



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 SE1/4, Sec 24 Name of Business/Subdivision Lilly Creek Highlands IV
Property Tax ID Number 0096131 Address of Property _____
Date: 8/17/2021 _____

Dry Pond	X
Wet Pond	
Other	

Pond ID: SWP24s012

Location of Pond Outlot 11 – Pond #1

Year Pond Constructed 2006 Year of Last Certification 2016

Compliance Verification	Design	Actual	Compliant Yes No	Comments (Condition of Structure)
Primary Outlet Pipe				Outlet Pipe Material
Opening Diameter (inches)	15"	15"	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. End of pipe is infall into Wet Pond in Outlot 9.
Upstream Invert	777.00	777.00	X	
Downstream Invert	775.50	775.14	X	
Length (feet)	184	186	X	
Slope (%)	0.82%	1.0%	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 trash grate, good condition, operating as intended
Elevation	782.50	782.55	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		Cattails are growing around the orifice and may be hindering the flow of water through the system. These cattails should be removed and any sediment that these cattails may be allowing to accumulate at the opening.	
Elevation	777.00	777.02	X			
Other (Description)						
Opening Type and Size (inches)						
Elevation						
Emergency Spillway						
Elevation	785.1	785.10	X			
Length of spillway (feet)	15'	16'	X			
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X	The presence of water on the bottom of the basin create a situation where cattails thrive and will not allow stormwater runoff to flow through the system as intended. As a Dry Pond, water is not intended to pool in the bottom of the basin.			
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	RCP, 12"		North End		Cattails to be removed and replaced with riprap stone to protect outfall	
Outfall 2	RCP, 15"		Near North End		Cattails to be removed, endwall section is starting to fall off of main pipe line, this will lead to major erosion issues under the pipe, causing it to fail	
Outfall 3	RCP, 15"		SW corner		Good condition	
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)					X	Drone technology and laser level To determine elevations and contours
Design High Water Elevation	786.00	786.00	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)	0.38 ac	0.30 ac	X			
Active Storage Available (Ac-Ft)*	1.6	1.22	X			
Lowest Elevation at Top of Embankment (If Applicable)						
Average Elevation at Top of Embankment (If Applicable)						
Maximum Bottom Elevation	777.00	777.75	X			
Average Pond Bottom Elevation	777.00	777.65	X			
Pond Bottom Area (Ac)	0.05 ac	0.04 ac	X			
Maximum Pond Depth					X	

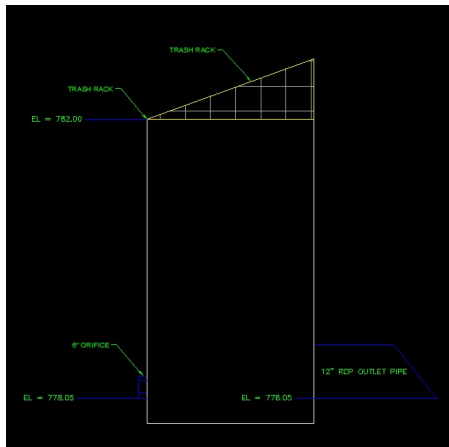
Average Pond Depth					X	
Average Permanent Pool Depth (<i>Wet Ponds</i>)					X	

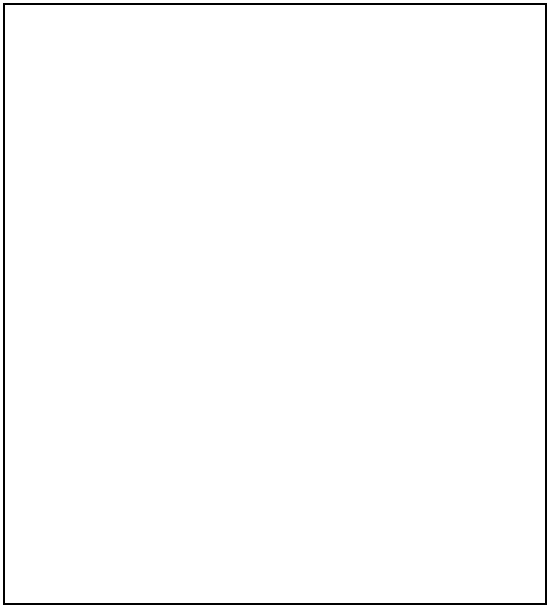
*To Determine Active Storage $V=(H/3)(A1+A2+(\sqrt{A1+A2}))$

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

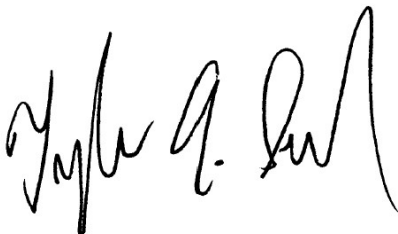





Attach As-built Survey to the Document for the first report submission

Inspection Firm:	<u>Drainage Doctor, LLC</u>	Inspector Name :	<u>Tyler Smith, PE</u>
Phone Number:	<u>608.535.9380</u>	Inspection Date:	<u>06.01.2021</u>
Address:	<u>416 W Red Pine Circle</u>		
	<u>Dousman, WI 53118</u>		

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

Date: 08.17.2021	Signature: 
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Affix Seal Here