* < 0.5 mg/L 0.0 Ammonia Level* < 0.1 mg/L 0.0 Bacteria (E. Coli) Level** <235 cfu/100mL 100 cfu/100 mL ٩F
 Water Temperature
 76.1
 °F'

 *Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination"
 76.1

**EPA Standard

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID					,	7				
Date of Last Rainfall				10	-14-2	ozi (0	o,1 2 ")			
Date Inspection Performed	l	10-20-2021								
Name of Inspector		TERS + JAM								
Receiving Water		<u>Ki</u> nnickinic River – K-2								
M.H. or Outfall (Circle One)		À	11D			Outfall			
Pipe Size					4' :	x 6'				
Ding Material (Cirola One)		(RCP)	, CM	ЛР	-	PVC	Н	DPE		
Pipe Material (Circle One)			Steel		DI		VCP	Other		
Color (Ciralo Ono)	(Clear	Y	ellow	7	Gray	Or	ange		
Color (Circle One)			Brown		Green		Red	Other		
Turbidity (Circle One)		Clear	Slig	htly (Cloudy		Cloudy	Opaque		
Surface Sheen (Cirola One		None			Oil			Gasoline		
Surface Sheen (Chele One	/		Scum			Unk	nown			
Odor (Cirola One)	\bigcirc	None	Oil		Decay	ing Ve	getation	SO_2		
		Fı	iel !	Sewa	ge	Mei	hane	Unknown		
Pipe Active (Circle One)		No	(Tric	klej_	<u> </u>	/lodera	te	Substantial		
IF FLOW IS OBSERVE), A	VALUE	USAMB	9180	e Mius	()#330 ()	K(0)\$1018(CTED TO		
DETERMINE	10//	<u>NS61141</u>		S(0)	ARCO	<u>aster</u>	IBSIDNI			
Parameter	19 (K	gneerea	Range		Actua	il Para	meter R	eading		
nH evel*		60_	0.0	ł		\$ \$				

pH Level*	6.0-9.0	8.3
Total Chlorine Level*	< 0.2 mg/L	0.1
Total Copper Level*	< 0.1 mg/L	0.0
Total Phenol Level*	< 0.5 mg/L	0.0
Detergents Level*	< 0.5 mg/L	0.2
Ammonia Level*	< 0.1 mg/L	0.0
Bacteria (E. Coli) Level**	<235 cfu/100mL	400 cfu/100 mL
Water Temperature	-	κμ.ο °F

*Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination" **EPA Standard

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID							8			
Date of Last Rainfall					10	>-14	-207	4 (0,1	Ζ")
Date Inspection Performe	đ					10-	-20-	2021		
Name of Inspector						ZN	: + 7	AM		
Receiving Water		•		Å	Kinn	ickini	c Rive	r K2		
M.H. or Outfall (Circle On	e)		(M	.Ph			Outfal	1	
Pipe Size	_		7				72"			
Dine Material (Circle One	\ (ROP		CM	Р		PVC		HE	OPE
ripe Material (Circle One			Steel			DI		VCP		Other
Calma (Cinala Ona)		Clear		Ye	llow		Gray	7	Ora	nge
Color (Circle One)			Brow	n		Gree	n	Red		Other
Turbidity (Circle One)		Clear	e L	Sligh	tly (Cloud	у	Cloudy	y	Opaque
Surface Sheen (Circle One)		None				Oil		. ,	(Gasoline
			Scur	n			Uı	iknown		
Odor (Cirolo Ono)		None	C	Dil		Deca	ying \	/egetatic	m	SO ₂
Ouor (Circle Oile)	[F	uel	S	ewa	ge	М	ethane		Unknown
Pipe Active (Circle One)		No		Frick	le		Mode	rate	(Substantial
		~								
TF FLOW IS OBSERVE	0.00	VAVE D	(osyawa	1120	INC	₩V (I)	NN BO	(CONI)	1.	тед то
DETERMINE	1874	<u> </u>	8(0)))	<u> (1)</u>		<u> </u>	6 8 (SY);	RESER		
Parameter	Ðð	<u>())(()()</u>	lRan	ţe 🛛		Acto	nilla	amelen	Rc	ading
pH Level*		6.0 -	9.0							
Total Chlorine Level*		< 0.2 1	mg/L							
Total Copper Level*		< 0.1 i	mg/L							
Total Phenol Level*		< 0.5 i	mg/L							
Detergents Level*		< 0.5 i	mg/L							
Ammonia Level*		< 0.1 1	ng/L							
Bacteria (E. Coli) Level**	< 2	235 cfu	/100m	L						
Water Temperature		~~						°F		

*Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination" **EPA Standard

NOTES	
WATER PRESENT BUT	
NOT FLOWING, NO	
Sample TAILEN	
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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID						9			
Date of Last Rainfall				10	- 14 -	2021	(0.12")		
Date Inspection Performed	4				16-2	20-20	521		
Name of Inspector					ZRS	: +)	An.		
Receiving Water		Kinnickinic River –K-15							
M.H. or Outfall (Circle On	e)		(N	A.H.			Outfall		
Pipe Size						30"			
Dine Metariel (Circle One)	\ \	RCP	CN	мР		PVC	·	HDPE	
Pipe Material (Circle One)	Ste	el		DI		VCP		Other
Calor (Cirala Ona)		Clear	Y	ellow	r	Gray	7 ()range	
Color (Circle One)		Bro	own		Gree	n	Red	_	Other
Turbidity (Circle One)		Clear	Slig	htly (Cloud	у	Cloudy	(Opaque
Surface Shaen (Cirale One	7	None			Oil			Gase	oline
Surface Sheen (Clicke One	9	Sc	Unknown						
Odor (Cirola Ono)		None	Oil		Deca	iying V	/egetatio	n	SO ₂
		Fuel		Sewa	ge	M	lethane	Ur	nknown
Pipe Active (Circle One)	6	No)	Tric	kle		Mode	rate	Sub	stantial
		**************************************		·····					
IF FLOW IS OBSERVE		WANDERS	AMD	MANG	- MAU	VBH)	(COND)	9(69)39	d to
DETERMINE	UR /	N:2124(0		<u>s(ei</u> i	ARC	DA SA E	inisian	r .	
Parameter	# 35	iperiod Re	inge		-Accie	<u>en de la composition de la co</u>	સામભંભન	Readf	og
pH Level*		6.0 - 9.0)						
Total Chlorine Level*		< 0.2 mg/	L						
Total Copper Level*		< 0.1 mg/	L						
Total Phenol Level*		< 0.5 mg/	<u>[</u>						
Detergents Level*		< 0.5 mg/	Ĩ.	1					

*Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination" **EPA Standard

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WATER	T7L6SGN	C T3	.07
NOT -	FLOWING.	No	SAMPLE
TAKEN			

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID					1	0		
Date of Last Rainfall				10	-14-2	2021 (0.12")	
Date Inspection Performed	d	:			10-2	0-20	21	
Name of Inspector					.R.5 +	MAC		
Receiving Water				Kinni	ickinic	River -	- K-14	
M.H. or Outfall (Circle On	e)			M.H			Outfall	
Pipe Size					****	8"		
Pipe Material (Circle One)		RCR	C	CMP		PVC	Ŀ	IDPE
		\sim	Steel		DI		VCP	Other
Color (Circle One)		Clear		Yellow	r	Gray	O	range
			Brown		Green	1	Red	Other
Turbidity (Circle One)		Clear	SI	ightly (Cloudy		Cloudy	Opaque
Surface Sheen (Circle One	a)	None			Oil			Gasoline
Surface Sheen (Chere Ore			Scum			Unl	nown	
Odor (Circle One)		None	Oil	l	Decay	ing Ve	getation	SO_2
		F	uel	Sewa	ge	Me	thane	Unknown
Pipe Active (Circle One)		No	Tr	ickle	N	Modera	te	Substantial
		\leq				*****		
IF FLOW IS OBSERVE	DA	V#:010	(05%.\())	習慣的位	MAUS		@(0)KID)II	CTED TO
DDIZERNIN			<u>A (#}) (#</u>)	<u>) (* (*)) (</u>	<u>asken</u> i	<u>4632:</u>	<u>1943 NGU </u>	•
Parameter		spected	Reinge		WACGU!	10202	intera (eading
pH Level*	<u> </u>	6.0 -	9.0					
Total Chlorine Level*		<u>< 0.2 r</u>	ng/L		v.			
Total Copper Level*		< 0.1 r	ng/L					
Total Phenol Level*		< 0.5 r	ng/L					
Detergents Level*		< 0.5 r	ng/L					
Ammonia Level*		< 0.1 r	ng/L					
Bacteria (E. Coli) Level**	< ;	235 cfu	/100mL					
Water Tennerature	•	-		5			o F	

 Water Temperature
 °F

 *Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination"
 **EPA Standard

NOTES				
PIPE	NOT	ACTIVE		
				

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID			11	Î	
Date of Last Rainfall		10	,-14-2	021 (0.12")	
Date Inspection Performed			10 - 20	1-2021	
Name of Inspector		5	"PS + .	JAM.	
Receiving Water		Kinnickinic River – <u>K-9</u>			
M.H. or Outfall (Circle One)		M.H.		Qutfall	
Pipe Size			60	25	
Pine Material (Circle One)	RCP)	CMP	Р	VC H	DPE
ripe material (Circle One)	Ste	el	DI	VCP	Other
Color (Circle One)	Clear)	Yellow	v (Gray Or	ange
	Br	own	Green	Red	Other
Turbidity (Circle One)	(Clear)	Slightly	Cloudy	Cloudy	Opaque
Surface Sheen (Cirole One)	None		Oil		Gasoline
Surface Sheen (Chere One)	S S	cum		Unknown	
Odor (Circle One)	None	Oil	Decayi	ng Vegetation	SO_2
	Fuel	Sewa	ige	Methane	Unknown
Pipe Active (Circle One)	No	(Trickl)	M	loderate	Substantial
A DOMESTICK OF CONTRACTOR	N/6. VEN 19 19 19 19	WWWWWWW	NA VIAKSA	28:108.02.01.19187	82 N 21 N 21 N 2 N 21

IF FLOW IS OBSERVED, WATER SAMPLING MUST BE CONDUCTED TO DETERMINE IF AN ILLICIT DISCHARGE IS PRESENT.

Parameter	Dangered (ange	Actual Parameter Reading
pH Level*	6.0 - 9.0	www.j. www.j. **, **
Total Chlorine Level*	< 0.2 mg/L	0.0
Total Copper Level*	< 0.1 mg/L	0.0
Total Phenol Level*	< 0.5 mg/L	0.0
Detergents Level*	< 0.5 mg/L	0.0
Ammonia Level*	< 0.1 mg/L	0.0
Bacteria (E. Coli) Level**	<235 cfu/100mL	0 cfu/100 mL
Water Temperature	**	62.0°F

*Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination" **EPA Standard

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID					1	2			
Date of Last Rainfall				Ę	0-14	- 202	(0.1	Z")	
Date Inspection Performe	d				10 -2	20-20	221		
Name of Inspector				-	tzrs -	t SAN	Λ.		
Receiving Water				Kinr	iickinic	River	– <i>K-3</i>		•
M.H. or Outfall (Circle On	e)		Ν	А.Н.		(Outfall	}	
Pipe Size					4	8"	·····		•
Pipe Material (Circle One)		/RCP)	Cl	MР		PVC		HDPE	
			Steel		DI		VCP		Other
		Clear	Y	ellow	7	Gray	(Drange	
			Brown		Greer	1	Red		Other
Turbidity (Circle One)		Clear	Slig	htly (Cloudy		Cloudy	C)paque
Surface Sheen (Circle One)		None			Oil			Gaso	line
			Scum			Un	known		
Odor (Circle One)		None	Oil		Decay	ing Vo	egetatio.	n S	SO ₂
		Fi	ıel	Sewa	ge	Me	thane	Un	known
Pipe Active (Circle One)	{	NO	Tric	kle	Ν	Modera	ite	Subs	tantial
1999 - 1997 - 199									
IF FLOW IS OBSERVE	D, j	W.V.101	esame	MAX	PMV 1.845	11833	$(0(0)\Sigma(0)$		ото
DEIEBRININE	11:00	<u> </u>	!(@ij\#))	<u> (S(6))</u>	<u> </u>	<u> 2632</u>	<u> 1063 ort</u>		<u></u>
Parameter	2 2	<u>xpeqiei</u>	Range	1	a a cana	18.277	ameter	Result	g
pH Level*		6.0	9.0						
Total Chlorine Level*		< 0.2 r	ng/L	[
Total Copper Level*		< 0.1 r	ng/L						
Total Phenol Level*		< 0.5 r	ng/L						
Detergents Level*		< 0.5 r	ng/L						
Ammonia Level*		< 0.1 n	ng/L						
Bacteria (E. Coli) Level**	<	235 cfu	/100mL	<u> </u>					

 Water Temperature
 • F

 *Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination"

 *EPA Standard

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WATER	PRSSB	מד ז	305	NOT
FLOWING	ND.	SAN	APLE	TAKGN

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID	13				
Date of Last Rainfall		(5	-14-2	021 (0.12")	
Date Inspection Performed		1	0-20.	- 2021	
Name of Inspector		TZRS + JAM			
Receiving Water		Kinnickinic River – K-4			
M.H. or Outfall (Circle One)		M.H.		Outfall	
Pipe Size			4	8"	
Dina Material (Cirale One)	(RCP)	CMP]	PVC H	DPE
Fipe Material (Clicke Olle)	St	leel	DI	VCP	Other
Color (Circle One)	Clear	Yellov	V	Gray Or	ange
	B	rown	Green	Red	Other
Turbidity (Circle One)	Clear	Slightly	Cloudy	Cloudy	Opaque
Surface Sheen (Circle One)	None		Oil		Gasoline
Surface Sheen (Chere One)	S	Scum		Unknown	
Odor (Cirole One)	None	Oil	Decay	ing Vegetation	SO_2
	Fue	1 Sewa	ige	Methane	Unknown
Pipe Active (Circle One)	(No)	Trickle	N	/Ioderate	Substantial
HERE E ARE EN MANY ANY ANY ANY ANY ANY ANY ANY ANY ANY	S VALUE AND S	NY 80 Y 115 10 6 NY	8.86 V 1 67 63	INDIA AND DUA	AND DATE OF A

IF FLOW IS OBSERVED, WATER SAMPLING MUST BE CONDUCTED TO DETERMINE IF AN ILLICIT DISCHARGE IS PRESENT.

and a second	Construction of the second	
Parameter	Dypected Range	Actual Parameter Reading
pH Level*	6.0-9.0	
Total Chlorine Level*	< 0.2 mg/L	
Total Copper Level*	< 0.1 mg/L	
Total Phenol Level*	< 0.5 mg/L	
Detergents Level*	< 0.5 mg/L	
Ammonia Level*	< 0.1 mg/L	
Bacteria (E. Coli) Level**	<235 cfu/100mL	
Water Temperature	-	°F

*Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination" **EPA Standard

 NOTES					
P	IPE	NOT	ACT	IVE	

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID		14								
Date of Last Rainfall		10-14-2021 (0.12")								
Date Inspection Performed	1					10-2	20-26	21		
Name of Inspector						TRES	+ JA	M		
Receiving Water					Kinni	ckinic	River	-K-10)	
M.H. or Outfall (Circle On	e)			()	M.H.			Outfa	11	
Pipe Size						2	48"			
Pipe Material (Circle One)	RCP	Steel	C	MP	DI	PVC	VCP	HI	DPE Other
Color (Circle One)	(Clear	Brow	Ŷ	ellow	Gree	Gray n	Red	Ora	nge Other
Turbidity (Circle One)		Clear	2.0.	Slig	zhily (Cloud	 V	Cloud	v	Opaque
Surface Sheen (Circle One)	None	Scu		2	Oil	Ur	ıknown		Gasoline
Odor (Circle One)		None	uel	Oil	Sewa	Deca ge	ying V M	'egetati ethane	on	SO2 [:] Unknown
Pipe Active (Circle One)		No		Tric	ckle		Moder	ate	\langle	Substantial
IF FLOW IS OBSERVE DETERMINE	225) 112//	WAXDO ANY DO	345%) 4 (c) 11		laina Korii	an an Arcei	ynad Meith	(OON) Noxydd		TED TO
Parameter	- 10 S		((8))	20		Actu	61126	enete		ading
pH Level*		6.0 –	9.0				8	.†		
Total Chlorine Level*		< 0.2 1	ng/L				0.	8*		
Total Copper Level*		< 0.1 r	ng/L				0,	o		
Total Phenol Level*		< 0.5 i	ng/L				о.	0		
Detergents Level*		< 0.5 1	ng/L				0	. o		
Ammonia Level*		< 0.1 r	ng/L				Ċ.	U		
Bacteria (E. Coli) Level**	< ;	235 cfu	/100r	nL			0 4	0/100	mĻ	
Water Temperature							67.6	°F		

*Expected ranges represent readings suggested by the March 2012 memo from WDNR titled "Illicit Discharge Detection Elimination" **EPA Standard

	NOTES						
<	SAMPLE TALLON FROM	~					
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* PERMITTED DISCHARGE (GE. HEALTHCARE - 4855 ELECTRIC AVE)





Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID						15		
Date of Last Rainfall		10-14-2021 (0.12")						
Date Inspection Performed	1				10	-20-20	21	
Name of Inspector					TRRS	+ 341	4	
Receiving Water				Kin	nickin	ic River	- K-9	
M.H. or Outfall (Circle On	e)			M.H			Outfall	
Pipe Size					6	' x 16'		
Dina Matarial (Cirola Ona)	<u>`</u>	RCB	(CMP		PVC	ŀ	IDPE
Pipe Material (Clicie Offe)	<u> </u>	Steel		DI		VCP	Other
Color (Cirole One)		(Clear)		Yellov	V	Gray	0	range
Color (Cricle Olle)			Brown		Gre	en	Red	Other
Turbidity (Circle One)		(Clear)	S	lightly	Cloud	ły	Cloudy	Opaque
Surface Sheen (Cirole One		None			Oil			Gasoline
Surface Sheen (Chere One	1		Scum			Un	known	
Odor (Circle One)		Nong	Oi	1	Dec	aying V	egetation	SO ₂
		Fu	el	Sewa	ige	Me	ethane	Unknown
Pipe Active (Circle One)		No	(Ti	ickly		Modera	ate	Substantial
1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -								
IF FLOW IS OBSERVE		<i>V</i> . (1931)	essaw	1210IN	2000	STERIO	CONDI	(64331)(47,6))=
DETERMINE	199	<u>V:</u> []		<u>)) (støl:</u>	\mathbb{N}	10/////20	COSON	*
Parameter	I s	presied	Rang	8	202 (C)	ualdaa	aneterk	<u>teading</u>
pH Level*		6.0 - 9	9.0			7.9	5	
Total Chlorine Level*		< 0.2 m	ig/L			0.	<u>o</u>	
Total Copper Level*		< 0.1 m	ig/L			0.	0	
Total Phenol Level*		< 0.5 m	ng/L			0.0	0	

Detergents Level*< 0.25 mg/L</th>0.0Ammonia Level*< 0.1 mg/L</td>0.0Bacteria (E. Coli) Level**< 235 cfu/100mL</td>O cfc / /oo m LWater Temperature-66.) °F

*Expected ranges represent maximum readings as used by the City of Milwaukee in their Illicit Discharge Monitoring Program **EPA Standard

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID						16			
Date of Last Rainfall				10	10-14-2021 (0.12")				
Date Inspection Performed	1				10-7	26-2	0Z1		
Name of Inspector			••	T	R5 +	JAAL			
Receiving Water				Kin	iickini	c River	K5		
M.H. or Outfall (Circle On	e)			MID			Outfal	11	
Pipe Size		~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				36"			
Dine Motorial (Circle One		RCP)	CMP		PVC		Ш	OPE
ripe Material (Circle One)		Steel		DI		VCP		Other
Color (Cirola One)		Clear		Yellov	1	Gray		Ora	inge
Color (Chele One)			Brow	n	Gree	n	Red		Other
Turbidity (Circle One)		Clear	4	Slightly	Cloudy	У	Cloud	У	Opaque
Surface Sheen (Circle One	3	None			Oil				Gasoline
Surface Sheen (Circle Olic	2		Scun	n		Un	known		
Odor (Cirole One)		None	C	Dil	Deca	ying V	egetatio	on	SO_2
Odor (Chele One)		Fı	ıel	Sewa	ge	M	ethane		Unknown
Pipe Active (Circle One)		No)	1	l'rickle		Moder	ate		Substantial
									
IF FLOW IS OBSERVE	\mathcal{O}	VAN DE	es au	AD BINO	HAN UN	SIN BD	(0(0)NI)	18(6	THE TO
DETERMINE	11:27		<u>(</u> @))	<u>1083@}</u>	<u>///:(()</u>	94622	<u>(163))</u>	'	
Parameter		queeted	Ran	<u>ze</u>	સંસંધ	au2n	antelei	.	ading
pH Level*		6.0 -	9.0						
Total Chlorine Level*		< 0.2 n	ng/L						
Total Copper Level*		< 0.1 n	ng/L						
Total Phenol Level*		< 0.5 n	ng/L						
Detergents Level*		< 0.25 1	mg/L						
Ammonia Level*		< 0.1 n	ng/L						
Bacteria (E. Coli) Level**	<2	235 cfu/	/100m	L					
Water Temperature							°F		

*Expected ranges represent maximum readings as used by the City of Milwaukee in their Illicit Discharge Monitoring Program **EPA Standard

NOTES					
WAT	ON PRESENT BUT				
NOT	FEOWING NO SAMPLE				
TAIL	2				

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID						17			
Date of Last Rainfall				10	- + I-L -	-2021	(0.12	n)	
Date Inspection Performed	1				10-	20-2	021		
Name of Inspector				,	TRS	5+34	M		
Receiving Water				Kinr	iickini	ic Rive	r K-6		
M.H. or Outfall (Circle One	e)		\leq	4.11.	,		Outfall	I	
Pipe Size	.,,,,					54"			
Dine Material (Circle One)		REP	С	MP		PVC		HDPE	1 1 1
Pipe Material (Circle One))		Steel		DI		VCP		Other
Color (Cirolo Oro)		Clear	Ŋ	ellow	7	Gray	/ (Orange)
Color (Circle Oile)]	Brown		Gree	en	Red		Other
Turbidity (Circle One)		Clear	Sli	ghtly	Cloud	у	Cloudy	1	Opaque
Sumfana Shaan (Cirala Ona		None			Oil			Gas	oline
Surface Sheen (Chele One)		Scum			U	nknown		
Odor (Cirola One)		None	Oil		Deca	aying V	/egetatic	n	SO ₂
		Fu	iel	Sewa	ge	N	lethane	<u> </u>	nknown
Pipe Active (Circle One)	_(No/	Tri	ckle		Mode	rate	Sub	ostantial
		\sim				Ware based Marson			
IF FLOW IS OBSERVE		WAVEDR	esave	IAR(a Mu	STABL	COM	UCH	0.00
DETERMINE	100	<u> (</u>	((()))	<u>163(0] 8</u>	<u>n</u> n:(e	031531	1498196	T .	
Parameter	E	operical	Range		874 Q (661 8 50	RIMATO	Reni	ng
pH Level*		6.0 - 5	9.0						
Total Chlorine Level*		< 0.2 n	ng/L						
Total Copper Level*	·	< 0.1 n	1g/L						*****
Total Phenol Level*		< 0.5 n	ıg/L						
Detergents Level*		< 0.25 r	na/I	1					

 Bacteria (E. Coli) Level**
 < 235 cfu/100mL</td>

 Water Temperature
 °F

 *Expected ranges represent maximum readings as used by the City of Milwaukee in their Illicit Discharge Monitoring Program

< 0.1 mg/L

**EPA Standard

Ammonia Level*

2

	NOTES	
VILLAGE	OUTFALL	PIPE
IS NOT	ACTIVE	

PHOTO INSET 2 PHOTOS

27





77

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Visual Inspection Form For Illegal Connection/Illicit Discharge WPDES Permit No. WI-S065404-2

Outfall ID						18			
Date of Last Rainfall		10-14-2021 (0.12")							
Date Inspection Performe	d				10-20	2-202	1		
Name of Inspector				R	ins .	MAL +	i.		
Receiving Water			L.	Mend	omone	e River	r – M-9		
M.H. or Outfall (Circle On	e)		M	I.H.			Outfal	1	
Pipe Size					42"	, · · · ·			
Pipe Material (Circle One) (RCP Steel	CN	1P	DI	PVC	VCP	HD	PE Other
Color (Circle One)	\langle	Clear	Ye vn	ellow	Gree	Gray n	Red	Orar	nge Other
Turbidity (Circle One)		Clear	Slig	htly (Cloud	y (Cloudy	$\overline{\lambda}$	Opaque
Surface Sheen (Circle One	;)	None Scu	m		Oil	Ur	known		basoline
Odor (Circle One)		None (Fuel	Oil S	Sewa	Deca ge	ying V M	egetatic	on C	SO ₂ Unknown
Pipe Active (Circle One)		No	Tricl	de		Moder	ate	8	ubstantia)
IF FLOW IS OBSERVE DETERMINE	DXAX DE A	VATERSA NTLLICH	MPI NDI	918(0 30941	MM184 AR(0)	50000 016307	(@(0)\11) {{}}}	UCI T.	OT GEI
Parameter	<u> </u>	pected Ran	ge		WaX971	<u>61(26)</u>	ameios	ROS	ding
pH Level*		6.0 - 9.0				7.	6		
Total Chlorine Level*		< 0.2 mg/L				0.	0		
Total Copper Level*		< 0.1 mg/L				0	0		
Total Phenol Level*		< 0.5 mg/L				Ø,	<u>ں</u>		
Detergents Level*	<	< 0.25 mg/L	,			о.	٥	•••••••	
Ammonia Level*		< 0.1 mg/L				0	0		
Bacteria (E. Coli) Level**	< 2	35 cfu/100n	nL			1400	cR/1	00 -	nL
Water Temperature		777			6-	4.6	°F		

 Water Temperature
 64.6
 °F

 * Expected ranges represent maximum readings as used by the City of Milwaukee in their EPA Standard
 **EPA Standard

NOTES					
SAMPUU	TALGN				
		.,,,,			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
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PHOTO INSET 2 PHOTOS





Post-Construction Storm Water Management Inspections

Other BMP Inspection Form Village of West Milwaukee, WI

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Project Identifier: WPDES Bmp Inspections	Inspection Date: 10-13-2021
BMP Location: In Alley off of 53 rd St	BMP Identifier: <u>53rd Street – Permeable Pavers</u>
Code Key	
N/A = Not Applicable NP = Not a Problem	M = Monitor (potential for future problem) WN = Work Needed

BMP DESCRIPTION

<u>,</u> %

Permeable paver system that has a 6" Dia underdrain that connects to a downstream inlet.

FEATURES (fill in as needed)

*,**

Assessment	Code	Comments
Paver Condition	NP	PAULES IN GOOD CONDITION
Debris Buildup on Pavers	WN	SEDIMENT + VERSETATION CLOUDING CENTER PAULO
Water Ponding on Paver Surface	NP	
Underdrain Condition	NP	
¥		

PHOTOGRAPHS

Attach color digital photographs of the site and structural BMPs including a caption describing each photo.

ADDITIONAL COMMENTS

· · · · · · · · · · · · · · · · · · ·	PAVERS ARE	BELOMING	CLOBGED W	nth Sediment	AND	VEGETATION.	PAUGAS
	REQUIRE VA	LUUMING	-			···· ·	
				, .,			
•.							
		· · · · · · ·	·				
*		e tra provincia e e e e e e e e e e e e e e e e e e e	·. · *				

PHOTOS



Pervious Pavement Overview



Pavers



Pavers



Outlet Structure and Pipe



Inlet Casting



Clogged Pavers



Outer Edges of Pavers (Not clogged)



Underdrain Pipe

Other BMP Inspection Form Village of West Milwaukee, WI

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N/A = Not Applicable	M = Monitor (potential for future problem) WN = Work Needed
Code Key	<u></u>
BMP Location: <u>44th St & Burnham St</u>	BMP Identifier: <u>Burnham Stormceptor</u>
Project Identifier: WPDES Bmp Inspection	Inspection Date:

BMP DESCRIPTION

2

Stormceptor that collects flow from storm sewer that flows along Burnham Street

FEATURES (fill in as needed)

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Assessment	Code	Comments
Lid & Frame Condition	NP	
Interior Condition of Structure	NP	
Sediment Accumulation	WN	~35" OF SEDIMENT TREEENT
Inflow Pipe Condition	~~N~	CLEAR DEBRIS FROM INLET P.P.E
Outflow Pipe Condition	NP	

PHOTOGRAPHS

SEE NEXT PAGE

	L. HELL DEP	TU PEA	ULES IS"				_
<u> </u>				~~~~~			
REMONT	- SEDIMENT	FROM S	SYSTGM PM	> IN FRONT	OF IN	LET PIPE.	
CENOVE		than -	SKUCK Pra			<u>~~ 146.</u>	

PHOTOS



Structure Surface



Structure – Inside



Inlet Pipe



Outlet Pipe

Underground Detention Inspection Form Village of West Milwaukee, WI

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- 44

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Project Identifier:WPDES BMP Inspections	Inspection Date: 10-13-2021
BMP Location: West Milwaukee Wal-mart Parking Lot	BMP Identifier: Wal-mart Underground Storage
Code Key	
Alla m biat Applicable Bl	- Manitar (notantial for future problem)

N/A = Not Applicable	M = Monitor (potential for future problem)
NP = Not a Problem	WN = Work Needed

INLET DEVICE

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(神)

Assessment	Code	Comments
Obstruction: vegetation/debris/sediment	NP	
Structural Condition	NP	
Filter Condition	N/A	
Other		

UNDERGROUND VAULT

Assessment	Code	Comments
Sediment/ debris accumulation	NP	
Access hatch condition	NP	
Vault structural condition	NP	
Baffles and/or weir condition	NA	
Access ladder condition	NA	······································
Oil Accumulation	-Martin NP	
Blocked, damaged, or plugged air vents	NP	
Other		

OUTLET DEVICE

Assessment	Code	Comments
Obstruction: vegetation/debris/sediment	NP	
Erosion/undercutting	NP	· · · · · · · · · · · · · · · · · · ·
Joint failure/loss of joint material	NP	
Leaking device	NP	
Control valve operation	N/A	
Emergency bypass condition	Μ	MONITOL WOODY VENETATION THAT COULD CAUSE FUTURE EROSSION OF SPILLWAY
Other		

MISCELLANEOUS

Assessment	Code	Comments
Trash/debris	Ś	TRASH PRESENT NEAR WEST END
Access	NP	
Vandalism	NP	
Odors present	NP	
Signage	N/A	
Other		

PHOTOGRAPHS

Attach color digital photographs of the site and structural BMPs including a caption describing each photo.

ADDITIONAL COMMENTS

Inchet	MH	NORTH	-	1.5"	SEDIMENT	
TMGT	MH	South		1.5*	SEDIMENT	
OUTLET	MH	South		1 11	SEDIMENT	
OUTUET	MH	NORTH		1 **	SEDIMENT	
DEMTH O	OF N	IAT6r	1	ALL	CHAMBERS .	- 46.5"

NO WORK IS REQUIRED OTHER THAN TRASH FICK-UP

PHOTOS











Pollution Prevention Facility Inspections

ROUTINE INSPECTION FORM VILLAGE OF WEST MILWAUKEE PUBLIC WORKS FACILITY

In	spector: Jason J.	Date:	0-22	-2021	
	Potential Pollutant Sources	Yes	No	If No, Describe Location & Action Needed	Initial & Date After Action Is Completed
Α.	Material and waste storage areas are maintained in good condition to minimize discharge of pollutants.	Х			
B.	Any oil leaks or spills present are properly contained by drip pans or absorbents. Absorbents are picked up and properly disposed of in a timely manner.	X			
C.	Containers and above-ground storage tanks are in sound condition (check for corroded or damaged containers, supports, and valves.)	×			
D.	Fueling area and underground storage tanks in good condition.		X	NIA	
E.	Vehicle and equipment maintenance areas in sound condition.	X			
F.	Grounds do not show signs of erosion.	X			
G.	Washwater tanks in good working order.		¥	N/A	

.

ROUTINE INSPECTION FORM VILLAGE OF WEST MILWAUKEE PUBLIC WORKS FACILITY Date: 7-7-2021 Inspector: Jason J. Initial & Date After **Potential Pollutant Sources** Yes No If No, Describe Location & Action Needed Action Is Completed Material and waste storage areas are A. maintained in good condition to minimize discharge of pollutants. B. Any oil leaks or spills present are properly contained by drip pans or absorbents. Absorbents are picked up and properly disposed of in a timely manner. C. Containers and above-ground storage tanks are in sound condition (check for corroded or damaged containers, supports, and valves.) Fueling area and underground D. X NIA storage tanks in good condition. Vehicle and equipment maintenance E. γ areas in sound condition. Grounds do not show signs of F. × erosion. G. Washwater tanks in good working X order.

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ROUTINE INSPECTION FORM VILLAGE OF WEST MILWAUKEE PUBLIC WORKS FACILITY

Inspector: TASON J. Date: 4-30-2021					
	Potential Pollutant Sources	Yes	No	If No, Describe Location & Action Needed	Initial & Date After Action Is Completed
A.	Material and waste storage areas are maintained in good condition to minimize discharge of pollutants.	X			
B.	Any oil leaks or spills present are properly contained by drip pans or absorbents. Absorbents are picked up and properly disposed of in a timely manner.	X			
C.	Containers and above-ground storage tanks are in sound condition (check for corroded or damaged containers, supports, and valves.)	×			
D.	Fueling area and underground storage tanks in good condition.		X	NA	
E.	Vehicle and equipment maintenance areas in sound condition.	X			
F.	Grounds do not show signs of erosion.	X			
G.	Washwater tanks in good working order.		X	NIA	

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ROUTINE INSPECTION FORM VILLAGE OF WEST MILWAUKEE PUBLIC WORKS FACILITY

Inspector: TASAN TANDAM Date: 1-15-2021					
	Potential Pollutant Sources	Yes	No	If No, Describe Location & Action Needed	Initial & Date After Action Is Completed
A.	Material and waste storage areas are maintained in good condition to minimize discharge of pollutants.	X	_		
В.	Any oil leaks or spills present are properly contained by drip pans or absorbents. Absorbents are picked up and properly disposed of in a timely manner.	×			
C.	Containers and above-ground storage tanks are in sound condition (check for corroded or damaged containers, supports, and valves.)	×			
D.	Fueling area and underground storage tanks in good condition.		Х	NIA	
E.	Vehicle and equipment maintenance areas in sound condition.	X			
F.	Grounds do not show signs of erosion.	X			
G.	Washwater tanks in good working order.		X	NIA	

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Updated Stormwater Pollution Prevention Plan (SWPPP) for DPW Yard

STORM WATER POLLUTION PREVENTION PROGRAM

REVISED March 2022



MENOMONEE RIVER GROUP MUNICIPAL STORM WATER DISCHARGE PERMIT WPDES PERMIT NO. WI-S065404-2

GENERAL FACILITY INFORMATION

Name of Facility: Village of West Milwaukee DPW Yard						
Facility Address: 4517 W. Burnham Street						
West Milwaukee, WI 53214						
Facility Contact: James Stenzel						
Title: Department of Public Works Superintendent						
Phone:(414) 645-6238						
Mobile: (414) 651-5893						
Owner: Village of West Milwaukee						
Operator: James Stenzel						
WPDES Permit Information:						
Permit Number: WPDES Permit No. WI-S065404-2						
Initial Date of Coverage: April 1, 2020						
Permit Expiration Date: <u>March 31, 2025</u>						
Number of Storm Water Major Outfalls:18						
Receiving Waters: <u>Menomonee & Kinnickinnic Rivers</u>						
Emergency Contact:						
Name: James Stenzel						
Phone: (414) 645-2151 (Police Department)						

INTRODUCTION AND OBJECTIVES

This storm water pollution prevention plan (SWPPP) covers the operations at the Village of West Milwaukee Department of Public Works Facilities and other municipally owned properties. The plan was developed as required under Part III.E of the Village's original WPDES permit No. WI-S050130-1. The SWPPP has been updated under Part II. G of WPDES permit No. WI-S065404-2. This SWPPP contains the following information:

- 1. Describes the facility(s) and operations;
- 2. Identifies potential sources of storm water pollution on municipally owned properties;
- 3. Identifies and prescribes appropriate "source area control" and "storm water treatment" type best management practices (BMPs) to prevent and reduce contamination of storm water prior to discharge; and
- 4. Recommends appropriate best management practices (BMPs) and an implementation schedule to reduce the discharge of pollutants in storm water runoff.

DEPARTMENT OF PUBLIC WORKS POLLUTION PREVENTION OPERATIONS

The following report discusses an overview of the Village of West Milwaukee's Storm Water Pollution Prevention Program. The report is laid out in the following format:

Section 1	Routine Inspections
Section 2	Street Sweeping and Catch Basin Cleaning
Section 3	Application of Road Salt or Deicer
Section 4	Leaf and Grass Clipping Management
Section 5	Application of Lawn and Garden Fertilizers
Section 6	Pollution Prevention Plan for DPW Yard
Section 7	Education of Municipal Personnel
Section 8	Potential Sources of Pollutants
Section 9	Measures to Reduce Municipal Sources of Contamination

Section 1 – Inspections & Maintenance of Village-Owned Storm Water Facilities

The Village of West Milwaukee owns the following structural storm water management facilities.

- Burnham Street Stormceptor (on the southwest corner of W. Burnham Street and S. 44th Street)
- Walmart Stormwater Management Chamber (4140 W. Greenfield Avenue)
- Porous pavement alley (1423 S. 53rd Street)

The stormceptor and stormwater management chamber will be inspected annually in conjunction with the Illicit Discharge Detection and Elimination (IDDE) outfall screening. Maintenance will be scheduled as needed to maintain pollutant removal operating efficiency. The alley will be sweep weekly from March to November.

Section 2 – Street Sweeping and Catch Basin Cleaning

The Village of West Milwaukee has a street sweeping program which utilizes an air vacuum sweeper. The Village sweeps each street and alley once per week from March to November. The waste from street sweeping is collected and then taken to a waste transfer station and disposed of at the Advanced Waste Emerald Park Landfill in Muskego, WI. Catch basin cleaning in the Village is completed using a vacuum truck once per year in late fall to capture any leaves or yard waste that made its way into the sumps of the catch basins. The waste is temporarily stored in the public works yard for dewatering and then is trucked to a waste transfer station and then eventually disposed of at the Advanced Waste Emerald Park Landfill.

Section 3 – Application of Road Salt or Deicer

The Village of West Milwaukee uses road salt and calcium chloride for roadway deicing to maintain public safety. All salt is stored offsite at the City of West Allis DPW Yard. Village crews pick up the roadway salt at this location prior to spreading.

Section 4 – Leaf and Grass Clipping Management

The Village collects leaf and grass clippings on the 1st and 3rd Mondays of the month (April through November). These collections are taken to be composted at the Advanced Waste Emerald Park Landfill. During non-pick up time residents are encouraged to haul their leaves and grass clippings to the Village's DPW site.

Section 5 – Application of Lawn and Garden Fertilizers

The Village of West Milwaukee uses very little fertilizer applications. Fertilizer is applied for weed control twice per year at municipal buildings, parks, and medians on Miller Park Way (W. National Ave to W. Lincoln Ave), all of which are less than 5 acre sites.

To pursue safer fertilizer applications the Village shall apply fertilizer in the spring and fall seasons only, spilled fertilizer should be promptly cleaned up, and the practice of leaving a buffer strip of unfertilized lawn along ditches, waterways and ponds should be used.

Section 6 – Municipal Garages & Storage Areas

The Village of West Milwaukee's Department of Public Works Yard is located behind the Milwaukee Fire Department Engine House 33 on W. Burnham Street. Access to the facility is obtained via a shared driveway with the fire station facility. The DPW facility's address and contact information are:

4517 W. Burnham St. West Milwaukee, WI 53219 James Stenzel – Superintendent of Public Works Main Phone (414) 645 – 6238 Mobile Phone (414) 645 – 5893

The DPW facility serves as a staging and storage area for residential yard waste, and equipment and materials used for Village operations. The entire DPW facility is paved.

Structures located at the DPW facility consist of one building that serves as an office and lunchroom for personnel, a garage for storage and maintenance of DPW vehicles, and a storage area for liquid chemicals. It also contains an area designated for light maintenance and washing of vehicles, such as police cars, and equipment. Detergents used for washing are phosphate-free and biodegradable. Liquid chemicals stored inside the DPW garage include anti-freeze and motor oil, which are securely stored in covered drums. Since all vehicles are stored within the garage, chemicals could be contained in the event of a spill. The floor drains within the garage are connected to the sanitary sewer system, while the roof drains of the building are connected to the storm sewer system or discharge to splash blocks at grade along the exterior of the building.

Outdoor uncovered operations include a composting area, scrap piping material storage, aggregate piles, a dewatering debris pile collected by the street sweeper, and other miscellaneous equipment and materials storage. The sweeper debris remains in the uncovered pile until enough material is collected, after which it is hauled to the Advanced Waste Emerald Park landfill in Muskego for disposal. The facility no longer

stores pesticides or herbicides on-site. All fuel required for vehicle operation is obtained from the West Allis DPW yard through an intergovernmental agreement. The solid waste that is collected on-site is also disposed of at the Advanced Waste Emerald Park Landfill. The DPW yard drains to various low-points in the yard via catch basins. Ultimately the system discharges directly to the Kinnickinnic River via storm sewer outfall 12 southeast of the DPW facility.

Section 7 – Education of Municipal Personnel

The following efforts shall be completed annually by the Village of West Milwaukee to keep all municipal personnel educated on storm water management issues and regulations in place:

- 1. New employees will receive initial training in storm water pollution prevention prior to beginning their work assignments. Thereafter, training is provided at the quarterly safety meeting attended by facility employees. The training program shall address the following topics:
 - a. Spill Prevention and Response identify potential spill areas and drainage routes, how to report spills, proper material handling procedures, and how to implement the facility's spill response procedures.
 - b. Good Housekeeping instruction on proper clean up frequencies of work areas to prevent storm water contamination, and location and proper usage of housekeeping equipment.
 - c. Material Management Practices instruction on maintaining materials in an organized manner, location and markings of toxic and hazardous substances, and proper and safe handling procedures for toxic and hazardous substances.
- 2. Regular briefings on the progress of storm water programs, policies and procedures relating to storm water, storm water regulations will given by the Village Engineer at Village Board Meetings and Staff Meetings.
- 3. Staff will be encouraged to attend area training and education sessions on stormwater-related topics such as erosion control techniques and proper winter salting applications.
- 4. Current storm water information will be made available to staff through staff meetings and internal email.

Section 8 – Potential Sources of Pollutants

Attached Figure 1 presents a site map of the Village's DPW facility showing the following features:

- 1. How storm water drains on, through and from the facility to groundwater, surface water or wetlands
- 2. The facility property boundaries;
- 3. A depiction of the storm drainage collection and disposal system including all surface and subsurface conveyances;
- 4. Any secondary containment structures;
- 5. The location of all outfalls that discharge channelized flow to surface water, ground water or wetlands, including outfalls recognized as permitted outfalls under another WPDES permit, numbered for reference;
- 6. The drainage area boundary for each outfall
- 7. The surface area in acres draining to each outfall, including the percentage that is impervious such as paved, roofed or highly compacted soil, and the percentage that is pervious such as grassy areas and woods;

- 8. Existing structural storm water controls;
- 9. The name and location of receiving waters; and
- 10. The location of activities and materials that have the potential to contaminate storm water.

The following have been identified as potential sources of storm water contamination:

- 1. Storage and maintenance areas for material handling equipment;
- 2. Access roads/driveways;
- 3. Street sweeping debris and yard waste collection piles;
- 4. Vehicle maintenance and cleaning areas;
- 5. Any other areas capable of contaminating storm water runoff.

Section 9 – Measures to Reduce Municipal Sources of Contamination

To reduce municipal sources of contamination the following actions will be implemented:

- 1. Source Area Controls to the maximum extent practicable, and to the extent it is cost effective, the use of source area control best management practices designed to prevent storm water from becoming contaminated will be used. Some examples of source area controls are as follows:
 - a. Erosion Control Measures areas that are prone to soil erosion are protected to keep soil out of the storm water discharge.
 - b. Preventive Maintenance regular inspection, testing, and cleaning of municipal equipment and operational systems. (Examples: fuel pumps, storage tanks for waste fluids, structural controls, etc.)
 - c. Quarterly Inspection of the DPW facility for possible pollutant contamination.
 - d. Sweep the DPW yard monthly to prevent possible contaminants from draining into the storm sewer system.
 - e. The Village will add inlet baskets to the inlets in the DPW yard to help reduce contaminants leaving the site
- 2. Best Management Practices (BMPs) The Village-owned BMPs identified under Section 1 will continue to be inspected and maintained.

RECORD KEEPING AND REPORTING

All reports and records will be retained for a minimum of three years and made available to the WDNR upon request.

