



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 9 Name of Business/Subdivision Verona Subdivision
 Property Tax ID Number MNFV0034274 Address of Property Verona Subdivision South Pond
 Date 5-16-13 (Intersection of Main Street and Lawrence Ave.)

Dry Pond	
Wet Pond	X
Other	

Location of Pond Pond is located southwest of lots 6 and 7 of the Verona Subdivision adjacent to Main Street (S.T.H. 74) and south of Lawrence Ave.
 Pond ID: SWP09N002

Year Pond Constructed 2008 Year of Last Certification N/A

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					
Opening Diameter (inches)	12	12	X		Outlet Pipe Material Outlet pipe material is reinforced concrete in good condition.
Upstream Invert	876.00	875.55	X		
Downstream Invert	874.84	874.84	X		
Length (feet)	37	37	X		
Slope (%)	3.13%	1.92%	X		
Secondary Outlet Pipe (If Applicable)					
Opening Diameter (inches)					Outlet Pipe Material
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser (If Applicable)					
Opening Diameter (inches)	54" square	54" square	X		Riser Material Concrete in good condition Debris in box outlet structure (see attached picture)
Elevation	879.10	878.50	X		
Upper Discharge Control (If Applicable)					
Opening Diameter (inches)	4	12			
Elevation	876.00	875.40			

Compliance Verification	Design	Actual	Compliant		Comments
			Yes	No	
Lower Discharge Control	(If Applicable)				
Opening Diameter (inches)					
Elevation					
Other (Description)					
Opening Type and Size (inches)					
Elevation					
Emergency Spillway					
Elevation	879.10	879.00	X		Rip rap within spillway
Length of spillway (feet)	12	12	X		
Embankment	Present		Comments/Maintenance Requirements		
	Yes	no			
Unauthorized Plantings, trees, or woody vegetation		X	Embankment is in good condition with grass well established		
Animal burrows or slope erosion		X			
Storm Sewer Outfalls	Type & Size		Location		Comments
Outfall 1					
Outfall 2					
Outfall 3					
Storage Properties	Design	Actual	Compliant		Equipment Used
			Yes	No	
Normal Water Elevation (Wet Ponds)	876.00	875.40	X		Surveyor used GPS equipment to determine elevations and areas.
Design High Water Elevation	878.50	879.00	X		
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.072	0.068	X		
Area at Design High Water Elevation (Ac)	0.12	0.15	X		
Active Storage Available (Ac-Ft)*	0.164	0.27	X		
Lowest Elevation at Top of Embankment (If Applicable)	881.10	879.73	X		
Average Elevation at Top of Embankment (If Applicable)	881.10	880.00	X		
Maximum Bottom Elevation	871.00	871.50	X		
Average Pond Bottom Elevation	871.00	871.50	X		
Pond Bottom Area (Ac)	.001	0.001	X		
Maximum Pond Depth	8.1'	7.5'	X		
Average Pond Depth	8.1'	7.5'	X		
Average Permanent Pool Depth (Wet Ponds)	5.0'	3.9'	X		

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

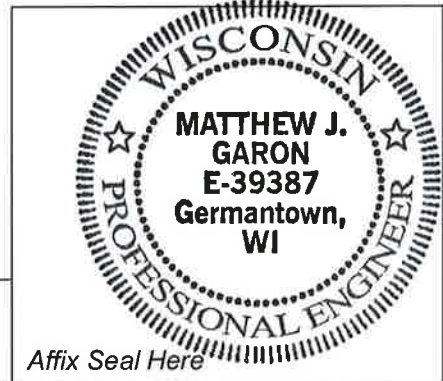
Wet Ponds Use $H = \text{Height of Section}$, $A1 = \text{area at normal water elevation}$, $A2 = \text{area at top section}$

<p><i>Sketch Outlet or Attach to Document</i></p> <div style="text-align: center; margin: 20px 0;"> </div> <div style="margin: 20px 0;"> <p><i>Top of structure elevation = 878.50</i></p> <div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">O</div> <div style="position: absolute; top: 10%; left: 10%; font-size: 0.8em;">12" orifice I.E. = 875.40</div> </div> </div> <div style="margin-top: 20px;"> <p><i>12" Outfall I.E. = 875.55</i></p> </div>	<p style="text-align: center;"><i>Place Photograph of Pond or Attach to Document</i></p> <hr/> <p style="text-align: center;"><i>Place Photograph of Pond or Attach to Document</i></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:	5-16-13
Address:	W175 N11081 Stonewood Dr. Suite 103 Germantown, WI 53022		

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



<p>Date: 5-16-13</p>	<p>Signature: <i>Matthew Garon</i></p>
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South Pond



Village of Menomonee Falls
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STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

Quarter Section NW ¼ of Section 9 Name of Business/Subdivision Verona Subdivision
 Property Tax ID Number MNFV00342 Address of Property Verona Subdivision North Pond
73 (Intersection of Main Street and
Lawrence Ave.)
 Date 5-16-13

Dry Pond	
Wet Pond	X
Other	

Location of Pond Pond is located north of lots 1 and 2 of the Verona Subdivision adjacent to Main Street (S.T.H. 74) and north of Lawrence Ave.
 Pond ID: SWP09N001

Year Pond Constructed 2008 Year of Last Certification N/A

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					
Opening Diameter (inches)	12	12	X		Outlet Pipe Material Outlet pipe material is reinforced concrete in good condition. Note: A 24" inlet pipe into the pond located at the southwest corner of the pond has sediment on the end wall as shown in the attached pictures.
Upstream Invert	866.50	865.80	X		
Downstream Invert	865.67	865.67	X		
Length (feet)	40	40	X		
Slope (%)	2.08%	0.33%	X		
Secondary Outlet Pipe (If Applicable)					
Opening Diameter (inches)					Outlet Pipe Material
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser (If Applicable)					
Opening Diameter (inches)	54" square	54" square			Riser Material Concrete in good condition
Elevation	869.10	868.30			
Upper Discharge Control (If Applicable)					
Opening Diameter (inches)	3	none			
Elevation	867.00	none			

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	6	12				
Elevation	866.50	865.60				
Other (Description)						
Opening Type and Size (inches)						
Elevation						
Emergency Spillway						
Elevation	869.11	869.00	X			
Length of spillway (feet)	12	12	X			
Embankment	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				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	12" RCP		Ditch between Main Street and pond		Good condition with rip rap	
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	866.50	865.60	X			Surveyor used GPS equipment to determine elevations and areas.
Design High Water Elevation	869.11	869.00	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.21	0.18	X			
Area at Design High Water Elevation (Ac)	0.29	0.29	X			
Active Storage Available (Ac-Ft)*	0.46	0.56	X			
Lowest Elevation at Top of Embankment (If Applicable)	871.1	869.5	X			
Average Elevation at Top of Embankment (If Applicable)	871.1	870.0	X			
Maximum Bottom Elevation	861.50	861.60	X			
Average Pond Bottom Elevation	861.50	861.80	X			
Pond Bottom Area (Ac)	0.082	0.08	X			
Maximum Pond Depth	7.61'	7.5'	X			
Average Pond Depth	7.61'	7.4'	X			
Average Permanent Pool Depth (Wet Ponds)	5.0'	4.0'	X			

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

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>Place Photograph of Pond or Attach to Document</p>
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Phone Number: <u>262-250-8000</u>	Inspection Date: <u>5-16-13</u>
Address: <u>W175 N11081 Stonewood Dr.</u> <u>Suite 103</u> <u>Germantown, WI 53022</u>	

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



Date: <u>5-16-13</u>	Signature: <u><i>Matthew Garon</i></u>
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Affix Seal Here



North Pond

24" inlet pipe to North Pond



North Pond

RECEIVED
MAY 15 2018