



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 NW ¼ of Section 26 Name of Business/Subdivision Bungalows of Menomonee Falls  
 Property Tax ID Number MNFV0102.997.003 Address of Property Menomonee Falls Bungalows Pond (North of Bobolink Ave. and east of Pilgrim Rd.)  
 Date 9-6-13

Dry Pond	
Wet Pond	X
Other	

Location of Pond Pond is located north of condos within the Bungalows located Located on Bobolink Ave.  
 Pond ID: SWP26N006

Year Pond Constructed 2008 Year of Last Certification N/A

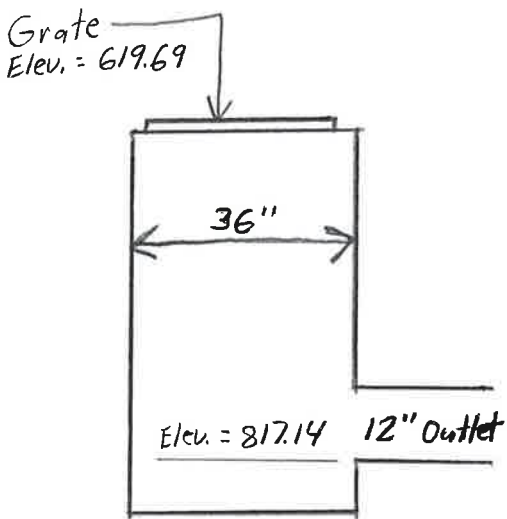
Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
<b>Primary Outlet Pipe</b>					
Opening Diameter (inches)	12	12	x		Outlet Pipe Material Outlet pipe material is reinforced concrete in good condition.
Upstream Invert	817.50	817.14	x		
Downstream Invert	815.50	816.32	x		
Length (feet)	392	81	x		
Slope (%)	0.51%	1.01%	x		
<b>Secondary Outlet Pipe</b> (If Applicable)					
Opening Diameter (inches)					Outlet Pipe Material
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b>Riser</b> (If Applicable)					
Opening Diameter (inches)	36	36	x		Riser Material Concrete in good condition, pipes are clear of sediment
Elevation	819.50	819.69	x		
<b>Upper Discharge Control</b> (If Applicable)					
Opening Diameter (inches)	3	None			Unsure if compliant, would need to model pond to determine hydraulics
Elevation	818.50	None			

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
<b>Lower Discharge Control</b>	(If Applicable)					
Opening Diameter (inches)	2	None			Unsure if compliant, would need to model pond to determine hydraulics	
Elevation	817.50	None				
<b>Other (Description)</b>						
Opening Type and Size (inches)						
Elevation						
<b>Emergency Spillway</b>						
Elevation	820.00	820.00				
Length of spillway (feet)	8	8				
<b>Embankment</b>	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X	Embankment is in good condition with grass well established			
Animal burrows or slope erosion		X				
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments	
Outfall 1	12" HDPE		Southwest corner of pond		Good condition with rip rap	
Outfall 2	15" HDPE		South and center of pond		Good condition with rip rap	
Outfall 3	12" HDPE		Southeast corner of pond		Good condition with rip rap	
<b>Storage Properties</b>	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	817.50	815.27	X			Surveyor used GPS equipment to determine elevations and areas.
Design High Water Elevation	819.50	819.69	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.16	0.057	X			
Area at Design High Water Elevation (Ac)	0.322	0.327	X			
Active Storage Available (Ac-Ft)*	0.34	0.58	X			
Lowest Elevation at Top of Embankment (If Applicable)	820.00	819.99	X			
Average Elevation at Top of Embankment (If Applicable)	822.00	821.48	X			
Maximum Bottom Elevation	812.50	812.60	X			
Average Pond Bottom Elevation	812.50	812.70	X			
Pond Bottom Area (Ac)	0.05	0.04	X			
Maximum Pond Depth	7.5	7.4	X			
Average Pond Depth	7.5	7.3	X			
Average Permanent Pool Depth (Wet Ponds)	5.0	4.8	X			

\*To Determine Active Storage  $V=H/3(A1+A2+(A1 \times A2)^{1/2})$

Wet Ponds Use  $H = \text{Height of Section}$ ,  $A1 = \text{area at normal water elevation}$ ,  $A2 = \text{area at top section}$

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


<p>Sketch Outlet or Attach to Document</p>  <p>Grate Elev. = 619.69</p> <p>36"</p> <p>Elev. = 817.14 12" Outlet</p>	<p>Place Photograph of Pond or Attach to Document</p> <p style="text-align: center; font-size: 1.5em;">SEE ATTACHED</p> <p>Place Photograph of Pond or Attach to Document</p>
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Attach As-built Survey to the Document for the first report submission

Inspection Firm:	Crispell-Snyder, a GAI Company	Inspector Name :	Jason Grota
Phone Number:	262-250-8000	Inspection Date:	9-9-13
Address:	W175 N11081 Stonewood Dr. Suite 103 Germantown, WI 53022		

Certifying Professional Name: Matthew Garon, P.E.  
 Phone Number: 262-250-8000



Date: <b>9-12-13</b>	Signature: 
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