



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 _____ Name of Business/Subdivision Breezy Hill
 Property Tax ID Number 0021990001 Address of Property N96W21627 County Line Road
 Date 8/18/16

Dry Pond	<input type="checkbox"/>
Wet Pond	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Location of Pond Pond 2 – East side of Property

Pond ID: SWP 6 N 002

Year Pond Constructed 2011 Year of Last Certification _____

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					
Opening Diameter (inches)	18"	18"	Y		Outlet Pipe Material RCP – Basin raised approximately 3' from design; bottom elevation not adjusted; extra capacity in basin for irrigation.
Upstream Invert	871.5	874.18	Y		
Downstream Invert	871.0	873.84	Y		
Length (feet)	50	52	Y		
Slope (%)	1%	1%	y		
Secondary Outlet Pipe (If Applicable)					
Opening Diameter (inches)	N/A				Outlet Pipe Material
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser (If Applicable)					
Opening Diameter (inches)	N/A				Riser Material
Elevation					
Upper Discharge Control (If Applicable)					
Opening Diameter (inches)	N/A				
Elevation					

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	N/A					
Elevation						
Other (Description)						
Opening Type and Size (inches)	N/A					
Elevation						
Emergency Spillway						
Elevation	876.0	878.3	Y		Excellent condition	
Length of spillway (feet)	18	20	Y			
Embankment	Present		Comments/Maintenance Requirements			
	Yes	no				
Unauthorized Plantings, trees, or woody vegetation		X			Well maintained grass; embankment and surrounding areas in excellent condition.	
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1						
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant		Not Applicable	Equipment Used
			Yes	No		
Normal Water Elevation (Wet Ponds)	871.5	874.0	Y			As surveyed; pictures taken on 8/18/16 show the water surface below the outlet structure. *TOO DEEP TO SURVEY *TOO DEEP TO SURVEY *TOO DEEP TO SURVEY *TOO DEEP TO SURVEY *TOO DEEP TO SURVEY *TOO DEEP TO SURVEY
Design High Water Elevation	875.34	877.84	Y			
Area at Normal Water Elevation (Ac) (Wet Ponds)	1.47	1.64	Y			
Area at Design High Water Elevation (Ac)	1.95	2.22	Y			
Active Storage Available (Ac-Ft)*	6.21	7.27	Y			
Lowest Elevation at Top of Embankment (If Applicable)	877	879.58	Y			
Average Elevation at Top of Embankment (If Applicable)	877	880	Y			
Maximum Bottom Elevation	866.5	857	Y			
Average Pond Bottom Elevation	866.5	857	Y			
Pond Bottom Area (Ac)	21,483	13,200	Y			
Maximum Pond Depth	8.84	20.84	Y			
Average Pond Depth	5	13	Y			
Average Permanent Pool Depth (Wet Ponds)	5	13	Y			

*To Determine Active Storage $V=H/3(A1+A2+(A1 \times A2)^{1/2})$

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



Place Photograph of Pond or Attach to Document



Place Photograph of Pond or Attach to Document



See picture above; RCP outlet with riprap spillway.

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

Inspection Firm: Lynch & Associates
Phone Number: 262.402.5040
Address: 5482 S. Westridge Drive
New Berlin, WI 53151

Inspector Name : Dave Nash, PLS
Inspection Date: 7/27/16

Certifying Professional Name: Tim Lynch, PE
Phone Number: 262.402.5040



Date: 8/15/16

Signature: *Tim Lynch*

Affix Seal Here



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 Date 8/18/16

Dry Pond	
Wet Pond	X
Other	

Location of Pond Pond 1 Forebay- Center of Property

Pond ID: SWP 6N 003

Year Pond Constructed 2011 Year of Last Certification _____

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	12"	12"	Y		RCP; excellent condition
Upstream Invert	924	924.04	Y		
Downstream Invert	923.0	922.92	Y		
Length (feet)	54	52.5	Y		
Slope (%)	1.85%	2.13%	Y		
Secondary Outlet Pipe (If Applicable)					
Opening Diameter (inches)	N/A				
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser (If Applicable)					Riser Material
Opening Diameter (inches)	N/A				
Elevation					
Upper Discharge Control (If Applicable)					
Opening Diameter (inches)	N/A				
Elevation					

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	N/A					
Elevation						
Other (Description)						
Opening Type and Size (inches)	N/A					
Elevation						
Emergency Spillway						
Elevation	927.0	927.02	Y			
Length of spillway (feet)	24	42	Y			
Embankment	Present		Comments/Maintenance Requirements			
	Yes	no				
Unauthorized Plantings, trees, or woody vegetation		X	Well maintained grass; no signs of woody growth or animal burrows.			
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1						
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant		Not Applicable	Equipment Used
			Yes	No		
Normal Water Elevation (Wet Ponds)	924.0	924.04	Y			
Design High Water Elevation	926.78	926.82	Y			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.19	0.12		N		
Area at Design High Water Elevation (Ac)	0.32	0.31	Y			
Active Storage Available (Ac-Ft)*	0.50	0.42	Y			
Lowest Elevation at Top of Embankment (If Applicable)	929.0	928.35		N		
Average Elevation at Top of Embankment (If Applicable)	929.0	929.0	Y			
Maximum Bottom Elevation	919.0	919.1	Y			
Average Pond Bottom Elevation	919.0	919.3	Y			
Pond Bottom Area (Ac)	0.06	0.06	Y			
Maximum Pond Depth	7.78	7.68	Y			
Average Pond Depth	5.0	4.8	Y			
Average Permanent Pool Depth (Wet Ponds)	5.0	4.8	Y			

*To Determine Active Storage $V=H/3(A1+A2+(A1 \times A2)^{1/2})$

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



Place Photograph of Pond or Attach to Document



Place Photograph of Pond or Attach to Document



See photo: RCP culvert; discharge into infiltration basin.

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

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Address: 5482 S. Westridge Drive
New Berlin, WI 53151

Inspector Name : Dave Nash, PLS
Inspection Date: 7/27/16

Certifying Professional Name: Tim Lynch, PE
Phone Number: 262.402.5040



Date: 8/15/16

Signature:

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8-17-16



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 Date 8/18/16

Dry Pond	X
Wet Pond	
Other	

Location of Pond Pond 1 Infiltration- Center of Property

Pond ID: SWP 6N004

Year Pond Constructed 2011 Year of Last Certification _____

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	12"	12"	Y		RCP; excellent condition
Upstream Invert	922.3	922.38	Y		
Downstream Invert	921.5	921.52	Y		
Length (feet)	42.5	44.6	Y		
Slope (%)	1.95%	1.93%	Y		
Secondary Outlet Pipe (If Applicable)					Outlet Pipe Material
Opening Diameter (inches)	N/A				
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser (If Applicable)					Riser Material
Opening Diameter (inches)	N/A				
Elevation					
Upper Discharge Control (If Applicable)					
Opening Diameter (inches)	N/A				
Elevation					

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	N/A					
Elevation						
Other (Description)						
Opening Type and Size (inches)	N/A					
Elevation						
Emergency Spillway						
Elevation	925.0	925.3	Y			
Length of spillway (feet)	18.5	27.0	Y			
Embankment	Present		Comments/Maintenance Requirements			
	Yes	no				
Unauthorized Plantings, trees, or woody vegetation		X	Well maintained embankment and surrounding areas; well vegetated with no woody growth or signs of animal burrows.			
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1						
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant		Not Applicable	Equipment Used
			Yes	No		
Normal Water Elevation (Wet Ponds)	922.3	922.38	Y			
Design High Water Elevation	923.83	923.91	Y			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.14	0.14	Y			
Area at Design High Water Elevation (Ac)	0.31	0.29	Y			
Active Storage Available (Ac-Ft)*	0.24	0.23	Y			
Lowest Elevation at Top of Embankment (If Applicable)	926.0	925.89	Y			
Average Elevation at Top of Embankment (If Applicable)	926.0	926.3	Y			
Maximum Bottom Elevation	922.0	921.92	Y			
Average Pond Bottom Elevation	922.0	921.92	Y			
Pond Bottom Area (Ac)	0.14	0.14	Y			
Maximum Pond Depth					N/A	
Average Pond Depth					N/A	
Average Permanent Pool Depth (Wet Ponds)					N/A	

*To Determine Active Storage $V=H/3(A1+A2+(A1 \times A2)^{1/2})$

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



Place Photograph of Pond or Attach to Document



See picture above; 3 RCP culverts discharge to grade.

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