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: NW 3, 8-20
Property Tax ID Number: 0010-971
Date: April 12, 2016
Name of Business/Subdivision: STEINHAFELS FURNITURE
Address of Property: N93W16677 RICHFIELD WAY, MENOMEE FALLS, WI

Dry Pond	
Wet Pond	X
Other	

Pond ID: SWP3N001

Location of Pond: Behind Steinhafels Building

Year Pond Constructed: 2005

Year of Last Certification: 2009

Compliance Verification	Design	Actual	Compliant Yes	Compliant No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material: Corrugated Plastic Pipe
Opening Diameter (inches)	12"	12"	X		Pipe is in good shape. No sediment present inside of the pipe.
Upstream Invert	840.40	840.08	X		
Downstream Invert	839.97	839.65	X		
Length (feet)	43'	44.5	X		
Slope (%)	1.00%	0.97%	X		
Secondary Outlet Pipe	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)					
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser	(If Applicable)				Riser Material : Corrugated Metal Pipe
Opening Diameter (inches)	42"	42"	X		With the low water levels the entire outlet structure was viewable for inspection. Some minor settlement has occurred around the front structure. May want to add some light riprap around the structure. Otherwise structure is in good shape.
Elevation	846.50	846.63	X		Water elevation on April 11, 2016 surveyed at 841.44
Upper Discharge Control	(If Applicable)				
Opening Diameter (inches)	6"	6"	X		One 6" orifice hole in the CMP Riser Structure
Elevation	840.40	843.22	X		

Compliance Verification	Design	Actual	Compliant Yes	Compliant No	Comments
Lower Discharge Control	(If Applicable)				
Opening Diameter (inches)					
Elevation					
Other (Description)					
Opening Type and Size (inches)					
Elevation					
Emergency Spillway					
Elevation	846.50	845.87	X		Numerous trees have fallen down on the outside of the northern berm around the emergency spillway. These should be removed.
Length of spillway (feet)	18'x17'	24'x12'	X		

Embankment	Present Yes	Present no	Comments/Maintenance Requirements
Unauthorized Plantings, trees, or woody vegetation	X		There are 2 small trees growing at the edge of the pond water that should be removed.
Animal burrows or slope erosion	X		There is 1 animal burrow in the north bank that should be filled.

Storm Sewer Outfalls	Type & Size	Location	Comments
Outfall 1			
Outfall 2			
Outfall 3			

Storage Properties	Design	Actual	Compliant Yes	Compliant No	Not Applicable	Equipment Used
Normal Water Elevation *(Wet Ponds)*	840.40	843.22	X			GPS Survey
Design High Water Elevation	846.50	845.87	X			AutoCAD C3D
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.17	0.30	X			
Area at Design High Water Elevation (Ac)	0.46	0.43	X			
Active Storage Available (Ac-Ft)*						
Lowest Elevation at Top of Embankment (If Applicable)						
Average Elevation at Top of Embankment (If Applicable)	848.50	849.05	X			Note: Per WisDNR Wet Detention Pond (1001), Section VI Operation and Maintenance, sediment removal is required once the average depth of the permanent pool is 3.5 feet This pond is close to requiring sediment removal.
Maximum Bottom Elevation	835.00	839.55	X			
Average Pond Bottom Elevation	835.00	839.66	X			
Pond Bottom Area (Ac)	0.02	0.02	X			
Maximum Pond Depth	5.40	6.32	X			
Average Pond Depth	5.40	3.56	X			
Average Permanent Pool Depth *(Wet Ponds)*						

*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	*Place Photograph of Pond or Attach to Document*
SEE ATTACHED SKETCH	***SEE ATTACHED PHOTGRAPHS***
	Place Photograph of Pond or Attach to Document
	SEE ATTAHCED PHOTOGRAPHS

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

Inspection Firm:	DAAR Engineering, Inc.	Inspector Name :	Anthony F. Baciak, Jr., P.E.
Phone Number:	(414)-225-9817	Inspection Date:	April 11, 2016
Address:	325 E. Chicago Street Suite 500 Milwaukee, WI 53202		

Certifying Professional Name: *Anthony F. Baciak, Jr., P.E.*

Phone Number: *(414)-225-9817*

WISCONSIN
ANTHONY F. BACIAK, JR. E-37379 Milwaukee, WI
PROFESSIONAL ENGINEER

Affix Seal Here

Date:	*Signature:*
4/12/16	

4/12/16

Pond SWP3N001 – Looking Northeast from Outlet Structure

Pond SWP3N001 – Looking Southwest towards Outlet Structure

Pond SWP3N001 – 42" CMP Outlet Structure

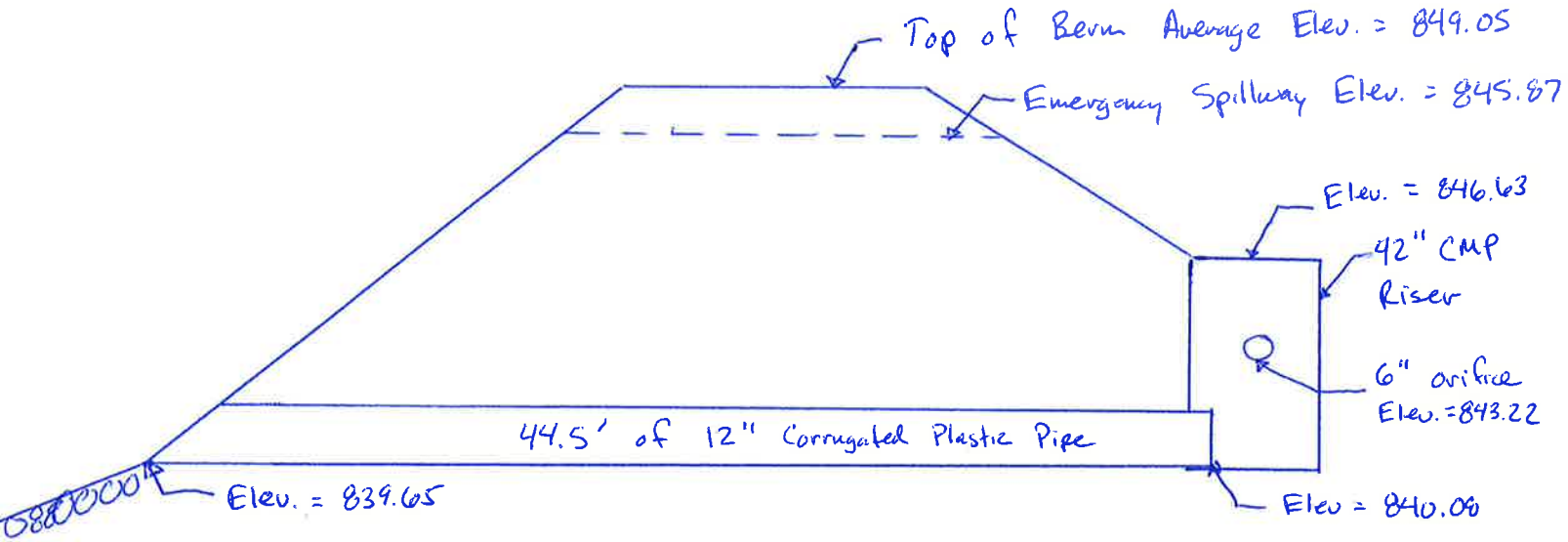
Pond SWP3N001 – 12" Outlet Discharge End

Pond SWP3N001 – Looking inside 42" CMP Outlet Structure

Pond SWP3N001 – Numerous trees have fallen along the Northern berm near the Emergency Spillway

Pond SWP3N001 – Rodent burrow along the Northern berm west of the Emergency Spillway

Pond SWP3N001 – Two Small Trees growing along the Southern edge of water



Outlet Structure Sketch