



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  
Property Tax ID Number  
Date: 8/14/2021

NW1/4, Sec 25 Name of Business/Subdivision Harmony Hills II  
N0098090 Address of Property \_\_\_\_\_  
\_\_\_\_\_

Dry Pond	<input checked="" type="checkbox"/>	Pond ID: <u>SWP25n004</u>	Location of Pond	Outlot 7 – Pond #3
Wet Pond	<input type="checkbox"/>			_____
Other	<input type="checkbox"/>			_____

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>				
Opening Diameter (inches)	42"	42"	X	Outlet Pipe Material Outlet pipe material is RCP.
Upstream Invert	785.00	785.20	X	The end section has broken off from main pipe, which is why the invert is 0.20' higher than design. Sediment is collecting in the end of the pipe.
Downstream Invert	782.94	783.00	X	
Length (feet)	129	130	X	
Slope (%)	1.60%	1.69%	X	
<b>Secondary Outlet Pipe</b>	(If Applicable)			
Opening Diameter (inches)				Outlet Pipe Material
Upstream Invert				
Downstream Invert				
Length (feet)				
Slope (%)				
<b>Riser</b>	(If Applicable)			
Opening Diameter (inches)				Riser Material
Elevation				
<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)					
Elevation					
<b>Other (Description)</b>					
Opening Type and Size (inches)					
Elevation					
<b>Emergency Spillway</b>					
Elevation	792.50	792.45	X		
Length of spillway (feet)	10'	10'	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			
Animal burrows or slope erosion		X			
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments
Outfall 1	RCP. 12?"		Northeast Corner		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	RCP, 36"		Northeast Corner		Good working condition
Outfall 3	RCP, 15"		Southeast Corner		Pipe is in good condition, riprap outfall is filled with sediment and should be removed and replaced
<b>Storage Properties</b>	Design	Actual	Compliant Yes	No	Equipment Used
Normal Water Elevation (Wet Ponds)				X	Drone technology and laser level To determine elevations and contours
Design High Water Elevation	792.00	792.00	X		
Area at Normal Water Elevation (Ac) (Wet Ponds)				X	HydroCAD 10.0 to determine areas and pond volumes
Area at Design High Water Elevation (Ac)	0.27	0.26	X		
Active Storage Available (Ac-Ft)*	1.25	1.05	X		
Lowest Elevation at Top of Embankment (If Applicable)					
Average Elevation at Top of Embankment (If Applicable)					
Maximum Bottom Elevation	785.00	784.20	X		Basin should be mowed twice per year to a height of about 6"-8".
Average Pond Bottom Elevation	785.00	784.75	X		
Pond Bottom Area (Ac)	0.10	0.11			
Maximum Pond Depth					

Average Pond Depth						
Average Permanent Pool Depth (Wet Ponds)						

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

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

Dry Ponds Use  $H = \text{Height of Section}$ ,  $A1 = \text{pond bottom area}$ ,  $A2 = \text{area at top section}$

Sketch Outlet or Attach to Document



Infall pipe at northeast corner, filled with sediment



Overall view of dry pond



Outlet pipe with broken off endwall section



Infall at southeast corner with sediment in riprap outfall

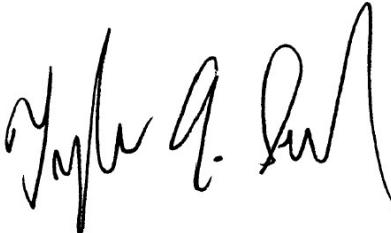
Inspection Firm: Drainage Doctor, LLC  
Phone Number: 608.535.9380  
Address: 416 W Red Pine Circle  
Dousman, WI 53118

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: 
---------------------	--

10-3-2012