

City of Appleton

100 North Appleton Street Appleton, WI 54911-4799 www.appleton.org

Meeting Agenda - Final Utilities Committee

Tuesday, March 9, 2021	5:00 PM	Council Chambers, 6th Floor

- 1. Call meeting to order
- 2. Roll call of membership
- 3. Approval of minutes from previous meeting

21-0196 Approval of the February 9, 2021 Utilities Committee Meeting minutes.

<u>Attachments:</u> February 9, 2021 Utilities Committee Meeting minutes.pdf

4. Public Hearings/Appearances

5. Action Items

21-0228	Approve 2020 Annual Stormwater Report to WDNR.
	Attachments: 2020 MS4 Annual Report for UC w attachments.pdf
21-0238	Award of 2021D Stormwater Consulting Services Single Source Contract for Lightning Drive Stream Crossings and Stormwater Practices Final Design to raSmith in an amount not to exceed \$107,000.
	Attachments: 2021D Lightning Final Design Contract Award Memo to raSmith 03-09-2021 FIN
<u>21-0239</u>	Award of Single Source Contract with NES Ecological Services for 2021 Wetland Delineation Services in an amount not to exceed \$35,639.70
	<u>Attachments:</u> 2021E Wetland Delineations Contract Award Memo 03-09-2021 Util Cmte Final.
<u>21-0240</u>	Award Single Source Unit K-21 Native Landscape Management Contract to Applied Ecological Services, Inc., in an amount not to exceed \$256,680.

Attachments: K-21 contract award util memo 03-09-2021 Final.pdf

21-0262 Award Contract Amendment #1 to AECOM for the America's Water Infrastructure Act Project in the amount of \$22,788.

Attachments: utilities memo - AWIA RRA Memo 03-03-21 (002).pdf

6. Information Items

<u>21-0229</u> Discuss Pollution Prevention Program as required by the stormwater permit.

Attachments: 2021 Pollution Prevention Program presentation .pdf

2021 Pollution Prevention Program with attachments.pdf

21-0197 Monthly Reports for January 2021:

- Water Distribution and Meter Team Monthly Report

Attachments: Water Main Breaks January 2021.pdf

7. Adjournment

Notice is hereby given that a quorum of the Common Council may be present during this meeting, although no Council action will be taken.

Reasonable Accommodations for Persons with Disabilities will be made upon Request and if Feasible.

For questions on the agenda, contact Chris Shaw at 920-832-5945 or Paula Vandehey at 920-832-6474.



City of Appleton

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Meeting Minutes - Final Utilities Committee

Tuesday, February 9, 2021

5:00 PM

Council Chambers, 6th Floor

1. Call meeting to order

Chairperson Meltzer called the Utilities Committee Meeting to order at 5:00 p.m.

2. Roll call of membership

Present: 5 - Meltzer, Fenton, Otis, Prohaska and Smith

3. Approval of minutes from previous meeting

21-0139 Approval of the January 26, 2021 Utilities Committee Meeting minutes.

Attachments: January 26, 2021 Utilities Committee Meeting Minutes.pdf

Smith moved, seconded by Prohaska, that the Minutes be approved. Roll Call.

Motion carried by the following vote:

Aye: 5 - Meltzer, Fenton, Otis, Prohaska and Smith

4. Public Hearings/Appearances

5. Action Items

21-0143

Award sole source purchase of Water Plant High Service Pump #5 Variable Frequency Drive (VFD) equipment and commissioning services to Werner Electric in the amount of \$49,794.

Attachments: 210204 UC Memo High Lift Service Pump 5 VFD.pdf

Prohaska moved, seconded by Fenton, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

Aye: 5 - Meltzer, Fenton, Otis, Prohaska and Smith

6. Information Items

7. Adjournment

Smith moved, seconded by Prohaska, that the Utilities Committee Meeting be adjourned at 5:07 p.m.. Roll Call. Motion carried by the following vote:

Aye: 5 - Meltzer, Fenton, Otis, Prohaska and Smith

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.**

	Ren	ortir	no In	forn	natio
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Will you be completing the Annual Report or other submittal type?

Annual Report Other

Project Name: City of Appleton 2020 Annual Report

County: Outagamie

Municipality: Appleton City

Permit Number: S050075

Facility Number: 31098

Reporting Year: 2020

Is this submittal also satisfying an Urban Nonpoint Source Grant funded deliverable? O Yes O 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 (S050075-03 General Permit and S058416-04 Madison Area Group Permit shall have a written storm water management program that describes in detail how the permittee intends to comply with the permit requirements for each minimum control measure. Updated programs are due to the department by March 31, 2021.)
 - 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 (S050075-03 General Permit and S058416-04 Madison Area Group Permit 2.6.1 - inventory due to the department by March 31, 2021.)
 - Municipal Storm Water Management Facility (BMP) Inspection and Maintenance Plan (\$050075-03 General Permit and \$058416-04 Madison Area Group Permit 2.6.2 document due to the department by March 31, 2021.)
 - 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.

Note : Compliance items must be submitted using	the Attachments tab.		
Municipality Information			
Name of Municipality	Appleton City		
Facility ID # or (FIN):	31098		
Updated Information:	☐ Check to update	mailing address information	
Mailing Address:	100 North Appleto	on Street	
Mailing Address 2:			
City:	Appleton		
State:	Wisconsin		
Zip Code:	54911	XXXXX Or XXXXX-XXXX	
Primary Municipal Contact Person	(Authorized Renn	esentative for MSA Permit)	
charged with compliance and oversight of permit documents to the Department (i.e. Engineer).	e., Mayor, Municipa		•
Select to <i>create new</i> primary contact			
First Name:	Paula		
Last Name:	Vandehey		
✓ Select to <i>update</i> current contact infor	mation		
Title:	Public Works Dir		
Mailing Address:	100 N Appleton St	reet	
Mailing Address 2:			
City:	Appleton		
State:	<u>WI</u>		
Zip Code:	54911	xxxxx or xxxxx-xxxx	
Phone Number:	920-832-6474	Ext: xxx-xxx-xxxx	
Email:	paula.vandehey@	appleton.org	

☐ I&E Program

Additional Contacts Information (Optional)

Individual with responsibility for: (Check all that apply)		on Program		
First Name:	Nathan			
Last Name:	Loper			
Title:	Dep Dir Operations	S		
Mailing Address:	100 N Appleton Sti	reet		
Mailing Address 2:				
City:	Appleton			
State:	<u>WI</u>			
Zip Code:	54911	xxxxx or xxxxx-xxxx		
Phone Number:	920-832-5580	Ext:	xxx-xxx-xxxx	
Email:	Nathan.Loper@ap	pleton.org		
1. Does the municipality rely on another end of Yes No ✓ Public Education and Outreach Northeast Willicit Discharge Detection and Elimination OM ✓ Construction Site Pollutant Control raSmith and Pollution Prevention 2. Has there been any changes to the municipality has added or dropped control Yes No	isconsin Stormwater Cor st Wisconsin Stormwater NNI Associates ad Brown and Caldwell raSmith and Brown and	nsortium and Fox Wolf Consortium and Fox V Caldwell tion in group effort	Watershed Alliance	ance (NEWSC and FWWA)
Missing Information				

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7.

Form 3400-224 (08/19)

Minimum Control Measures- Section 1: Complete

6/10/2020

1. Public Education and Outreach

Event Start Date

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.

project/Event Name DPW News		etter			
Delivery Mechanism	Distribution of	print media		*Active	
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)	
✓ Illicit discharge detection and every service was to a service was tendered was	sposal/pet ng cide and nent nstruction	✓ General Public Public Employees ✓ Residents Businesses Contractors Developers Industries Other	101 +	○ Yes ● No	
Event Start Date	1/2/2020				
Project/Event Name	One -on- One	communication			
Delivery Mechanism	<u>Other</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 managem Residential infiltration Construction sites and post-costorm water management Pollution prevention Green infrastructure/low impadevelopment Other:	sposal/pet ng cide and nent nstruction	✓ General Public Public Employees Residents Businesses Contractors Developers Industries Other	11-50	○ Yes ● No	

Event Start Date	1/1/2020			
Project/Event Name	Stormwater Ut	cility Pledge Supporter and Ra	ain Barrel Credits	
Delivery Mechanism	<u>Other</u>	,		*Active
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
✓ Illicit discharge detection and of Household hazardous waste diswaste management/vehicle washin ✓ Yard waste management/pest fertilizer application ☐ Stream and shoreline managem ✓ Residential infiltration ☐ Construction sites and post-costorm water management ☐ Pollution prevention ☐ Green infrastructure/low impadevelopment ☐ Other:	isposal/pet ng icide and nent nstruction	 ✓ General Public ☐ Public Employees ✓ Residents ☐ Businesses ☐ Contractors ☐ Developers ☐ Industries ☐ Other 	11-50	○ Yes ● No
	- (- (
Event Start Date	5/1/2020			
Project/Event Name	NEWSC poster	s at various City Parks		
Delivery Mechanism	<u>Signage</u>			*Active
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
☐ Illicit discharge detection and derection waste discussed in waste management/vehicle washing. ✓ Yard waste management/pest fertilizer application. ☐ Stream and shoreline management. ✓ Residential infiltration. ☐ Construction sites and post-constorm water management. ☐ Pollution prevention. ☐ Green infrastructure/low imparts development. ☐ Other:	isposal/pet ng icide and nent nstruction	✓ General Public ✓ Public Employees ✓ Residents ☐ Businesses ☐ Contractors ☐ Developers ☐ Industries ☐ Other	<u>51-100</u>	Yes No
Event Start Date	1/2/2020			
Project/Event Name		ence Planning and sponsorsh	in	
Delivery Mechanism	Educational act			*Active
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
☐ Illicit discharge detection and discharge Household hazardous waste diswaste management/vehicle washin	isposal/pet	☐ General Public ☑ Public Employees ☐ Residents	101 +	● Yes ○ No

Yard waste management/pesticide and fertilizer application		☐ Businesses ☐ Contractors		
Stream and shoreline manage	ement	✓ Developers		
Residential infiltration		☐ Industries		
✓ Construction sites and post-	construction	Other		
storm water management				
Pollution prevention				
Green infrastructure/low imdevelopment	pact			
Other:				
Event Start Date	1/2/2020			
Project/Event Name	NEWSC School	ol presentations		
Delivery Mechanism	Targeted grou	ıp training*		*Active
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
☐ Illicit discharge detection and elimination		✓ General Public	<u>51-100</u>	● Yes ○ No
✓ Household hazardous waste	•	☐ Public Employees		
waste management/vehicle was	=	✓ Residents		
☐ Yard waste management/pe	sticide and	Businesses		
fertilizer application	om ont	☐ Contractors		
Stream and shoreline manage	ement	Developers		
Residential infiltration		☐ Industries		
Construction sites and post-	construction	Other		
Construction sites and post-ostorm water management	construction			
Construction sites and post-ostorm water management Pollution prevention				
Construction sites and post-ostorm water management				
Construction sites and post-ostorm water management Pollution prevention Green infrastructure/low im				
Construction sites and post-of-of-of-of-of-of-of-of-of-of-of-of-of-				
Construction sites and post-of-of-of-of-of-of-of-of-of-of-of-of-of-				
Construction sites and post-of-storm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date	pact 1/2/2020	Other		
Construction sites and post-of-storm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name	pact 1/2/2020 NEWSC exhib	Other		*Active
Construction sites and post-of-storm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date	pact 1/2/2020	Other		*Active
Construction sites and post-of-storm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name	pact 1/2/2020 NEWSC exhib	iting booth* Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
Construction sites and post-of-storm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name Delivery Mechanism Topics Covered Illicit discharge detection and	1/2/2020 NEWSC exhib Informational	iting booth*		Regional Effort
Construction sites and post-ostorm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name Delivery Mechanism Topics Covered Illicit discharge detection and Household hazardous waste	1/2/2020 NEWSC exhib Informational d elimination disposal/pet	iting booth* Target Audience General Public Public Employees	Reached (Optional)	Regional Effort (Optional)
Construction sites and post-ostorm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name Delivery Mechanism Topics Covered Illicit discharge detection and Household hazardous waste waste management/vehicle was	1/2/2020 NEWSC exhib Informational d elimination disposal/pet hing	iting booth* Target Audience General Public Public Employees Residents	Reached (Optional)	Regional Effort (Optional)
Construction sites and post-ostorm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name Delivery Mechanism Topics Covered Illicit discharge detection and Household hazardous waste waste management/vehicle wasley Yard waste management/pe	1/2/2020 NEWSC exhib Informational d elimination disposal/pet hing	iting booth* Target Audience General Public Public Employees	Reached (Optional)	Regional Effort (Optional)
Construction sites and post-ostorm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name Delivery Mechanism Topics Covered Illicit discharge detection and Household hazardous waste waste management/vehicle waslefertilizer application	1/2/2020 NEWSC exhib Informational d elimination disposal/pet hing esticide and	iting booth* Target Audience General Public Public Employees Residents	Reached (Optional)	Regional Effort (Optional)
Construction sites and post-ostorm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name Delivery Mechanism Topics Covered Illicit discharge detection and Household hazardous waste waste management/vehicle wasley Yard waste management/pefertilizer application Stream and shoreline management	1/2/2020 NEWSC exhib Informational d elimination disposal/pet hing esticide and	iting booth* Target Audience General Public Public Employees Residents Businesses Contractors Developers	Reached (Optional)	Regional Effort (Optional)
Construction sites and post-ostorm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name Delivery Mechanism Topics Covered Illicit discharge detection and waste management/vehicle waste management/vehicle waste management/pefertilizer application Stream and shoreline management Residential infiltration	1/2/2020 NEWSC exhibe Informational delimination disposal/pet hing esticide and ement	iting booth* Target Audience General Public Public Employees Residents Businesses Contractors	Reached (Optional)	Regional Effort (Optional)
Construction sites and post-ostorm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name Delivery Mechanism Topics Covered Illicit discharge detection and Household hazardous waste waste management/vehicle wasley Yard waste management/pefertilizer application Stream and shoreline management	1/2/2020 NEWSC exhibe Informational delimination disposal/pet hing esticide and ement	iting booth* Target Audience General Public Public Employees Residents Businesses Contractors Developers	Reached (Optional)	Regional Effort (Optional)
Construction sites and post-ostorm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name Delivery Mechanism Topics Covered Illicit discharge detection and Household hazardous waste waste management/vehicle wasl Yard waste management/pefertilizer application Stream and shoreline management Residential infiltration Construction sites and post-ost-ost-ost-ost-ost-ost-ost-ost-ost-	1/2/2020 NEWSC exhibe Informational delimination disposal/pet hing esticide and ement	iting booth* Target Audience General Public Public Employees Residents Businesses Contractors Developers Industries	Reached (Optional)	Regional Effort (Optional)
Construction sites and post-ostorm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name Delivery Mechanism Fopics Covered Illicit discharge detection and waste management/vehicle waste waste management/vehicle waste waste management/pefertilizer application Stream and shoreline management infiltration Construction sites and post-ostorm water management Pollution prevention Green infrastructure/low im	1/2/2020 NEWSC exhibe Informational delimination disposal/pet hing esticide and ement construction	iting booth* Target Audience General Public Public Employees Residents Businesses Contractors Developers Industries	Reached (Optional)	Regional Effort (Optional)
Construction sites and post-ostorm water management Pollution prevention Green infrastructure/low imdevelopment Other: Event Start Date Project/Event Name Delivery Mechanism Topics Covered Illicit discharge detection and Household hazardous waste waste management/vehicle waste waste management/pefertilizer application Stream and shoreline management Residential infiltration Construction sites and post-ostorm water management Pollution prevention	1/2/2020 NEWSC exhibe Informational delimination disposal/pet hing esticide and ement construction	iting booth* Target Audience General Public Public Employees Residents Businesses Contractors Developers Industries	Reached (Optional)	Regional Effort (Optional)

					\neg	
Event Start Date	1/2/2020					
Project/Event Name	Development	Meetings and Plan Review				
Delivery Mechanism	<u>Other</u>			*Active		
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)		
☐ Illicit discharge detection and	elimination	☐ General Public	11-50	○Yes ● No	7	
☐ Household hazardous waste d	isposal/pet	☐ Public Employees				
waste management/vehicle washi		Residents				
☐ Yard waste management/pest	icide and	✓ Businesses				
fertilizer application		✓ Contractors				
Stream and shoreline manager	nent	☑ Developers				
Residential infiltration		☐ Industries				
Construction sites and post-co storm water management	nstruction	Other				
☐ Pollution prevention						
✓ Green infrastructure/low impa development	act					
Other:						
and NEWSC. Summary of	completed	d activities and NEW	SC reports attached	d.		
Missing Information						
		Do not clos	e your work until you S a	AVE		
Note: For the minimum control me	asures vou mi				=	
Total the minimum control me	asarcs, you mu	ist iiii out aii questions iii st	Caons I anough /	Form 3400-2	24 (09	
Minimum Control Measu	ures - S <u>ecti</u>	on 2 : Complete				
2. Public Involvement an		-				
a. <u>Permit Activities</u> . Comp	lete the fol	lowing information	on Public Involveme	ent and Participation	วท	
Activities related to storm		•		•		
activities were conveyed t		•		•		
Event Start Date		and the man	2 _ T C to dad dad!		٦	
	2/20/2020					
Project/Event Name	Utilities Co	mmittee meeting and (Council meeting			
Delivery Mechanism	Governmen	nt Event (Public Hearing	g, Council Meeting, et	<u>c)</u>		
				Regional Effort		
Topics Covered	Tar	rgat Alidianca	Paschad (Ontional)	(Ontional)		

Reached (Optional)

<u>11-50</u>

(Optional)

✓ MS4 Annual Report ☐ Storm Water Management Pr ☐ Storm Water related ordinand ☐ Other:	_	General Public Dublic Employees Residents Businesses Contractors Developers Industries Other		○ Yes ● No		
Event Start Date	4/23/20)20				
Project/Event Name	City-wid	de plan update - adjace	nt communities meeti	ng with McMahon		
Delivery Mechanism	Other					
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)		
	•	☐ General Public ☐ Public Employees ☐ Residents ☐ Businesses ☐ Contractors ☐ Developers ☐ Industries ☑ Other	1 - 10	○ Yes ● No		
Event Start Date	1/9/202	20				
Project/Event Name		Control Ordinance Update				
Delivery Mechanism		nent Event (Public Hearing, Council Meeting, etc)				
<u> </u>	Governi	Estimated People Regional Effort				
Topics Covered		Target Audience	Reached (Optional)	(Optional)		
 MS4 Annual Report Storm Water Management Pr ✓ Storm Water related ordinand Other: 	_	✓ General Public ☐ Public Employees ☐ Residents ☐ Businesses ✓ Contractors ✓ Developers ☐ Industries ☐ Other	11-50	○ Yes ● No		
	Event Start Date 2/20/20					
Event Start Date	2/20/20)20				
		020 scharge Ordinance Upd	ate			
Project/Event Name	Illicit Di			etc)		
Event Start Date Project/Event Name Delivery Mechanism Topics Covered	Illicit Di	scharge Ordinance Upd		etc) Regional Effort (Optional)		

Event Start Date 3/26/20		020				
Project/Event Name	Post-Cor	nstruction Stormwater Management Ordinance				
Delivery Mechanism		nent Event (Public Heari	_			
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)		
	_	✓ General Public ☐ Public Employees ☐ Residents ☐ Businesses ☐ Contractors ✓ Developers ☐ Industries ☐ Other	11-50	○ Yes ● No		
Event Start Date	9/17/20	20				
Project/Event Name	MS4 Per	mit Overview (repeat 2	019 presentation)			
Delivery Mechanism	Governn	nent Event (Public Heari	ng, Council Meeting,	etc)		
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)		
 MS4 Annual Report ✓ Storm Water Management Pro Storm Water related ordinance Other: 	_	✓ General Public ☐ Public Employees ✓ Residents ☐ Businesses ☐ Contractors ☐ Developers ☐ Industries ☐ Other	11-50	○ Yes ● No		
Event Start Date	1/9/202	0				
Project/Event Name		Control Program Update	<u> </u>			
Delivery Mechanism		nent Event (Public Heari		etc)		
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)		
	_	General Public Dublic Employees Residents Businesses Contractors Developers Industries Other	11-50	○ Yes ● No		
Event Start Date	10/8/20	20				
Project/Event Name	Post-Co	nstruction Program Upd	ate			
Delivery Mechanism	Governn	nent Event (Public Heari	ng, Council Meeting,	etc)		
Topics Covered		Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)		
☐ MS4 Annual Report ✓ Storm Water Management Pro	gram	General Public Public Employees	11-50	○ Yes ● No		

Storm Water related ordin Other:	Residents Businesses Contractors Developers Industries Other			
Activities related to sto	. Complete the following infor	Mechanism that bes	t describes how vol	•
Event Start Date	ed to your population. Use the 8/22/2020	e Add Event to add at	aditional entries.	
Project/Event Name	FWWA River Cleanup			
Delivery Mechanism	Clean up event			
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)	
Volunteer Opportunity	✓ General Public	101 +	● Yes ○ No	
	☐ Public Employees			
	✓ Residents			
	✓ Businesses			
	☐ Contractors			
	☐ Developers			
	Industries			
	Other			
to 250 characters and, Public involvement and p	Public Involvement and Particology Participation program included value and the FWWA River Cleanus	mation on the attachr	ments page. e and Council	
Missing Information				
Note: For the minimum contro	Do not ol measures, you must fill out all question	t <mark>close</mark> your work until you	SAVE.	
Total Till Illimination Contro		13 III Sections 1 till ough /	Form 3400	-224 (09/
Minimum Control Me	easures - Section 3: Complet	e		
3. Illicit Discharge De	tection and Elimination			
a. How many total ou	tfalls does the municipality ha	ve? 324	☐ Unsure	
•	did the municipality evaluate soing field screening program?	. .	☐ Unsure	
From the municipal were confirmed illic	ity's routine screening, how moit discharges?	nany 11	□Unsure	

d.	How many illicit discharge complaints did the municipality receive?	ne 1	13	☐Unsure
e.		vere g)	☐Unsure
f.	How many of the identified illicit discharges municipality eliminate in the reporting year routine screening and complaints)? (If the sum of 3.c. and 3.e. does not equal 3.f., please explain below.)	-	7	□Unsure
g.	How many of the following enforcement mouse to enforce its illicit discharge ordinance enter the number of each used in the report	? Check all that ting year.		☐ Unsure
	✓ Verbal Warning	2		
	✓ Written Warning (including email)	2		
	✓ Notice of Violation	14		
	✓ Civil Penalty/ Citation	0		
O re	onductivity from salt and hospital HVAC hard to eli utfalls unresolved will be screened again in 2021. I eview 2021. Aissing Information	•		
Vo	te: For the minimum control measures, you must fill out all o	Do not close your vouestions	•	E. Form 3400-224
Ν	Minimum Control Measures - Section 4: Co	mplete		101111 3400 224
4	. Construction Site Pollutant Control			
a.	How many total construction sites with one of land disturbing construction activity were point in the reporting year?		9	□ Unsure
b.	How many construction sites with one acre land disturbing construction activity did the issue permits for in the reporting year?		13	□ Unsure
с.	How many erosion control inspections did t complete in the reporting year?	he municipality	678	□Unsure
d.	What types of enforcement actions does the to compel compliance with the regulatory n			☐ Unsure

	■ No Authority			
	✓ Verbal Warning	187		
	✓ Written Warning (including email)	28		
	✓ Notice of Violation	8		
	✓ Civil Penalty/ Citation	1		
	✓ Stop Work Order	0		
	☐ Forfeiture of Deposit			
	☐ Other - Describe below			
	Brief explanation on Construction Site Polluta Unsure for any questions above, justify the red and/or attach supplemental information on the ew Erosion Control Inspector started April 6, 2020. A spections. Ordinance and program update done in 20	asoning. Limit re ne attachments pproximately 8 w	esponse to 250 page.	characters
n.	lissing Information			
	Do	o not close your wo	rk until you SAVE.	
	to. For the minimum control masser was considered fill and all and		1	
No	te: For the minimum control measures, you must fill out all que	estions in sections 1 th	nrough 7	
			nrough 7	Form 3400-224 (09/20)
N	Inimum Control Measures - Section 5: Comp. Post-Construction Storm Water Managemen	olete	nrough 7	Form 3400-224 (09/20)
5	Inimum Control Measures - Section 5: Comp	olete	nrough 7	Form 3400-224 (09/20)
5	Inimum Control Measures - Section 5: Comp Post-Construction Storm Water Managemen	olete it oproval ? ovide storm water lands, infiltration		
5	Ainimum Control Measures - Section 5: Comp Post-Construction Storm Water Managemen How many sites with new structural storm wa management facilities* have received local ap *Engineered and constructed systems that are designed to pro- quality control such as wet detention ponds, constructed wetl	olete it oproval ? ovide storm water lands, infiltration ops, etc. storm water		
5	Ainimum Control Measures - Section 5: Composite Construction Storm Water Managemen How many sites with new structural storm was management facilities* have received local ap *Engineered and constructed systems that are designed to proquality control such as wet detention ponds, constructed wetl basins, grassed swales, permeable pavement, catch basin sum Does the municipality utilize privately owned	olete It Iter Oproval ? Ovide storm water Iands, infiltration Ips, etc. Storm water On analysis? Er Eeporting year ?	8	☐ Unsure
5 a. b.	Ainimum Control Measures - Section 5: Composer Construction Storm Water Management How many sites with new structural storm was management facilities* have received local ap *Engineered and constructed systems that are designed to proquality control such as wet detention ponds, constructed weth basins, grassed swales, permeable pavement, catch basin sum Does the municipality utilize privately owned management facilities in its pollutant reduction. If Yes, How many privately owned storm water management facilities were inspected in the real Inspections completed by private land owners should be incluminated. What types of enforcement actions does the real to compel compliance with the regulatory means apply and enter the number of each used in the No Authority Verbal Warning	plete Inter In	8 • Yes O No 4 ve available k all that	☐ Unsure
b .	Post-Construction Storm Water Management How many sites with new structural storm was management facilities* have received local ap *Engineered and constructed systems that are designed to proquality control such as wet detention ponds, constructed wetle basins, grassed swales, permeable pavement, catch basin sum Does the municipality utilize privately owned management facilities in its pollutant reduction. If Yes, How many privately owned storm water management facilities were inspected in the real Inspections completed by private land owners should be inclunumber. What types of enforcement actions does the real to compel compliance with the regulatory mean apply and enter the number of each used in the Royal No Authority	plete It Iter Inter	8 • Yes O No 4 ve available k all that	☐ Unsure ☐ Unsure ☐ Unsure

	✓ Civil Penalty/ Citation	0	
	✓ Forfeiture of Deposit	0	
	✓ Complete Maintenance	0	
	☑ Bill Responsible Party	0	
	☐ Other - Describe below		
e.	Brief explanation on Post-Construction Stor marked 'Unsure' on any questions above, just 250 characters and/or attach supplemental	stify your reasoning.	Limit your response to
	rivate site inspections limited due to staff time and ther priorities were training new ESC Inspector and		
N	Aissing Information		
	_		
		Do not close your work (until you SAVE.
No	te: For the minimum control measures, you must fill out all c	questions in sections 1 thro	
Λ	Ainimum Control Measures - Section 6: Cor	mnlete	Form 3400-224 (09/20
	. Pollution Prevention	mpiete	
	torm Water Management Facility Inspections	s 🗌 Not Applicable	3
	Enter the total number of municipally owne	d or operated	192 Unsure
b.	structural storm water management facilities. How many new municipally owned storm w facilities were installed in the reporting year.	ater management	13 Unsure
c.	How many municipally owned storm water were inspected in the reporting year?		es 192 Unsure
d.	What elements are looked at during inspectimit)?	tions (250 character	
	Sediment depth in HSDs and ponds, trash, kand vegetation.	oank stability, inlet a	nd outlet structures,
e.	How many of these facilities required maint	enance?	95 Unsure
f.	Brief explanation on Storm Water Managem reporting. If you marked Unsure for any que reasoning. Limit response to 250 characters information on the attachments page.	estions above, justify	the
	Inspection and maintenance generally on so	chedule.	
L	uphic Marks Vards 9 Other Marrisinally Com	nd Dropoutice (CNA/DD	D Dlan Daviano D Not Applicable
	ublic Works Yards & Other Municipally Owner	•	
٥.	How many municipal properties require a S ¹	VV	Unsure

		8	
h.	How many inspections of municipal properties have been conducted in the reporting year?	43	Unsure
i.	Have amendments to the SWPPPs been made? ○ Yes No Unsure		
j.	If yes, describe what changes have been made. Limit response to 25 and/or attach supplemental information on the attachment page:	50 chara	acters
k.	Brief explanation on Storm Water Pollution Prevention Plan reporti Unsure for any questions above, justify the reasoning. Limit response characters and/or attach supplemental information on the attachm	se to 25	50
	DPW provides inspection for Facilities Sites, including their main open and Reid Golf Course maintenance area. Fire and Utilities Department own inspections.		_
Co	ollection Services - <i>Street Sweeping / Cleaning Program</i>	icable	
l.	Did the municipality conduct street sweeping/cleaning during the r ● Yes ○ No ○ Unsure	eportir	ng year?
m.	If known, how many tons of material was removed?	1282	☐ Unsure
n.	Does the municipality have a low hazard exemption for this material?	○ Yes	No
0.	If street cleaning is identified as a storm water best management p pollutant loading analysis, was street cleaning completed at the ass		
	Yes - Explain frequency per 2014 city-wide stormwater management plants	an	
	○ No - Explain		
	O Not Applicable		
Co	ollection Services - Catch Basin Sump Cleaning Program 🗌 Not Appl	icable	
p.	Did the municipality conduct catch basin sump cleaning during the year? • Yes	•	ng O Unsure
q.	How many catch basin sumps were cleaned in the reporting year?	31	☐ Unsure
r.	If known, how many tons of material was collected?	160	☐ Unsure
S.	Does the municipality have a low hazard exemption for this material?	○Yes	No
t.	If catch basin sump cleaning is identified as a storm water best main the pollutant loading analysis, was cleaning completed at the ass	_	-
	○ Yes- Explain frequency		
	No - Explain 100% inspected, cleaned if needed		
	O Not Applicable		

		rogram [Not Appli	cable		
Collection Services - Lea	of Collection P	rogram _				
u. Does the municipality conduct curbside leaf collection?					Yes \bigcirc No	O Unsure
v. Does the municipality notify homeowners about pickup? $lacktriangle$ Yes \bigcirc No \bigcirc !					O Unsure	
w. Where are the residents directed to store the leaves for collection?						
☑ Pile on terrace ☑ F	Pile in street	☐ Bags on	terrace [Unsure		
☐ Other - Describe pile on terrace on 4 lane and collector streets						
x. What is the frequency	y of collection	1?				
weekly 3-4 cycles per	weather con-	ditions				
y. Is collection followed	by street swe	eping/clea	aning?	•	Yes O No	O Unsure
Brief explanation on C marked Unsure for an reasoning. Limit response supplemental information	ny questions a onse to 250 ci	bove, justi haracters (fy the and/or atto			
Fourth round and add	ditional sweep	ping in 202	0 due to g	ood weath	ner conditi	ons.
Winter Road Manageme	ent 🗌 Not Ap	plicable				
aa. How many lane-mile	•		icipality	80	00	☐ Unsure
responsible for doing ab. Provide amount of de Solids (tons) (ex. san	g snow and ice e-icing product d, or salt-sand	e control? cts used by d)	y month la	st winter s	season?	
responsible for doing ab. Provide amount of d	g snow and ice e-icing produc	e control? cts used by	. ,			☐ Unsure Mar 31
responsible for doing ab. Provide amount of do Solids (tons) (ex. sand Product	g snow and ice e-icing produced, or salt-sand	e control? cts used by d) <i>Nov</i>	y month la	st winter s	season?	Mar
responsible for doing ab. Provide amount of de Solids (tons) (ex. sand Product Salt	g snow and ice e-icing product d, or salt-sand Oct	e control? cts used by d) Nov	y month la Dec 983	st winter s Jan 1082	Season? Feb 472	<i>Mar</i> 31
responsible for doing ab. Provide amount of de Solids (tons) (ex. sand Product Salt Sand	g snow and ice e-icing product d, or salt-sand Oct 45	e control? cts used by d) Nov 557	y month la Dec 983	st winter s Jan 1082	Feb 472 0	<i>Mar</i> 31 0
responsible for doing ab. Provide amount of de Solids (tons) (ex. sand Product Salt Sand Salt/sand mix Other	g snow and ice e-icing product Oct 45 0 0	e control? cts used by d) Nov 557 0	y month la Dec 983 0	st winter s Jan 1082 0	Feb 472 0 0	<i>Mar</i> 31 0
responsible for doing ab. Provide amount of de Solids (tons) (ex. sand Product Salt Sand Salt/sand mix	g snow and ice e-icing product Oct 45 0 0	e control? cts used by d) Nov 557 0	y month la Dec 983 0	st winter s Jan 1082 0	Feb 472 0 0	<i>Mar</i> 31 0
responsible for doing ab. Provide amount of de Solids (tons) (ex. sand Product Salt Sand Salt/sand mix Other	g snow and ice e-icing product d, or salt-sand oct 45 0 0 0 brine)	e control? cts used by d) Nov 557 0 0	y month la Dec 983 0 0 0	st winter s Jan 1082 0 0 0	Feb 472 0 0 0 0	Mar 31 0 0
responsible for doing ab. Provide amount of de Solids (tons) (ex. sand Product Salt Sand Salt/sand mix Other Liquids (gallons) (ex.	g snow and ice e-icing product d, or salt-sand Oct 45 0 0 brine) Oct	e control? cts used by d) Nov 557 0 0	y month la Dec 983 0 0 Dec	st winter s Jan 1082 0 0 Jan	Feb 472 0 0 0 Feb	Mar 31 0 0 0 0 Mar
responsible for doing ab. Provide amount of descriptions (ex. sand Product Salt Sand Salt/sand mix Other Liquids (gallons) (ex. Brine	g snow and ice e-icing product d, or salt-sand Oct 45 0 0 0 brine) Oct 3233	e control? cts used by d) Nov 557 0 0 0 Nov 7913	y month la Dec 983 0 0 0 Dec 9238	st winter s Jan 1082 0 0 Jan 15850	Feb 14089	Mar 0 0 0 0 Mar 1800
responsible for doing ab. Provide amount of descriptions (ex. sand Product Salt Sand Salt/sand mix Other Liquids (gallons) (ex. Brine Chem-melt	g snow and ice e-icing product d, or salt-sand Oct 45 0 0 0 brine) Oct 3233	e control? cts used by d) Nov 557 0 0 0 Nov 7913	y month la Dec 983 0 0 0 Dec 9238	st winter s Jan 1082 0 0 0 Jan 15850 0	Feb 14089 0	Mar 31 0 0 0 Mar 1800
responsible for doing ab. Provide amount of de Solids (tons) (ex. sand Product Salt Sand Salt/sand mix Other Liquids (gallons) (ex. Brine Chem-melt Pre-wetting compound	g snow and ice e-icing product d, or salt-sand Oct 45 0 0 0 brine) Oct 3233 0 0 9 achinery calib onnel attende	e control? cts used by d) Nov 557 0 0 0 0 0 rated in th	y month la Dec 983 0 0 0 Dec 9238 0 40 e reportin	st winter s Jan 1082 0 0 0 Jan 15850 0 0 0	Feb 472 0 0 0 Feb 14089 0 0	Mar 1800 0 0 Unsure
responsible for doing ab. Provide amount of descriptions (ex. sand Product Salt Sand Salt/sand mix Other Liquids (gallons) (ex. Brine Chem-melt Pre-wetting compound Other ac. Was salt applying mayear? ad. Have municipal personal	g snow and ice e-icing product d, or salt-sand Oct 45 0 0 0 brine) Oct 3233 0 0 9 achinery calib onnel attendenting year?	e control? cts used by d) Nov 557 0 0 0 0 0 rated in th	y month la Dec 983 0 0 0 Dec 9238 0 40 e reportin	Jan 1082 0 0 0 0 Jan 15850 0 0 0 tegy	Feb 472 0 0 0 Feb 14089 0 0 Yes \cap No	Mar 1800 0 0 Unsure

ae. Brief explanation on Winter Road Management 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

Continued to follow City snow and ice policies, procedures and salt application matrix with no changes to our program.

af.	Has training or education been held for municipal or other ● Yes ○ No ○ Unsure
	personnel involved in implementing each of the pollution
	prevention program elements?
	If yes, describe what training was provided (250 character limit):
	See attached documents from Parks and DPW Operations

When: throughout year

How many attended: 128

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

Presentations to Utilities Committee throughout the year.

Municipal Officials

Same as elected officials.

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

Monthly staff and workgroup meetings.

^{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.*

Group training limited due to COVID. Operations staff generally do not have computers. Individual training and handouts.

Missing Information

Do not close your work until you **SAVE**.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (09/20)

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.
	laps updated for 2020 construction, city limits, delineated wetlands, outfalls, new public and rivate stormwater practices.

Do not close your work until you SAVE.

Form 3400-224 (09/20)

Final Evaluation - Complete

Fiscal Analysis

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	Budget	Budget	Source of Funds
Expenditure	Reporting Year	Upcoming	
Reporting Year		Year	

Element: Public Education and Outreach

7	,684	8,000	8,000	Storm water utility

Element: Public Involvement and Participation

5,256 5,000 5,000 <u>5,0111 Water atilit</u>	3,258	5,000	5,000	Storm water utilit
--	-------	-------	-------	--------------------

Element: Illicit Discharge Detection and Elimination

31,130 15,000	21,500	Storm water utility
---------------	--------	---------------------

Element: Construction Site Pollutant Control

115,094	107,719	122,085	Storm water utility
---------	---------	---------	---------------------

Element: Post-Construction Storm Water Management

113,699	85,000	85,000	Storm water utility
---------	--------	--------	---------------------

Element: Pollution Prevention

1,378,990	1,503,567	1,505,397	Storm water utility
-----------	-----------	-----------	---------------------

Other (describe)

Mapping, annual report preparation and DNR Fee				
10,322	12,600	12,600	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 O No O Unsure If Yes, explain below:
Three additional wet stormwater ponds and 8 HSD's constructed
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: High conductivity in Garners Creek due to private snow management
riigii conductivity iii darners creek due to private snow management
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)
Status of Total Maximum Daily Loads (TMDLs) Implementation
The permittee Appleton City is subject to the following approved TMDLs: Lower Fox River Basin and Lower Green Bay; Upper Fox and Wolf River Basin
The permittee intends to comply with the following permit requirements to show progress towards meeting the TMDL:
 [A.3.1] The Permittee is following the TMDL Compliance Plan, which received Department concurrence prior to April 30, 2019. The permittee is confirming that all planned efforts are on schedule. ● Agree ○ Disagree
[A.6.3] Final Documentation. The permittee is confirming that all planned efforts are on schedule to submit the final documentation materials [updates to mapping, modeling, tabular summary, and Implementation Plan] under section A.6.3 by October 31, 2023. ● Agree ○ Disagree

[C.3-4].a Which Compliance option does the permittee anticipate choosing?
TMDL Implementation Plan
 [C.3-4].b The Permittee is confirming that all planned efforts are on schedule to meet requirements due to the department. For an Adaptive Management project, a plan is required within 36 months of the TMDL approval date. For TMDL Implementation, updates to mapping, modeling, tabular summary, and Implementation Plan documents are required within 48 months of the TMDL approval date.) Agree O Disagree
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.
Update to City-wide plan on schedule with DNR planning grant.

Missing	Intorma	tion
IVIIOSIIIE		

Do not close your work until you SAVE.

Form 3400-224 (09/20)

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
\square 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

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 fil	e, use the 'Click here to attach file ' link or press the to delete a	n item.		
Storm Sewer System Mag)			
■ File Attachment	Mapscombined.pdf			
Attach - Other Supporting	g Documents			
AR_IP				
■ File Attachment	2020 Public Participation completed activities.pdf			
AR EO				
■ File Attachment	2020IEPlancompletedactivities.pdf			
AR_Other				
■ File Attachment	2020NEWSCOUTREACHREPORT.pdf			
AR_BMPInspSum				
	StormwaterInspectMaintenanceList2020EOY.xls			
AR_SWGroupReport				
	2020NEWSCAnnualReport.pdf			
AR SWMap				
	stormpipecombinedmaps.pdf			
AR_IDDE				
■ File Attachment	Illicitdiscargecomplaints2020.xls			

AR_Other	
■ File Attachment	2020-2021PublicWorksGuide.pdf
AR_Other	
■ File Attachment	<u>FieldScreeningBodyAB.pdf</u>
AR_Other	
■ File Attachment	2020FieldScreeningAppD.pdf
(To remove items, use your	cursor to hover over the attachment section. When the drop down arrow appears, se

ect remove item)

Attach - Permit Compliance Documents

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

Missing Information

Draft and Share PDF Report with the permittee's governing body or delegated representatives.

Press the button below to create a PDF. The PDF will be sent to the email address associated with the WAMS ID that is signed in. After the annual report has been reviewed by the governing body or delegated representative, return to the MS4 eReporting System to submit the final report to the DNR.

Draft and Share PDF Report

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

terms and conditions.

Certification: I hereby certify that I am an authorized representative of the municipality covered under Appleton City 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	k current	role prior to accepting terms and conditions)
 Authorized mu 	nicipal co	ntact using WAMS ID.
authorized municip Agent seeking	oal contacto share t	Authority (Form 3400-220) for agent signing on the behalf of the ct. his item with authorized municipal contact (authorized municipal and complete signature).
	Name:	
	Title:	
Authorized Signature. I accept the above		

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.

January 2021		2020 CITY OF APPLETON PUBLIC EDUCATION ANI	D OUTREACH PLAN		
,					
TOPIC	TARGET AUDIENCE	PLANNED ACTIVITY	MECHANISM	PRIMARY LEAD	COMPLETED ACTIVITY
			ACTIVE PASSIVE	CITY NEWSC	
$\frac{1}{2}$	1. Residents	2. DPW Newsletter	X	X	DPW Newsletter mailed June 2020
3	1. Residents	6. Stormwater Credit Policy Pledge Supporter	X	X	16 active pledge supporters in 2020
1. Promote detection and elimination of illicit		10. One-on-one communication	X	X	Discuss throughout the year in response to reported discharges
5 discharges and water quality impacts associated with		11. NEWSC Exhibiting	X	X	See NEWSC Report
6 such discharges from municipal separate storm sewer		14. Citizens Academy Presentation	X	X	This activity canceled due to COVID
system.	2. City staff - DPW Technicians	13. Group Training	X	X	This activity canceled due to COVID
8	3. Businesses	10. One-on-One communication	X	X	Discuss throughout the year in response to reported discharges
10	3. Dusinesses	10. One-on-one communication	^	^	1
1					
2	1. Residents	2. DPW Newsletter	X	X	DPW Newsletter mailed June 2020
2. Inform and educate the public about the proper		3. NEWSC Posters	X	X	NEWSC Posters placed in park bathrooms and on park fences
management of materials that may cause stormwater		6. Stormwater Credit Policy Pledge Supporter	X	X	16 active pledge supporters in 2020
pollution from sources including automobiles, pet		11. NEWSC Exhibiting	X	X	See NEWSC Report
waste, household hazardous waste and household	2. Students	14. NEWSC school presentations	X	X	See NEWSC Report
practices.	21 Stadelits	15. Summer Camp	X	X	Contract signed with FWWA but canceled due to COVID
9					
10					1
1		2 01 2211			
2	1. Residents	2. City DPW newsletter	X	X	DPW Newsletter mailed June 2020
		3. NEWSC posters6. Stormwater Credit Policy Pledge Supporter	X	X	NEWSC posters placed in park bathrooms and on park fences 16 active places supporters in 2020.
3. Promote beneficial onsite reuse of leaves and grass		11. NEWSC Exhibiting	X	X	16 active pledge supporters in 2020 See NEWSC Report
clippings and proper use use of lawn and garden					
fertilizers and pesticides.	2. Students	15. Summer Camp	X	X	Contract signed with FWWA but canceled due to COVID
8					
9					1
1					1
2	1. Residents	16. River cleanup	X	X	River Cleanup held in August 2020. City supported at \$2500 level
3					
4. Promote the management of streambanks and	2. Students	14. NEWSC school presentation	X	X	See NEWSC Report
shorelines by riparian landowners to minimize erosion and restore and enhance the ecological value of		15. Summer Camp	X	X	Contract signed with FWWA but canceled due to COVID
7 waterways.			<u> </u>		
8					
9					
10					1
1					
2	1. Residents	6. Stormwater Credit Policy Pledge Supporter	X	X	16 active pledge supporters in 2020
<u>3</u>		14. Citizens Academy Presentation	X	X	This activity canceled due to COVID
5. Promote infiltration of residential stormwater		14. Citizens Academy Freschiation	^	^	This activity canceled due to COVID
runoff from rooftop downspouts, driveways, and			X	X	2 rain barrel stormwater utility credits issued in 2020
sidewalks.					
8					
9					
10					1

	Г						
January 2021		2020 CITY OF APPLETON PUBLIC EDUCATION	AND OUTREACH PLAN				
,							
TOPIC	TARGET AUDIENCE	PLANNED ACTIVITY	MEC	HANISM	PRIMA	ARY LEAD	COMPLETED ACTIVITY
			ACTIVE	PASSIVE	CITY	NEWSC	
1							
2	1. Design consultants	10. One-on-one communication	X		X		ESC Inspector in the field throughout the year
3							SW & ESC discussed for private and DPW projects throughout year
6. Inform and educate those responsible for the	2. Contractors	12. Pre-submittal and	X		X		
5 design, installation, and maintenance of construction		Pre-construction meetings					ESC discussed at DPW pre-construction meetings
6 site practices and stormwater management facilities	3. City staff						
7 on how to design, install, and maintain the practices.		18. FWWA Watershed Conference	X		X		Sponsored and on planning committee
8			_				Several City staff attended conference
9		19. Plan review	X		X		ESC and SWM plan review verbal and written discussion
10							1
	1.5						
7. Identify businesses and activities that may pose a	1. Carpet Cleaners	1. Mailing	_	X	X		Not done due to limited staff during COVID
stormwater contamination concern, and educate			_				
those specific audiences on methods of stormwater			_				
pollution prevention.							
6 .			_				
7							0
		10.0					
2	1. Owners/Developers	10. One-on-one communication	X		X		Discuss individual projects throughout the year
3			_				
8. Promote environmentally sensitive land	2. By it is a second	10. 0					Physical College Control of Contr
5 development designs by developers and designers,	2. Designers	10. One-on-one communication	X		X		Discuss individual projects during the year
6 including green infrastructre and low impact		18. Sponsor FWWA Watershed Conference	X		X		Sponsored and on planning committee
7 development.		_					
8 0		_	_				
10			_				1
10							1
							7 Completed topics
Passive Mechanisms		Active Mechanisms					, completed topics
1. Mailing	0	10. One-on-One communication	1		Number of topic	s required	6
2. Newsletter	1	11. NEWSC Exhibiting	1		. tamber or topic	equired	
3. NEWSC Posters	1	12. Meetings	1				
4. Website	1	13. Group Training	0				
5. Signage	0	14. Presentations	1				
6. Stormwater Credit Policy Pledge Supporter	1	15. Summer Camp	0				
, 3		16. River Cleanup	1				
Total Passive Mechansims used	4	17. Utilities Committee Meeting	1				
		18. Workshops/Conferences	1				
		19. Plan review	1				
Key:							
1= used during the year		Total Active Mechanisms Used	8				
0= not used during the year							
		Required Active Mechanisms	2				

Topics					Year					
	2019		2020		2021		2022		20	023
	Active	Passive								
1. IDDE	4	2	2	2						
2. HHH, Pets, Vehicles, etc	3	3	2	3						
3. Yard Waste, Pesticide, Ferilizer	3	3	1	3						
4. Stream and Shoreline	3	0	2	0						
	_		_							
5. Residential Infiltration	0	1	0	1						
C. ESC and Doct Construction	4	0	4							
6. ESC and Post Construction	4	0	4	0				-		
7. Pollution Prevention	0	1	0	0						
7. Foliation Frevention	0	1	U							
8. Green Infrastructure/Low Impact	3	0	3	0						
5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5										
		ı				ı		ı		
Totals	20	10	14	9						

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		SECTION 2.2	DI II	BLIC INVOLVEMENT AND PARTICIPATION		
		SECTION 2.2	1	BEIC INVOLVENIENT AND PARTICIPATION		
	ACTIVITY	2020 Planned Activity		2020 Completed		
	Annual Report	Target Participants:	-			
	Due to WDNR March 31	General Public Elected Officials	-			
	each year	Elected Officials				
	edon year	Delivery Mechanism:	1			
		Committee agenda on website		February 20. 2020		
		Utilities Committee meeting		February 25. 2020		
		Common Council meeting		March 4, 2020		
		Date: March	1			
		Dutc. Water	1			
T						
	Stormwater Management Program	Target Participants:		Repeated MS4 Permit overview at Utilities		
	D	General Public		Committee on September 24,2020		
	Proposed City-wide Plan Update in 2020-2021	Elected Officials School District		Presented Post-Construction Program at Utilities Committee on October 13, 2020		
	Opuate III 2020-2021	Developers		Committee on October 13, 2020		
		Other City Departments				
		Delivery Mechanism:	-			
		Committee agenda on website Utilities Committee Presentation	-	4 days prior to committee meeting See above		
		Common Council meeting	-	8 days after committee meeting		
		Stakeholder Presentations	1	Met with City consultant and McMahon		
		Stakeholder meetings		(representing adjacent communities) on City-wide		
		City staff meetings		plan on April 23, 2020		
		Detect the secret out the case				
		Date: throughout the year	1			
	Ordinance Updates	Target Participants:		Erosion and Sediment Control Ordinance	Illicit Discharge Ordinance	Post-Construction Ordinance
		General Public	4			
	Erosion and Sediment Control	Elected Officials	-			
						Sent new ordinance to
		Design Consultants				consultants on April 27, 2020
	Illicit Discharges	Developers				
	Best Countries Ci	Contractors				
	Post-Construction Stormwater Management	Delivery Mechanism:				
	ividilagement	Committee agenda on website		January 9, 2020	February 20. 2020	March 26, 2020
		Utilities Committee Presentation		January 14, 2020	February 25. 2020	April 1, 2020*
		Common Council meeting		January 22, 2020	March 4, 2020	April 1, 2020*
_		5-1				** *** *** *
		Date: As needed	-			*Committee of the whole due to COVID-19
\dashv						TO COMID-13
	Volunteer Activity	Target Participants:				
	•	General Public				
		City Staff				
_		Dalition Machania				
_		Delivery Mechanism: Sponsor FWWA Cleanup		Sponsored at \$2500 level		
		Post Sign-up for City staff		May 2 event canceled		
		. 552 5.5 40 101 616, 51411		due to COVID-19		
		Date: Spring		Held August 22, 2020		

Department of Public Works – Engineering Division

MEMO

TO: Utilities Committee

FROM: Paula Vandehey, Director of Public Works

Pete Neuberger, Staff Engineer

DATE: March 9, 2021

RE: Award of 2021D Stormwater Consulting Services Single Source Contract for Lightning

Drive Stream Crossings and Stormwater Practices Final Design to raSmith in an amount

not to exceed \$107,000.

The Department of Public Works is requesting approval of the 2021D Stormwater Consulting Services Single Source Contract for Lightning Drive Culverts and Stormwater Practices Final Design to raSmith in an amount not to exceed \$107,000 (budget \$107,250).

PROJECT HISTORY

The area generally bound by Ballard Road to the west, Broadway drive to the north, French Road to the east, and Edgewood Drive to the south has experienced significant development pressure in recent years. This pressure is expected to continue into the next several years until the area is built out. An essential component necessary for continued development is the extension of Lightning Drive from 600 feet north of Edgewood Drive (CTH JJ) to Broadway Drive, to serve as a transportation and utility corridor.

In the fall of 2018, DPW staff continued the planning of Lightning Drive by soliciting proposals to qualified firms to perform a drainage study with 30% engineering design. At the December 11, 2018 Utilities Committee, DPW Staff recommended that contract award to raSmith. The award memo identified DPW staff's intent to continue working with raSmith through Lightning Drive final design without an RFP process, should staff determine that raSmith met expectations during the drainage study and subsequent contracts.

raSmith completed the study contract in November 2019, while meeting DPW staff's expectations to develop cost-effective stormwater management solutions for Lightning Drive. The raSmith study identified two proposed stream crossings and five proposed stormwater ponds, with corresponding conveyance, for stormwater management.

At the March 24, 2020 Utilities Committee meeting, the Committee approved DPW's recommendation to award the single-source Lightning Drive 60% Preliminary Engineering Design Contract to raSmith. raSmith is nearing completion of this task and will soon be ready to develop the final designs.

PROJECT SCHEDULE

The proposed development schedule of the Lightning Drive corridor is as follows:

- 2021: Complete preliminary (60%) engineering design of two stream crossings, five stormwater ponds, and corresponding stormwater conveyances, and apply for DNR and USACE permits
- 2021: Begin final engineering design of two stream crossings, five stormwater ponds, and corresponding stormwater conveyances; obtain DNR and USACE permits.
- 2022: Land acquisition for roadway and ponds, and complete final design.
- 2023: Construction of Lightning Drive, bridges, and stormwater ponds.

CONTRACT SCOPE

As proposed, the consultant will:

- Perform final modeling of stormwater conveyance, flood control and water quality for the streets and culverts to meet City, State, and Federal requirements, including FEMA floodplain.
- Coordinate design work with City staff and adjacent developers.
- Update and finalize a Stormwater Management Plan documenting proposed practices to meet City, State, and Federal Stormwater Management requirements.
- Provide final bid documents in the form of plans and specifications for construction of two Lightning Drive stream crossings and five stormwater ponds.
- Prepare permit applications to State and Federal Regulators, including a FEMA Letter of Map Revision (LOMR) request.
- Assist City staff answering bidder/contractor questions during bidding and construction.

REASON FOR REQUEST

raSmith was selected for the original drainage study based on a competitive RFP process in 2018 and has performed well on the study and preliminary engineering phases for this project. Their ongoing work on this project makes raSmith well-positioned to provide continued cost-effective services moving forward using a negotiated, single-source contract scope; furthermore, raSmith proposes using the same staff for the proposed contract. Therefore, DPW is requesting permission to contract with raSmith for these final design services using a negotiated contract scope.

Department of Public Works – Engineering Division

MEMO

TO: Utilities Committee

FROM: Paula Vandehey, Director of Public Works

Pete Neuberger, Staff Engineer

DATE: March 9, 2021

RE: Award of Single Source Contract with NES Ecological Services for 2021 Wetland

Delineation Services in an Amount Not to Exceed \$35,639.70.

The Department of Public Works is requesting approval to single source contract with NES Ecological Services, a Division of Robert E Lee & Associates, Inc. (NES) for 2021 Wetland Delineations in an amount not to exceed \$35,639.70.

CURRENT AUTHORIZATION

In February 2019, DPW issued a request for proposals (RFP) for Wetland Delineation Consulting Services. After evaluating the proposals, DPW recommended contract award to NES at the March 12, 2019, Utilities Committee. The committee authorized DPW to contract with NES for 2019 Wetland Delineations, in an amount not to exceed \$30,000. The award memo stated DPW anticipated a multi-year contract extension through 2023, subject to Utilities Committee authorization each year and satisfactory performance by the consultant. In 2020, Utilities Committee and Council approved a single-source quote for 2020 wetlands delineation services for \$22,778.

REASON FOR REQUEST

The request is made for the following reasons:

- Throughout 2019 and 2020, NES has strongly validated the results of the initial RFP
 evaluation by cost-effectively providing a very high level of expertise and customer service.
 Furthermore, because the primary staff person at NES is a WDNR Assured Wetland
 Delineator, the results of their work do not require a WDNR review and concurrence process.
 Avoiding this additional step has proved valuable for keeping projects on schedule and
 avoiding uncertainty.
- The 2019 proposal from NES identified a suggested annual labor and equipment unit price increase of approximately 3% each year throughout the anticipated 5-year period. The 2020 contract included an annual unit price increase of approximately 3.1%. The 2021 NES proposal includes a unit price increase of approximately 3.2% compared to 2020. DPW staff consider the request reasonable for providing continued cost-effective services.

2021 Wetland Delineation Services March 9, 2021 -Page 2-

CONTRACT SCOPE

As DPW and other departments implement their 5-year CIP, they must occasionally investigate potential wetlands to remain compliant with State and Federal wetland regulations. For 2021, several project sites have been identified. Cost estimate and responsible department are identified in the project list below:

- Edgewood Drive (CTH JJ) Water Main Extension (Public Works \$3,439.90)
- Miscellaneous Stormwater Management Allowance (Public Works \$7,560.10)
- Plamann Park Supplemental Delineation Work (Public Works \$4,000.00)
- Raw Water Line Supplemental Delineation/Permit Work (Public Works \$4,000.00)
- Potential Land Acquisition (Community and Economic Development \$7,604.95)
- Lungaard Park (Facilities & Construction Mgt \$3,676.65)
- Pierce Park Trails (Facilities & Construction Mgt \$2,306.65)
- Memorial Park Parking/Pavilion (Facilities & Construction Mgt \$3,051.45)

DPW staff also anticipate contracting with NES for 2022-2023 wetlands delineations, subject to Utilities Committee and Common Council approval at the appropriate times.

Department of Public Works – Engineering Division

MEMO

TO: Utilities Committee

FROM: Paula Vandehey, Director of Public Works

Pete Neuberger, Staff Engineer

SUBJECT: Award Single Source Unit K-21 Native Landscape Management Contract to Applied

Ecological Services, Inc., in an amount not to exceed \$256,680.

DATE: March 9, 2021

(budget \$256,680).

The Department of Public Works recommends award of the single source K-21 Native Landscape Management Contract to Applied Ecological Services, Inc. (AES), in an amount not to exceed \$256,680

The following tasks are included in this contract:

Native Vegetation Maintenance and New Installations at City Stormwater Ponds and Channels

- Provide vegetation inspections and recommendations.
- Provide invasive species and algae control through herbicide, mowing, brushing, and/or controlled burns.
- Provide preparation, seeding, planting, and erosion control at sparsely established areas and new sites.
- Second phase planting of an "urban reforestation" area along the north side of Leona Pond.
- Maintain pond aerators.

In addition to work at DPW sites, the proposed contract amount includes an estimated \$6,220 of work at Facilities Department sites, to be paid by Facilities Department through interdepartmental agreement.

The Department of Public Works requests that the Utilities Committee approve a contract with AES, who was the 2017, 2018, 2019, 2020 contractor, for these services. This request is consistent with the approved 2021 stormwater budget, the March 15, 2017 Unit K-17 approval by the Common Council, and the March 2017 award memo by the Department of Public Works requesting use of AES as its consultant/contractor for native landscaping through 2021, subject to contractor performance in the prior year and annual contract approval.

AES performed well as the 2020 contractor, demonstrating good customer service, expertise, and cost-effectiveness. Proposed K-21unit prices include a 3% unit price increase compared to the K-20 unit prices, which is in line with the proposed annual unit price adjustment in the original 2017 AES proposal.

Earlier this year, AES was purchased by Resource Environmental Solutions (RES), a Texas-based environmental restoration company. AES K-21 personnel and equipment are unaffected by this acquisition, and DPW staff anticipate no changes to the service provided. Contractually, AES has informed the DPW Staff they are now "RES Great Lakes, LLC dba Applied Ecological Services".



Department of Utilities Water Treatment Facility 2281 Manitowoc Road Menasha, WI 54952 920-997-4200 phone 920-997-3240 fax

TO: Chairperson Vered Meltzer and Members of the Utilities Committee

FROM: Utilities Director Chris Shaw

DATE: March 3, 2021

RE: Award Contract Amendment #1 to AECOM for the America's Water

Infrastructure Act Project in the amount of \$22,788

BACKGROUND:

In 2020, the Appleton Water Utility (AWU) was required to perform a risk and resiliency assessment of the utility. The assessment was a requirement of the Environmental Protection Agency (EPA) and the Wisconsin Department of Natural Resources (WDNR). These federal and state requirements relied on industry performance standards that were adhered to by the AWU. AECOM was the consulting firm that managed the project elements and completed the computer modeling of natural and malevolent acts. The completed risk and resiliency assessment from the AWU was then received by the EPA in December, 2020.

Beyond the risk and resilience assessment report, an emergency response plan needs to be developed to address deficiencies found in 2020. This requirement will need to be submitted to the EPA and WDNR prior to June 30, 2021. City staff from Public Works, Finance, and Utilities that had partnered with AECOM in 2020 to complete the federal and state requirements would prefer to pursue completing the emergency response plan with AECOM. AECOM has fulfilled their base contract scope and has produced the foundational data to complete the emergency response plan. Due to the sensitive and secure nature of this work I will not be detailing the proposed scope.

FUNDING:

Funding for this project is found in the Treatment Administrative Program of the Water Utility Budget. Between 2020 and 2021 a total of \$145,000 has been budgeted for the now completed risk assessment and the proposed 2021 emergency response plan. The 2020 AECOM base contract was \$43,550 and this proposed amendment would authorize an additional \$22,788.

If you have any questions regarding the project please contact Chris Shaw at 832-2362.

MS4 STORMWATER PERMIT 2.6 POLLUTION PREVENTION

UTILITIES COMMITTEE

MARCH 9, 2021

1. POLLUTION PREVENTION PROGRAM COMPONENTS

- WRITTEN PROGRAM OUTLINE
- MAJORITY OF REQUIREMENTS IMPLEMENTED THROUGH MULTIPLE DIVISIONS OF PUBLIC WORKS AND PARKS, RECREATIONS AND FACILITIES MANAGEMENT
- EXTENSIVE RECORD KEEPING
- EXTENSIVE STAFF TRAINING
- FOCUS ON GOOD HOUSEKEEPING PRACTICES

2. MUNICIPALLY OWNED AND OPERATIONS STORMWATER MANAGEMENT PRACTICES (SMP)

- INVENTORY TABLE FORMAT INCLUDING TYPE OF SMP AND AVAILABLE INFORMATION (SUCH AS RECORD DRAWINGS AND MAINTENANCE PLANS)
- SMP NUMBERING CORRESPONDING TO MAPPING REQUIREMENTS OF PERMIT
- OPERATION AND MAINTENANCE PLANS FOR EVERY SMP IN THE INVENTORY
- DOCUMENTATION OF INSPECTIONS AND MAINTENANCE ACTIVITIES.

3. MUNICIPALLY OWNED PUBLIC WORKS FACILITIES

- 8 SITES
 - MUNICIPAL SERVICES BUILDING
 - GLENDALE/SANDRA STREET STORAGE SITE
 - WHITMANN STREET YARD WASTE SITE
 - FIRE STATION 6 (DUE TO TRAINING FACILITY)
 - REID GOLF COURSE MAINTENANCE BUILDING/AREA
 - PARKS, RECREATION AND FACILITIES WITZKE BLVD OPERATIONS SITE
 - WATER FILTRATION PLANT
 - WASTEWATER TREATMENT PLANT
- REQUIRES SITE SPECIFIC STORMWATER POLLUTION PREVENTION PLANS (SWPPPS)
- INITIAL PLANS IN PLACE SINCE 2004 AND 2007. PERIODIC UPDATES COMPLETED AS NEEDED.

4. MUNICIPALLY OWNED PUBLIC WORKS FACILITIES

- REQUIRES SITE SPECIFIC STORMWATER POLLUTION PREVENTION PLANS (SWPPPS)
 - MAPPING OF EXPOSED MATERIALS
 - CONTACT INFORMATION FOR RESPONSIBLE STAFF
 - GOOD HOUSEKEEPING TO REDUCE OR ELIMINATE STORMWATER CONTAMINATION
 - MAINTENANCE PLAN WITH INSPECTION PROCEDURES
 - REPAIR PROCESS
 - SPILL PREVENTION AND RESPONSE STANDARD OPERATING PROCEDURES.



5. SOURCE WATER PROTECTION

- MEASURES TO REDUCE MUNICIPAL SOURCES OF STORMWATER CONTAMINATION WITHIN SOURCE WATER PROTECTION AREAS (DRINKING WATER SOURCES)
 - FREEDOM MUNICIPAL WELL
 - VILLAGE OF FOX CROSSING MUNICIPAL WELL
 - LAKE WINNEBAGO



6. COLLECTION SERVICES

- 4 SECTIONS
 - STREET SWEEPING (ONLY IF USED TO MEET TMDL GOALS)
 - CATCH BASIN CLEANING (ONLY IF USED TO MEET TMDL GOALS)
 - MATERIAL HANDLING AND DISPOSAL (ONLY IF SWEEPING AND CATCH BASINS USED TO MEET TMDL GOALS)
 - LEAF MANAGEMENT
- DESCRIPTION OF PROGRAMS, STANDARD OPERATING PROCEDURES, DOCUMENTATION OF ACTIVITIES AND AMOUNT OF MATERIAL COLLECTED



7. WINTER ROAD MANAGEMENT

- CONTACT INFORMATION FOR INDIVIDUALS WITH RESPONSIBILITY
- TYPES OF DEICING PRODUCTS AND AMOUNT USED PER MONTH.
- TYPE OF EQUIPMENT USED
- NUMBER OF LANE MILES AND ACRES OF MUNICIPAL PARKING LOTS WHERE DEICING IS APPLIED
- SNOW DISPOSAL LOCATIONS
- DESCRIPTION OF PROGRAM ANTI-ICING, PRE-WETTING, EQUIPMENT CALIBRATION, PAVEMENT TEMPERATURE MONITORING, SALT REDUCTION STRATEGIES, ALTERNATIVE PRODUCTS



8. OTHER PROGRAM REQUIREMENTS

- NUTRIENT MANAGEMENT ON MUNICIPAL PROPERTIES WITH MORE THAN 5 ACRES PERVIOUS ACCORDING TO SITE SPECIFIC NUTRIENT APPLICATION SCHEDULE BASED ON SOIL TESTS
- ENVIRONMENTALLY SENSITIVE DEVELOPMENT CONSIDERED FOR ALL MUNICIPAL PROJECTS
 - GREEN INFRASTRUCTURE
 - LOW IMPACT DEVELOPMENT



- INTERNAL TRAINING AND EDUCATION FOR STAFF AND CONTRACTORS IMPLEMENTING THESE REQUIREMENTS
 - TRAINING EVERY YEAR ON EVERY TOPIC
 - DOCUMENT NAMES, RESPONSIBILITIES, CONTENT, DATE
- INFORM ELECTED OFFICIALS OF THE PERMIT REQUIREMENTS AND EXPECTATIONS



10. QUESTIONS?

City of Appleton Pollution Prevention Program Section 2.6 WPDES Permit No. WI-S050075-3 Permit Start Date May 1, 2019 February 2021

This document describes the City of Appleton Pollution Prevention Program as required in the WPDES Stormwater Permit from the Wisconsin Department of Natural Resources (WDNR). The program includes general procedures intended to prevent pollution from City of Appleton operations conducted by several departments. More detailed and supporting documentation for activities by individual departments and divisions will be kept with those departments and divisions.

The following City of Appleton departments and divisions are involved in this program:

- Department of Public Works Engineering Division
- Department of Public Works Operations Division
- Parks, Recreation and Facilities Management Department
- Fire Department
- Utilities Department

This document will be kept in the Engineering Division of the Department of Public Works located on the fifth floor of City Center, 100 N. Appleton Street, Appleton, Wisconsin 54911. All questions regarding this document should be directed to the Director of Public Works, at the above address, or (920)-832-6474.

Each department that is responsible for implementing any part of this plan is also responsible for training department staff on their plan and the permit requirements. Individual department and division updates will be periodically collected by the Department of Public Works Engineering Division for an overall update to this document.

Costs associated with this program are generally funded through the budget of each responsible department. Some costs associated with this program are funded through the City of Appleton Stormwater Utility.

Bold text is from the permit.

- 2.6 Pollution Prevention The permittee shall continue to implement its pollution prevention program to prevent or reduce pollutant runoff from the MS4 to waters of the state. The permittee shall implement the following measurable goals:
- 2.6.1 Stormwater management facilities. Update and maintain an inventory of municipally owned or operated stormwater BMP's such as wet detention ponds, bioretention devices, infiltration basins and trenches, permeable pavement, proprietary sedimentation devices, vegetated swales, or any similar practice used to meet a water quality requirement under this permit. At a minimum, the inventory shall be maintained in a tabular format and contain the following information for each structural stormwater facility:

- a. A key corresponding to the location of the BMP on the storm sewer system map required under section 2.8.
- b. The name and description of the BMP, including the type and year constructed
- c. A confirmation of whether each of the following elements exist or are not available:
 - (1) An operation and maintenance plan with inspection procedures and schedule
 - (2) A record drawing
 - (3) If using a BMP to meet a water quality requirement in this permit and the BMP is owned by another entity, written documentation exists that the permittee has permission from the owner to use the BMP for this purpose.

The Department of Public Works Engineering Division is responsible for maintaining this information. The current table is included as an attachment to this document. Changes to the inventory will be added to the table annually.

2.6.2 For each BMP inventoried under section 2.6.1, the permittee shall develop and implement a maintenance plan with inspection procedures and schedule to maintain the pollutant removal operating efficiency of the practice in compliance with any water quality requirement under this permit. Documentation of inspections and maintenance activities shall be maintained.

This section is the responsibility of the Department of Public Works, Engineering and Operations Divisions, and the Parks, Recreation, and Facilities Management Department. Currently the Department of Public Works provides this service for the Parks, Recreation and Facilities Management Department. This arrangement is subject to change based on a yearly review of available staffing and priorities. Operations and Maintenance Plans are available for the stormwater practices in the table identified in section 2.6.1. As examples, the Operation and Maintenance Plans for Leona Pond and the Northland Biofilter are included as attachments to this document.

- 2.6.3 Municipally owned public works facilities. The stormwater pollution prevention plans (SWPPPs) for municipal garages, municipal storage areas, and other public works related municipal facilities located within the permitted area shall be maintained and updated annually as needed and shall include the information in section 2.6.3.a. When a SWPPP is updated, it shall be submitted to the WDNR with the annual report.
 - a. SWPPPs shall include the following information:
 - (1) The physical locations of each facility with a key corresponding to the locations on the storm sewer system map required under section 2.8.
 - (2) The contact information for the individuals with overall responsibility for each facility.
 - (3) A map of each facility, drawn to scale, and including the following features:
 - i. The locations and descriptions of major activities and storage areas.

- ii. Identification of drainage patterns, potential sources of stormwater contamination and discharge points.
- iii. Identification of nearby receiving waters or wetlands.
- iv. Identification of connections to the MS4.
- (4) A description of procedures, good housekeeping activities, and any BMP's installed to reduce or eliminate stormwater contamination.
- (5) A maintenance plan with inspection procedures and schedule for each facility to identify deficiencies, necessary improvements and/or repairs, assess effectiveness, and address new or unaddressed potential sources of stormwater contamination.
- (6) Spills prevention and response operating procedures
- b. The permittee is not required to comply with section 2.6.3 if the permittee certifies that the municipal facility qualifies for no exposure with the WNDR's concurrence.

The City has SWPPPs for the following sites:

- Whitman Yard Waste Site (Department of Public Works)
- Municipal Services Building and Hardstand Storage Area (Department of Public Works)
- Water Treatment Plant (Utilities Department)
- Wastewater Treatment Plant (Utilities Department)
- Fire Station No. 6 (includes training site) (Fire Department)
- Facilities and Grounds Operations Center on Witzke Blvd (formerly Parks and Recreation Department Office and Storage yard)
- Reid Golf Course Maintenance Yard (Parks, Recreation, and Facilities Management Department)

These plans are separate documents and not included in this program document. Each department is responsible for implementing the stormwater plan for their facilities, including physical site changes, plan updates and amendments, facility inspections, and staff training. In 2016, the Department of Public Works began performing site inspections for Parks, Recreation, and Facilities Management sites and assisting them with any necessary plan updates. This is subject to change based on yearly review of available staff and priorities.

2.6.4 Measures to reduce municipal sources of stormwater contamination within source water protection areas.

Small portions of the city are tributary to a Freedom municipal well, a Village of Fox Crossing municipal well, and Lake Winnebago. The city will continue current practices within known source water protection areas, including street cleaning and pond maintenance.

2.6.5 Collection services/Storm sewer system maintenance activities.

This section is the responsibility of the Department of Public Works, Operations Division.

a. Street sweeping. If routine street sweeping is utilized to meet a water quality requirement under this permit, the permittee shall maintain documentation of the number and type of equipment used, standard operating procedures, an estimate of the number of lane-miles swept annually, and an estimate of the weight in tons of materials collected annually.

The Department of Public Works Operations Division currently owns two (2) mechanical sweepers, one (1) high efficiency (HE) street sweeper and one Vac-All sweeper. The downtown is swept twice a week with half mechanical sweeping and half high efficiency (HE) sweeping. Arterial streets and industrial areas are swept once every two weeks with the Vac-All or the HE sweeper. The remaining areas are generally swept on either a 3-week or 6-week cycle. Areas that are tributary to regional stormwater ponds are swept on the 6-week cycle. The first sweeping in the spring is initiated when curb lines become exposed from snow and ice and is completed prior to hydrant flushing activities. Sweeping during the fall is associated with the leaf collection process and can be tracked separately according to date. Sweeping is generally done during nighttime hours when a parking control ordinance is in place.

There are approximately 700 lane miles maintained within the annual street sweeping program.

The 2020 Annual Report included collection of 1282 tons of material. The amount of material is tracked through tipping fees.

b. Catch Basins. If routine cleaning of catch basins with sumps is utilized to meet a water quality requirement under this permit, the permittee shall maintain documentation of the number of catch basins inspected, the number of catch basins cleaned, standard operating procedures, and an estimate of the weight in tons of material collected annually.

All structures with sumps (HSDs) are tracked in the City's ArcGIS system. The GIS system is updated annually to add any structures constructed that year. They are labeled as such and an updated spreadsheet is created after each annual update.

The Operations Division of Public Works inspects each structure in the spring and cleans them as necessary. Cleaning occurs when there is less than 18" from the top of sediment to the invert of the outlet pipe. The inspection date and cleaning date are documented in the spreadsheet.

The 2020 Annual Report included collection of 160 tons of material. The amount of material collected is tracked through tipping fees.

c. Material handling and disposal. Material collected under a. and b. of this sections shall be handled and stored in a manner that prevents contamination of stormwater runoff and shall be disposed of or beneficially reused in accordance with applicable solid and hazardous waste statutes and administrative codes. Nonstormwater discharges to water of the state associated with dewatering and drying material collected under sections a. and b. of this section are not authorized by this permit.

Street sweeping and storm sewer cleaning waste is dumped from the equipment daily in a pit in the yard at the Municipal Services Building. The pit drains to the sanitary sewer. On a weekly basis, the material is removed from the pit and taken to the Outagamie County Landfill for disposal. The amount of removed and disposed material is tracked on a spread sheet using weight tickets from the landfill.

- d. Leaf Management. Proper management of leaves and grass clippings from municipally owned properties and private property. On-site management and/or drop-off shall be communicated to private property owners in accordance with the public education and outreach program implemented under section 2.1 of this permit. If the permittee has a municipal collection program, collected material shall be handled and stored in a manner that prevents contamination from stormwater runoff. For a municipal leaf collection program, the permittee shall maintain the following documentation:
 - (1) A description of the leaf collection program, including the type of pick-up methodology and equipment used, timing of associated street cleaning, standard operating procedures, schedule and frequency, and instructions for private property owners.

Parks, Recreation and Facilities Management uses mulching mowers in the parks, public terraces, and at other city facilities that they maintain. Generally, no leaves or grass clippings are removed from these sites. When the pools are open, grass clippings inside the fence are bagged to keep them from getting into the pool. Mulching is used when the pools are closed. At Reid Golf Course all material is mulched or composted and kept on-site.

Appleton has two yard waste drop off sites that collect grass clippings, brush, and yard waste from residents. A fee is charged for each bag of grass clippings as an incentive to mulch grass or compost at home.

Leaves are collected by the Department of Public Works Operations Division in the fall in approximately three (3) cycles through the city. Some leaves are ground and made available to residents as mulch. Other leaves are applied to farm fields and provided to landscapers. Grass clippings are currently mixed with other ground yard waste and provided to the public.

Residents are asked to rake their leaves into the road gutter for pickup by the City. Residents are also allowed to place other bulk materials (sticks, garden debris, etc.) out for pickup at the same time. The City has 4 single-axle dump trucks with modified leaf pushers/rakes that collect leaves into large piles which are then picked up by front end loaders with a clamshell bucket that loads the leaves into trucks for disposal. Street cleaning follows the leaf collection with a mechanical sweeper. The mechanical sweeper is used to pick up larger garden debris and works during colder temperatures.

(2) An estimate of the weight in tons of material collected annually.

Appleton collects approximately 5250 tons of leaves each year.

(3) Municipally operated leaf disposal locations with a key corresponding to the locations on the storm sewer system map required under section 2.8. If the disposal location is outside of the MS4 boundary, then the permittee can provide documentation if the disposal is taken elsewhere.

After leaves are collected they are temporarily stored at a City-owned parcel in the Town of Center (W4915 CTH O) and a City owned site at Sandra Street and Glendale Street. The City works with area farmers to take leaves for incorporation into their fields. Locations vary year to year. Final disposal locations used in 2020 include:

- Todd Whittman. 8693 State Park Rd. Menasha
- Dan Stumpf, Hwy 114 Harrison
- Scott VandenBerg, Cornerstone Farm, N4065 CR U
- Matt Stumpf, Manitowoc Rd
- B-Ann Farms Kaukauna 55 S/O KK
- Dave VanElzen, Hwy 114 Harrison
- Kendall Vosters, W2594 Cty Rd JJ
- Darin Tiedt, N4151 Cty Rd PP
- Larry Van Handel, S/E corner of Buchanon Rd. and Secluded Ct.
- N5310 Cty Rd PP

2.6.6 Winter Road Management. If road salt or other deicers are applied by the permittee or a contractor on behalf of the permittee, no more shall be applied than necessary to maintain public safety. Documentation on deicing activities shall be performed by the permittee or a contractor on behalf of the permittee and include the following:

a. Contact information for the individuals with overall responsibility for winter roadway maintenance.

The following people are responsible for winter roadway maintenance:

1. Nate Loper, Deputy Director of Public Works – Operations Office 920-832-5804, Cell 920-419-6225, nathan.loper@appleton.org

- 2. Lance Wilkinson, Operations Foreman, Department of Public Works Office 920-832-5581, Cell 920-419-0265, lance.wilkinson@appleton.org
- 3. Paula Vandehey, Director of Public Works
 Office 920-832-6474, Cell 920-419-6713, paula.vandehey@appleton.org

b. A description of the types of deicing products used.

The Department of Public Works Operations Division (streets) uses the following: Granular sodium chloride (road salt)

Liquid sodium chloride 28%, salt brine, prewet and anti-ice application Liquid calcium chloride 42% prewet application – mixed 20/80 (calcium/salt brine)

c. The amount of deicing product used per month.

This information will be tracked through the City's inventory system and reported annually.

d. A description of the type of equipment used.

The Department of Public Works Operations Division (streets) operates the following equipment:

- 10 tri-axle plow trucks, wing and plow, tailgate salt spreader with prewet capabilities
- 15 single axle plow trucks, wing and plow, tailgate salt spreader with prewet capabilities
- 6 front end loaders with a wing and plow
- 2 road graders with a wing and plow
- 2 one ton plow trucks with a salt spreader
- 3 sidewalk snow plows with a salt spreader

e. An estimate of the number of lane-miles treated with deicing products for the roadways that the permittee is responsible for, and an estimate in acres of the total area of municipally owned parking lots treated with deicing products by the permittee or contractor.

The City treats approximately 800 lane miles of roadways and approximately 10 acres of municipally owned parking lots with de-icing materials.

f. If applicable, snow disposal locations with a key corresponding to the locations on the storm sewer map required under section 2.8.

South side of the intersection of E. Glendale Avenue and N. Sandra Street NE Corner of Kensington Drive and Express Court 701 S. Whitman Drive

g. A description of anti-icing, pre-wetting and brining, equipment calibration, pavement temperature monitoring, and/or salt reduction strategies implemented or being considered, and/or alternative products.

The Department of Public Works Operations Division has a written "Snow and Ice Control Program" adopted by the Common Council to address winter street maintenance. This program does not commit to bare pavement, establishes proper use of chemicals, and sets guidelines for the amount of salt used per lane mile depending on temperature, the type of storm event, and the type of street. It also includes the use of pre-wetting solutions to further reduce salt usage. The equipment used to apply salt is kept in good working condition and calibrated regularly.

The Department of Public Works Operations Division considers available technologies, available equipment, locations of critical sites and available staff in determining snow and ice strategy.

The City applies liquid salt brine as an anti-ice agent prior to snow/ice storms and forecasted frost events on hills, bridges, curves and four lane roads. All equipment having a material spreader is equipped with prewet capabilities and an on-board computer system which regulates material application. This equipment is calibrated annually. The City has a snow and ice matrix that is used to evaluate impending storm conditions and helps determine the proper methodology for combating the snow event. The matrix is attached to this document. The City also subscribes to a weather service that helps establish duration, intensity and timing of a storm. In addition, the service forecasts present and future air and pavement temperatures and recommends material spreading applications.

h. Other measurable data or information that the permittee uses to evaluate or modify its deicing activities.

The primary focus of the winter road management program is to anti-ice instead of de-ice as much as possible. City staff stay current with the latest snow and ice technology by networking with vendors and other communities, attending American Public Works Association training on the topic, and sending various staff to UW-Madison and NEWSC sponsored classes regularly. New employees are trained on the program every fall.

2.6.7 Nutrient management. Application of turf and garden fertilizers on municipally controlled properties, with pervious surfaces over 5 acres each, in accordance with site-specific nutrient application schedule based on appropriate soil tests.

City owned properties with over 5 acres of pervious area include most city parks, Reid Golf Course, the Water Treatment Plant (WTP) and the Wastewater Treatment Plant (WWTP). The city also owns property with over 5 acres of pervious surface that is leased by USA Youth Sports.

This section is the responsibility of The Parks, Recreation and Facilities Management Department.

The City has a Turf Management Policy for city parks and other City owned properties, except Reid Golf Course. There are also completed soil tests and Nutrient Management Plans for all city parks, Reid Golf Course, and the Water and Wastewater Treatment Plants. The site specific Nutrient Management Plans fall under the Turf Management Policy. Reid Golf Course has a stand-alone Nutrient Management Plan, not under the Turf Management Policy. Reid Golf Course and Parks, Recreation and Facilities Management staff are certified for the proper application of lawn and garden fertilizers and follow the Nutrient Management Plans. The plans will be updated every five (5) years following new soil tests. The lease agreement with USA Youth Sports includes this requirement.

2.6.8 Environmentally sensitive development. Consideration of environmentally sensitive land development designs for municipal projects, including green infrastructure and low impact development, which shall be designed, installed, and maintained to comply with a water quality requirement under this permit.

The Parks, Recreation and Facilities Management Department will add this requirement to Requests for Proposals for designs of municipal building projects.

The Department of Public Works evaluates street width for every reconstruction project. Streets are narrowed, increasing terrace width for trees and grass, whenever possible.

2.6.9 Internal training and education. At a minimum, the permittee shall hold one annual training event for appropriate municipal staff and other personnel involved in implementing each of the elements of the pollution prevention program under this section 2.6. Documentation shall be maintained of the date, the number of people attending this training, the names of each person attending and a summary of their responsibilities, and the content of the training. The permittee shall inform contractors performing any services to implement section 2.6 of the permit requirements and expectations. The permittee shall also inform their elected officials of the permit requirements and expectations.

Each Department impacted by this section of the Permit is required to provide training to their own personnel regarding the implementation of this plan. Some of the topics may be applicable to multiple departments and combined training efforts will be used whenever the time and topic are appropriate. Training will be incorporated into existing training programs.

Attachments:

Municipal BMP Table (2.6.1) Leona Pond Operation and Maintenance Plan (2.6.2) Northland Biofilter Operation and Maintenance Plan (2.6.2) 2021 Snow and Ice Matrix (2.6.6)

2.6.1 Stormwater Practices Inventory (Last Updated 12/31/2020)

DNR			Construct		Record
BMP ID	BMP Name	BMP Type	Year	O&M Plan?	Dwg?
1	Coop Road Pond	Wet Pond	2008	Υ	Υ
2	Plank Road Northwest Pond	Wet Pond	2005	Υ	Υ
3	Memorial Park Northeast Pond	Wet Pond	2007	Υ	Υ
4	Kensington Pond (aka Southeast Pond) and Dam	Wet Pond	2009	Υ	Υ
6	Ballard Pond (aka Northeast Wetland Det Pond)	Wet Pond	1996	Υ	Υ
7	Plank Road Pond	Wet Pond	2000	Υ	Υ
8	Southpoint Commerce Park Pond North (aka K2A Pond)	Wet Pond	2004	Υ	Υ
9	Plank Road West Pond	Wet Pond	2005	Υ	Υ
10	French Road Northeast Business Park Pond	Wet Pond	1996	Υ	Υ
11	Emerald Valley Pond	Wet Pond	2006	Y	Υ
12	Glenhurst West Pond	Wet Pond	2003	Y	Υ
13	Ashbury Pond	Wet Pond	2000	Y	Υ
14	Meade Evergreen Pond	Wet Pond	2001	Υ	Υ
15	Mud Creek South Pond	Wet Pond	2002	Y	Υ
16	Meade Pond (aka Meade-JJ Pond)	Wet Pond	2001	Y	Y
19	Glenhurst East Pond	Wet Pond	2003	Y	Y
20	Apple Hill Farms East Pond	Wet Pond	2005	Y	Y
21	Crossing Meadows Pond	Hybrid Pond	1997	In Progress	Y
22	Apple Hill Farms Pond G-1	Wet Pond	2006	Y	Y
23	Apple Hill Farms Pond 3	Wet Pond	2008	Y	Y
23	Apple Hill Farms Pond 3 Apple Hill Farms Pond 1A	Wet Pond Wet Pond	2004	Y	Y
	Apple Hill Farms Pond 1B				
24	• • •	Wet Pond	2004	Y	Y
25	Apple Hill Farms Pond 4	Wet Pond	2004	Y	Y
26	Apple Hill Farms Pond 6	Wet Pond	2004	Y	Y
27	Southpoint Commerce Park Pond South (aka K2B Pond)	Wet Pond	2004	Y	Y
28	Pershing 441 Pond (aka Pershing Pond)	Wet Pond	2009	Y	Υ
29	Apple Hill Farms Pond Dry Pond (aka Pond HP or Low Pond)	Dry Pond	2005	In Progress	Y
30	Apple Hill Farms Pond High Pond (and u.s. grass swale)	Wet Pond	2005	Y	Y
31	Apple Hill Farms Pond 5	Wet Pond	2004	Y	Y
32	Clearwater Creek Pond	Wet Pond	2007	Y	Y
33	Holland Road Pond and Dam	Wet Pond	1998	Y	Υ
34	Conkey Pond	Wet Pond	2011	Y	Υ
35	Memorial Park South Pond	Wet Pond	2011	Y	Υ
36	Northland Ave Biofiltration	Biofilter	2009	Υ	Υ
37	College Ave Biofilter Southwest	Biofilter	2009	Υ	Υ
38	College Ave Biofilter Northeast	Biofilter	2009	Υ	Υ
39	College Ave Biofilter Southeast	Biofilter	2009	Υ	Υ
40	Apple Hill Farms Mackville Rd (aka F-1) Pond	Wet Pond	2008	Υ	Υ
41	Apple Hill Farms Thomas Ct (aka E-2) Pond	Wet Pond	2008	Y	Y
42	Reid Golf Course South Pond	Wet Pond	2013	Υ	Υ
43	Reid Golf Course East Pond	Wet Pond	2013	Υ	Υ
44	Glacier Ridge Werner NW Pond	Wet Pond	2007	Υ	Y
45	Glacier Ridge Werner SW Pond	Wet Pond	2007	Υ	Υ
46	Glacier Ridge Werner S Pond	Wet Pond	2007	Y	Υ
47	Glacier Ridge Southeast (Kurey) Pond	Wet Pond	2007	Y	Y
48	Cotter Street Pond	Wet Pond	2017	Y	Y
49	Lightning JJ Pond	Wet Pond	2017	Y	Y
50	Northland Pond	Wet Pond	2018	Y	Y
51	Leona Pond	Wet Pond	2019	Y	In Progre
52	Schindler 441 Pond	Wet Pond Wet Pond	2019	Y	In Progres
53	Spartan Bear Creek Pond (Pond 2)	Wet Pond	2019	Y	In Progres
54	Spartan Lift Station Pond (Pond 4)	Wet Pond Wet Pond	2020	Y	
55	Spartan Haymeadow Pond (Pond 5)		2020	Y	In Progres
	` ` ` `	Wet Pond		Y	In Progres
56	Apple Ridge Pond A	Wet Pond	2019		In Progre
57	Apple Ridge Pond B	Wet Pond	2020	Y	In Progres
58	Apple Ridge Pond C	Wet Pond	2020	Y	In Progre
59	North Edgewood Estates Pond	Wet Pond	2019	Y	In Progres
60	Broadway Hills Pond South	Wet Pond	2020	Υ	In Progres
61	Broadway Hills Pond North	Wet Pond	2020	Υ	In Progres

Operation and Maintenance Plan

51. Leona Pond

Last Updated: 12/31/2020

Responsible Party

The City of Appleton Department of Public Works is the party responsible for the operation and maintenance of the pond.

Pond Location and Components

Pond location and components are indicated on the record drawings on file with the City of Appleton Department of Public Works.

Inspection Requirements

The City will inspect the entire pond area a minimum once per year for erosion, condition of inlet/outlet pipes and structures, visible sedimentation/scouring of the pond that may impact function, condition of vegetation, damage from burrowing and/or herbivorous animals, and trash. Areas of concern will be documented and repairs will be made in a timely manner by the City of Appleton or its agents. If feasible, non-vegetation components should be inspected before or early in the growing season to reduce the likelihood that vegetation will obscure pond components. If feasible, vegetation components should be inspected in the mid- or late-growing season.

Operation and Maintenance Requirements

Sediment Accumulation

The pond relies on a permanent pool depth of at least 3 feet, measured from the normal water level to the top of any accumulated sediment within the forebays and main bays. This depth should be measured approximately every 10 years, sooner if conditions warrant (e.g. accumulated sediment visible from surface). Additionally, any sediment that obstructs flow into or out of the pond, such as in/around the inlet/outlet pipes and/or structures, should be removed.

If feasible, dredging of large quantities of sediment should be performed in the winter to minimize damage to pond vegetation. Dredging/disposal of sediment from the forebays and main bay shall be performed in accordance with NR 528.

Care should be taken to dredge no deeper than pond bottom design elevations, to prevent excavation through the clay lining the pond bottom.

Inlet and Outlet Pipes and Structures

inlet and outlet pipes and structures should be kept free of sediment and debris that may impact their function. Pipes and structures should be structurally sound to prevent leaks that could impact design function, such as release rates and water levels.

The inlet and outlet structures, including storm sewer components, will be checked during annual inspections for defects or deterioration. Items in disrepair should be fixed as soon as is feasible. Accumulated sediment, debris and litter should be removed periodically.

Pond Safety Shelf/Slopes/Embankments

Pond safety shelf and sideslope vegetation is self-sustaining and does not require mowing, other than maintenance mowing intended to reduce weeds. Qualified individuals familiar with native vegetation should perform maintenance as needed to prevent excessive weed growth. Appropriate techniques may include spot herbiciding, mowing, spot mowing, cutting/treatment of woody vegetation, and the like. If plugging or replacement seeding is indicated due to loss of plants, the species mix per the construction documents should be used unless otherwise indicated by the engineer.

The pond does not rely on safety shelf vegetation to perform its primary function of Total Suspended Solids removal, but such vegetation provides aesthetic and habitat benefits while reducing the area available for weed growth, as desired by the City.

If erosion occurs, the area should be reseeded and/or plugged after replacing any lost topsoil. Placement of temporary erosion control practices such as erosion control blankets may be needed during vegetation establishment. Shoreline erosion caused by wave action, fluctuating water levels, and or animals such as muskrats is also possible. Such erosion may reduce or eliminate the vegetation in the affected area. If this occurs, the shoreline should be restored and protected with vegetation and/or temporary or long-term practices such as erosion mats, Turf Reinforcement Mats, and coir logs that are suitable for the wet environment.

Trees and other woody vegetation shall be kept out of any embankment (earth fill) areas to help ensure structural integrity of the embankment is maintained.

Permanent Pool Area

Permanent pools should be monitored for excessive algae growth. Appropriate treatment, such as cutting, physical removal, and application of chemicals according to manufacturer guidelines are techniques that may be appropriate. Chemical application requires prior WDNR permitting.

If aquatic weeds are detected, DPW should consult with a qualified individual or firm knowledgeable in pond biology to help determine a proper plan for inspection, monitoring, treatment, and/or removal. Natural predators, such as dragonfly larvae and amphibians, tend to keep nuisance insects in check on wet stormwater ponds. If nuisance insect or other wildlife are suspected, an investigation should be conducted. The City of Appleton Health Department has individuals qualified to test for mosquito larvae. If treatment is warranted. WDNR requirements are to be followed.

Nuisance Wildlife

Muskrats and other burrowing wildlife are often associated with pond problems. The holes they burrow can lead to leakage, unstable shorelines or even embankment failure. In addition, muskrats feed on wetland vegetation that may be established within the pond. Particular attention should be given to the pond embankments to prevent failure. Muskrat populations can be controlled by trapping as required.

Debris and Litter

The stormwater pond may collect debris and litter. It is recommended that the debris that may affect flow into or out of the pond is removed on a regular basis. The structure at the outlet of the pond may also collect debris. The outlet structure will be inspected annually and after large storms and any debris should be removed to ensure proper performance. Debris trapped inside the outlet structure should also be removed.

Maintenance Tasks

The following tasks are anticipated on an as-needed basis:

Periodic Maintenance:

- Remove accumulated debris and litter from pond inlet and outlet structures including storm sewers.
- Check for erosion on pond side slopes and around inlet/outlet structures. Repair as necessary.
- Check for animal burrow in shoreline, sideslopes, and pond embankments. Repair as necessary.

Seasonal Maintenance: Spring (and/or after large events)

- Remove accumulated debris and litter from pond outlet and trash racks.
- Check and repair pond outlet structure for cracks or other undesirable condition.
- Check and repair pond inlet area for settlement and/or erosion above and around the inlet area or other undesirable condition.
- Remove invasive plants as may be recommended by engineer. Control by hand pulling, herbicide application and/or mowing.
- Plant, or seed, additional plants in bare spots or areas with vegetation that is not sufficiently robust to prevent erosion.

Seasonal Maintenance: Fall

- Remove unwanted woody vegetation from pond side slopes and embankments. Remove by hand pulling, brushing and/or mowing. Undesirable woody vegetation can be mowed.
- Maintain vegetation along pond side slopes as appropriate.

Infrequent Maintenance

Approximately every ten years, measure sediment levels within the pond and evaluate the need for sediment removal. A minimum pond depth of 3 feet should be maintained to allow for settling of and prevent resuspension of stormwater pollutants.

Operation and Maintenance Plan 36 Northland Biofilter Last Updated: 12/31/2020

Responsible Party

The City of Appleton Department of Public Works is the party responsible for the operation and maintenance of the Biofilter.

Biofilter Location and Components

Biofilter location and components are indicated on the record drawings on file with the City of Appleton Department of Public Works.

Inspection Requirements

The City will inspect the entire Biofilter area a minimum once per year for erosion, condition of inlet/outlet pipes and structures, visible sedimentation/scouring of the Biofilter that may impact function, condition of vegetation, damage from burrowing and/or herbivorous animals, sinkholes, prolonged standing water, and trash. Areas of concern will be documented and repairs will be made in a timely manner by the City of Appleton or its agents. If feasible, non-vegetation components should be inspected before or early in the growing season to reduce the likelihood that vegetation will obscure Biofilter components. If feasible, vegetation components should be inspected in the mid- or late-growing season.

Operation and Maintenance Requirements

Inlet and Outlet Pipes and Structures

Inlet and Outlet Pipes should be kept free of sediment and debris that may impact their function. Pipes and structures should be structurally sound, so as to prevent leaks that could impact design function, such as release rates and water levels. The inlet and outlet structures, including storm sewer components, will be checked during annual inspections for defects or deterioration. Items in disrepair should be fixed as soon as is feasible. Accumulated sediment, debris and litter should be removed periodically.

Biofilter Slopes/Embankments

Biofilter sideslope/embankment vegetation is turf grass that requires occasional mowing. In case of excessive weed growth, appropriate techniques may include spot herbiciding, mowing, spot mowing, cutting/treatment of woody vegetation, and the like. If plugging or replacement seeding is required due to loss of plants, the species mix per the construction documents should be used unless otherwise indicated by the engineer.

If erosion occurs, the area should be reseeded and/or plugged after replacing any lost topsoil. Placement of temporary erosion control, such as erosion control blankets, may be

needed during vegetation establishment. Shoreline erosion caused by wave action, fluctuating water levels, and or animals such as muskrats is also possible. Such erosion may reduce or eliminate the vegetation in the affected area. To correct, the shoreline should be restored and protected with vegetation and/or temporary or long-term practices such as erosion mats, Turf Reinforcement Mats, and coir logs that are suitable for the wet environment.

Smaller native woody vegetation such as Dogwood species are appropriate, but larger woody vegetation such as trees have large root structures that can weaken slopes and embankments, and should be removed to help ensure structural integrity of the sideslope/embankment.

Engineered Soil Area

The interior of the Biofilter's visible surface contains a flat bottom that is bound by the Biofilter side slopes. This area consists of a vegetated surface beneath which lies an engineered soil layer at least 2 feet thick designed to allow the slow filtration of runoff, removing pollutants as it passes through to the bottom of the practice. Once there, the treated runoff is collected in an underdrain pipe and routed to the Biofilter outlet pipe. Biofilter function relies on relatively uniform passage of runoff through the bulk of the engineered soil layer, without significant "short cuts" of flow that bypass treatment. Typically, these "short cuts" consist of voids that appear as depressed areas, or "sinkholes" at the biofilter surface. Repeated formation of multiple sink holes, and/or failure of a biofilter to empty standing water within 30 hours of a rainfall even, is evidence that the engineered soil layer is reaching the end of its useful life and must be replaced.

The engineered soil surface area should be monitored for sinkholes and evidence of prolonged (more than 30 hours) standing water after an event. If sinkholes are detected but evidence does indicate the engineered soil must be completely replaced, the sinkhole should be filled with replacement engineered soil meeting DNR standards.

The engineered soil surface area contains native deep-rooted plants to resist erosion and improve aesthetics. The roots of such plants may offer additional sites for pollutant removal and encourage filtration through the engineered soil layer, but are not necessary for the Biofilter to perform its primary function for removal of Total Suspended Solids. If such plants are missing or in poor health, consider replacement plants to help resist erosion and for aesthetic purposes.

The Biofilter engineered soil area surface was initially constructed with a hardwood mulch layer to help resist erosion and aid in the establishment of the native plants. Once the plants have achieved full growth and density, the mulch layer may not be necessary to prevent erosion. If plants are not sufficient to prevent erosion, consider replacing areas of sporadic or missing mulch.

If weeds are detected, they should be removed via herbicide, pulling, or mowing.

Smaller native woody vegetation such as Dogwood species are appropriate, but larger woody vegetation such as trees have large root structures that can create short cuts through the engineered soil layer, and should be removed.

Nuisance Wildlife

Muskrats and other burrowing may cause Biofilter problems. The holes they burrow can lead to leakage, unstable surfaces or even embankment failure. In addition, muskrats feed on

wetland vegetation that may be established within the Biofilter. Particular attention should be given to the Biofilter embankments to prevent failure. Muskrat populations can be controlled by trapping as required.

Debris and Litter

The stormwater Biofilter may collect debris and litter. The vegetation within the Biofilter will help to hide the debris and it is recommended that the debris that may affect flow into or out of the Biofilter is removed on a regular basis. The structure at the outlet of the Biofilter may also collect debris. The outlet structure will be inspected annually and after large storms and any debris should be removed to ensure proper performance. Debris trapped inside the outlet structure should also be removed.

Maintenance Tasks

The following tasks are anticipated on an as-needed basis:

Periodic Maintenance:

- Remove accumulated debris and litter from Biofilter inlet and outlet structures including storm sewers.
- Check for erosion on Biofilter side slopes and around inlet/outlet structures. Repair as necessary.
- Check for animal burrow in shoreline, sideslopes, and Biofilter embankments. Repair as necessary.

Seasonal Maintenance: Spring (and/or after large events)

- Remove accumulated debris and litter from Biofilter outlet and trash racks.
- Check and repair Biofilter outlet structure for cracks or other undesirable condition.
- Check and repair Biofilter inlet area for settlement and/or erosion above and around the inlet area or other undesirable condition.
- Remove invasive plants as may be recommended by engineer. Control by hand pulling, herbicide application and/or mowing.
- Plant, or seed, additional plants in bare spots or areas with vegetation that is not sufficiently robust to prevent erosion.
- Inspect for sinkholes and evidence of prolonged standing water. Spot repair with replacement engineered soil as appropriate.

Seasonal Maintenance: Fall

- Remove unwanted woody vegetation from Biofilter side slopes and embankments.
 Remove by hand pulling, brushing and/or mowing. Undesirable woody vegetation can be mowed.
- Maintain vegetation along Biofilter side slopes as appropriate.

Infrequent Maintenance

Inspect biofilter for frequent and/or multiple sinkholes and for evidence of prolonged (more than 30 hours) standing water. If this to continues to occur without significant improvement after a designated monitoring period is complete, replace the entire engineered soil layer with material and methods meeting DNR requirements.

SNOW & ICE CONDITIONS FLOW CHART

	Ice Storm	Above 20° Ice Storm <1.5" >1.5"		10° to 20° <1.5" >1.5"		0° to 10° <1.5" >1.5"		Below 0° <1.5" >1.5"		New Concrete Streets <1.5" >1.5"	
	ice Storiii			†		A					
Plow Blade Down	No	' No	Yes	¹ No	Yes	¹ No	Yes	¹ No	Yes	¹ No	Yes
see Note 1		¥ _{Yes}	Yes	♦ Yes	Yes	♦ Yes	Yes	♦ Yes	Yes	▼ Yes	Yes
Sodium Chloride Rock Salt	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes Chip Mix	Yes Chip Mix	** See note below	** See note below
Sand	Yes	No	No	No	No	No	No	Yes	Yes	Below 0°	Below 0°
Chips	Yes	No	No	No	No	No	No	Yes	Yes	Below 0°	Below 0°
Prewet	No	Yes	Yes	Yes	Yes	Yes 80/20 only	Yes 80/20 only	*See note below	*See note below	**See note below	**See note below
Anti-Icing		Brine	rine Brine	Mix	Mix	No	No	No	No	No	No
(80 gal/lane mile)		or Mix	or Mix	Mix	IVIIX	INO	INU		INO	INO	INO

80/20 mix will be 80% salt brine and 20% calcium chloride, January 1st to March 1st only, prewet @ spinner (25 gal/ton)

Sand or chips only used with deputy director approval. Use sparingly as a last resort, until able to cut ice with grader or conditions improve.

- **↑** Conditions getting better
- **♦** Conditions getting worse

*Do not prewet with brine or 80/20 mix when temperatures are below 0 degrees. If necessary, calcium chloride may be used but never on new concrete streets.

Salt Calibration Options

- 1. 100 pounds (standard)
- 2. 200 pounds
- 3. 300 pounds
- 4. Blast 600 lbs for 15 seconds
- 5. Trucks will mount plows (standard)

Salting Instructions

Arterials & Collectors - Salt both directions (up and back) Residential Streets - Salt one direction (last pass only)

Note 1: Plow mains when >1 inch of accumulation

Pre-Wet Calibration Options 1. 15 gal/ton

- 2. 20 gal/ton
- 3. 25 gal/ton (standard)

Revised 2/17/2021

Calcium is 42% before adding to brine

^{**}New concrete, **primary** streets will be salted the full length. Brine or 80/20 prewet only used on new concrete, primary streets.

^{**}New concrete, **secondary** streets will be spot salted at intersections only. **No 80/20 prewet** used on new concrete, secondary streets.

WATER MAIN BREAK/ JOINT LEAK REPORT - JANUARY 2021

YEARLY WATER MAIN BREAK COMPARISON

MONTH 20	MONTH 21	YTD 20	YTD 21
11	17	11	17

LOCATION	WORK ORDER	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	DOLLAR VALUE OF WATER REVENUE LOSS**	
3431 S. Kernan Ave.	280159	DIP	12"	1978	2 1/2" Hole	4 Hours	253,244	\$1,539.72	
NOTES: Call came in from	the Police	Dept. to our	3rd shift Stre	et Sweepers	s. Duration is based	d on time of call			
1829 N. Linwood Ave.	280166	CIP	8"	1961	1/4" Crack	5 Hours	321,610	\$1,955.39	
NOTES: Resident called in	water bub	bling in road.	Duration is b	ased on tim	ne of call.				
425 Covenant Ct.	280168	DIP	8"	1980	4" Hole	4 Hours	579,862	\$3,525.56	
NOTES: Police Dept. repo	rted break.	Duration is b	ased on time	of call to be	eing fixed.				
94 Crestview Dr.	280169	CIP	8"	1961	1/16" Crack	4 Hours	60,779	\$369.54	
NOTES: Police Dept. reported break. Duration is based on time of call to being fixed.									
Fourth St									
(West of Mason)		CIP	8"	1967	1/32" Crack	5 Days	815,431	\$4,957.82	
Break was found as noise was heard on hydrant. Duration is based on soil saturation. Leak was not repaired as its on a dead end line that's up for replacement this 2021 construction season. Valve was shut off.									

^{**}Water Loss is calculated at the residential rate of \$6.08 per 1000 gallons.

LOCATION	WORK ORDER	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	DOLLAR VALUE OF WATER REVENUE LOSS**	
1513 N. Outagamie St.	280365	CIP	8"	1953	1/16" Crack	6 Hours	77,359	\$470.34	
NOTES: Street Sweeper fo	ound while	out salting. D	uration is bas	sed on soil o	luration and from fi	nding to being f	ixed.		
1935 N. Bennett St.	280485	CIP	6"	1953	1/8" Hole	7 Days	23,181	\$140.94	
NOTES: Heard noise on the hydrant. Duration is determined by soil saturation and the date of the last hydrant test.									
Easthaven Ct. & Schaefer St.	280579	DIP	8"	1980	4" Hole	4 Hours	608,164	\$3,697.64	
NOTES: Police Dept. repor	rted break.	Duration is b	ased on time	of call to be	eing fixed.				
1001 E. Florida Ave. NOTES: Resident call in as	280580 s sump pur	CIP mp was runnii	8" ng. After start	1969 ting repair, o	1/64" Crack determined it was ru	10 Days unning for a little	981,909 e while.	\$5,970.01	
Pine St. & Douglas St.	280709	CIP	6"	1953	Two 3" Holes	20 Minutes	53,818	\$327.21	
NOTES: Broke after water was turned back on. Was shut off right away.									
1617 W. Pine St.	280757	CIP	6"	1953	Three 3" Holes	2 Hours & 10 Minutes	176,132	\$1,070.88	
NOTES: Water in road was called in. Repaired three holes, each hole was 3". Duration is based on time of call and soil saturation.									

^{**}Water Loss is calculated at the residential rate of \$6.08 per 1000 gallons.

LOCATION	WORK ORDER	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	DOLLAR VALUE OF WATER REVENUE LOSS**	
2425 N. Division St.	280792	CIP	6"	1957	1/16" Crack	8 Hours	70,618	\$429.36	
NOTES: Reported by the A	Appleton Po	olice Dept. Du	uration is bas	ed on soil s	aturation.				
Fidelis St. & Forest St.	280823	CIP	8"	1964	1/64" Crack	18 Days	1,467,776	\$8,924.08	
Noise was heard found.	Noise was heard on the Hydrant and with correlator. Break never surfaced. Duration was based on the start of the year till it was								
1031 S. Mathias St.	280856	CIP	8"	1962	1/64" Crack	19 Days	517,234	\$3,144.78	
NOTES: Found when testing found.	ng the hydi	rant and with	the correlator	r. Break nev	er surfaced. Durati	on went back to	the start of the y	ear till it was	
Montclaire Ct.	280903	CIP	8"	1964	1/64" Crack	20 Days	435,295	\$2,646.59	
Found when testing found.	ng the hydi	rant and with	the correlator	r. Break nev	er surfaced. Durati	on went back to	the start of the y	ear till it was	
901 E. Capitol Dr.	281212	DIP	12"	1967	2" & 3" Hole	6 Hours	1,636,515	\$9,950.01	
NOTES: Reported by the Appleton Police Dept. Duration is based on neighbor reports of hearing noises all night in her house.									
1733 N. Division St.	281409	CIP	6"	1950's	1/16" Crack	8 Hours	87,445	\$531.67	
NOTES: Reported in by Police Dept. Duration is based on time of call and soil saturation.									

In addition to the dollar value of water revenue lost, there is an average cost of \$9,000 to repair each water main break (including final restoration) and an average cost of \$630 to produce the lost water for each main break.

^{**}Water Loss is calculated at the residential rate of \$6.08 per 1000 gallons.