



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: SWP25n002

Location of Pond  
Outlet 3 – Pond #2

Year Pond Constructed 2007 Year of Last Certification 2011

Compliance Verification	Design	Actual	Compliant Yes No	Comments ( Condition of Structure)
<b>Primary Outlet Pipe</b>				<b>Outlet Pipe Material</b>
Opening Diameter (inches)	12"	12"	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.  There is sediment accumulating at the end of the pipe that may be hindering water flow out of the wet pond. Remove sediment accumulation to allow water flow.
Upstream Invert	784.00	784.00	X	
Downstream Invert	783.80	783.75	X	
Length (feet)	84	83	X	
Slope (%)	0.24%	0.30%	X	
<b>Secondary Outlet Pipe</b>	(If Applicable)			<b>Outlet Pipe Material</b>
Opening Diameter (inches)				
Upstream Invert				
Downstream Invert				
Length (feet)				
Slope (%)				
<b>Riser</b>	(If Applicable)			<b>Riser Material</b>
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 is to center of grate
Elevation	787.25	787.36	X	
<b>Upper Discharge Control</b>	(If Applicable)			
Opening Diameter (inches)				
Elevation				

Compliance Verification	Design	Actual	Compliant Yes    No		Comments
<b>Lower Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)	4"	4"	X		The normal water elevation at time of inspection was 784.70. This indicates that the outlet orifice most likely is significantly plugged and should be restored to original intent and working order.
Elevation	784.00	784.00	X		
<b>Other (Description)</b>					
Opening Type and Size (inches)					
Elevation					
<b>Emergency Spillway</b>					
Elevation	787.50	787.32	X		
Length of spillway (feet)	15'	16'	X		Some weedy vegetation growing, spray or hand remove
<b>Embankment</b>	Present Yes    no		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation	X		There are numerous trees that have grown from small to large since the last inspection and should be removed.		
Animal burrows or slope erosion		X			
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments
Outfall 1	RCP. 24"		South Edge		Significant sediment has accumulated at the end of pipe and within the end of the pipe. Sediment should be cleaned out and a riprap outfall pad installed at the end of the pipe.
Outfall 2					
Outfall 3					

Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	784.00	784.70		X		Drone technology and laser level To determine elevations and contours  HydroCAD 10.0 to determine areas and pond volumes
Design High Water Elevation	788.00	788.00	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.13	0.11	X			
Area at Design High Water Elevation (Ac)	0.24	0.33	X			
Active Storage Available (Ac-Ft)*	0.81	0.78	X			
Lowest Elevation at Top of Embankment (If Applicable)	788.0	788.0				
Average Elevation at Top of Embankment (If Applicable)	788.0	788.05				The majority of the sediment accumulation in the bottom of the wet pond is the western portion of the pond. With the accumulation being more than 12", it is recommended to dredge out and return wet pond to its original elevations and volumes.
Maximum Bottom Elevation	779.0	780.70		X		
Average Pond Bottom Elevation	779.00	780.03		X		
Pond Bottom Area (Ac)		.01				
Maximum Pond Depth	5.0 ft	5.17 ft	X			
Average Pond Depth						
Average Permanent Pool Depth (Wet Ponds)	5.0 ft	4.67 ft	X			

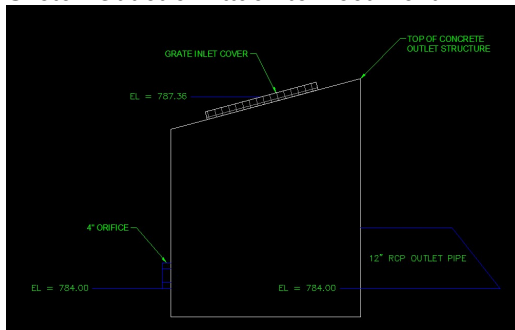
\*To Determine Active Storage  $V=(H/3)(A1+A2+(\sqrt{A1+A2}))$

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*



*Infall pipe at south edge, showing sediment*



*Emergency riprap outflow weir*



*Overall view of pond with trees at SE corner*



*Outlet structure with rebar grate bolted down*





View of outlet pipe in the wooded area, water flow is being hindered by sediment and vegetation

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

Inspection Firm: Drainage Doctor, LLC  
Phone Number: 608.535.9380  
Address: 416 W Red Pine Circle  
Dousman, WI 53118

Inspector Name : Tyler Smith, PE  
Inspection Date: 05.25.2021

Certifying Professional *Tyler Smith, PE*  
Name:  
Phone Number: 608.535.9380

*Affix Seal  
Here*

Date:

08.14.2021

Signature:

*Tyler A. Smith*



10-3-2012