



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: 8/17/2021

SE1/4, Sec 24  
0096131  
Name of Business/Subdivision  
Address of Property  
Lilly Creek Highlands IV

Dry Pond	X	Pond ID: SWP24s012	Location of Pond	Outlot 11 – Pond #1
Wet Pond				
Other				

Year Pond  
Constructed  
2006

Year of Last  
Certification  
2016

Compliance Verification		Design	Actual	Compliant Yes   No	Comments ( Condition of Structure)
<b>Primary Outlet Pipe</b>					Outlet Pipe Material 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.
Opening Diameter (inches)	15"	15"	X		
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		
<b>Secondary Outlet Pipe</b>		(If Applicable)		Outlet Pipe Material	
Opening Diameter (inches)					
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b>Riser</b>		(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		
<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)	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			
<b>Other (Description)</b>						
Opening Type and Size (inches)						
Elevation						
<b>Emergency Spillway</b>						
Elevation	785.1	785.10	X			
Length of spillway (feet)	15'	16'	X			
<b>Embankment</b>	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				
<b>Storm Sewer Outfalls</b>	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	
<b>Storage Properties</b>	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	

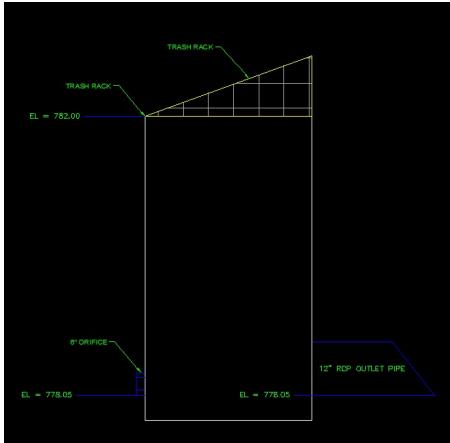
Average Pond Depth					X	
Average Permanent Pool Depth (Wet Ponds)					X	

\*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



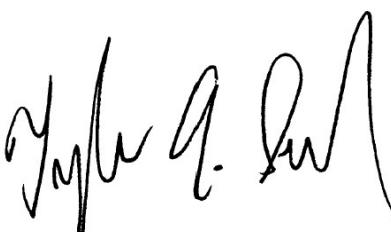


Attach As-built Survey to the Document for the first report submission

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: 06.01.2021

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

Date:  <u>08.17.2021</u>	Signature:  
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Affix Seal Here



The seal is circular with a decorative border. The words "WISCONSIN" and "PROFESSIONAL ENGINEER" are at the top and bottom respectively. In the center, it says "TYLER A. SMITH", "4151-006", "MADISON, WI", and "#4151-006".

10-3-2012