



1-31-2017

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 15 SE Name of Business/Subdivision CENTRALIZED PUBLIC WORKS
 Property Tax ID Number 0060968001 Address of Property FACILITY
N72W15920 GOOD HOPE RD
MENOMONEE FALLS, WI 53051

Dry Pond	
Wet Pond	X
Other	

Description: SWP15S004 Location Of Pond 560 FT WEST OF PILGRIM RD
NORTH OF GOOD HOPE RD

Year Pond Constructed 2016 Year of Last Certification N/A

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches) (ST014911)	15" RCP	15" RCP	X		REINFORCED CONCRETE PIPE IN GOOD CONDITION
Upstream Invert	841.00	840.92			
Downstream Invert	839.80	839.76			
Length (feet)	77.0 FT	74.1 FT			
Slope (%)	0.26%	1.57%			
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)					
Elevation					
Upper Discharge Control			(If Applicable)		
Opening Diameter (inches)	12"	12"	X		
Elevation	843.50	840.43			

Compliance Verification	Design	Actual	Compliant		Comments
			Yes	No	
Lower Discharge Control	(If Applicable)				
Opening Diameter (inches)	4"	4"	X		
Elevation	841.00	840.86			
Other (Description)					
Opening Type and Size (inches)	36"X36"	36"X36"	X		
Elevation	846.60	846.38			
Emergency Spillway					
Elevation	847.50	847.60			
Length of spillway (feet)	5' +	15'+			
Embankment	Present		Comments/Maintenance Requirements		
	Yes	No			
Unauthorized Plantings, trees, or woody vegetation		X	POND CONSTRUCTED IN OCTOBER 2016.		
Animal burrows or slope erosion		X			
Storm Sewer Outfalls	Type & Size		Location		Comments
Outfall 1 (ST010926)	RCP – 15"		SW CORNER OF POND		CMP IN GOOD CONDITION
Outfall 2					
Outfall 3					
Storage Properties	Design	Actual	Compliant		Equipment Used
			Yes	No	
Normal Water Elevation (Wet Ponds)	841.00	840.86			GPS ROVER RECEIVER: GEOMAX – ZENITH 35 GPS BASE RECEIVER: SOKKIA 2700 RSX DATA COLLECTOR: CARLSON SURVEYOR 2
Design High Water Elevation	847.50	847.50			
Area at Normal Water Elevation (Ac) (Wet Ponds)		0.323 AC			
Area at Design High Water Elevation (Ac)		0.698 AC			
Active Storage Available (Ac-Ft)*		4.495 ACFT			
Lowest Elevation at Top of Embankment (If Applicable)	848.50	848.00			
Average Elevation at Top of Embankment (If Applicable)	848.50	848.25			
Maximum Bottom Elevation	836.00	836.00			
Average Pond Bottom Elevation	836.00	836.00			
Pond Bottom Area (Ac)		0.158 AC			
Maximum Pond Depth	11.5 FT	11.5 FT			
Average Pond Depth	5.0 FT	4.9 FT			
Average Permanent Pool Depth (Wet Ponds)	5.0 FT	4.9 FT			

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

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

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

Centralized Public Works Facility Retention Pond – SWP15S004

Overview



Storm Water Outlet ST010926



Centralized Public Works Facility Retention Pond – SWP15S004

Storm Water Overflow Structure ST014911



Storm Water Overflow Structure ST014911 Interior



Centralized Public Works Facility Retention Pond – SWP15S004

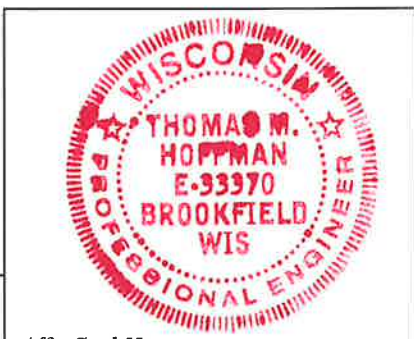
Emergency Spillway



<i>Sketch Outlet</i>	<i>Place Photograph of Pond</i>
	<i>Place Photograph of Pond</i>

Inspection Firm:	VILLAGE OF MENOMONEE FALLS	Inspector Name :	CHRISTOPHER M. GARIEPY
Phone Number:	(262) 532-4411	Inspection Date:	NOVEMBER 1, 2016
Address:	VILLAGE OF MENOMONEE FALLS W156N8480 PILGRIM RD MENOMONEE FALLS, WI 53051		

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



Date: <u>1/31/17</u>	Signature:
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Affix Seal Here