



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	SE 16T8N	Name of Business/Subdivision	Edgewood Preserve
Property Tax ID Number	MNFV0064986	Address of Property	N72W17686 Good Hope Road
Date <u>10/18/2021</u>			Menomonee Falls, WI 53051

Dry Pond	
Wet Pond	X
Other	

Location of Pond West side of Subdivision

Pond ID: SWP16S006

Year Pond Constructed	<u>2020/2021</u>	Year of Last Certification	<u>NA</u>
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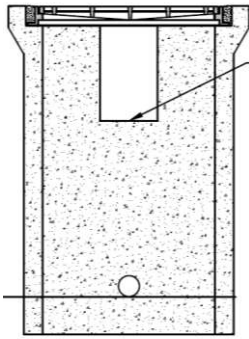
Compliance Verification	Design	Actual	Compliant Yes	No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	12	12	X		Reinforced Concrete
Upstream Invert	847.00	846.95	X		
Downstream Invert	846.80	846.79	X		
Length (feet)	33.7	33.7	X		
Slope (%)	0.4	0.5	X		
Secondary Outlet Pipe	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)	NA				
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser	(If Applicable)				Riser Material
Opening Diameter (inches)	36	36	X		Reinforced Concrete
Elevation	850.00	849.85	X		
Upper Discharge Control	(If Applicable)				
Opening Diameter (inches)	NA				
Elevation					

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	2	2	X		Cored into riser, partially covered with erosion control matting	
Elevation	847.00	846.95	X			
Other						
Opening Type and Size (inches)	NA					
Elevation						
Emergency Spillway						
Elevation	850.25	850.52	X		850.47 at Dry detention spillway	
Length of spillway (feet)	20.0	17.5	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" FES		NE side of W. portion of pond		Good condition	
Outfall 2	18" FES		NE side of E. portion of pond		Good condition	
Outfall 3	(2) 12" FES		Equalizer pipe between each portion			
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	847.00	846.95	X			Trimble Survey Grate RTK GNSS & Robotic Total Station
Design High Water Elevation	850.10	849.99	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.369	0.362	X			
Area at Design High Water Elevation (Ac)	1.439	1.350	X			
Active Storage Available (Ac-Ft)*	2.647	2.487	X			
Lowest Elevation at Top of Embankment (If Applicable)	852.00	851.56	X			
Average Elevation at Top of Embankment (If Applicable)	852.00	851.91	X			
Maximum Bottom Elevation	842.00	841.36	X			
Average Pond Bottom Elevation	842.00	841.73	X			
Pond Bottom Area (Ac)	0.078	0.072	X			
Maximum Pond Depth	10.0	10.64	X			
Average Pond Depth	10.0	10.27	X			
Average Permanent Pool Depth (Wet Ponds)	5.0	5.27	X			

*To Determine Active Storage $V = (H/3)(A1 + A2 + (\sqrt{A1 \cdot A2}))$

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



RISE PIPE SIDE VIEW

850.52 (850.47)
~~850.25~~ SPILLWAY
~~849.99~~
~~850.10~~ HWL
~~849.85~~
~~850.00~~ 36" RISER
~~846.95~~
~~847.00~~ 2" ORFICE
~~846.95~~
~~847.00~~ 12" OUTFALL
~~846.79~~
~~846.80~~ 12" DISCHARGE
~~841.73~~
~~842.00~~ POND BOTTOM



Pond 5 East Portion Facing E



Pond 5 West Portion Facing W



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

Inspection Firm: R.A. Smith, Inc.
 Phone Number: 262-781-1000
 Address: 221 S. 2nd Street
Milwaukee, WI 53204

Inspector Name : Colleen Thomas
 Inspection Date: 07/01/2021

Certifying Professional
 Name: Chris Hitch, PE
 Phone Number: 262-317-3267



Date: 10/18/2021

Signature: