



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 NW1/4, Sec 25 Name of Business/Subdivision Harmony Hills II
Property Tax ID Number N0098090 Address of Property
Date: 8/14/2021

Dry Pond	
Wet Pond	X
Other	

Pond ID: SWP25n003

Location of Pond Outlot 4 – Pond #4

Year Pond Constructed 2007 Year of Last Certification 2011

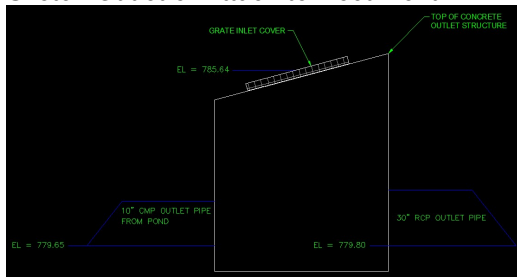
Compliance Verification	Design	Actual	Compliant Yes No	Comments (Condition of Structure)
Primary Outlet Pipe				Outlet Pipe Material
Opening Diameter (inches)	30"	30"	X	Outlet pipe material is RCP. RCP is in good condition and no evidence of sediment accumulation within pipe, appears to be operating as originally intended.
Upstream Invert	779.80	779.80	X	
Downstream Invert	779.65	779.68	X	
Length (feet)	123	122	X	
Slope (%)	0.12%	0.10%	X	
Secondary Outlet Pipe	(If Applicable)			Outlet Pipe Material
Opening Diameter (inches)				
Upstream Invert				
Downstream Invert				
Length (feet)				
Slope (%)				
Riser	(If Applicable)			Riser Material
Opening Diameter (inches)	24"x36"	24"x36"	X	Riser is a concrete structure with a metal rebar grate bolted to concrete structure. There is some slight erosion around the west side of the structure.
Elevation	785.85	785.64	X	
Upper Discharge Control	(If Applicable)			
Opening Diameter (inches)				
Elevation				

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	10" cmp	10" cmp	X		The elevation difference confirms that the outlet orifice pipe appears to have dropped at the water's edge and is not at the design invert elevation.	
Elevation	779.80	779.65	X			
Other (Description)						
Opening Type and Size (inches)						
Elevation						
Emergency Spillway						
Elevation	787.00	786.75	X			
Length of spillway (feet)	20'	21'	X		Some weedy vegetation growing, spray or hand remove	
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	RCP. 42"		Northeast Side		From Dry Pond #3. End section has detached and volunteer trees starting to grow around end section. Needs to be repaired.	
Outfall 2	RCP, 24"		Middle East Side		Good working condition.	
Outfall 3	RCP, ??"		Southeast Corner		End of pipe is filled with sediment, recommend cleaning out sediment and installing a riprap outfall to water's edge	
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	779.00	778.95	X			Drone technology and laser level To determine elevations and contours
Design High Water Elevation	788.00	788.00	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	1.14	1.14	X			HydroCAD 10.0 to determine areas and pond volumes
Area at Design High Water Elevation (Ac)	1.93	2.08	X			
Active Storage Available (Ac-Ft)*	13.73	14.25	X			
Lowest Elevation at Top of Embankment (If Applicable)	788.5	788.5				
Average Elevation at Top of Embankment (If Applicable)	788.5	788.5				
Maximum Bottom Elevation	774.0	774.28	X			
Average Pond Bottom Elevation	774.00	773.14	X			
Pond Bottom Area (Ac)	0.52	0.64	X			

Maximum Pond Depth	5.0 ft	6.17 ft	X			
Average Pond Depth						
Average Permanent Pool Depth <i>(Wet Ponds)</i>	5.0 ft	5.81 ft	X			

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

Sketch Outlet or Attach to Document



Emergency riprap outflow weir



Overall view of pond and outlet structure



Infall pipe from Dry Pond #3 with detached end section

Inspection Firm: Drainage Doctor, LLC Inspector Name : Tyler Smith, PE
Phone Number: 608.535.9380 Inspection Date: 05.25.2021
Address: 416 W Red Pine Circle
Dousman, WI 53118

Certifying Professional Name: Tyler Smith, PE

Phone Number: 608.535.9380

Affix Seal
Here



Date:

08.14.2021

Signature:

A handwritten signature in black ink, appearing to read "Tyler A. Smith", written over a large, faint, circular watermark that matches the professional engineer seal.

10-3-2012