

**STORMWATER MANAGEMENT FACILITIES  
 OPERATION AND INSPECTION REPORT**

Quarter Section	23 NE	Name of Business/Subdivision	OAKWOOD PARK/
Property Tax ID Number	0089962003	Address of Property	WINTER FARM POND/
			WINTER HOLLOW SUBD

Dry Pond		Description: SWP23N006 P-0074	Location Of	SOUTH OF GOOD HOPE RD &
Wet Pond	X		Pond	WEST OF LILLY RD...
Other				NEAR TERRACE DR & DENNIS
			DROESE DR	

Year Pond Constructed 1998 Year of Last Certification 2015

<b>Compliance Verification</b>	Design (Non-AsBuilt)	Actual (GPS)	Compliant Yes	Compliant No	Comments (Condition of Structure)
<b>Primary Outlet Pipe (ST011270)</b>					Outlet Pipe Material
Opening Diameter (inches)	48" RCP	48" RCP	-	-	48" RCP IN GOOD CONDITION
Upstream Invert	774.43	777.39	-	-	
Downstream Invert	N/A	774.61	-	-	
Length (feet)	114.0 FT	104.9 FT	-	-	
Slope (%)	N/A	2.65%	-	-	ELEVATIONS TO VARY SLIGHTLY FROM YEAR TO YEAR DUE TO GPS TECHNOLOGY
<b>Secondary Outlet Pipe</b>	N/A				Outlet Pipe Material
Opening Diameter (inches)			-	-	
Upstream Invert			-	-	
Downstream Invert			-	-	
Length (feet)			-	-	
Slope (%)			-	-	
<b>Riser</b>	N/A				Riser Material
Opening Diameter (inches)		96" X 96" BOX	-	-	RCP
Elevation		778.72- 781.84	-	-	@ TOP OF LOWEST ENTRY POINT FOR WATER ABOVE WEIR
<b>Upper Discharge Control</b>	(ST014026)				
Opening Diameter (inches)	N/A	SEE NOTE	-	-	V-NOTCH WEIR INTO 48" RCP
Elevation	776.73	778.72	-	-	TOP OF V-NOTCH

Compliance Verification	Design	Actual	Compliant Yes	Compliant No	Comments			
<b>Lower Discharge Control</b>	(ST014026)							
Opening Diameter (inches)	N/A	SEE NOTE	-	-	V-NOTCH WEIR INTO 48" RCP			
Elevation	774.43	777.39	-	-	BOTTOM OF WIER V-NOTCH			
<b>Other (Description)</b>	N/A							
Opening Type and Size (inches)			-	-				
Elevation			-	-				
<b>Emergency Spillway</b>								
Elevation	784.13	784.50	-	-				
Length of spillway (feet)	50.0 FT	52.3 FT	-	-				
<b>Embankment</b>	Present Yes		Comments/Maintenance Requirements					
Unauthorized Plantings, trees, or woody vegetation	-	N						
Animal burrows or slope erosion or hole	-	N						
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments			
Outfall 1 (ST011272)	RCP – 18"		SOUTHEAST POND		GOOD CONDITION			
Outfall 2 (ST011259)	RCP – 15"		SOUTH POND		GOOD CONDITION, REMOVE VGTN			
Outfall 3 (ST011273)	RCP – 72"		WEST POND		→END SECTION OFF OF STORM			
Outfall 4 (ST011274)	RCP – 72"		NORTHEAST POND		SEWER SEVERAL INCHES			
Outfall 5								
<b>Storage Properties</b>	Design (NON-ASBUILT)	Actual (GPS)	Compliant Yes	Not Applicable	Equipment Used			
Normal Water Elevation (Wet Ponds)	777.00	777.14	-	-	GPS EQUIPMENT: GEOMAX ZENITH35 & CARLSON SURVEYOR2 WITH SURV CE v5.04			
Design High Water Elevation	783.20	784.50	-	-				
Area at Normal Water Elevation (Ac) (Wet Ponds)	N/A	4.913 AC	-	-				
Area at Design High Water Elevation (Ac)	N/A	8.984 AC	-	-				
Active Storage Available (Ac-Ft)*	N/A	43.305 ACFT	-	-				
Lowest Elevation at Top of Embankment (If Applicable)	N/A	784.40	-	-				
Average Elevation at Top of Embankment (If Applicable)	N/A	785.25	-	-				
Maximum Bottom Elevation	N/A	N/A	-	-				
Average Pond Bottom Elevation	N/A	N/A	-	-				
Pond Bottom Area (Ac)	N/A	-	-	-				
Maximum Pond Depth	N/A	N/A	-	-	DEPTH NOT EVALUATED			
Average Pond Depth	N/A	N/A	-	-				
Average Permanent Pool Depth (Wet Ponds)	N/A	N/A	-	-				

\*To Determine Active Storage  $V = ((H/3)(A_1 + A_2 + ((A_1 + A_2)^{1/2})))$

Wet Ponds Use  $H = \text{Height of Section}$ ,  $A_1 = \text{area at normal water elevation}$ ,  $A_2 = \text{area at top section}$

Dry Ponds Use  $H = \text{Height of Section}$ ,  $A_1 = \text{pond bottom area}$ ,  $A_2 = \text{area at top section}$

# Oakwood Park Retention Pond – SWP23N006

## Overview



## Storm Water Outlet ST011259



## Oakwood Park Retention Pond – SWP23N006

Storm Water Outlet ST011272



Storm Water Outlet ST011273



# Oakwood Park Retention Pond – SWP23N006

Storm Water Outlet ST011274



# Oakwood Park Retention Pond – SWP23N006

## Overflow Structure ST014026



Weir



## Oakwood Park Retention Pond – SWP23N006

Storm Sewer Overflow Inlet ST011270



Storm Sewer Outlet ST011269



## Oakwood Park Retention Pond – SWP23N006

### Emergency Spillway



# Oakwood Park Retention Pond – SWP23N006

Repairs Needed (12/8/2020)

1) Storm Sewer Outlet ST011273

- Gap in Joint (60" Dia)



2) TRIP HAZARD

Newer asphalt patch in path located E of N70W14451 Terrace Dr (on the west side of the pond) has a small 2"-4" bump of asphalt sticking up on the walking path surface.

Determine best course of action to eliminate this trip hazard.

Sketch Outlet

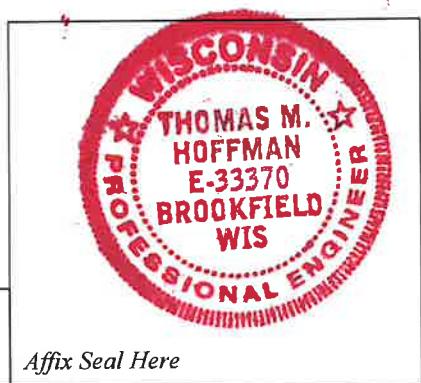
Place Photograph of Pond

Place Photograph of Pond

Inspection Firm:	<u>VILLAGE OF MENOMONEE FALLS</u>	Inspector Name:	<u>CHRISTOPHER M GARIEPY</u>
Phone Number:	<u>262-532-4411</u>	Inspection Date:	<u>12/08/2020</u>
Address:	<u>W156N8480 PILGRIM RD</u>		
	<u>MENOMONEE FALLS, WI</u>		
	<u>53051</u>		

Certifying

Professional Name: THOMAS M. HOFFMAN, P.E.  
Phone Number: (262) 532-4415



Date:	Signature:
<u>1/28/2021</u>	<u></u>

Affix Seal Here