



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
Property Tax ID Number
Date 5/25/21

NW 1/4 Sec 2
006.992.003
Name of Business/Subdivision
Address of Property
Wacker Neuson Production Americas
N92 W15000 Anthony Avenue
Men. Falls, WI 53051

Dry Pond	x	Pond ID: SWP2N005	Location of Pond	North of Megal Court
Wet Pond				
Other				

Year Pond
Constructed

2011

Year of Last
Certification

2016

Compliance Verification		Design	Actual	Compliant Yes No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material No design information was provided for the basin outlets and the design plan of the basin provided does not show any outlets. As built outlet consists of a storm inlet with rim elevation of 806.99 with an 18" discharge pipe with an invert of 804.36. Storm inlet and storm pipe appear to be in good condition. The storm pipe discharges to the south to a secondary storm inlet. Pipe material is RCP
Opening Diameter (inches)	?	18"			
Upstream Invert	?	804.36			
Downstream Invert	?	803.8			
Length (feet)	?	34			
Slope (%)	?	1.65			
Secondary Outlet Pipe		(If Applicable)		Outlet Pipe Material	
Opening Diameter (inches)	?	24"			No design information was provided for the basin outlets and the design plan of the basin provided does not show any outlets. A secondary as-built outlet exists consisting of a storm inlet with a rim elevation of 807.52 with a 24" discharge pipe with an invert of 800.8. The 24" pipe discharges to the south towards Megal Court with an unknown discharge location. It is assumed that the pipe discharges into the storm system for Megal Court.
Upstream Invert	?	800.8			
Downstream Invert	?	Not known			

Length (feet)	?	Not known			
Slope (%)	?	Not known			
Riser	(If Applicable)		Riser Material		
Opening Diameter (inches)	?	N/A			No riser present
Elevation	?	N/A			
Upper Discharge Control	(If Applicable)				
Opening Diameter (inches)	?	N/A			No orifices
Elevation	?	N/A			

Compliance Verification	Design	Actual	Compliant Yes	No	Comments
Lower Discharge Control	(If Applicable)				
Opening Diameter (inches)	?	N/A			No orifices
Elevation	?	N/A			
Other (Description)					
Opening Type and Size (inches)	?	N/A			
Elevation	?	N/A			
Emergency Spillway					
Elevation	809 +/-	807.4		X	There is no defined spillway; storm water will overflow onto street stub from Megal Court at an elevation of approximately 807.41
Length of Spillway (feet)	?				
Embankment	Present Yes no		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation	X		Surface cover in good condition. Woody vegetation is growing in the basin. We recommend these be removed.		
Animal burrows or slope erosion		X			
Storm Sewer Outfalls	Type & Size		Location	Comments	
Outfall 1	N/A				
Outfall 2	N/A				
Outfall 3	N/A				

Storage Properties	Design	Actual	Compliant Yes No	Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)				X	The design high water elevation was taken from Table 6 of the July 21, 2011 Graef Storm Water Report. Area at design high water elevation and design area of basin bottom were measured from the basin design plan (Figure 4 of SWMP Report). Storm water report indicates an active storage area of 2.36 ac-ft; the active storage area as calculated based on the volume equation below was 1.39 ac-ft. The as-built bottom of the storm water basin appears to be defined by the 807 contour with the lowest elevation of the basin bottom at 806.99. Based on the as-built survey, it appears that storm water would only pond to approximately elevation 807.41 before overflowing onto the street stub and onto Megal Court to the south. As such, the 807.41 was assumed to be the high water elevation for the as-built basin for purposes of calculating the as-built active storage volume.
Design High Water Elevation	809.65	807.4 See comments	X		
Area at Normal Water Elevation (Ac) (Wet Ponds)				X	
Area at Design High Water Elevation (Ac)	1.32+/-	0.23+/-	X		
Active Storage Available (Ac-Ft)*	2.36/1.39	0.05	X		
Lowest Elevation at Top of Embankment (If Applicable)	810+/-	807.41	X	X	
Average Elevation at Top of Embankment (If Applicable)				X	
Maximum Bottom Elevation	807 +/-	808			
Average Pond Bottom Elevation	807 +/-	807+/-	X		
Pond Bottom Area (Ac)	0.25	0.13	X		
Maximum Pond Depth	2.65	0.42	X		
Average Pond Depth				X	
Average Permanent Pool Depth (Wet Ponds)				X	

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

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 attached photo pages

Place Photograph of Pond or Attach to Document

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

Inspection Firm: The Sigma Group, Inc

Phone Number: 414-643-4200

Address: 1300 W Canal Street
Milwaukee, WI 53233

Inspector Name: James Leedom, P.E.

Inspection Date: 5/24/21

Certifying Professional James B. Leedom, P.E.

Name:

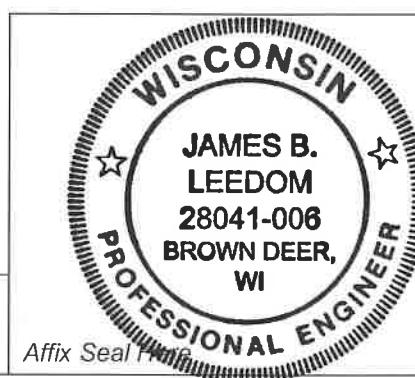
Phone Number: 414-643-4169

Date:

6/8/21

Signature:

J. B. L.



10-3-2012



Photo 1: Looking west along south edge of basin



Photo 2: Looking northwest across basin. Note woody vegetation growing in basin.

Wacker Neuson Pond SWP2N005

May 24, 2021

Menomonee Falls, WI

Sigma Project Number: #20031



Photo 3: Looking northwest across basin from street stub.
Note woody vegetation.



Photo 4: Looking north across basin.

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Photo 5: Primary basin outlet.



Photo 6: Secondary basin outlet.