



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	14 NW	Name of Business/Subdivision	DEERFIELD SUBDIVISION
Property Tax ID Number	0054271	Address of Property	W152 N7900 COUNTRYSIDE LN
			MENOMONEE FALLS, WI 53051

Dry Pond	X
Wet Pond	
Other	

Description: SWP14N003
U-0237

Location Of Pond EAST OF GOLDENROD DR &
COUNTRYSIDE DR AT EAST END
OF DEERFIELD SUBDIVISION

Year Pond Constructed 1987 Year of Last Certification 2013

Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant Yes No		Comments (Condition of Structure)
Primary Outlet Pipe (ST005315)					Outlet Pipe Material
Opening Diameter (inches)	12" RCP	12" RCP	-	-	12" RCP IN GOOD CONDITION
Upstream Invert	818.80	819.07	-	-	12" RCP IN GOOD CONDITION
Downstream Invert	818.76	818.63	-	-	12" RCP IN GOOD CONDITION
Length (feet)	11.0 FT	11.0 FT	-	-	
Slope (%)	0.0036'/',	0.0040'/',	-	-	ELEVATIONS TO VARY SLIGHTLY FROM YEAR TO YEAR DUE TO GPS TECHNOLOGY
Secondary Outlet Pipe	N/A				Outlet Pipe Material
Opening Diameter (inches)			-	-	
Upstream Invert			-	-	
Downstream Invert			-	-	
Length (feet)			-	-	
Slope (%)			-	-	
Riser	N/A				Riser Material
Opening Diameter (inches) (ST005316)	4'3"	3'6"	-	-	REINFORCED CONCRETE/CAST IRON
Elevation	823.00	823.06	-	-	
Upper Discharge Control	N/A				
Opening Diameter (inches)			-	-	
Elevation			-	-	

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	N/A					
Opening Diameter (inches)			-	-		
Elevation			-	-		
Other (Description)	N/A					
Opening Type and Size (inches)			-	-		
Elevation			-	-		
Emergency Spillway						
Elevation	825.20	824.93	-	-		
Length of spillway (feet)	21.0 FT	32.0 FT	-	-		
Embankment	Present Yes No		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	-	N				
Animal burrows or slope erosion or hole	-	N				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1 (ST005314)	RCP - 24"		NORTHWEST CORNER		RCP IN GOOD CONDITION	
Outfall 2						
Outfall 3						
Storage Properties	Design (NON-ASBUILT)	Actual (GPS)	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	-	-	-	-	N/A	GPS EQUIPMENT: GEOMAX ZENITH 35 & CARLSON SURVEYOR2 WITH SURV CE v5.04
Design High Water Elevation	825.20	825.00	-	-		
Area at Normal Water Elevation (Ac) (Wet Ponds)	-	-	-	-	N/A	
Area at Design High Water Elevation (Ac)	-	0.256 AC	-	-		
Active Storage Available (Ac-Ft)*	-	1.331 ACFT	-	-		
Lowest Elevation at Top of Embankment (If Applicable)	-	824.93	-	-		
Average Elevation at Top of Embankment (If Applicable)	-	825.67	-	-		
Maximum Bottom Elevation	-	821.60	-	-		
Average Pond Bottom Elevation	-	820.10	-	-		
Pond Bottom Area (Ac)	-	0.027AC	-	-		
Maximum Pond Depth	-	5.9 FT	-	-		
Average Pond Depth	-	4.9 FT	-	-		
Average Permanent Pool Depth (Wet Ponds)	-	-	-	-	N/A	

*To Determine Active Storage $V = \left(\left(\frac{H}{3} \right) \left(A_1 + A_2 + \left(\left(A_1 + A_2 \right)^{\left(\frac{1}{2} \right)} \right) \right) \right)$
 Wet Ponds Use H = Height of Section , A1= area at normal water elevation, A2=area at top section
 Dry Ponds Use H= Height of Section, A1= pond bottom area, A2=area at top section

Deerfield Subdivision (Countryside & Goldenrod)
Retention Pond – SWP14N003
Overview



Outlet ST005314



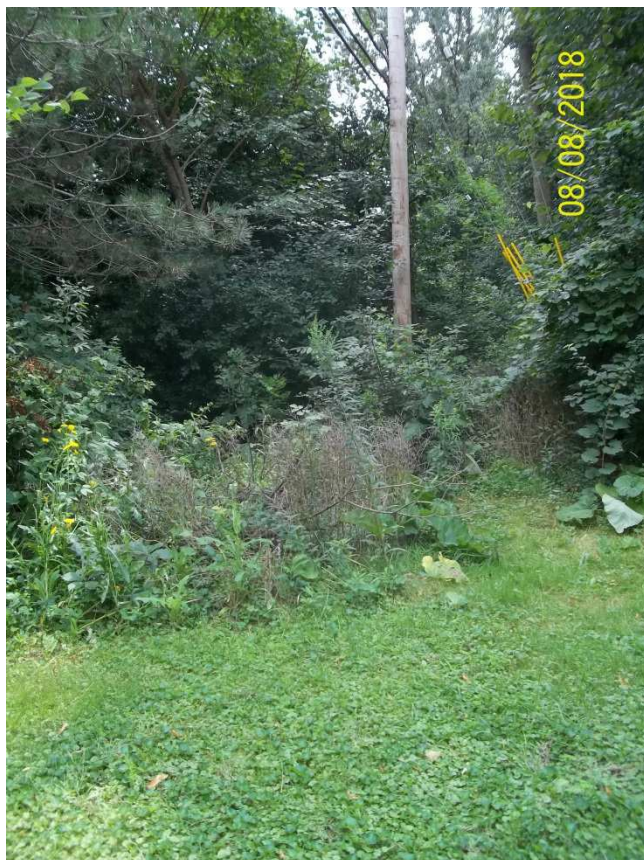
Deerfield Subdivision (Countryside & Goldenrod)
Retention Pond – SWP14N003

Inlet ST005315, Overflow ST005316, & Spillway



Deerfield Subdivision (Countryside & Goldenrod)
Retention Pond – SWP14N003

Former Brush Pile / Fire Pit on Easterly lot line under Power lines. (8/2018)



Repairs Needed (8/2018)

None

Sketch Outlet

Place Photograph of Pond

Place Photograph of Pond

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

Inspector Name : CHRISTOPHER M GARIEPY

Inspection Date: 08/08/2018

Certifying THOMAS M. HOFFMAN, P.E.

Professional Name:

Phone Number: (262) 532-4415



Date:

4/3/2019

Signature:

[Handwritten Signature]

Affix Seal Here

$$H = 825.00 - 820.10 = 4.90 \text{ FT}$$

$$A_1 = 0.027 \text{ AC}$$

$$A_2 = 0.256 \text{ AC}$$

2018

14N003

Courtesy side + Total road Base

$$V = \left(\frac{H}{3} \right) (A_1 + A_2 + \sqrt{A_1 A_2})$$

$$V = \left(\frac{4.90 \text{ FT}}{3} \right) (0.027 \text{ AC} + 0.256 \text{ AC} + \sqrt{0.027 \text{ AC} \times 0.256 \text{ AC}})$$

$$V = (1.633 \text{ FT}) (0.283 \text{ AC} + \sqrt{0.283 \text{ AC}})$$

$$V = (1.633 \text{ FT}) (0.283 \text{ AC} + 0.532 \text{ AC})$$

$$V = (1.633 \text{ FT}) (0.815 \text{ AC})$$

$$V = 1.331 \text{ AC FT} \checkmark \text{ CRG } 8/16/18$$