



Rec 6-28-17

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 _____ Name of Business/Subdivision Qdoba Mexican Grill
 Property Tax ID Number MNFV00149 Address of Property _____
83001
 Date _____ N95W18181 Appleton Avenue

Dry Pond	X
Wet Pond	
Other	

Location of Pond North of Building

Pond ID: SWP4N008

Year Pond Constructed 2007 Year of Last Certification ???

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	12"	12"	X		HDPE – Good Condition
Upstream Invert	858	858.29	X		
Downstream Invert		857.42	X		
Length (feet)	45	45	X		
Slope (%)		1.9%	X		
Secondary Outlet Pipe (If Applicable)					Outlet Pipe Material
Opening Diameter (inches)	NA				
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser (If Applicable)					Riser Material
Opening Diameter (inches)	Not Indicated	24"	X		Concrete Riser – Good Condition
Elevation	861.50	861.98	X		
Upper Discharge Control (If Applicable)					
Opening Diameter (inches)	NA				
Elevation					

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	NA					
Elevation	NA					
Other (Description)						
Opening Type and Size (inches)	NA					
Elevation	NA					
Emergency Spillway						
Elevation	862.5	862.57	X			
Length of spillway (feet)	15'	15'				
Embankment	Present		Comments/Maintenance Requirements			
	Yes	no				
Unauthorized Plantings, trees, or woody vegetation		X	No vegetation established on bottom of basin. Recommend getting vegetation established.			
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	18"		East corner of basin		Good condition	
Outfall 2	6"		South side of basin		Good condition	
Outfall 3	6"		South Side of Basin		Good condition	
Storage Properties	Design	Actual	Compliant		Not Applicable	Equipment Used
			Yes	No		
Normal Water Elevation (Wet Ponds)	NA					GPS Equipment used
Design High Water Elevation	861.5	861.98	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	NA					
Area at Design High Water Elevation (Ac)	0.056	0.066	X			
Active Storage Available (Ac-Ft)*	0.068	0.085	X			
Lowest Elevation at Top of Embankment (If Applicable)	862.5	862.57	X			
Average Elevation at Top of Embankment (If Applicable)	>863	>863	x			
Maximum Bottom Elevation	860.5	860.25	X			
Average Pond Bottom Elevation	860.5	860.5	X			
Pond Bottom Area (Ac)	0.035	0.048	X			
Maximum Pond Depth	1.0	1.48	X			
Average Pond Depth	NA					
Average Permanent Pool Depth (Wet Ponds)	NA					

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

Wet Ponds Use H = Height of Section , $A1$ = area at normal water elevation, $A2$ =area at top section

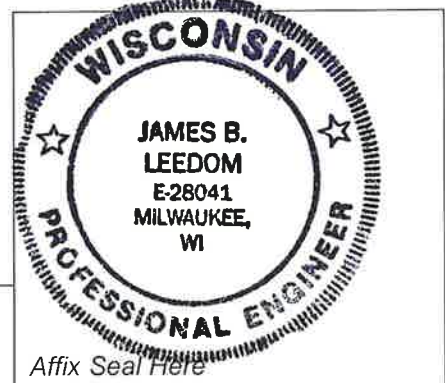
Dry Ponds Use H = Height of Section, $A1$ = pond bottom area, $A2$ =area at top section

<p><i>Sketch Outlet or Attach to Document</i></p>	<p><i>Place Photograph of Pond or Attach to Document</i></p>
	<p><i>Place Photograph of Pond or Attach to Document</i></p>

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

Inspection Firm: The Sigma Group, Inc. Inspector Name : James B. Leedom, P.E.
 Phone Number: 414-643-4200 Inspection Date: 4/10/17
 Address: 1300 W. Canal Street
 Milwaukee, WI 53233

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



<p>Date: <u>6/22/17</u></p>	<p>Signature: <u>[Handwritten Signature]</u></p>
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STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

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83001 _____
 Date _____ N95W18181 Appleton Avenue

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

Location of Pond Beneath Parking Lot South of Building

Pond ID: SWP4N022

Year Pond Constructed 2007 Year of Last Certification ????

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					
Opening Diameter (inches)	18"	18"	X		Outlet Pipe Material HDPE Could not open structure to get downstream invert
Upstream Invert	862.99	863.19	X		
Downstream Invert	862.94	See Note			
Length (feet)	10	10			
Slope (%)	0.50%	See note			
Secondary Outlet Pipe (If Applicable)					
Opening Diameter (inches)	NA				Outlet Pipe Material
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser (If Applicable)					
Opening Diameter (inches)	NA				Riser Material
Elevation					
Upper Discharge Control (If Applicable)					
Opening Diameter (inches)	Weir	See Note			Could not get downstream outlet control structure open to get measurements
Elevation	866.70	See Note			

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	1.25"	See Note			Could not get downstream outlet control structure open to get measurements	
Elevation	862.94	See Note				
Other (Description)						
Opening Type and Size (inches)	NA					
Elevation						
Emergency Spillway						
Elevation	NA					
Length of spillway (feet)						
Embankment	Present		Comments/Maintenance Requirements			
	Yes	no				
Unauthorized Plantings, trees, or woody vegetation	NA					
Animal burrows or slope erosion	NA					
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	NA					
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant		Not Applicable	Equipment Used
			Yes	No		
Normal Water Elevation (Wet Ponds)	NA					Could not get outlet control structure open to get weir elevation
Design High Water Elevation	866.7	See note				
Area at Normal Water Elevation (Ac) (Wet Ponds)	NA					
Area at Design High Water Elevation (Ac)	NA					
Active Storage Available (Ac-Ft)*	0.16	0.16	X			
Lowest Elevation at Top of Embankment (If Applicable)	NA					
Average Elevation at Top of Embankment (If Applicable)	NA					
Maximum Bottom Elevation	862.99	863.19				
Average Pond Bottom Elevation	862.99	863.19				
Pond Bottom Area (Ac)	NA	NA				
Maximum Pond Depth	5	5				
Average Pond Depth	NA					
Average Permanent Pool Depth (Wet Ponds)	NA					

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

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

<p>Sketch Outlet or Attach to Document</p>	<p>Place Photograph of Pond or Attach to Document</p>
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Attach As-built Survey to the Document for the first report submission

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 Milwaukee, WI 53233

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



Date: 4/20/17 Signature: [Handwritten Signature]



Pond I.D. #SWP4N008
Looking northeast across basin.



Pond I.D. #SWP4N008
Looking south across basin



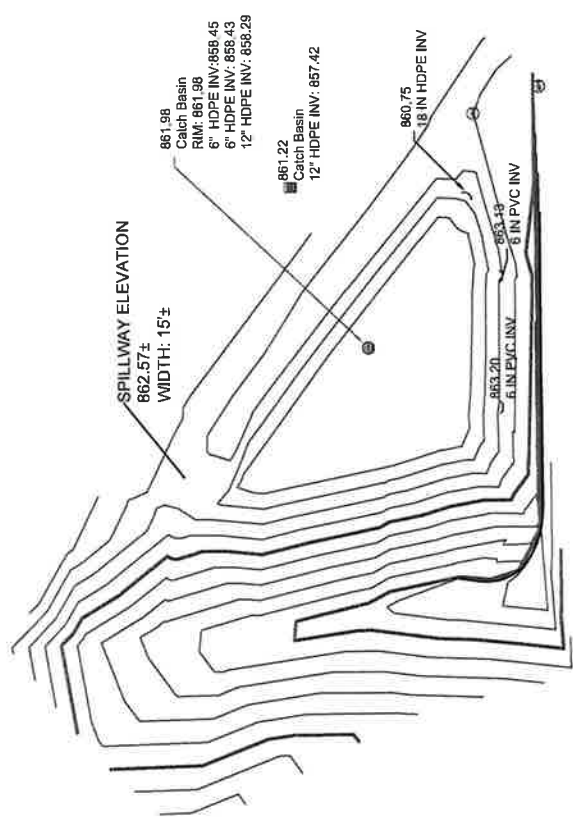
Pond I.D. #SWP4N008

Basin outlet control structure and basin bottom. Note lack of vegetation



Pond I.D. #SWP4N022

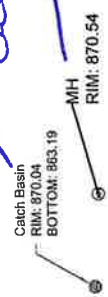
Underground detention chamber



Underground Detention Chamber

Access Manhole

Underground detention outlet control manhole. Could not open.



MENOMONEE FALLS QDOBA
MENOMONEE FALLS, WI

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16905 - TOPO.dwg

DATE: 06/07/2017 DRW: # SCALE: 1"=30'