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 ¼ of Sec 25
Property Tax ID Number: MNFV0098151
Date: June 12, 2015
Name of Business/Subdivision: Weyerhaven Subdivision-Phase 1
Address of Property: Weyerhaven Drive, Menomonee Falls, WI

Dry Pond	
Wet Pond	X
Other	

Pond ID: SWP

Location of Pond: Large central pond (east of Weyerhaven Blvd entrance from Lilly Road)

Year Pond Constructed: 2014
Year of Last Certification: 2015

Compliance Verification	Design	Actual	Compliant Yes	Compliant No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	14x23	14x23	X		RCP outlet pipe discharges into ditch line at northeast corner of Lilly Road & Weyerhaven Blvd. Outfall riprap is in good condition.
Upstream Invert	775.7	775.61	X		
Downstream Invert	773.64	773.62	X		
Length (feet)	374	374	X		
Slope (%)	0.55	0.53	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)	48	48	X		RCP riser structure built in to the western slope of the pond; in good condition.
Elevation	779.23	779.24	X		
Upper Discharge Control	(If Applicable)				
Opening Diameter (inches)					
Elevation					

Compliance Verification	Design	Actual	Compliant Yes	Compliant No	Comments
Lower Discharge Control	(If Applicable)				
Opening Diameter (inches)	4.5	4.5	X		The low discharge control in Phase 1 is a 4.5" diameter orifice cored into the end of a cap on the 15" diameter PVC outlet pipe extending from the water's edge to the RCP riser structure.
Elevation	776.3	776.35	X		
Other (Description)					
Opening Type and Size (inches)	19x30	19x30	X		(3) – 19"x30" RCP outlet pipes (with poured in place endwalls) across Weyerhaven Drive provide conveyance of emergency spillway runoff (for events >100-year storm).
Elevation	777.32	777.23	X		
Emergency Spillway					
Elevation	780.0	780.09	X		Grass vegetation established.
Length of spillway (feet)	20	20	X		

Embankment	Present Yes	Present no	Comments/Maintenance Requirements
Unauthorized Plantings, trees, or woody vegetation		X	*Slope erosion in southeast corner adjacent to upslope wetland. Regrade to uniform slope and install erosion mat over geofabric or geosynthetic channel erosion matting with seed.*
Animal burrows or slope erosion	X		

Storm Sewer Outfalls	Type & Size	Location	Comments
Outfall 1	30" RCP	West embankment	Stabilized outfall
Outfall 2	18" RCP	Northeast Corner	Stabilized outfall
Outfall 3	33" RCP	Southeast Corner	Stabilized outfall

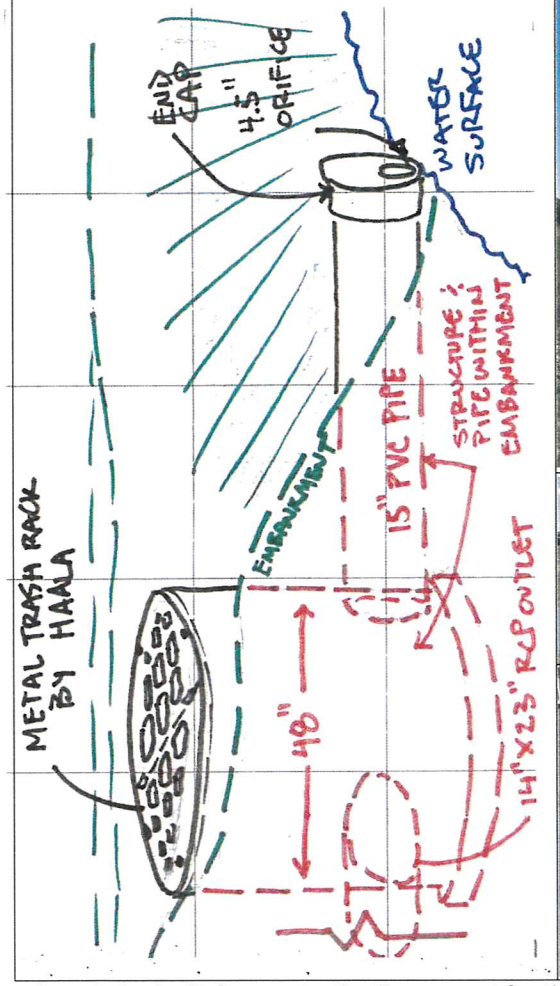
Storage Properties	Design	Actual	Compliant Yes	Compliant No	Not Applicable	Equipment Used
Normal Water Elevation *(Wet Ponds)*	776.3	776.35	X			GPS (Navcom)
Design High Water Elevation	779.6	779.6	X			GPS (Navcom)
Area at Normal Water Elevation (Ac) (Wet Ponds)	1.28	1.29	X			
Area at Design High Water Elevation (Ac)	1.84	1.86	X			
Active Storage Available (Ac-Ft)*	4.72	4.71	X			
Lowest Elevation at Top of Embankment (If Applicable)	781.0	781.34	X			GPS (Navcom)
Average Elevation at Top of Embankment (If Applicable)	781.0	781.37	X			GPS (Navcom)
Maximum Bottom Elevation	763.0	762.79	X			GPS (Navcom)
Average Pond Bottom Elevation	763.0	762.8	X			
Pond Bottom Area (Ac)	0.31	0.31	X			
Maximum Pond Depth	3.7	3.74	X			For ponding depth between Normal Water Elevation and Overflow Spillway
Average Pond Depth	3.7	3.74	X			
Average Permanent Pool Depth *(Wet Ponds)*	13.3	13.55	X			

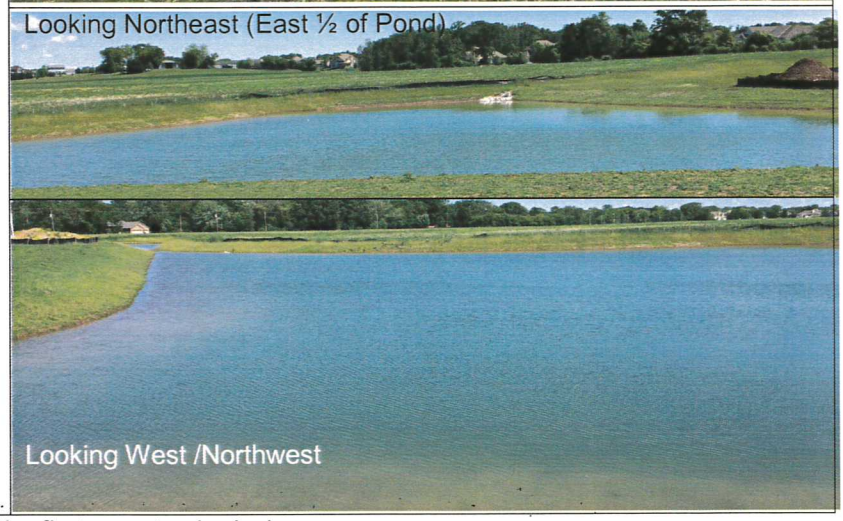
*To Determine Active Storage V=H/3(A1+A2+(A1xA2)1/2)

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:	Trio Engineering, LLC	Inspector Name :	Joshua D. Pudelko, PE
Phone Number:	262-790-1480	Inspection Date:	June 12, 2015
Address:	12660 W. North Avenue Brookfield, WI 53005		

Certifying Professional

Name:	Joshua D. Pudelko, PE
Phone Number:	*262-790-1480*

Date:	*Signature:*
6/15/15	

WISCONSIN
JOSHUA D. PUDELKO
E-39420
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PROFESSIONAL ENGINEER

Affix Seal Here