



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 10/08/2020

SW 1/4 Sec 33 Name of Business/Subdivision Cranes Crossing
0131037 Address of Property N48 W18200 Lisbon Road

Dry Pond		Pond ID: <u>SWP 33s003</u> <u>Pond P2E</u>	Location of Pond	SE corner of Green Crane Drive & Cranes Crossing Blvd.
Wet Pond	X			
Other				

Year Pond Constructed 2005 Year of Last Certification 2016

Compliance Verification	Design	Actual	Compliant Yes	Non-Compliant No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	30"	30"	X		RCP
Upstream Invert	877.35	877.76	X		
Downstream Invert	876.75	877.41	X		
Length (feet)	225.03	211.95	X		
Slope (%)	0.155	0.165	X		
Secondary Outlet Pipe	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)					Not Applicable (NA)
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser	(If Applicable)				Riser Material
Opening Diameter (inches)					NA
Elevation					
Upper Discharge Control	(If Applicable)				
Opening Diameter (inches)					NA
Elevation					

Compliance Verification	Design	Actual	Compliant Yes	No	Comments	
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)					NA	
Elevation						
Other (Description)						
Opening Type and Size (inches)					NA	
Elevation						
Emergency Spillway						
Elevation	884.29	883.8	X			
Length of spillway (feet)	10.0	16±	X			
Embankment	Present Yes		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X	Mowed lawn			
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	15" RCP		West side		Pipe in good condition, remove woody vegetation downstream of pipe	
Outfall 2	24" RCP		North side		End section separated from pipe, remove downstream woody vegetation	
Outfall 3	Riprap swale		Northeast corner		Good condition	
Storage Properties	Design	Actual	Compliant Yes	No	Equipment Used	
Normal Water Elevation (Wet Ponds)	877.35	877.76	X		Total station & GPS	
Design High Water Elevation	884.29	883.8	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.4695	0.469	X			
Area at Design High Water Elevation (Ac)	0.9278	0.866	X			
Active Storage Available (Ac-Ft)*	3.7363	3.10	X			
Lowest Elevation at Top of Embankment (If Applicable)	885.2	884.0		X		
Average Elevation at Top of Embankment (If Applicable)	885.54	885.0	X			
Maximum Bottom Elevation	870.0	871.0	X			
Average Pond Bottom Elevation	870.0	871.5	X			
Pond Bottom Area (Ac)	0.1212	0.107	X			
Maximum Pond Depth	7.35	6.8	X		Low on west side	
Average Pond Depth	7.35	6.3	X			
Average Permanent Pool Depth (Wet Ponds)	7.35	6.3	X			
					HyDrone-Remote Control Survey Boat Platform	

*To Determine Active Storage $V=H/3(A1+A2+(A1xA2)/2)$

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: R.A. Smith, Inc.
Phone Number: 262-781-1000
Address: 16745 W. Bluemound Road
Brookfield, WI 53005

Inspector Name : Riley Stone
Inspection Date: September 22, 2020

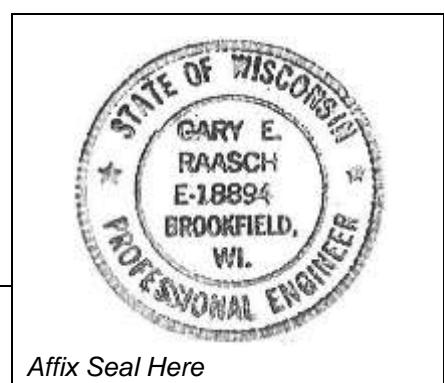
Certifying Professional

Name: Gary E. Raasch
Phone Number: 262-317-3369

Date:
October 8, 2020

Signature:

A handwritten signature in black ink that reads "Gary E. Raasch". The signature is cursive and fluid.



Affix Seal Here