



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 SW 1/4 Sec 23 Name of Business/Subdivision Little League Complex  
Property Tax ID Number 0091.999 Address of Property Adjacent to Mill Road

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

Description: SWP 235 002 Location Of Pond Pond #002, See Attached map for location.

Year Pond Constructed \_\_\_\_\_ Year of Last Certification \_\_\_\_\_

Compliance Verification	Design	Actual	Compliant Yes	No	Comments (Condition of Structure)
<b>Primary Outlet Pipe</b>					Outlet Pipe Material – Reinforced Concrete
Opening Diameter (inches)	12"		Yes		Upstream Outlet – Picture #2 – Minor Erosion around Apron Endwall.
Upstream Invert	815.40	816.70	No		Downstream Outlet – Picture #3 – Good
Downstream Invert	814.98		Yes		
Length (feet)	72'		Yes		
Slope (%)	0.50%		Yes		
<b>Secondary Outlet Pipe</b>	(If Applicable)		Outlet Pipe Material		
Opening Diameter (inches)					
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b>Riser</b>	(If Applicable)		Riser Material		
Opening Diameter (inches)					
Elevation					
<b>Upper Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)					
Elevation					

Compliance Verification		Design	Actual	Compliant Yes No		Comments			
<b>Lower Discharge Control</b>		(If Applicable)							
Opening Diameter (inches)									
Elevation									
<b>Other (Description)</b>									
Opening Type and Size (inches)									
Elevation									
<b>Emergency Spillway</b>									
Elevation	818.00		Yes		Picture #4				
Length of spillway (feet)			Yes						
<b>Embankment</b>		Present Yes no		Comments/Maintenance Requirements					
Unauthorized Plantings, trees, or woody vegetation		No							
Animal burrows or slope erosion		No							
<b>Storm Sewer Outfalls</b>		Type & Size		Location		Comments			
Outfall 1									
Outfall 2									
Outfall 3									
<b>Storage Properties</b>		Design	Actual	Compliant Yes No	Not Applicable	Equipment Used			
Normal Water Elevation (Wet Ponds)									
Design High Water Elevation									
Area at Normal Water Elevation (Ac) (Wet Ponds)									
Area at Design High Water Elevation (Ac)									
Active Storage Available (Ac-Ft)*									
Lowest Elevation at Top of Embankment (If Applicable)									
Average Elevation at Top of Embankment (If Applicable)	819.00	819.80							
Maximum Bottom Elevation									
Average Pond Bottom Elevation									
Pond Bottom Area (Ac)									
Maximum Pond Depth	3.60'	3.17'							
Average Pond Depth									
Average Permanent Pool Depth (Wet Ponds)									

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

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*

*Place Photograph of Pond*

See attached Photos

*Place Photograph of Pond*

Inspection Firm: Crispell-Snyder, INC  
Phone Number: 262-250-8000  
Address: W175 N11081 Stonewood  
Suite 103  
Germantown, WI 53022

Inspector Name: Bryan Greisch  
Inspection Date: August 17, 2011

### Certifying

Professional Name: Troy Hartjes  
Phone Number: 262-250-8000

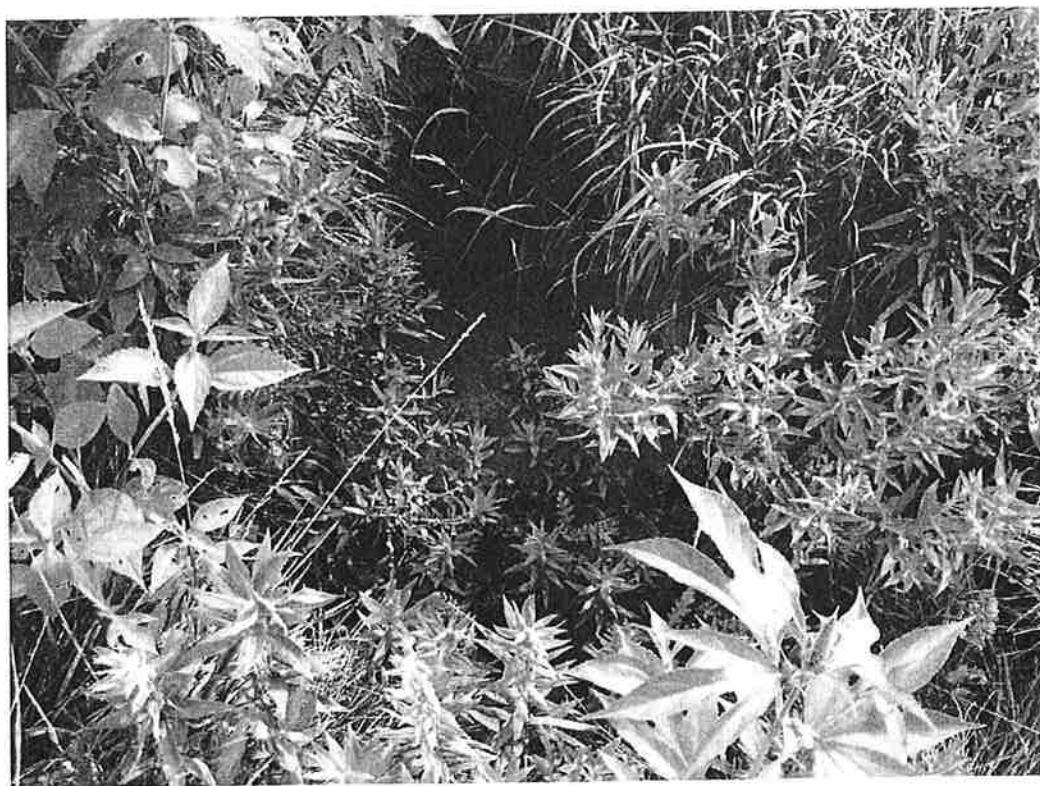
Data:

*Signature:*

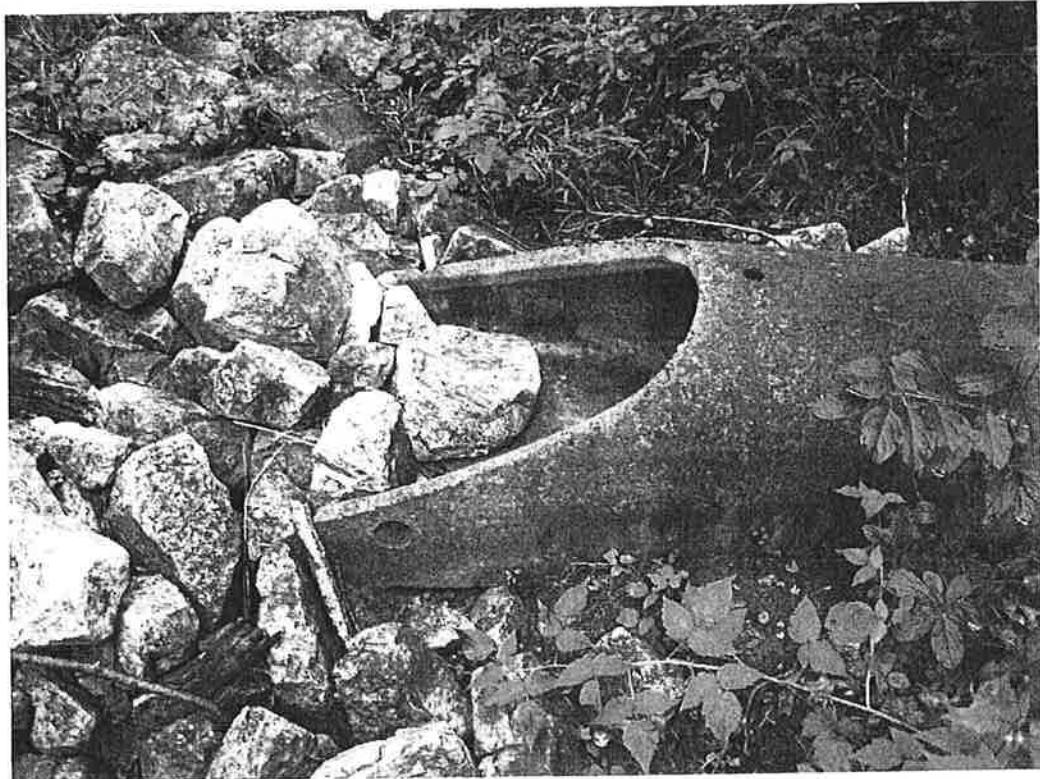
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#1 - Looking North at Pond #002



#2 - Upstream end of outfall, minor erosion around AEW



#3 - Downstream end of outfall



#4 - Emergency Spillway.



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Quarter Section SW 1/4 Sec 23 Name of Business/Subdivision Little League Complex  
Property Tax ID Number 0091.999 Address of Property Adjacent to Mill Road

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

Description: SWP 23S 003 Location Of Pond Pond #003, See Attached map for location.

Year Pond Constructed \_\_\_\_\_ Year of Last Certification \_\_\_\_\_

Compliance Verification	Design	Actual	Compliant Yes	Non-Compliant No	Comments (Condition of Structure)
<b>Primary Outlet Pipe</b>					Outlet Pipe Material – Reinforced Concrete
Opening Diameter (inches)	15"		Yes		Upstream Outlet – Picture #3 – Silt fence, Debris in front of pipe, no Apron Endwall.
Upstream Invert	812.40	814.01	No		Downstream Outlet – Picture #4 – Rocks & Silt Fence in Apron Endwall, minimal riprap.
Downstream Invert	811.98		Yes		
Length (feet)	72'		Yes		
Slope (%)	0.50%		Yes		
<b>Secondary Outlet Pipe</b>	(If Applicable)		Outlet Pipe Material		
Opening Diameter (inches)					
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b>Riser</b>	(If Applicable)		Riser Material		
Opening Diameter (inches)					
Elevation					
<b>Upper Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)					
Elevation					

Compliance Verification		Design	Actual	Compliant Yes	No	Comments			
<i>Lower Discharge Control</i>		(If Applicable)							
Opening Diameter (inches)									
Elevation									
<i>Other (Description)</i>									
Opening Type and Size (inches)									
Elevation									
<i>Emergency Spillway</i>									
Elevation	816.00		Yes		Picture #5				
Length of spillway (feet)			Yes						
<i>Embankment</i>		Present Yes      no		Comments/Maintenance Requirements					
Unauthorized Plantings, trees, or woody vegetation		No							
Animal burrows or slope erosion		No							
<i>Storm Sewer Outfalls</i>		Type & Size		Location		Comments			
Outfall 1									
Outfall 2									
Outfall 3									
<i>Storage Properties</i>		Design	Actual	Compliant Yes	No	Not Applicable			
Normal Water Elevation (Wet Ponds)									
Design High Water Elevation									
Area at Normal Water Elevation (Ac) (Wet Ponds)									
Area at Design High Water Elevation (Ac)									
Active Storage Available (Ac-Ft)*									
Lowest Elevation at Top of Embankment (If Applicable)	818.00	817.29	Yes						
Average Elevation at Top of Embankment (If Applicable)									
Maximum Bottom Elevation									
Average Pond Bottom Elevation									
Pond Bottom Area (Ac)									
Maximum Pond Depth	3.60'	3.83'	Yes						
Average Pond Depth									
Average Permanent Pool Depth (Wet Ponds)									

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

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

*Place Photograph of Pond*

See attached Photos

*Place Photograph of Pond*

Inspection Firm: Crispell-Snyder, INC  
Phone Number: 262-250-8000  
Address: W175 N11081 Stonewood Dr  
Suite 103  
Germantown, WI 53022

Inspector Name: Bryan Greisch  
Inspection Date: August 17, 2011

Certifying  
Professional Name: Troy Hartjes  
Phone Number: 262-250-8000

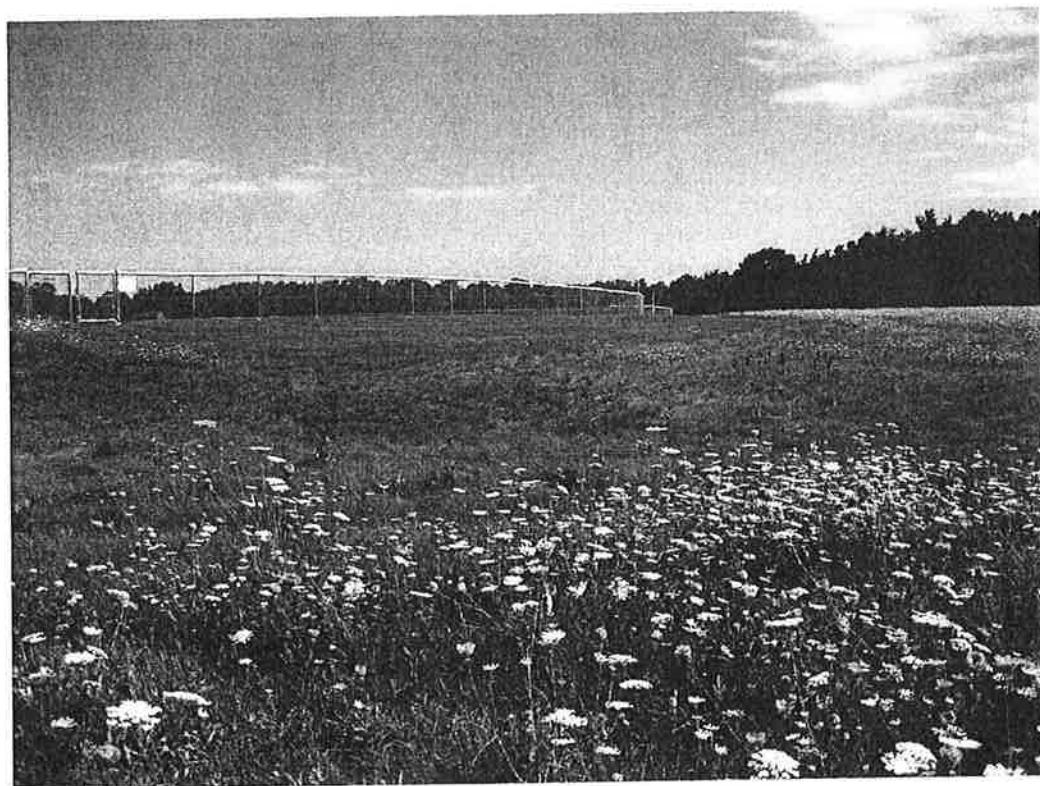
Date:

Signature:

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#1 - Looking Northeast over Pond #003



#2 - Looking North



#3 - Standing on top of Upstream outlet, silt fence, debris in front of pipe, does not look like AEW was put in or it was pulled out.



#4 - Downstream outfall, rocks and silt fence in AEW.



#5 - Emergency Spillway.



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Quarter Section SW 1/4 Sec 23 Name of Business/Subdivision Little League Complex  
Property Tax ID Number 0091.999 Address of Property Adjacent to Mill Road

Dry Pond	X	Location Of Pond	Pond #004, See Attached map for location.
Wet Pond			
Other			

Year Pond Constructed \_\_\_\_\_ Year of Last Certification \_\_\_\_\_

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
<b>Primary Outlet Pipe</b>					Outlet Pipe Material – Reinforced Concrete
Opening Diameter (inches)	15"		Yes		Upstream Outlet – Picture #6 & 7 – minor vegetation around Apron Endwall, Debris in Endwall.
Upstream Invert	811.50	811.98	Yes		
Downstream Invert	810.98		Yes		Downstream Outlet – Picture #9 – Hole next to outfall, could be from animal, did not look like from erosion.
Length (feet)	98'		Yes		
Slope (%)	0.50%		Yes		
<b>Secondary Outlet Pipe</b>	(If Applicable)		Outlet Pipe Material		
Opening Diameter (inches)					
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b>Riser</b>	(If Applicable)		Riser Material		
Opening Diameter (inches)					
Elevation					
<b>Upper Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)					
Elevation					

Compliance Verification		Design	Actual	Compliant Yes      No	Comments						
<b>Lower Discharge Control</b>		(If Applicable)									
Opening Diameter (inches)											
Elevation											
<b>Other (Description)</b>											
Opening Type and Size (inches)											
Elevation											
<b>Emergency Spillway</b>											
Elevation	815.00		Yes		Picture #8						
Length of spillway (feet)			Yes								
<b>Embankment</b>		Present Yes      no		Comments/Maintenance Requirements							
Unauthorized Plantings, trees, or woody vegetation		No	Low spot in SE corner of pond picture #3, regrade to flow out.								
Animal burrows or slope erosion		No	Fix erosion of slope by outfall #3 & 4								
<b>Storm Sewer Outfalls</b>		Type & Size		Location		Comments					
Outfall 1	8" corrugated plastic	SE Corner of Pond		Picture #2, minor area of no vegetation							
Outfall 2	8" corrugated plastic	South side of pond		Pic. #1, minor erosion, over growth							
Outfall 3 & 4	8" corrugated plastic	SW Corner & West Side		Pic. #4 & 5 pipe exposed from erosion							
<b>Storage Properties</b>		Design	Actual	Compliant Yes      No	Not Applicable	Comments					
Normal Water Elevation (Wet Ponds)						Low spot on SE corner of pond, regrade to flow. Baseball field built in SW corner of pond, so it will affect pond storage from original design.					
Design High Water Elevation											
Area at Normal Water Elevation (Ac) (Wet Ponds)											
Area at Design High Water Elevation (Ac)											
Active Storage Available (Ac-Ft)*											
Lowest Elevation at Top of Embankment (If Applicable)	816.00										
Average Elevation at Top of Embankment (If Applicable)											
Maximum Bottom Elevation											
Average Pond Bottom Elevation											
Pond Bottom Area (Ac)											
Maximum Pond Depth	3.50'	3.02'									
Average Pond Depth											
Average Permanent Pool Depth (Wet Ponds)											

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

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

*Place Photograph of Pond*

See attached Photos

*Place Photograph of Pond*

Inspection Firm: Crispell-Snyder, INC Inspector Name: Bryan Greisch  
Phone Number: 262-250-8000 Inspection Date: August 17, 2011  
Address: W175 N11081 Stonewood Dr  
Suite 103  
Germantown, WI 53022

Certifying

Professional Name: Troy Hartjes  
Phone Number: 262-250-8000

*Affix Seal Here*



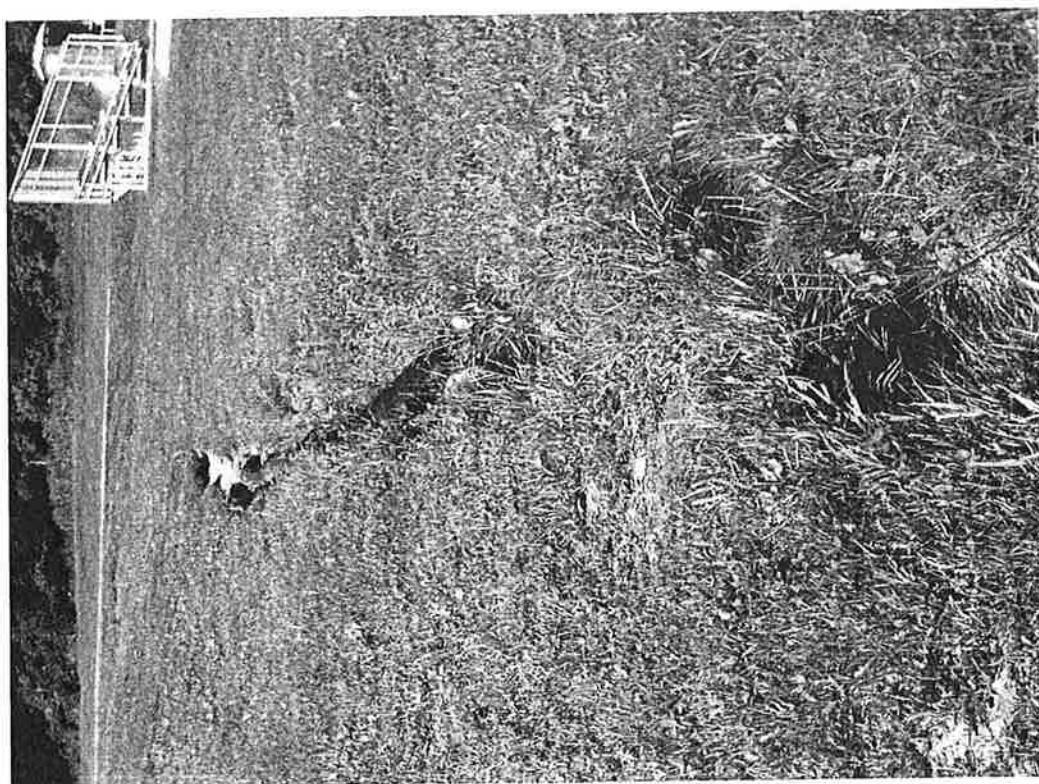
#1 - Storm outfall #2, South side of pond, Minor erosion around riprap, riprap push down slope.



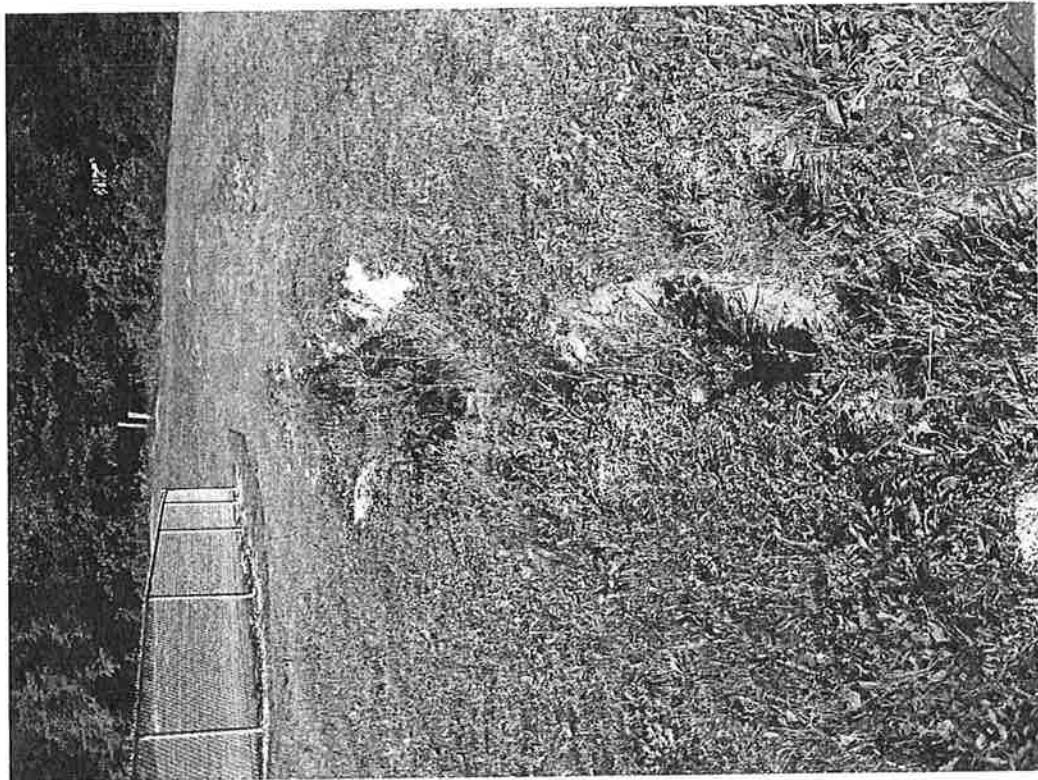
#2 - Storm outfall #1, SE corner of pond, minor areas of dead grass around riprap.



#3 - Low spot in SE corner of pond.



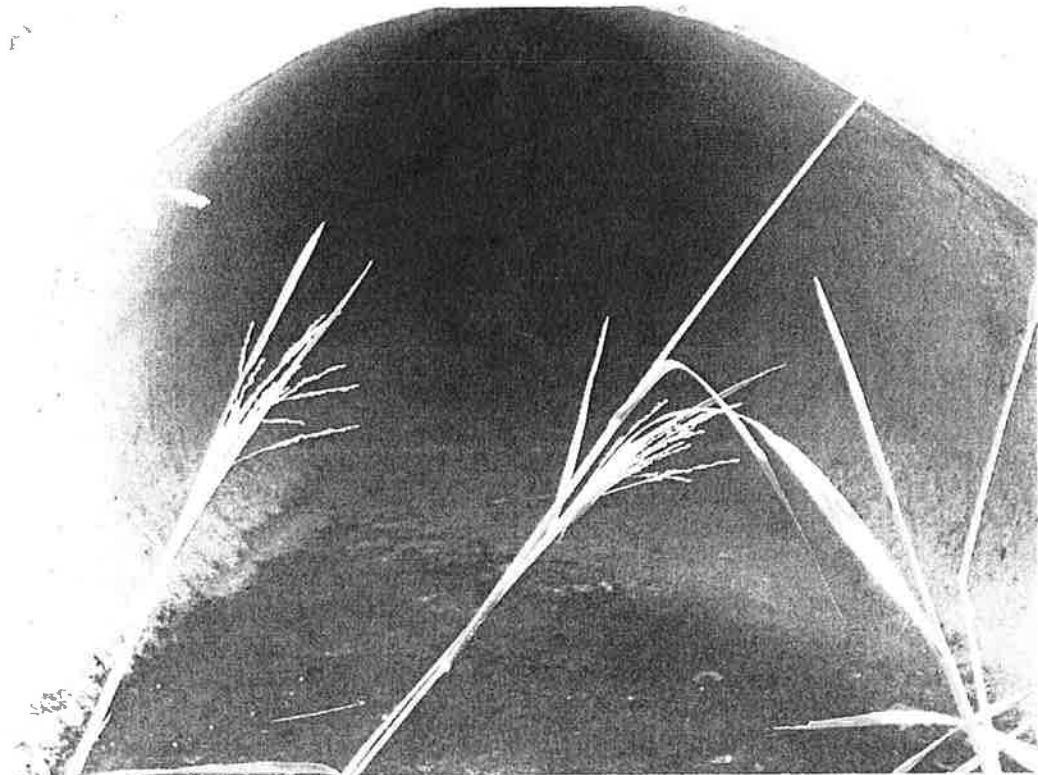
#4 - Storm outfall #3, SW corner of pond, ground eroded away on top of pipe and in front of pipe.



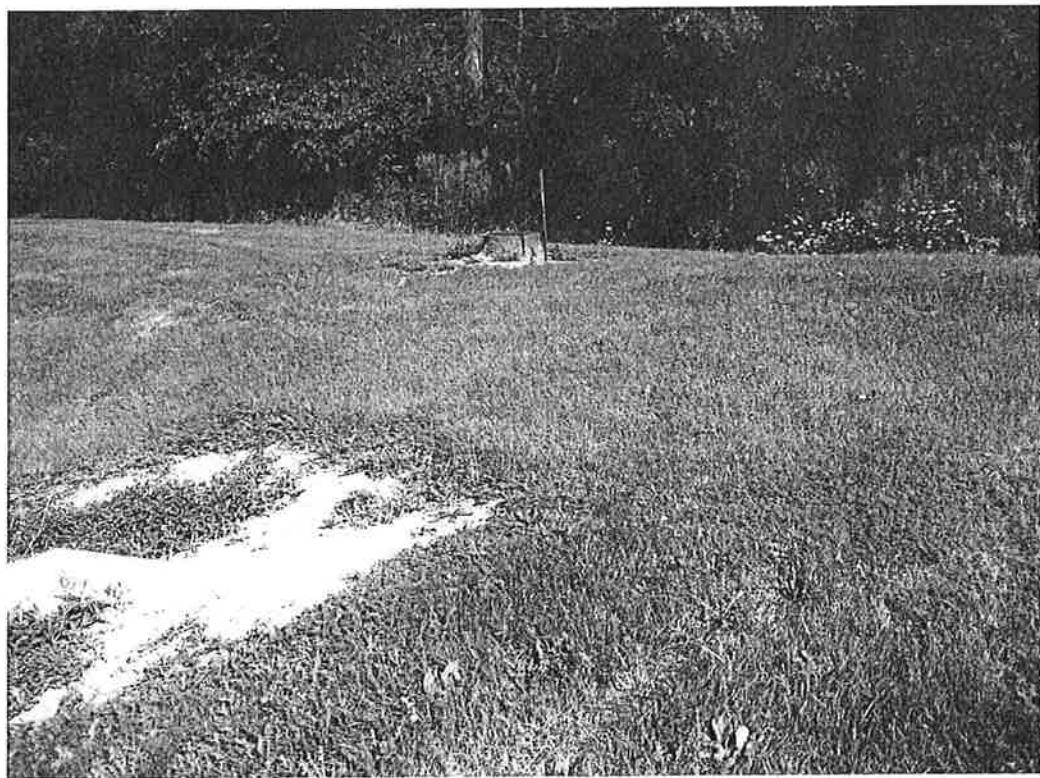
#5 - Storm outfall #4, west side of pond, ground eroded away on top of pipe and in front of pipe.



#6 - Upstream end of outfall, minor vegetation around outfall.



#7 - Upstream end of outfall, debris caught in AEW.



#8 - Emergency Spillway.



#9 - Downstream end of outfall, hole next to outfall, might be from and animal.



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Property Tax ID Number 0091.999 Address of Property Adjacent to Mill Road

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

Description: SWP 23S 005 Location Of Pond Pond #005, See Attached map for location.

Year Pond Constructed \_\_\_\_\_ Year of Last Certification \_\_\_\_\_

Compliance Verification	Design	Actual	Compliant Yes	Non-Compliant No	Comments ( Condition of Structure)
<b><i>Primary Outlet Pipe</i></b>					
Opening Diameter (inches)	12"		Yes		Outlet Pipe Material – Reinforced Concrete
Upstream Invert	819.10	819.27	Yes		Upstream Outlet – Picture #3 & 4 – Apron Endwall & Pipe separated, Riprap rocks in AEW, dead grass around endwall
Downstream Invert	818.84	818.83	Yes		Downstream Outlet – Picture #1 & 2 – Top of Apron Endwall & Pipe Broken out, minor overgrowth of riprap.
Length (feet)	50'		Yes		
Slope (%)	0.50%		Yes		
<b><i>Secondary Outlet Pipe</i></b>					
Opening Diameter (inches)					Outlet Pipe Material
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b><i>Riser</i></b>					
Opening Diameter (inches)					Riser Material
Elevation					
<b><i>Upper Discharge Control</i></b>					
Opening Diameter (inches)					
Elevation					

Compliance Verification	Design	Actual	Compliant Yes	No	Comments
<b>Lower Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)					
Elevation					
<b>Other (Description)</b>					
Opening Type and Size (inches)					
Elevation					
<b>Emergency Spillway</b>					
Elevation	823.00	821.28	No		Picture #5, Spillway looks like built to the right of
Length of spillway (feet)			Yes		Outlet, design show it to be over outlet.
<b>Embankment</b>	Present Yes      no		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation		No	Landscape plan does not show pond in this area, so trees do not match plan, but no issue with trees planted. Embankment along		
Animal burrows or slope erosion		No	Mill road seems low compared to what was designed. Picture #6		
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments
Outfall 1					
Outfall 2					
Outfall 3					
<b>Storage Properties</b>	Design	Actual	Compliant Yes	No	Not Applicable
Normal Water Elevation (Wet Ponds)					
Design High Water Elevation					
Area at Normal Water Elevation (Ac) (Wet Ponds)					
Area at Design High Water Elevation (Ac)					
Active Storage Available (Ac-Ft)*					
Lowest Elevation at Top of Embankment (If Applicable)	824.00	821.98		No	
Average Elevation at Top of Embankment (If Applicable)					
Maximum Bottom Elevation					
Average Pond Bottom Elevation	820.00	820.00	Yes		
Pond Bottom Area (Ac)					
Maximum Pond Depth	3.70'	2.01'		No	
Average Pond Depth					
Average Permanent Pool Depth (Wet Ponds)					

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

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

*Place Photograph of Pond*

See attached Photos

*Place Photograph of Pond*

Inspection Firm: Crispell-Snyder, INC Inspector Name: Bryan Greisch  
Phone Number: 262-250-8000 Inspection Date: August 17, 2011  
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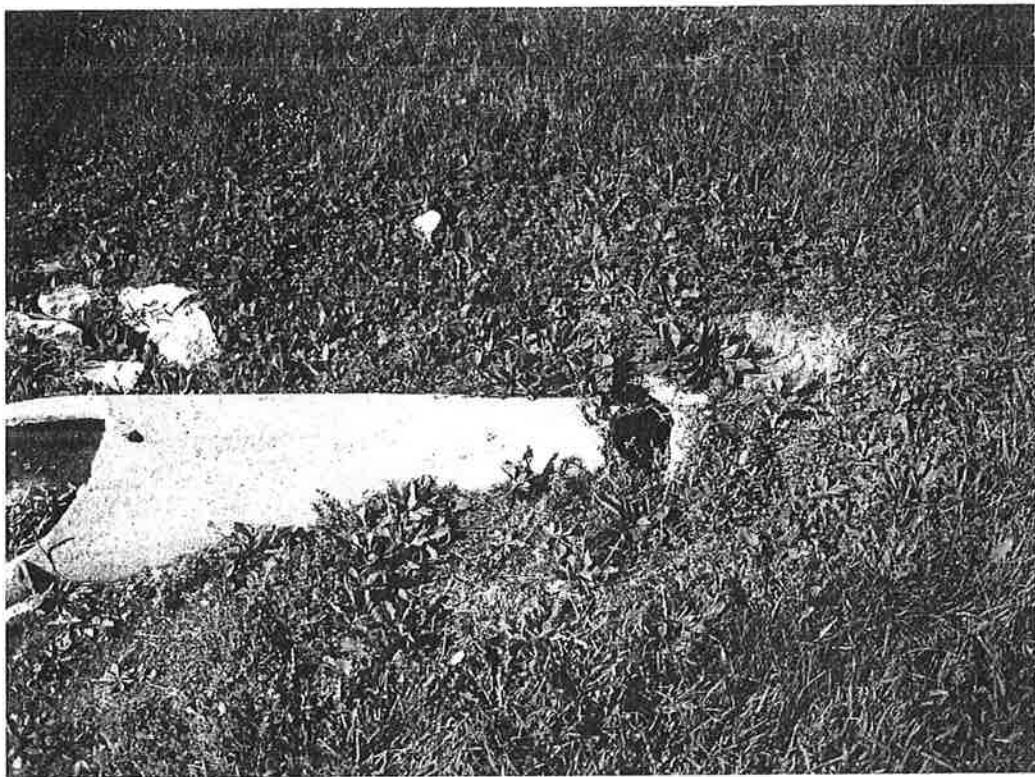
Certifying

Professional Name: Troy Hartjes  
Phone Number: 262-250-8000

Date:

Signature:

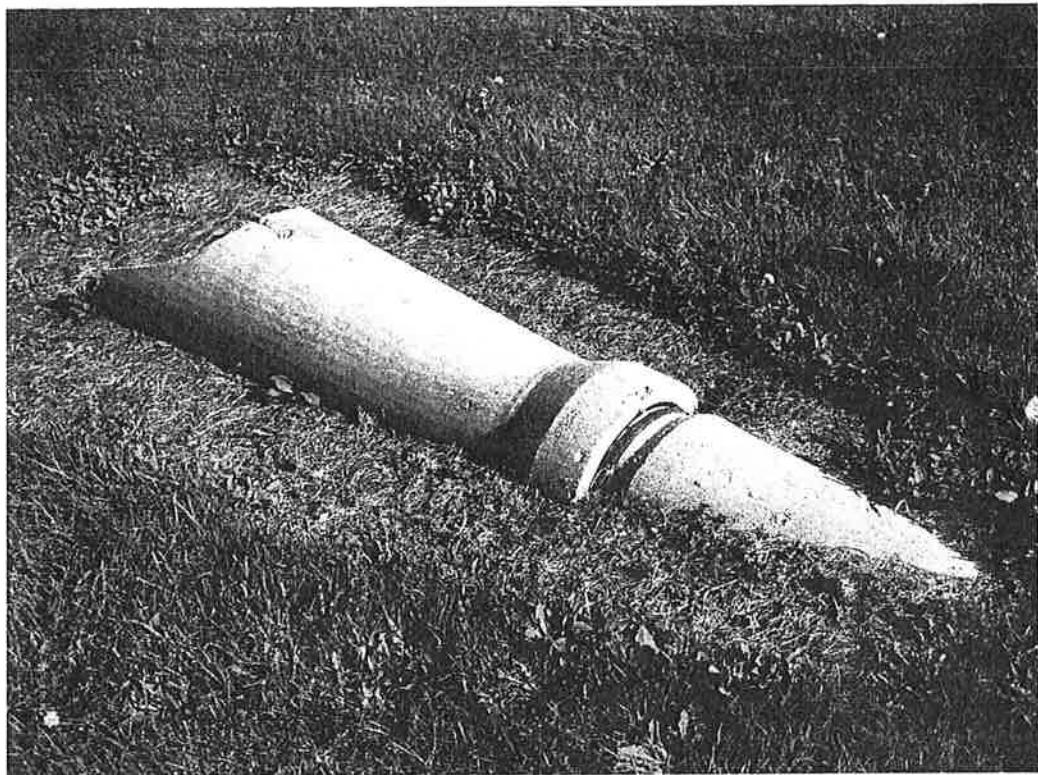
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#1 - Downstream end of outfall, top of AEW and pipe broken out.



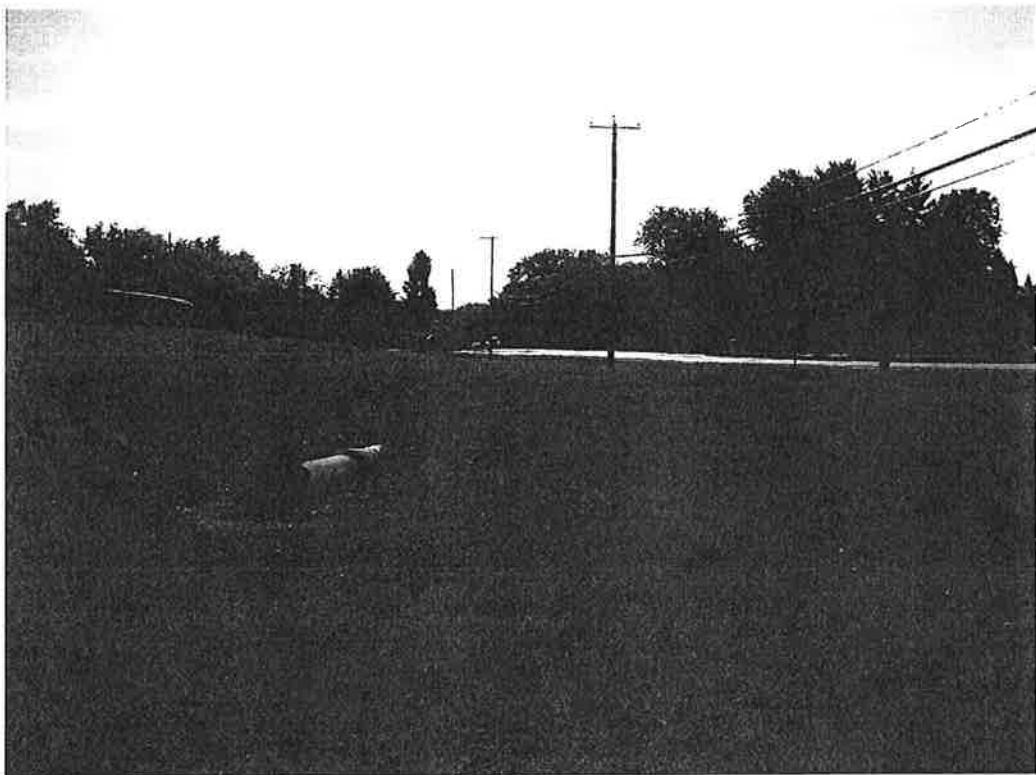
#2 - Downstream end of outfall, riprap getting grown in.



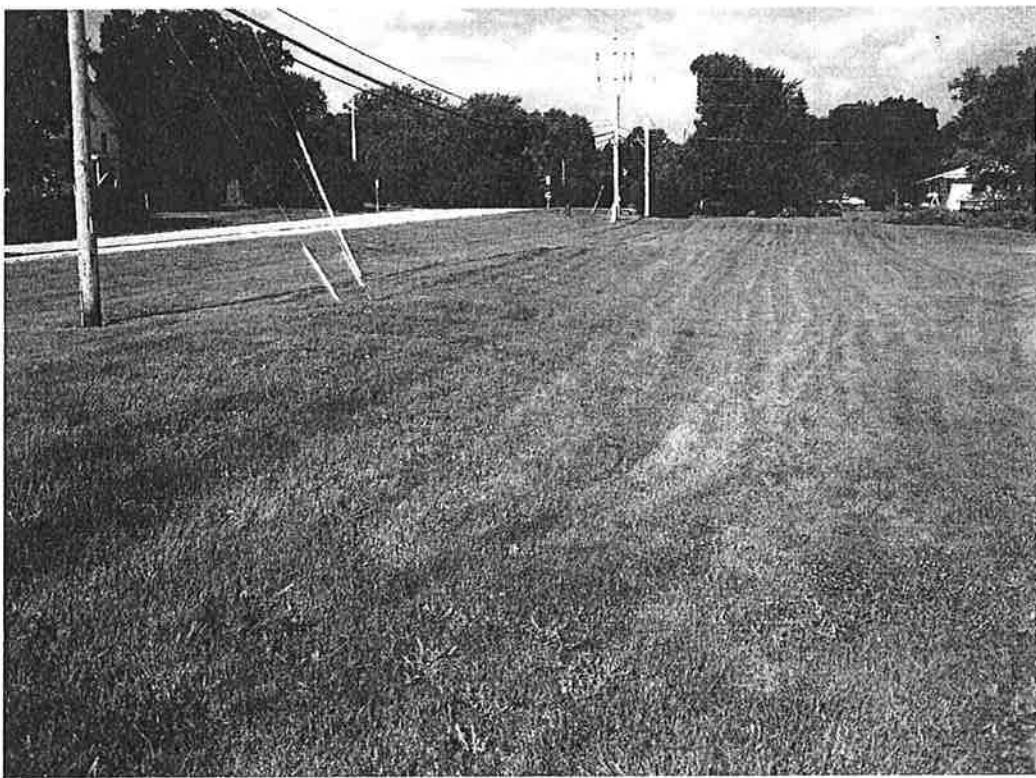
#3 - Upstream end of outfall, AEW separated from pipe.



#4 - Upstream end of outfall, Riprap rocks in AEW, grass died around AEW



#5 - Emergency Spillway built to the right of outfall, designed to be on top of outfall.



#6 South Embankment looking west, seems to be lower than what was designed.