

Final Report

Urban Nonpoint Source & Storm Water Construction & Targeted Runoff Management Small-scale Urban TMDL Grant Program

Form 3400-189U (03/16)

Page 1 of 2

NOTICE: This document is required under s. 281.65 & s. 281.66, Wis. Stats., and chs. NR 153, 154, and 155. Wis. Adm. Code. A final project report must be submitted as part of the final reimbursement request. Personally identifiable information contained in this form will be used for determining reimbursement eligibility in the Urban Nonpoint Source & Storm Water and Targeted Runoff Management Grant Programs and will not be used for any other purpose.

INSTRUCTIONS: Send the completed, electronic copy of this form and all attachments to the Department of Natural Resources (DNR) Region Nonpoint Source Coordinator. Please read all instructions prior to completion.

Grant Type

☒ Urban Nonpoint Source Construction ☐ TRM Small-scale Urban TMDL

Project & Location Information

Governmental Unit Name

Village of Kimberly

Grant Number

USC-LF03-44141-15B

Project Name

Cedar West Pond

County

Outagamie

Watershed Name

Fox River

12-Digit HUC

040302040205

Project Contact Name

Danielle Block

Phone Number

(920) 788-7500

E-mail Address

dblock@vokimberly.org

☐ For a project with multiple site locations, an aerial photo map is attached with each site location labeled.

Site Location - 1

Additional sites may be added to the project by clicking the [+ Loc] button.

Site Name

Cedar West Pond

Nearest Receiving Waterbody

Fox River

Quarter/Quarter	Quarter	Section	Township	Range	E / W	Latitude	Longitude
SW	SE	20	21	18	E	44.275	-88.341

Summary of Results - 1

Additional BMPs may be added to this site by clicking the [+] button.

Best Management Practice Installed	Surface Area (sq. ft.)	Drainage Area (Acres)	Load Reduction				Total Construction Cost
			TSS %	TSS (tons/yr)	P (lbs/yr)	N (lbs/yr)	
Wet Detention Pond	67,551	125	82	13.1	60	166	\$702,552

Site Location Attachment - 1

Check the box if the required information for the site is attached:

☒ Photos of pre-and post-implementation of BMP(s)

☒ Load reduction modeling documents

☒ Aerial photo map of site with BMPs labeled

☐ Water quality monitoring results/summary, if applicable

Site Information - 1

Narrative space will expand to fit.

The Village of Kimberly and Village of Combined Locks constructed the Cedar West Pond within the former mill site. The site is located north of Maes Avenue and west of John Street (NW 1/4 of SE 1/4 of Section 20, T21N, and R18E) in the Village of Kimberly, Wisconsin. Cedar West Pond is owned, operated, and maintained by the Village of Kimberly and Village of Combined Locks. The purpose of constructing the Cedar West Pond is to assist the two Villages with WPDES Municipal Stormwater (MS4) Permit compliance. The purpose of the Cedar West Pond is to satisfy the following stormwater management goals for the study area:

A. Assist each Village with long-term Municipal Stormwater (MS4) Permit compliance. Pursuant to the Lower Fox River Basin TMDL, reduce the average annual Total Suspended Solids (TSS) load by 72% and average annual Total Phosphorus (TP) load by 41% as compared to no runoff management controls.

B. Reduce peak post-development (future) discharge rates to peak pre-development (current) discharge rates for the 1, 2, 10, and 100-year, 24-hour design rainfall events based on average antecedent moisture conditions.

C. Maintain or reduce peak post-development (future) water surface elevations in the upslope storm sewer as compared to

Final Report

Urban Nonpoint Source & Storm Water Construction & Targeted Runoff Management Small-scale Urban TMDL Grant Program

Form 3400-189U (03/16)

Page 2 of 2

peak pre-development (current) water surface elevations for the 1, 2, 10, and 100-year, 24-hour design rainfall events.

☒ DNR may use this site as a success story to meet state and federal reporting needs.

Additional Project Information

Narrative space will expand to fit.

Grantee Certification

A responsible government official (authorized signatory) must authorize and date the final report form and submit it electronically to the DNR Regional Nonpoint Source Coordinator.

I certify that, to the best of my knowledge, the project is complete and the information contained in this final report and attachments is correct and true.

Name of Authorized Government Official

Title of Authorized Government Official

Date

Danell Black

Administrator

1/22/18

For DNR Use Only

☒ Received complete reports with all attachments.

☒ Practices implemented were consistent with the grant agreement.

Comments about this project:

Site inspection on 12/13/17

Name of Nonpoint Source Coordinator

Date

Eric Evensen

2/2/18

Send the Final Report and attachments to the Community Financial Assistance Grants Manager and to the Runoff Management Grants Coordinator. Keep a printed copy for the Region file.

December 19, 2017 Aerial











SLAMM for Windows Version 10.3.2
(c) Copyright Robert Pitt and John Voorhees 2012
All Rights Reserved

Data file name: W:\PROJECTS\K0001\91700139\CADD\StrmWtr\SLAMM\Cedar West Pond.mdb
Data file description:
Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Green Bay WI 1969.RAN
Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx
Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx
Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std
Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdxd
Start of Winter Season: 11/25 End of Winter Season: 03/29
Model Run Start Date: 01/02/69 Model Run End Date: 12/28/69
Date of run: 12-28-2017 Time of run: 11:29:38
Total Area Modeled (acres): 125.078
Years in Model Run: 0.99

	Runoff Volume (cu ft)	Percent Runoff Volume Reduction	Particulate Solids Conc. (mg/L)	Particulate Solids Yield (lbs)	Percent Particulate Solids Reduction
Total of all Land Uses without Controls:	3.601E+06	-	141.7	31864	-
Outfall Total with Controls:	3.607E+06	-0.17%	24.92	5611	82.39%
Annualized Total After Outfall Controls:	3.657E+06			5689	

Pollutant Yield	Pol. Yield	Concentration - Percent	Concentration - No Controls Reduction	Conc. With Controls Units	Pollutant Yield No Controls	Pollutant With
Controls	Units					
Particulate Solids			141.7	24.92	31864	5611
lbs	82.39 %					
Total Phosphorus			0.4206	0.1537	94.54	34.62
lbs	63.38 %					
Total TKN			1.606	0.8650	361.0	194.8
lbs	46.04 %					

Cedar Pond (Village of Kimberly) Post Construction Site Visit

Grant #: USC-LF03-44141-15B

Eric Evensen, Wisconsin DNR Northeast Nonpoint Source Coordinator, met with Nick Vande Hey, Senior Project Engineer with McMahon Associates at the Cedar Pond site along Maes Avenue in Kimberly, WI on December 13, 2017 for the post construction site inspection. During the site visit Evensen took pictures while Vande Hey explained the project. A snow storm made the site inspection difficult but the project looked to be completed successfully. Following the inspection, Evensen requested as built designs of the pond be sent to Amy Minser, DNR stormwater engineer, and Evensen which Vande Hey did complete. Vande Hey also asked Evensen if land acquisition could still be reimbursed even though eminent domain was used to acquire the property. Evensen consulted with other DNR staff and it was determined that land acquisition via eminent domain was not eligible for reimbursement.

Pictures from the site inspection:





