



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 Sec 2 Name of Business/Subdivision Wacker Neuson Production Americas
 Property Tax ID Number 006.992.003 Address of Property N92 W15000 Anthony Avenue
 Date _____ Men. Falls, WI 53051

Dry Pond	X
Wet Pond	
Other	

Location of Pond North of Megal Court

Pond ID: SWP2N005

Year Pond Constructed 2011 Year of Last Certification NA

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					
Opening Diameter (inches)	?	18"			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 804.5. Storm inlet and storm pipe appear to be in good condition.
Upstream Invert	?	804.5			
Downstream Invert	?	803.8			
Length (feet)	?	34			
Slope (%)	?	2.06			
Secondary Outlet Pipe (If Applicable)					
Opening Diameter (inches)	?	24"			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. 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.
Upstream Invert	?	800.8			
Downstream Invert	?	Not Known			
Length (feet)	?	Not known			
Slope (%)	?	Not know			
Riser (If Applicable)					
Opening Diameter (inches)	?	NA			Riser Material No riser present

Elevation	?	NA			
Upper Discharge Control	(If Applicable)				
Opening Diameter (inches)	?	NA			No orifices
Elevation	?	NA			

Compliance Verification	Design	Actual	Compliant		Comments
			Yes	No	
Lower Discharge Control	(If Applicable)				
Opening Diameter (inches)	?	NA			No orifices
Elevation	?	NA			
Other (Description)					
Opening Type and Size (inches)	?	NA			
Elevation	?	NA			
Emergency Spillway					
Elevation	809 +/-				There is no defined spillway; storm water will overflow onto street stub from Megal Court
Length of spillway (feet)	?				
Embankment	Present Yes no		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation		X	There is minor rutting through the basin from recently installed utilities through the basin. The disturbed area should be seeded, mulched and stabilized		
Animal burrows or slope erosion	X				
Storm Sewer Outfalls	Type & Size		Location		Comments
Outfall 1	NA				
Outfall 2	NA				
Outfall 3	NA				

Storage Properties	Design	Actual	Compliant		Not Applicable	Equipment Used
			Yes	No		
Normal Water Elevation (Wet Ponds)					X	The design high water elevation and the design active storage volume were 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 provided by the Village. The storm water basin as currently constructed does not have an embankment at the south side at the street stub. The as-built bottom of the basin appears to be defined by the 808 contour with the lowest elevation of the basin bottom at approximately 807. Based on the as-built survey, it appears that storm water would only pond to approximately elevation 807.32 before overflowing onto the street stub and onto Megal Court to the south. As such, the 807.32 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	807.32 See Comm ents				
Area at Normal Water Elevation (Ac) (Wet Ponds)					X	
Area at Design High Water Elevation (Ac)	1.32 +/-	0.17				
Active Storage Available (Ac-Ft)*	2.36	0.03				
Lowest Elevation at Top of Embankment (If Applicable)					X	
Average Elevation at Top of Embankment (If Applicable)					X	
Maximum Bottom Elevation	807+/-	808				
Average Pond Bottom Elevation	807+/-	807.5				
Pond Bottom Area (Ac)	0.25+/-					
Maximum Pond Depth	2.65					
Average Pond Depth					X	
Average Permanent Pool Depth (Wet Ponds)					X	

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

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 or Attach to Document

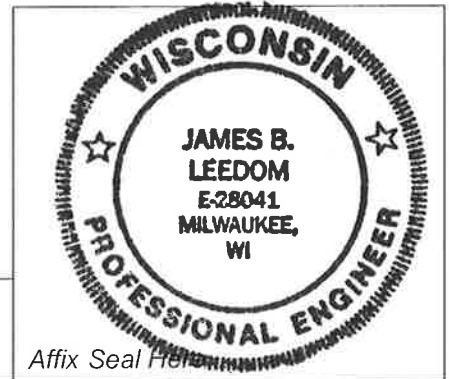
Place Photograph of Pond or Attach to Document
See attached photos

Place Photograph of Pond or Attach to Document
See attached photos

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

Inspection Firm:	<u>The Sigma Group, Inc</u>	Inspector Name :	<u>James Leedom, P.E.</u>
Phone Number:	<u>414-643-4200</u>	Inspection Date:	<u>6/24/16</u>
Address:	<u>1300 W. Canal Street</u>		
	<u>Milwaukee, WI 53233</u>		

Certifying Professional Name: James B. Leedom, P.E.
 Phone Number: 414-643-4200



Date: <u>7/22/16</u>	Signature: <u>[Handwritten Signature]</u>
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Photo 1: Looking north along east edge of storm water basin.



Photo 2: Looking northwest across basin. Note no basin embankment is constructed at the south edge of the basin at the street stub.



Photo 3: Looking west across basin from street stub.



Photo 4: Rutting/earth disturbance from recent utility installation.



Photo 5: Primary basin outlet.



Photo 6: Secondary basin outlet.