



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 SE 1/4 Sec. 24 Name of Business/Subdivision Lilly Creek Highlands II
Property Tax ID Number 0096084 Address of Property _____
Date 7/15/13 _____

Dry Pond	
Wet Pond	X
Other	

Location of Pond Outlot 4
Pond #3

Pond ID: SWP 245003

Year Pond Constructed 2002 Year of Last Certification _____

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	24"	24"	X		As new condition
Upstream Invert	760.00	759.76	X		
Downstream Invert	758.25	758.10	X		
Length (feet)	252	254	X		
Slope (%)	.50	.48	X		
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)	36"	36"	X		As new condition
Elevation	762.0	762.7	X		
Upper Discharge Control (If Applicable)					
Opening Diameter (inches)	N/A				
Elevation					

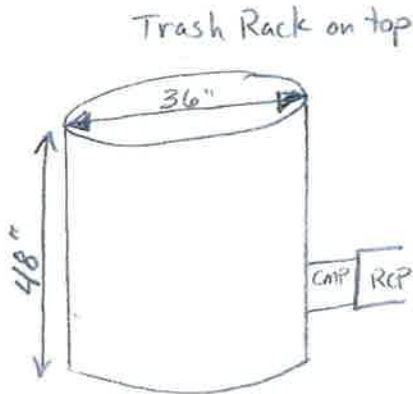
Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	N/A					
Elevation						
Other (Description)						
Opening Type and Size (inches)	N/A					
Elevation						
Emergency Spillway						
Elevation	N/A					
Length of spillway (feet)						
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	X		Woody Vegetation along safety shelf. Erosion on side slopes on East and West sides of pond. No vegetation near lots 63 + 65 due to weed spray.			
Animal burrows or slope erosion	X					
Storm Sewer Outfalls	Type & Size		Location	Comments		
Outfall 1	24" RCP		NW corner of Outlot	Clean and Clear		
Outfall 2	21" RCP		North end of Outlot	Clean and Clear / FES loose		
Outfall 3	24" RCP		NE corner of Outlot	Clean and Clear		
Outfall 4	21" RCP		Between lots 62 + 63	Clean and Clear / FES loose		
Outfall 5	12" RCP		SE corner of Outlot	Clean and Clear		
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	760.0	760.6	X			GPS
Design High Water Elevation	770.0	770.0	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.42Ac	0.45Ac	X			
Area at Design High Water Elevation (Ac)	1.00Ac	1.00Ac	X			
Active Storage Available (Ac-Ft)*	6.96Ac	6.94Ac	X			
Lowest Elevation at Top of Embankment (If Applicable)	769.5	769.6	X			
Average Elevation at Top of Embankment (If Applicable)	769.5	769.5	X			
Maximum Bottom Elevation	756.0	756.8	X			
Average Pond Bottom Elevation	756.0	756.8	X			
Pond Bottom Area (Ac)	0.18Ac	0.19Ac	X			
Maximum Pond Depth	4.0	3.8	X			
Average Pond Depth	4.0	3.8	X			
Average Permanent Pool Depth (Wet Ponds)	4.0	3.8	X			

*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

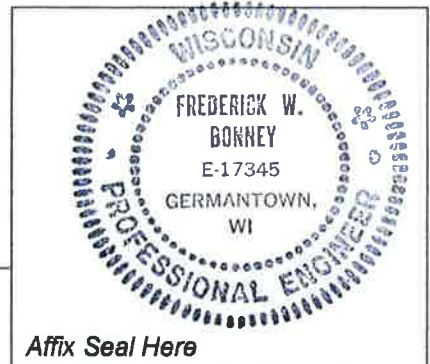
Sketch Outlet or Attach to Document



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

Inspection Firm: Land Tech Surveying, LLC Inspector Name: John Downing
 Phone Number: 262-367-7549 Inspection Date: 7/11/13
 Address: P.O. Box 15
Hartland, WI 53029

Certifying Professional Name: Frederick Bonney
 Phone Number: 262-255-5845



Date: 7-15-2013 Signature: Frederick Bonney

Affix Seal Here



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STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

Quarter Section _____
 Property Tax ID Number _____
 Date 7/15/13

SE 1/4 Sec. 24 Name of Business/Subdivision _____
0096085 Address of Property _____

Lilly Creek Highlands II

Dry Pond	
Wet Pond	X
Other	

Location of Pond _____

Outlot 5

Pond #1

Pond ID: SWP 245001

Year Pond Constructed

2002

Year of Last Certification _____

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	15"	15"	X		As new condition
Upstream Invert	767.00	767.08	X		
Downstream Invert	766.50	766.45	X		
Length (feet)	93	95	X		
Slope (%)	.54	.66	X		
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)	36"	36"	X		As new condition
Elevation	769.0	769.8	X		
Upper Discharge Control (If Applicable)					
Opening Diameter (inches)	N/A				
Elevation					

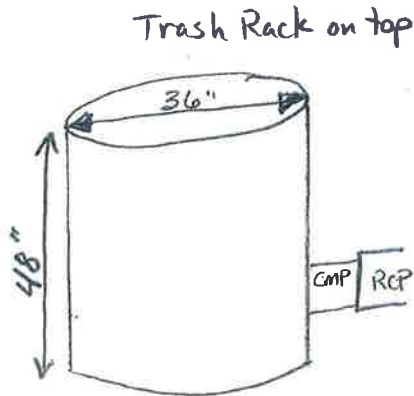
Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	N/A					
Elevation						
Other (Description)						
Opening Type and Size (inches)	N/A					
Elevation						
Emergency Spillway						
Elevation	777.5	777.2	X		Rip Rap clean and clear	
Length of spillway (feet)	10	10	X			
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	X		Woody vegetation (Willows) along safety shelf. Erosion along slopes by outfalls leading into Pond. Does not appear to hinder function of basin.			
Animal burrows or slope erosion	X					
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	30" RCP		Between lots 69+70		Clean and clear	
Outfall 2	30" RCP		Between lots 72+73		Clean and clear	
Outfall 3	15" RCP		Between lots 87+88		Clean and clear	
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	767.0	767.4	X			GPS
Design High Water Elevation	778.0	778.0	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.44 Ac	0.46 Ac	X			
Area at Design High Water Elevation (Ac)	1.53 Ac	1.53 Ac	X			
Active Storage Available (Ac-Ft)*	11.44 Ac	11.42 Ac	X			
Lowest Elevation at Top of Embankment (If Applicable)	777.5	777.2	X			
Average Elevation at Top of Embankment (If Applicable)	778.0	778.2	X			
Maximum Bottom Elevation	762.0	762.0	X			
Average Pond Bottom Elevation	762.0	762.0	X			
Pond Bottom Area (Ac)	0.26 Ac	0.26 Ac	X			
Maximum Pond Depth	5.0	5.4	X			
Average Pond Depth	5.0	5.4	X			
Average Permanent Pool Depth (Wet Ponds)	5.0	5.4	X			

*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

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 Phone Number: 262-367-7599 Inspection Date: 7/11/13
 Address: P.O. Box 15
Hartland, WI 53029

Certifying Professional Name: Frederick Bonney
 Phone Number: 262-255-5845



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SE 1/4 Sec. 24 Name of Business/Subdivision _____
0096085 Address of Property _____

Lilly Creek Highlands II

Dry Pond	
Wet Pond	X
Other	

Location of Pond

Outlet 5

Pond #2

Pond ID: SWP 24s002

Year Pond Constructed

2002

Year of Last Certification

Compliance Verification	Design	Actual	Compliant Yes No	Comments (Condition of Structure)
Primary Outlet Pipe				Outlet Pipe Material
Opening Diameter (inches)	24"	24"	X	As new condition
Upstream Invert	763.50	763.23	X	
Downstream Invert	762.50	762.57	X	
Length (feet)	114	112.5	X	
Slope (%)	.88	.59	X	
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)	36"	36"	X	As new condition
Elevation	766.0	765.9	X	
Upper Discharge Control (If Applicable)				
Opening Diameter (inches)	N/A			
Elevation				

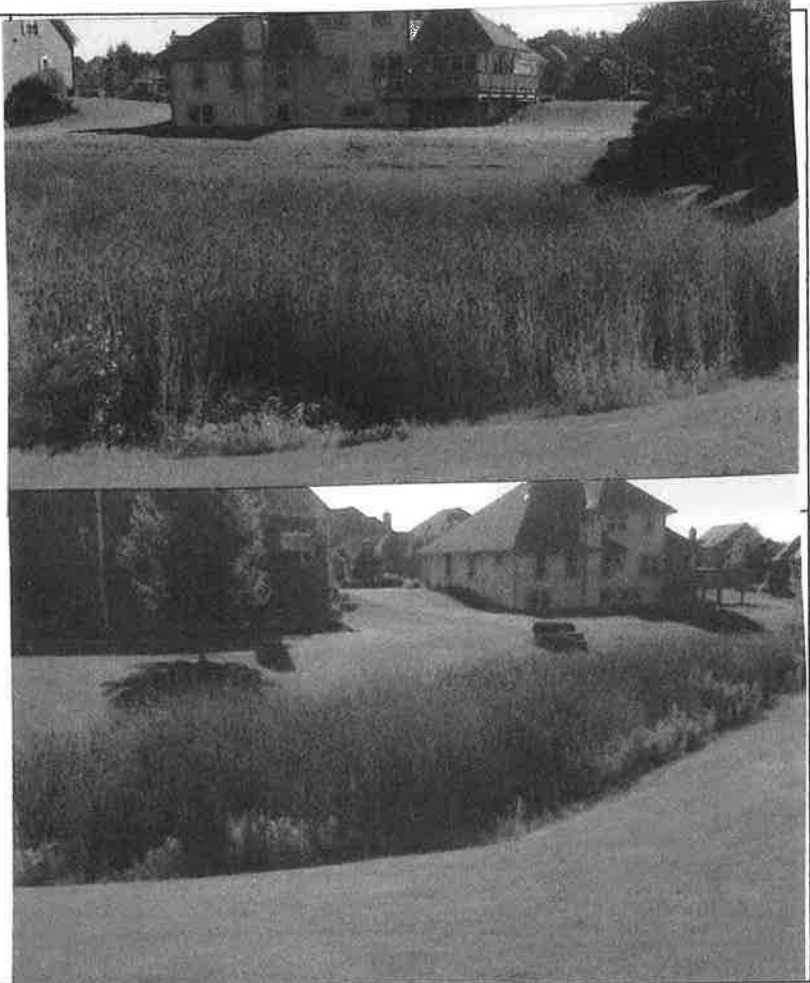
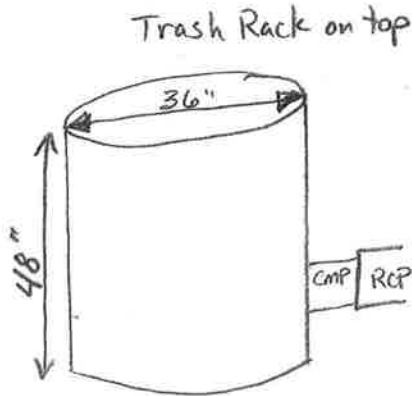
Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	N/A					
Elevation						
Other (Description)						
Opening Type and Size (inches)	N/A					
Elevation						
Emergency Spillway						
Elevation	770.5	770.5			Rip-rap clean and clear	
Length of spillway (feet)	10'	10'				
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	X		Woody vegetation along safety shelf. Some erosion on side slopes near lot 94. Does not appear to hinder the function of Basin.			
Animal burrows or slope erosion	X					
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	15" RCP		NW - from pond		Clean and clear	
Outfall 2	18" RCP		Between lots 91 & 92		1/2 Full of sediment @ O.F.	
Outfall 3						
Storage Properties	Design	Actual	Compliant		Not Applicable	Equipment Used
			Yes	No		
Normal Water Elevation (Wet Ponds)	763.0	763.5	X			GPS
Design High Water Elevation	771.0	771.0	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.07 Ac	0.08 Ac	X			
Area at Design High Water Elevation (Ac)	0.44 Ac	0.44 Ac	X			
Active Storage Available (Ac-Ft)*	2.04 Ac	2.01 Ac	X			
Lowest Elevation at Top of Embankment (If Applicable)	771.5	771.3	X			
Average Elevation at Top of Embankment (If Applicable)	771.5	771.5	X			
Maximum Bottom Elevation	760.0	759.8	X			
Average Pond Bottom Elevation	760.0	759.8	X			
Pond Bottom Area (Ac)	0.02 Ac	0.02 Ac	X			
Maximum Pond Depth	3.0	3.7	X			
Average Pond Depth	3.0	3.7	X			
Average Permanent Pool Depth (Wet Ponds)	3.0	3.7	X			

*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

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