



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 NE 1/4 SEC 2 Name of Business/Subdivision Scion Dental
 Property Tax ID Number MNFV 0005007005 Address of Property N92 W14612 Anthony Ave.
 Date Oct 11, 2018 Menomonee Falls, WI 53051

Dry Pond	
Wet Pond	
Other	X
Infiltration Pond	

Pond ID: SWP 2 NO 14

Location of Pond Northeast Corner of Property
Adjacent to Held Drive

Year Pond Constructed 2013 Year of Last Certification NA

Compliance Verification		Design	Actual	Compliant Yes No		Comments (Condition of Structure)
Primary Outlet Pipe						Outlet Pipe Material
Opening Diameter (inches)	Opening Opening	2" 12"	2" 12"	X X		Pipe - RCP - Good Condition
Upstream Invert		780.55	780.44	X		
Downstream Invert		780.40				
Length (feet)		47'	52'	X		
Slope (%)		0.5%				MH - In Roadway - Cannot be opened. Lid is stuck
Secondary Outlet Pipe		(If Applicable)				
Opening Diameter (inches)						Outlet Pipe Material
Upstream Invert						
Downstream Invert						
Length (feet)						
Slope (%)						
Riser		(If Applicable)				Riser Material
Opening Diameter (inches)		12"	12"	X		Riser: CMP - Good Condition
Elevation		782.3	782.77	X		
Upper Discharge Control		(If Applicable)				
Opening Diameter (inches)						
Elevation						

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)						
Elevation						
Other (Description)						
Opening Type and Size (inches)						
Elevation						
Emergency Spillway						
Elevation	785.5	786.32	X		Grass with NAG C-350 Matting	
Length of spillway (feet)	20'	20'	X		Good Condition	
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X	Lawn/Vegetation - Thick & healthy on sides and top of Pond. Pond Bottom shows patchy area which should be re-seeded. Some erosion adjacent to inlet channel should be addressed. Existing rip-rap may be re-positioned to contain flow.			
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1						
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)						
Design High Water Elevation	782.3	782.77	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)						
Area at Design High Water Elevation (Ac)	0.105	0.111	X			
Active Storage Available (Ac-Ft)*	0.145	0.194	X			
Lowest Elevation at Top of Embankment (If Applicable)	785.5	786.32	X			
Average Elevation at Top of Embankment (If Applicable)	786.5	787.0	X			
Maximum Bottom Elevation	780.55	780.44	X			
Average Pond Bottom Elevation	780.55	780.30	X			
Pond Bottom Area (Ac)	0.057	0.069	X			
Maximum Pond Depth		5.88				
Average Pond Depth		2.33				
Average Permanent Pool Depth (Wet Ponds)						

*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

Sketch Outlet or Attach to Document

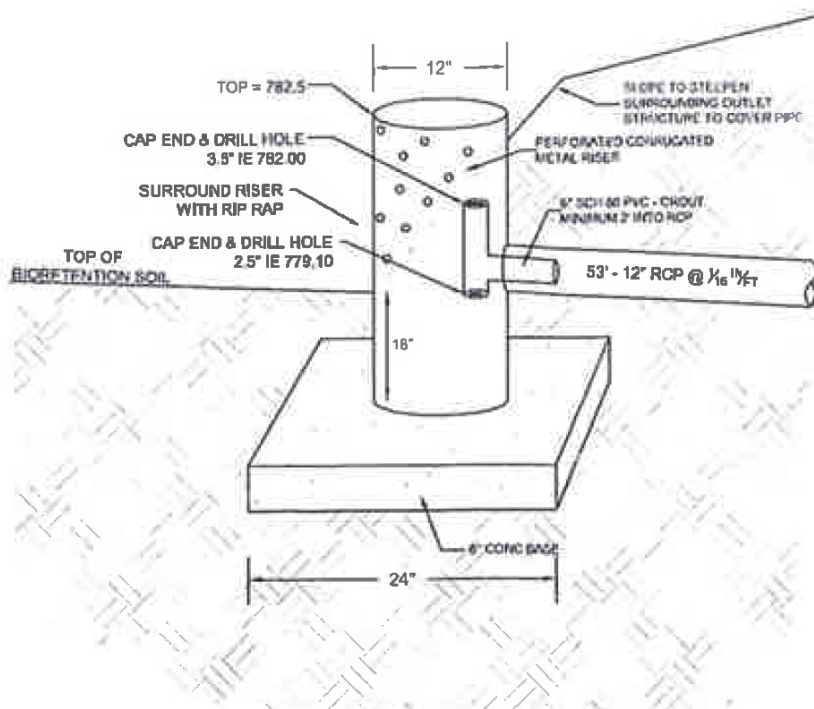
This Stormwater Pond was designed as an infiltration basin. However, prior to construction, preliminary sub-soil data showed that the sub-soils did not appear to be conducive to infiltration and this BMP was recalculated as wet pond.

During construction, the contractor appears to have installed "Engineered Soils" based on a previous 'Infiltration Basin' design.

In the past 5 years the property owner has noted that the pond rarely holds water, even after large rain events, and it appears that the infiltration aspects of the pond seem to be functioning, at least partially, as originally designed.



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



**OUTLET DETAIL
BIORETENTION BASIN**

Inspection Firm: Stantec, Inc Inspector Name : Brian Lennie
Phone Number: 262-643-9062 Inspection Date: June 19 and October 2, 2018
Address: 12075 Corporate Pkwy
Mequon, WI 53092

Certifying Professional
Name: Matthew Clementi, PE
Phone Number: 262-643-9062



Date: <u>10/11/2018</u>	Signature: <u>Matthew Clementi</u>
----------------------------	---------------------------------------

10-3-2012