



Village of Menomonee Falls
W156 N8480 Pilgrim Road
Menomonee Falls, WI 53051-3140
Telephone: (262) 532-4200

STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

Quarter Section 03 SW Name of Business/Subdivision MILL POND PARK NW LOT
Property Tax ID Number 0011146 Address of Property N90W16531 ROOSEVELT DR
MENOMONEE FALLS, WI 53051

Dry Pond	X
Wet Pond	
Other	

Description: SWP03S010
P-0221

Location Of Pond NE CORNER OF NW PARKING
LOT IN MILL POND PARK

Year Pond Constructed 2019 Year of Last Certification N/A

Compliance Verification	Design	Actual	Compliant Yes No	Comments (Condition of Structure)
Primary Outlet Pipe				Outlet Pipe Material
Opening Diameter (inches) (ST015376)	8" HDPE	8" HDPE	Y	
Upstream Invert	838.50	838.50	Y	
Downstream Invert	838.35	838.35	Y	
Length (feet)	34.0	34.0	Y	
Slope (%)	0.50 %	0.50 %	Y	
Secondary Outlet Pipe	(If Applicable)			Outlet Pipe Material
Opening Diameter (inches)				
Upstream Invert				
Downstream Invert				
Length (feet)				
Slope (%)				
Riser	(If Applicable)			Riser Material
Opening Diameter (inches) (ST017899-ST017900)	(2) 8" HDPE	(2) 8" HDPE		CAPS FOR 8 IN HDPE PIPES NOT ON PIPES. FOUND 2 OF 2 CAPS AND REPLACED ON 2
Elevation	807.00	838.40		PIPES. BRING ANOTHER 8 IN CAP AND SECURE CAPS IF APPROPRIATE.
Upper Discharge Control	(If Applicable)			
Opening Diameter (inches)				
Elevation				

Mill Pond Park (Roosevelt Dr) Rain Garden & Bio-Swale – SWP03S010

SWP03S010 Overview



Outlet ST017899



Outlet ST017900



Mill Pond Park (Roosevelt Dr) Rain Garden & Bio-Swale –
SWP03S010

Repairs Needed (11/08/21)

All green drain caps are loose... 2 of 2 were loose. Secure both caps (if appropriate).

Sketch Outlet

Place Photograph of Pond

Place Photograph of Pond

Inspection Firm: VILLAGE OF
MENOMONEE FALLS
Phone Number: (262) 532-4411
Address: VILLAGE OF
MENOMONEE FALLS
W156N8480 PILGRIM RD
MENOMONEE FALLS, WI
53051

Inspector Name: CHRISTOPHER M. GARIEPY

Inspection Date: October 19, 2021

Certifying

Professional Name: THOMAS M. HOFFMAN, P.E.

Phone Number: (262) 532-4415



Date:

4/14/2022

Signature:

[Handwritten Signature]

Affix Seal Here

MNFV0011133005

Acre Feet pond storage volume calculations for:

Mill Pond Park - NE Rain Garden by Roosevelt Lot
SWP03S010

837.60 = Entered Value
838.67 = Calculated Value
0.00 = Description of Elevations Calculated

Year of Inspection: **2021**

Example: $H = H2 - H1$, where $H2 > H1$

H1 =	837.60	Lower Height Elevation in Feet (Pond Bottom for Dry Pond OR Top of Observed Water Level)
H2 =	838.67	Height at Bottom of Spillway (Wet or Dry)
H3 =	838.85	Higher Height Elevation in Feet (Top of Bank Around Pond - Wet or Dry)
H4 =	0.00	Bottom of Wet Pond Elevation in Feet (Wet Ponds Only)
	Sq.Ft.	Acres
Area 1 =	89.40	0.0021 Area of H1
		Area 1 = Area at Pond Bottom for Dry Pond OR Top of Observed Water Level
Area 2 =	552.00	0.0127 Area of H2
		Area 2 = Area at Bottom of Spillway
Area 3 =	552.00	0.0127 Area of H2
		Area 3 = Area at Top of Bank
Area 4 =	-	0.0000 Area of H3
		Area 4 = Area at Bottom of Pond (Wet Ponds Only)

Equation to determine Volume (AcFt) of pond storage capacity from
Bottom of Dry Pond to Bottom of Spillway:

$$V = (((H2-H1)/3)(A1+A2 + (v(A1+A2))))$$

	Feet		Acres		Acres
V=	$((H2-H1)/3)$	x	$(A1+A2)$	+	$v(A1+A2)$
V=	0.3567	x	0.0147	+	0.1213
V=	0.3567	x	0.1361		
V=	0.0485	AcFt			

Equation to determine Volume (AcFt) of pond storage capacity from
Bottom of Dry Pond to Top of Bank at Spillway:

$$V = (((H3-H1)/3)(A1+A3 + (v(A1+A3))))$$

	Feet		Acres		Acres
V=	$((H3-H1)/3)$	x	$(A1+A3)$	+	$v(A1+A3)$
V=	0.4167	x	0.0147	+	0.1213
V=	0.4167	x	0.1361		
V=	0.0567	AcFt			

Equation to determine Volume (AcFt) of pond storage capacity from
Bottom of Pond to Top of Water:

$$V = (((H1-H4)/3)(A1+A4 + (v(A1+A4))))$$

	Feet		Acres		Acres
V=	$((H1-H4)/3)$	x	$(A1+A4)$	+	$v(A1+A4)$
V=	279.2000	x	0.0021	+	0.0453
V=	279.2000	x	0.0474		
V=	13.2215	AcFt			

Equation to determine Volume (AcFt) of pond storage capacity from
Bottom of Pond to Top of Bank at Spillway:

$$V = (((H3-H4)/3)(A3+A4 + (v(A3+A4))))$$

	Feet		Acres		Acres
V=	$((H3-H4)/3)$	x	$(A3+A4)$	+	$v(A3+A4)$
V=	279.6167	x	0.0127	+	0.1126
V=	279.6167	x	0.1252		
V=	35.0200	AcFt			