



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		Location of Pond	Outlet 3 – Pond #2
Wet Pond	X		_____
Other			_____

Pond ID: SWP25n002 _____

Year Pond Constructed 2007

Year of Last Certification 2011

Compliance Verification	Design	Actual	Compliant Yes	Comments (Condition of Structure)
Primary Outlet Pipe				Outlet Pipe Material
Opening Diameter (inches)	12"	12"	X	Outlet pipe material is RCP.
Upstream Invert	784.00	784.00	X	RCP is in good condition and no evidence of sediment accumulation within pipe, appears to be operating as originally intended.
Downstream Invert	783.80	783.75	X	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.
Length (feet)	84	83	X	
Slope (%)	0.24%	0.30%	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	787.25	787.36	X	Elevation is to center of grate
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)	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		
Other (Description)					
Opening Type and Size (inches)					
Elevation					
Emergency Spillway					
Elevation	787.50	787.32	X		
Length of spillway (feet)	15'	16'	X		Some weedy vegetation growing, spray or hand remove
Embankment	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			
Storm Sewer Outfalls	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					

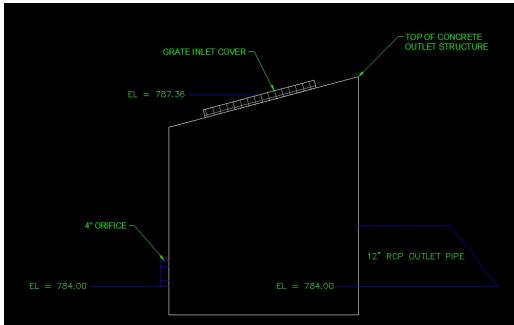
Storage Properties	Design	Actual	Compliant Yes	Compliant No	Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	784.00	784.70		X		Drone technology and laser level To determine elevations and contours HydroCAD 10.0 to determine areas and pond volumes
Design High Water Elevation	788.00	788.00	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				
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 $H = \text{Height of Section}$, $A1 = \text{area at normal water elevation}$, $A2 = \text{area at top section}$

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

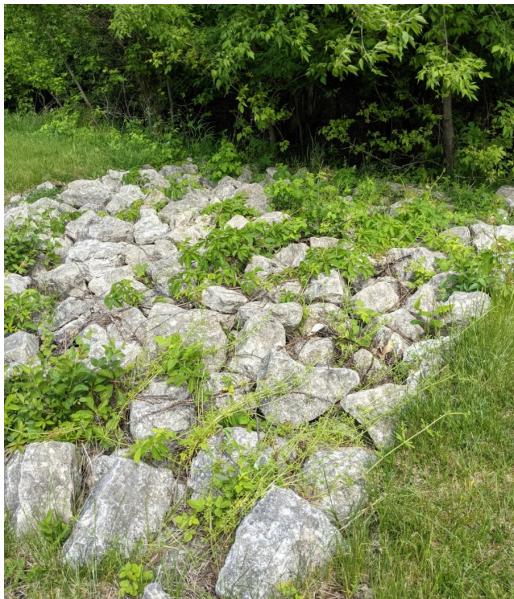
Sketch Outlet or Attach to Document



Overall view of pond with trees at SE corner



Infall pipe at south edge, showing sediment



Emergency riprap outflow weir



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: _____

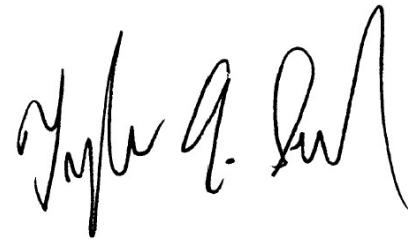
Phone Number: 608.535.9380

*Affix Seal
Here*

Date:

08.14.2021

Signature:



10-3-2012