

Village of Menomonee Falls W156 N8480 Pilgrim Road Menomonee Falls, WI 53051-3140

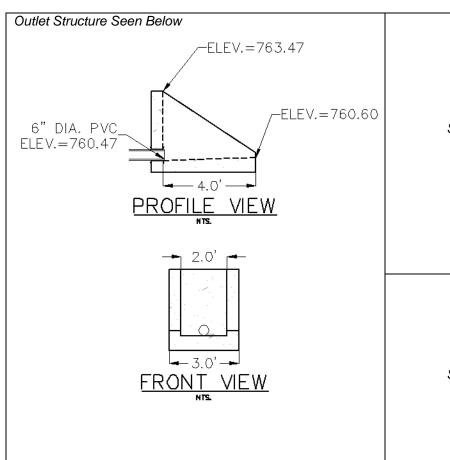
Telephone: (262) 532-4200

## STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

Quarter Section		SE 1/4 Sec 13-8-20		Name of Business/Subdivision			Heritage Reserve Holdings, LLC			
Property Tax ID Number		MNFV005 44052 & MNFV005 45002	19 Addre	Address of Property			Heritage Reserve			
Date		5/29/2015								
Dry Pond X					Loca Pond	ition of	Along the South portion of			
Wet Pond		D 014/D 400 5 5 5					MNFV0051944052 and along the			
Other Pond I		ID: SWF	D: SWP13S006				North portion of MNFV0051945002			
Year Pond Constructed	2	2005			of Last ication	-	Design data based on Stante 2014 Memo dated August 5, 2014 File No. 1938990300			
Compliance Verif	ication	Design	Actual	Com <sub>i</sub> Yes	pliant No		Comments ( Condition of Structure)			
Primary Outlet Pi	pe			1	110	Outlet F	Pipe Material			
Opening Diameter		18"	15"	Х			orced Concrete Pipe w/ a 6" restriction			
(inches)		10	13	^			device			
Upstream Invert		760.48	760.47	X						
Downstream Invert		759.66	759.81	Х						
Length (feet)		185'	184'	Х						
Slope (%)		4.4%	3.6%	Х						
Secondary Outlet Pipe		(If App	(If Applicable)				Outlet Pipe Material			
Opening Diameter			-	-						
Upstream Invert				-						
Downstream Inver	t	<u> </u>		-						
Length (feet)				-						
Slope										
(%)			-	-						
Riser		(If App	licable)				Riser Material			
Opening Diameter (inches)		(, 4-1-								
Elevation				-						
Upper Discharge	Control	(If App	licable)							
Opening Diameter (inches)		6"	6"	Х						
Elevation		760.48	760.47	Х						

Compliance Verification	Design Actual		Compliant Yes No		Comments			
Lower Discharge Control	(If App			<u>'</u>				
Opening Diameter (inches)								
Elevation								
Other (Description)								
Opening Type and Size (inches)								
Elevation								
Emergency Spillway								
Elevation	766.01	766.16						
Length of spillway (feet)	31.4	30.0						
Embankment	Present Yes No			Comments/M			tenance Requirements	
Unauthorized Plantings, trees, or woody vegetation		Х						
Animal burrows or slope erosion		Х						
Storm Sewer Outfalls	Type & Size				ation		Comments	
Outfall 1	RCP 24"		So		t portion of and			
Outfall 2	RCP 24"		No	rth port	ion of pond			
Outfall 3								
Storage Properties	Design Actual		Com Yes	pliant No	Not Applical	ble	Equipment Used	
Normal Water Elevation (Wet Ponds)								
Design High Water Elevation	766.12	766.27	Х				HWL Calculated by HydroCAD	
Area at Normal Water								
Elevation (Ac) (Wet Ponds)								
Area at Design High Water Elevation (Ac)	0.700	0.697	Х				Area at HWL Calculated by HydroCAD	
Active Storage Available (Ac-Ft)*	2.350	2.561	Х				Trimble R6 GPS	
Lowest Elevation at Top of Embankment (If Applicable)	766.01	766.16	Х					
Average Elevation at Top of Embankment (If Applicable)	766.64	767.36	Х					
Maximum Bottom Elevation	761.00	761.00	Х				Lowest Bottom Elevation	
Average Pond Bottom Elevation	761.00	761.00	Х					
Pond Bottom Area (Ac)	0.038	0.026	Х			_		
Maximum Pond Depth	5.01'	6.36'	Х					
Average Pond Depth	5.01'	6.36'	Х					
Average Permanent Pool Depth (Wet Ponds)  *To Determine Active Storage V=H/3(A1+A2+(A1xA2)1/2)								

<sup>\*</sup>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



See Attached Photo Document

See Attached Photo Document

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

Inspection Firm: JSD Professional Services, Inc Inspector Name: Ryder Fischer

Phone Number: (262) 513-0666 Inspection Date: 5/29/2015

Address: N22 W22931 Nancys Ct.

Suite 3

Waukesha, WI 53186

Certifying

Professional Name: Rizal Iskandarsjach P.L.S., P.E.

Phone Number: (262) 513-0666

Date:

7/31/15

Signature:

Rizel Iship

RIZAL W. ISKANDARSJACH E-41735 MILWAUKEE WI



Taken: 5/29/15

Figure 1: Overview of Pond Looking South



Figure 2: Overview of Pond Looking North



Taken: 5/29/15

Figure 3: Overview of Outlet Structure



Figure 4: Top View of Outlet Structure



Taken: 5/29/15

Figure 5: 24" RCP Outfall