



2002 file

10-1-2012

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 NE SEC.4 Name of Business/Subdivision Bank Mutual
 Property Tax ID Number 0013-982 Address of Property W178 N9379 Water Tower Place
 Date: October 9, 2012 Menomonee Falls, WI 53051

Dry Pond	X
Wet Pond	
Other	

Location of Pond Northeast Side of lot.

Pond ID: SWP04N005

Year Pond Constructed 2007 Year of Last Certification NA

Compliance Verification	Design	Actual	Compliant Yes No		Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	6"	6"	X		PVC Pipe. The minor elevation and pipe length differences do not affect pond stormwater release performance.
Upstream Invert	897.85	898.27	X		
Downstream Invert	897.60	897.80	X		
Length (feet)	25	28	X		
Slope (%)	1.0%	1.68%	X		
Secondary Outlet Pipe (If Applicable)					Outlet Pipe Material
Opening Diameter (inches)	NA	NA			
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser (If Applicable)					Riser Material
Opening Diameter (inches)	12"	18"	X		Concrete Riser – Design storm peak elevations do not reach top of riser, therefore change in riser diameter does not matter.
Elevation	903.00	902.94	X		
Upper Discharge Control (If Applicable)					
Opening Diameter (inches)	3.5"	3.5"	X		Minor elevation difference does not affect pond stormwater release performance.
Elevation	900.25	900.49	X		

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	2.5"	2.5"x3"			Minor orifice size and elevation differences do not affect pond stormwater release performance	
Elevation	897.85	898.21				
Other (Description)						
Opening Type and Size (inches)						
Elevation						
Emergency Spillway						
Elevation	903.50	903.00	X		Spillway elevation and width varies but are only utilized for emergency overflow and not pond release control.	
Length of spillway (feet)	3'	10'	X			
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X				
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	18" CPP		SW Side of Pond			
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	NA	NA				
Design High Water Elevation	902.79	902.79	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	NA	NA				
Area at Design High Water Elevation (Ac)	0.17	0.17	X			
Active Storage Available (Ac-Ft)*	0.53	0.43	X			
Lowest Elevation at Top of Embankment (If Applicable)	904.50	903.70	X			
Average Elevation at Top of Embankment (If Applicable)	904.50	903.80	X			
Maximum Bottom Elevation	897.85	898.27	X			
Average Pond Bottom Elevation	NA	NA			Sloped Dry Pond	
Pond Bottom Area (Ac)	NA	NA			Sloped Dry Pond	
Maximum Pond Depth	5.65'	4.73	X			
Average Pond Depth	4.5'	3.87	X			
Average Permanent Pool Depth (Wet Ponds)	NA	NA			Dry Pond	

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

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

Sketch Outlet or Attach to Document

See pond as-built and pictures.

Place Photograph of Pond or Attach to Document

See attached photographs

Place Photograph of Pond or Attach to Document

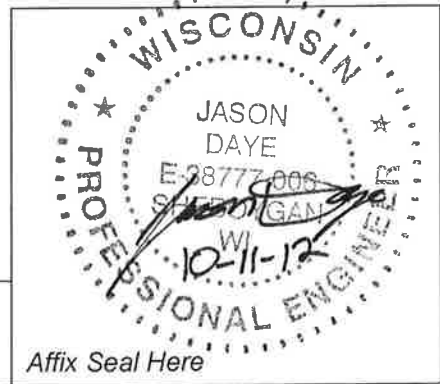
See attached photographs

Attach As-built Survey to the Document for the first report submission

Inspection Firm: Excel Engineering, Inc.
Phone Number: 920-926-9800
Address: 100 Camelot Drive
Fond du Lac, WI 54935

Inspector Name : Ashley Rhines
Inspection Date: October 1, 2012

Certifying Professional
Name: Jason Daye, P.E.
Phone Number: 920-926-9800



Date: 10-11-12

Signature: *Jason Daye*

Affix Seal Here



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Bank Mutual Pond Inspection
10/1/12



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Bank Mutual Pond Inspection
10/1/12



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10/1/12



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Bank Mutual Pond Inspection
10/1/12