



2008
 Village of Menomonee Falls
 W156 N8480 Pilgrim Road
 Menomonee Falls, WI 53051-3140
 Telephone: (262) 532-4200

Rec 8-11-09

Mutual Savings Bank

STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

Quarter Section _____ Name of Business/Subdivision Bank Mutual
 Property Tax ID Number MNFV00139 Address of Property W178 N9379 Water
82 Tower Place

139 88007

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

Description:

04' NOO5

Location Of
Pond

SW corner of
 STH "175" and
 Watertown Pl.

constructed 2002

Year Pond Constructed 2008

Year of Last Certification _____

Compliance Verification	Design	Actual	Compliant Yes No	Comments (Condition of Structure)
Primary Outlet Pipe				
Opening Diameter	2.5"	2.4"	x	2 yr rate is less than
Upstream Invert	897.85	898.34	x	2 yr design rate
Downstream Invert	897.60	897.75	x	
Length	25'	28'	x	
Slope	1%	1.4%	x	
Secondary Outlet Pipe (If Applicable)				
Opening Diameter	3.5"	3.5"	x	10 yr rate is less than
Upstream Invert	900.25	900.46	x	10 yr design rate
Downstream Invert	897.60	897.75	x	
Length	25'	28'	x	100 yr rate is less than
Slope	1%	1.4%	x	100 yr design rate
Riser (If Applicable)				
Opening Diameter	12"	18"	x	
Elevation	903.00	902.93	x	
Upper Discharge Control (If Applicable)				
Opening Diameter				
Elevation				

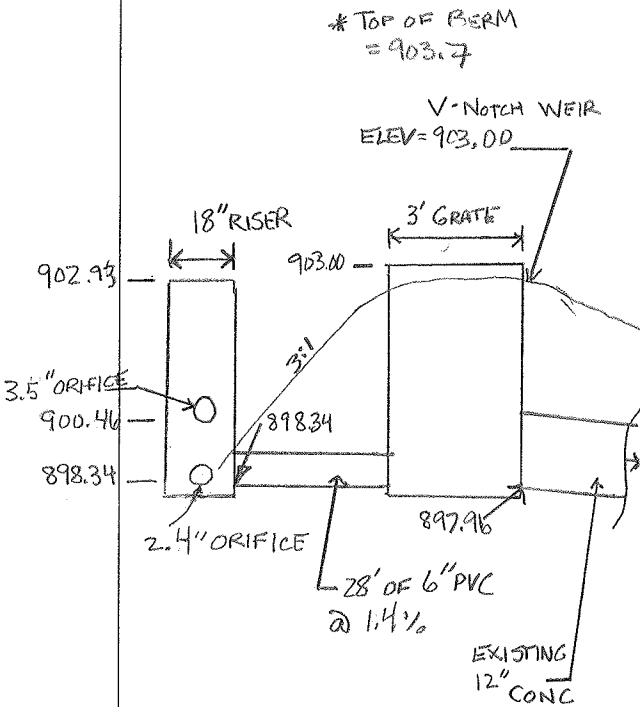
Compliance Verification	Design	Actual	Compliant Yes No	Comments	
Lower Discharge Control	(If Applicable)				
Opening Diameter					
Elevation					
Other (Description)					
Opening Type					
Elevation					
Emergency Spillway					
Elevation	903.50	903.00	x		
Length of spillway	3	12.70	x		
Embankment			Present Yes No		
Unauthorized plantings, trees, or woody vegetation				x	
Animal burrows or slope erosion				x	
Storage Properties	Design	Actual	Compliant Yes No	Points Surveyed	Equipment Used
Normal Water Elevation (Wet Ponds)	n/a	n/a	x		
Design High Water Elevation	902.79	902.88	x	NO	Obtained by hydraflow hydrographs
Area at Normal Water Elevation (Ac) (Wet Ponds)	n/a	n/a	x		
Area at Design High Water Elevation (Ac)	.156	.16	x	Yes	Obtained from as-built
Active Storage Available (Ac-Ft)*	.406	.409	x		Obtained from hydroflow hydrographs
Lowest Elevation at Top of Embankment (If Applicable)	904.00	903.70	x	Yes	Tremble robotic total station
Average Elevation at Top of Embankment (If Applicable)	904.00	903.80	x	Yes	Tremble robotic total station
Maximum Bottom Elevation	898.00	898.34	x	Yes	
Average Pond Bottom Elevation	900	900	x		Obtained from as-built
Pond Bottom Area (Ac)	.006	.07	x	Yes	
Maximum Pond Depth	5'	4.66'	x	Yes	
Average Pond Depth	3'	3'	x	Yes	

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

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

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

Sketch Outlet



SEE No. 14

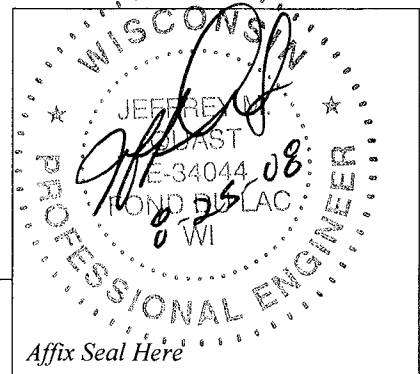
Place Photograph of Pond

SEE No. 18

Place Photograph of Pond

Inspection Firm: Excel Engineering Inspector Name: Paul Groell
 Phone Number: 920-926-9800 Inspection Date: 8/11/08
 Address: 100 Camelot Drive
Fond du Lac, WI 54935

Certifying
 Professional Name: Jeff Quast, P.E.
 Phone Number: 920-926-9800



Date:

8/25/08

Signature:

[Handwritten Signature]

Affix Seal Here

EXCEL ENGINEERING, INC.

100 CAMELOT DRIVE
FOND DU LAC, WISCONSIN 54935
PHONE: (920) 926-9800 FAX: (920) 926-9801

LETTER OF TRANSMITTAL

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

JOB NUMBER : 714440

AUGUST 25, 2008

ATTN: BRIAN HORNICKEL

REGARDING: BANK MUTUAL SWM FACILITIES OPERATIONS AND
INSPECTIONS REPORT

WE ARE SENDING YOU THE ATTACHED

VIA: <input type="checkbox"/> Fax <input type="checkbox"/> Website <input type="checkbox"/> Mail <input type="checkbox"/> UPS	<input checked="" type="checkbox"/> Next Day UPS a.m. <input type="checkbox"/> Next Day UPS p.m. <input type="checkbox"/> DELIVERED <input type="checkbox"/> PICKED UP	FORMAT <input type="checkbox"/> 8 1/2 x 11 Plans <input type="checkbox"/> 11 x 17 Plans <input type="checkbox"/> Half size Plans <input checked="" type="checkbox"/> Full size Plans <input type="checkbox"/> CD	ELECTRONIC FILES <input type="checkbox"/> .dwg Autocad 2002 <input type="checkbox"/> .dwg Autocad 2004 <input type="checkbox"/> .plt files <input type="checkbox"/> .pdf files <input type="checkbox"/> .tiff files <input type="checkbox"/> Other
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COPIES	DATE	NUMBER	DESCRIPTION
1			As-Built
1			CD of As-Built
1			Stormwater Management Facilities Operation and Inspection Report

THESE ARE TRANSMITTED as checked below:

- ☒ For approval
☐ For your use
☐ As requested

- ☐ FOR BIDS DUE ON
☐ Approved as submitted
☐ Approved as noted

- ☐ Returned for corrections
☐ For review and comment

REMARKS: Please accept the new As-Built drawing and Inspection Report for the newly reworked pond. Please call with questions. Thank you.

SIGNED:

Eric Drazkowski



COPY TO :

Jeff Quast - Excel

Dennis - Jos. Schmitt (overnight AM delivery)

Michael/Crowley III - Bank Mutual

WE ARE SENDING YOU:

<input type="checkbox"/> Same as above	<input type="checkbox"/> LOT Only	<input type="checkbox"/> Other
VIA: <input type="checkbox"/> Fax <input type="checkbox"/> MAIL <input type="checkbox"/> Website <input type="checkbox"/> UPS		<input type="checkbox"/> Next Day UPS a.m. <input type="checkbox"/> Next Day UPS p.m. <input type="checkbox"/> DELIVERED <input type="checkbox"/> PICKED UP
FORMAT <input type="checkbox"/> 8 1/2 x 11 Plans <input type="checkbox"/> 11 x 17 Plans <input type="checkbox"/> Half size Plans <input type="checkbox"/> Full size Plans <input type="checkbox"/> CD		ELECTRONIC FILES <input type="checkbox"/> .dwg Autocad 2002 <input type="checkbox"/> .dwg Autocad 2004 <input type="checkbox"/> .plt files <input type="checkbox"/> .pdf files <input type="checkbox"/> .tiff files <input type="checkbox"/> Other

If enclosures are not as noted, please notify us at once.



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Bank Mutual Menomonee Falls
Storm Water Certification 8/11/08



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Storm Water Certification 8/11/08