



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 33 SE Name of Business/Subdivision RIDGEFIELD SUBDIVISION
Property Tax ID Number 0135248 Address of Property WETLAND/POND

Dry Pond	
Wet Pond	X
Other	

Description: SWP33S005
Q-149 U-320 U-323 U-327

Location Of Pond NORTH OF THORNAPPLE CT,
SOUTH OF SHEFFIELD LN,
WEST OF GREENVIEW AVE,
EAST OF CHRISTOPHER CT

Year Pond Constructed 1989 Year of Last Certification 2010

Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant Yes No		Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	24" RCP	24" RCP	-	-	24" RCP IN GOOD CONDITION ELEVATIONS TO VARY SLIGHTLY FROM YEAR TO YEAR DUE TO GPS TECHNOLOGY
Upstream Invert (ST011217)	885.00	884.93	-	-	
Downstream Invert (ST011216)	884.75	884.88	-	-	
Length (feet)	40.0 FT	46.1 FT	-	-	
Slope (%)	0.63%	0.11%	-	-	
Secondary Outlet Pipe	N/A				Outlet Pipe Material
Opening Diameter (inches)			-	-	
Upstream Invert			-	-	
Downstream Invert			-	-	
Length (feet)			-	-	
Slope (%)			-	-	
Riser	N/A				Riser Material
Opening Diameter (inches)			-	-	
Elevation			-	-	
Upper Discharge Control	N/A				
Opening Diameter (inches)			-	-	
Elevation			-	-	

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	N/A					
Opening Diameter (inches)			-	-		
Elevation			-	-		
Other (Description)	N/A					
Opening Type and Size (inches)			-	-		
Elevation			-	-		
Emergency Spillway						
Elevation	N/A	888.63	-	-	GPS	
Length of spillway (feet)	N/A	145.0 FT	-	-		
Embankment	Present Yes No		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	Y	-	WOODY VEG. ALONG SHORE & IN WETLANDS			
Animal burrows or slope erosion or hole	Y	-	BEAVER/MUSKRAT LODGES PRESENT, BURROWS IN GROUND			
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1 (ST007757)	RCP – 21” – 884.22		SHEFFIELD LN (N POND)		END SECTION SEPARATED @ STORM PIPE REMOVE GRAVEL WASHOUT IN BAY	
Outfall 2 (ST003197)	RCP – 30” – 885.11		GREENVIEW CT (E MARSH)			
Outfall 3 (ST011281)	RCP – 12” – 886.49		W173N4877 CRABAPPLE CT		BELOW GRADE BELOW GRADE	
Outfall 4 (ST011280)	RCP – 12” – 884.44		(S POND) SAN. LIFT STA.			
Outfall 5						
Storage Properties	Design (NON-ASBUILT)	Actual (GPS)	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	N/A	886.07	-	-		GPS EQUIPMENT: SOKKIA GSR2700ISX & CARLSON SURVEYOR+ WITH SURV CE v1.7 NO MEASUREMENTS TAKEN OF POND BOTTOM NO MEASUREMENTS TAKEN OF POND BOTTOM NO MEASUREMENTS TAKEN OF POND BOTTOM NO MEASUREMENTS TAKEN OF POND BOTTOM NO MEASUREMENTS TAKEN OF POND BOTTOM NO MEASUREMENTS TAKEN OF POND BOTTOM
Design High Water Elevation	N/A	888.63	-	-		
Area at Normal Water Elevation (Ac) (Wet Ponds)	N/A	2.625 AC	-	-		
Area at Design High Water Elevation (Ac)	N/A	6.658 AC	-	-		
Active Storage Available (Ac-Ft)*	N/A	10.517 ACFT	-	-		
Lowest Elevation at Top of Embankment (If Applicable)	N/A	888.63	-	-		
Average Elevation at Top of Embankment (If Applicable)	889.00	888.82	-	-		
Maximum Bottom Elevation	N/A	N/A	-	-		
Average Pond Bottom Elevation	N/A	N/A	-	-		
Pond Bottom Area (Ac)	N/A	N/A	-	-		
Maximum Pond Depth	N/A	N/A	-	-		
Average Pond Depth	N/A	N/A	-	-		
Average Permanent Pool Depth (Wet Ponds)	N/A	N/A	-	-		

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

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

Ridgefield Subdivision Wetland – SWP33S005 (Thornapple & Sheffield)

Overview



Looking NW from ST011281



Looking NE from SW corner of pond.

Ridgefield Subdivision Wetland – SWP33S005 (Thornapple & Sheffield)

Outlet ST007757



Outlet ST003197



Outlet ST011280



Outlet ST011281



Inlet ST011217



Outlet ST011216



Ridgefield Subdivision Wetland – SWP33S005
(Thornapple & Sheffield)

Emergency Spillway



Ridgefield Subdivision Wetland – SWP33S005 (Thornapple & Sheffield)

Repairs Needed (12/2010)

Current status of repairs unknown as algae blooms covered surface of water in October and November 2015. All repairs based on 2010 inspections. If repairs have been completed this information may be discarded. CMG 2/16/16

ST007757



- End section of pipe pushed off of storm sewer pipe.
- End section undermined.
- Erosion at bank by pipe end section.

ST007757



- Washout restricting flow of water to pond.

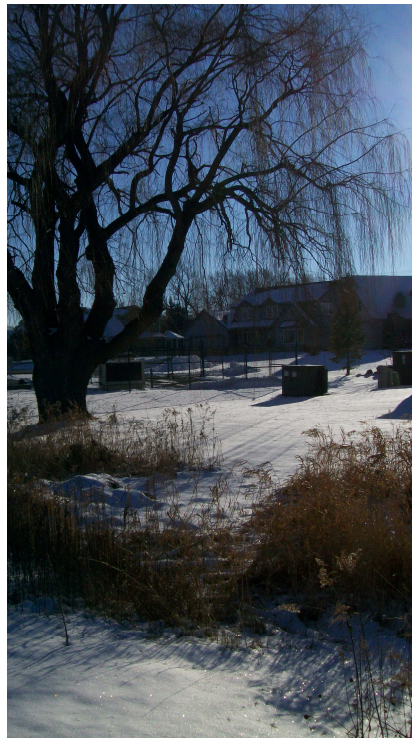
Ridgefield Subdivision Wetland – SWP33S005 (Thornapple & Sheffield)

ST003197



- Washout may be restricting flow of water.

- OT33S004, OT33S005, OT33S006, & OT33S007 are all below grade.
(May be intentional by design.)



- Remove brush pile from emergency spillway ditch
(behind N48 W17492 Lisbon Rd)

Ridgefield Subdivision Wetland – SWP33S005
(Thornapple & Sheffield)

2015 Inspection Results



Burrows in N side of SW bank/spillway embankment.

Sketch Outlet

Place Photograph of Pond

Place Photograph of Pond

Inspection Firm: VILLAGE OF
MENOMONEE FALLS
Phone Number: 262-532-4411
Address: W156N8480 PILGRIM RD
MENOMONEE FALLS, WI
53051

Inspector Name : CHRISTOPHER M GARIEPY

Inspection Date: 10/22/15

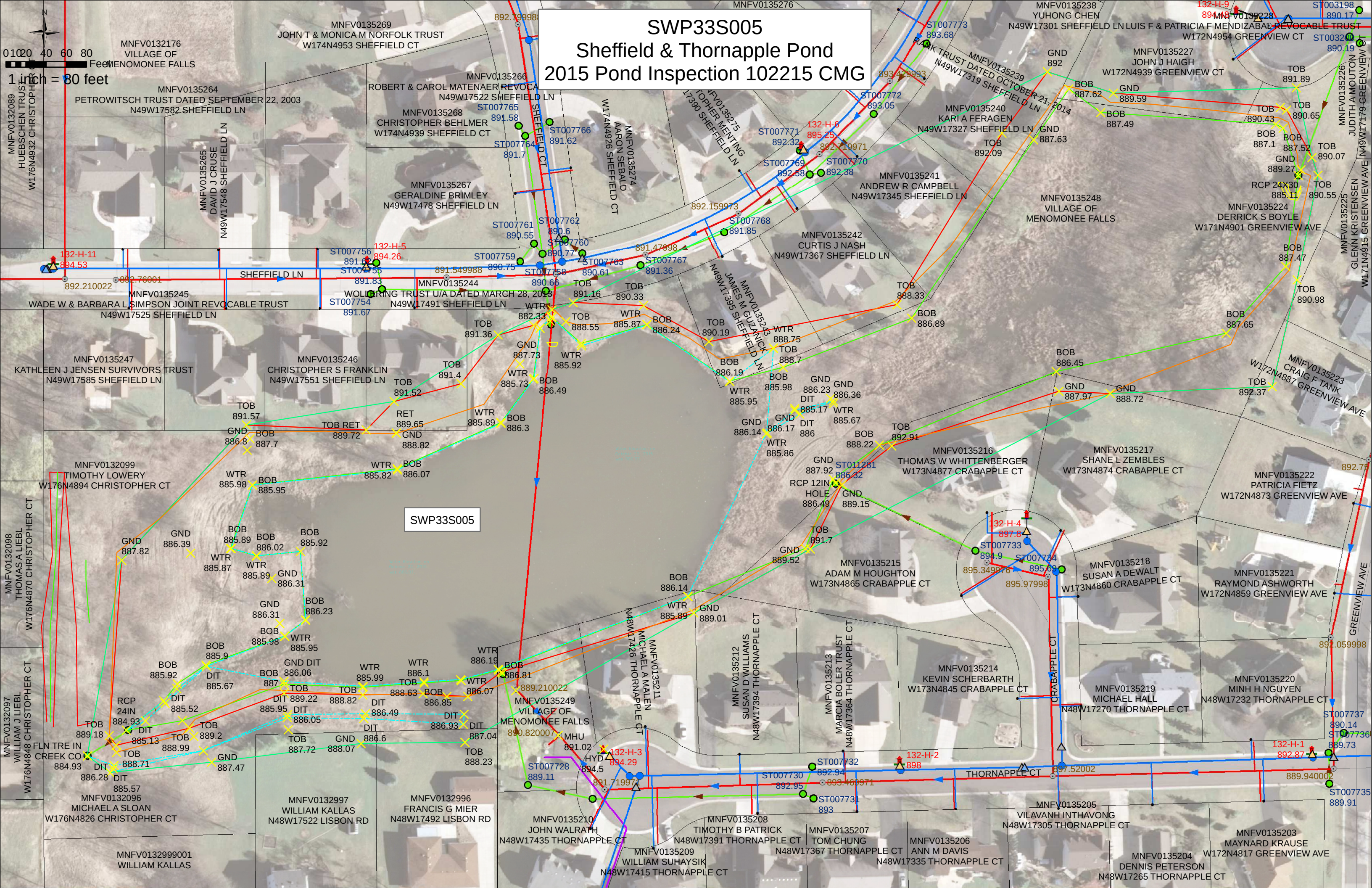
Certifying
Professional Name: THOMAS M. HOFFMAN, P.E.
Phone Number: (262) 532-4415

Date:
2/26/16

Signature: 



Affix Seal Here



SWP33S005
Sheffield & Thornapple Pond
2015 Pond Inspection 102215 CMG

0 10 20 40 60 80 Feet
1 inch = 80 feet

$$H = H_1 - H_2 = 888.63 - 886.07 = 2.56'$$

$$A_1 = 114,357.75 \text{ SF} \approx 2.625 \text{ AC}$$

$$A_2 = 299,036.6 \text{ SF} \approx 6.658 \text{ AC}$$

SWP335005
2015

Triangle + Sheffield Pond

$$V = \left(\frac{H}{3} \right) (A_1 + A_2 + \sqrt{A_1 + A_2})$$

$$V = \left(\frac{2.56}{3} \right) (2.625 \text{ AC} + 6.658 \text{ AC} + \sqrt{2.625 \text{ AC} + 6.658 \text{ AC}})$$

$$V = (0.853) (9.283 \text{ AC} + \sqrt{9.283 \text{ AC}})$$

$$V = (0.853) (9.283 \text{ AC} + 3.047 \text{ AC})$$

$$V = (0.853) (12.330 \text{ AC})$$

$$V = \underline{10.517 \text{ AC-FT}} \quad \text{CMG} \quad 2/16/16$$