



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	
Wet Pond	X
Other	

Pond ID: SWP24s007

Location of Pond Outlot 9 – Pond #2

Year Pond Constructed 2006 Year of Last Certification 2016

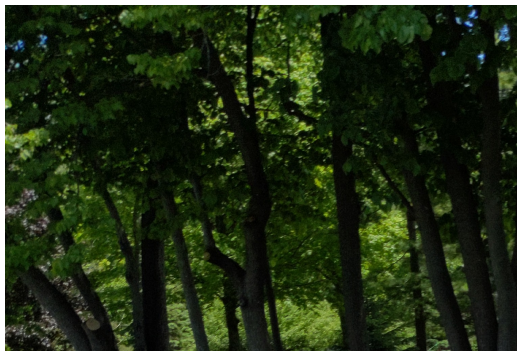
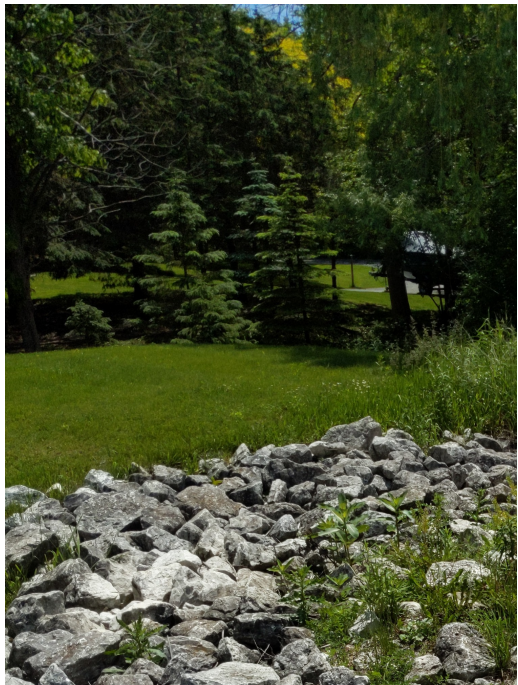
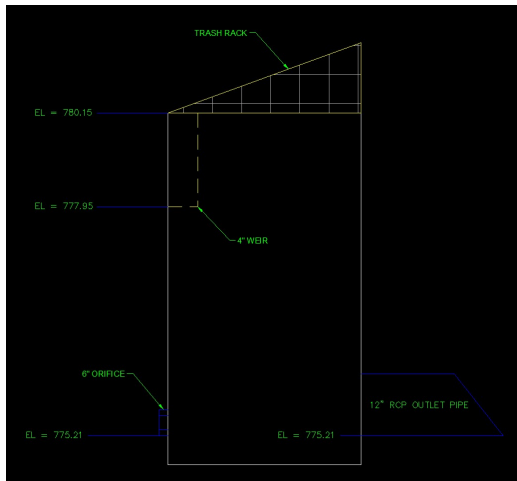
Compliance Verification	Design	Actual	Compliant Yes No	Comments (Condition of Structure)
Primary Outlet Pipe				Outlet Pipe Material
Opening Diameter (inches)	12"	12"	X	Outlet pipe material is RCP. RCP is in good condition and no evidence of sediment accumulation within pipe, appears to be operating as originally intended.
Upstream Invert	775.00	775.21	X	
Downstream Invert	774.60	774.70	X	
Length (feet)	96	95	X	
Slope (%)	0.42%	0.54%	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
Elevation	780.00	780.15	X	
Upper Discharge Control	(If Applicable)			
Opening Diameter (inches)	4" wide	4" wide	X	Discharge control is a 4" wide weir, 24" long
Elevation	777.75	777.95	X	Weir is in good condition and operating as intended

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	6"	6"	X		Orifice is in good condition and operating as intended.	
Elevation	775.00	775.21	X			
Other (Description)						
Opening Type and Size (inches)						
Elevation						
Emergency Spillway						
Elevation	780.50	780.51	X			
Length of spillway (feet)	20'	18'	X		Some weedy vegetation growing, spray or hand remove	
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X				
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	RCP. 15"		Northwest Corner		Sediment accumulation at end of pipe blocking water from entering pond, remove sediment and replace with riprap	
Outfall 2	RCP, 15"		Southwest Corner		Endwall starting to break away from main pipe. Excavate around endwall and re-attach endwall, riprap is in good condition and shall remain	
Outfall 3						
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	775.00	775.37	X			Drone technology and laser level To determine elevations and contours
Design High Water Elevation	781.00	781.00	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.24 AC	0.21 ac	X			HydroCAD 10.0 to determine areas and pond volumes
Area at Design High Water Elevation (Ac)	0.54 ac	0.51 ac	X			
Active Storage Available (Ac-Ft)*	2.25	2.28	X			
Lowest Elevation at Top of Embankment (If Applicable)	781.50	781.50	X			
Average Elevation at Top of Embankment (If Applicable)	781.50	781.75	X			
Maximum Bottom Elevation	770.00	770.87	X			
Average Pond Bottom Elevation	770.00	770.42	X			
Pond Bottom Area (Ac)	0.04	.05	X			
Maximum Pond Depth	5.0 ft	5.4 ft	X			
Average Pond Depth	5.0 ft	4.95 ft	X			

Average Permanent Pool Depth (Wet Ponds)	5.0 ft	4.95 ft	X		
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*To Determine Active Storage $V = (H/3)(A1 + A2 + (\sqrt{A1 \cdot A2}))$)
 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



Endwall at southwest corner that is breaking off



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

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

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



Date:
08.17.2021

Signature:

Tyler A. Smith

Affix Seal Here

10-3-2012