



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 11/14/2016

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 2010

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	877.68	X		
Downstream Invert	876.75	877.36	X		
Length (feet)	225.03	212.2	X		
Slope (%)	0.155	0.20	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	4±	X		
Embankment	Present Yes no		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		Good condition
Outfall 2	24" RCP		North side		Good condition
Outfall 3	Riprap swale		Northeast corner		Good condition
Storage Properties	Design	Actual	Compliant Yes No	Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	877.35	877.68	X		Total station & GPS Low on west side
Design High Water Elevation	884.29	883.8	X		
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.4695	0.473	X		
Area at Design High Water Elevation (Ac)	0.9278	0.866	X		
Active Storage Available (Ac-Ft)*	3.7363	3.15	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	870.0	X		
Average Pond Bottom Elevation	870.0	871.2	X		
Pond Bottom Area (Ac)	0.1212	0.112	X		
Maximum Pond Depth	7.35	7.7	X		
Average Pond Depth	7.35	6.5	X		
Average Permanent Pool Depth (Wet Ponds)	7.35	6.5	X		HyDrone-Remote Control Survey Boat Platform

*To Determine Active Storage $V=H/3(A1+A2+(A1xA2)1/2)$

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

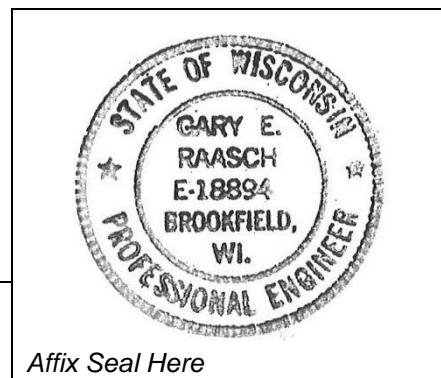
Inspector Name : Gary E. Raasch
Inspection Date: September 20, 2016

Certifying Professional

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

Date: November 14, 2016	Signature:
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A handwritten signature in black ink that reads "Gary E. Raasch".



Affix Seal Here

10-3-2012