*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: SW ¼ Sec 2
Property Tax ID Number: MNFV00079 88013
Date 5/23/2017
Name of Business/Subdivision: Pilgrim Village
Address of Property: N88 W15483 Main St

| | |
|---|---|
| Dry Pond | |
| Wet Pond | |
| Other | X |

Pond ID: SWP2s007

Location of Pond: In front of Otto's liquor store

Year Pond Constructed: 2012

Year of Last Certification: 2014

| **Compliance Verification** | Design | Actual | Compliant Yes | Compliant No | Comments ( Condition of Structure) |
|---|---|---|---|---|---|
| ***Primary Outlet Pipe*** | | | | | Outlet Pipe Material |
| Opening Diameter (inches) | 21" | 21" | x | | CMP |
| Upstream Invert | 776.00' | 776.0' | x | | |
| Downstream Invert | 775.67' | 775.64' | x | | |
| Length (feet) | 21.8' | 21.8' | x | | |
| Slope (%) | 1.50% | 1.65% | x | | |
| ***Secondary Outlet Pipe*** | (If Applicable) | | | | Outlet Pipe Material |
| Opening Diameter (inches) | | | | | N/A |
| Upstream Invert | | | | | |
| Downstream Invert | | | | | |
| Length (feet) | | | | | |
| Slope (%) | | | | | |
| ***Riser*** | (If Applicable) | | | | Riser Material |
| Opening Diameter (inches) | | | | | N/A |
| Elevation | | | | | |
| ***Upper Discharge Control*** | (If Applicable) | | | | |
| Opening Diameter (inches) | | | | | N/A |
| Elevation | | | | | |

| **Compliance Verification** | Design | Actual | Compliant Yes | Compliant No | Comments |
|---|---|---|---|---|---|
| ***Lower Discharge Control*** | (If Applicable) | | | | |
| Opening Diameter (inches) | | | | | N/A |
| Elevation | | | | | |
| ***Other (Description)*** | | | | | |
| Opening Type and Size (inches) | | | | | N/A |
| Elevation | | | | | |
| ***Emergency Spillway*** | | | | | |
| Elevation | | | | | N/A |
| Length of spillway (feet) | | | | | |

| ***Embankment*** | Present Yes | Present no | Comments/Maintenance Requirements |
|---|---|---|---|
| Unauthorized Plantings, trees, or woody vegetation | | | N/A |
| Animal burrows or slope erosion | | | |

| ***Storm Sewer Outfalls*** | Type & Size | Location | Comments |
|---|---|---|---|
| Outfall 1 | 12" CMP | Upstream wall of middle chamber | |
| Outfall 2 | 24" CMP | 83'-1" from upstream wall of North chamber | |
| Outfall 3 | | | |

| **Storage Properties** | Design | Actual | Compliant Yes | Compliant No | Not Applicable | Equipment Used |
|---|---|---|---|---|---|---|
| Normal Water Elevation *(Wet Ponds)* | 776.0' | 776.0' | X | | | Confined space entry |
| Design High Water Elevation | 780.95' | 780.95' | X | | | equipment and measuring tools |
| Area at Normal Water Elevation (Ac) (Wet Ponds) | | | | | X | |
| Area at Design High Water Elevation (Ac) | | | | | X | |
| Active Storage Available (Ac-Ft)* | .49 | .49 | X | | | From modeling software |
| Lowest Elevation at Top of Embankment (If Applicable) | | | | | X | |
| Average Elevation at Top of Embankment (If Applicable) | | | | | X | |
| Maximum Bottom Elevation | 772.0' | 772.0' | X | | | |
| Average Pond Bottom Elevation | | | | | X | |
| Pond Bottom Area (Ac) | | | | | X | |
| Maximum Pond Depth | 4' | 4' | X | | | |
| Average Pond Depth | | | | | X | |
| Average Permanent Pool Depth *(Wet Ponds)* | 4' | 4' | X | | | |

*To Determine Active Storage V=H/3(A1+A2+(A1xA2)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* | *Place Photograph of Pond or Attach to Document* |
|---|---|
| *SEE ATTACHED PHOTOS* | *Place Photograph of Pond or Attach to Document* |

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

| | | | |
|---|---|---|---|
| Inspection Firm: | R.A. Smith National | Inspector Name : | Ben High |
| Phone Number: | 262-781-1000 | Inspection Date: | 5/23/2017 |
| Address: | 16745 W. Bluemound Rd<br>Brookfield, WI 53005 | | |

Certifying Professional
Name: Ben High, P.E.
Phone Number: 262-317-3273

WISCONSIN
BENJAMIN G.
HIGH
E-42059
WHITEFISH BAY
WI
PROFESSIONAL ENGINEER

| *Date:* | *Signature:* | *Affix Seal Here* |
|---|---|---|
| 5/23/17 | | |

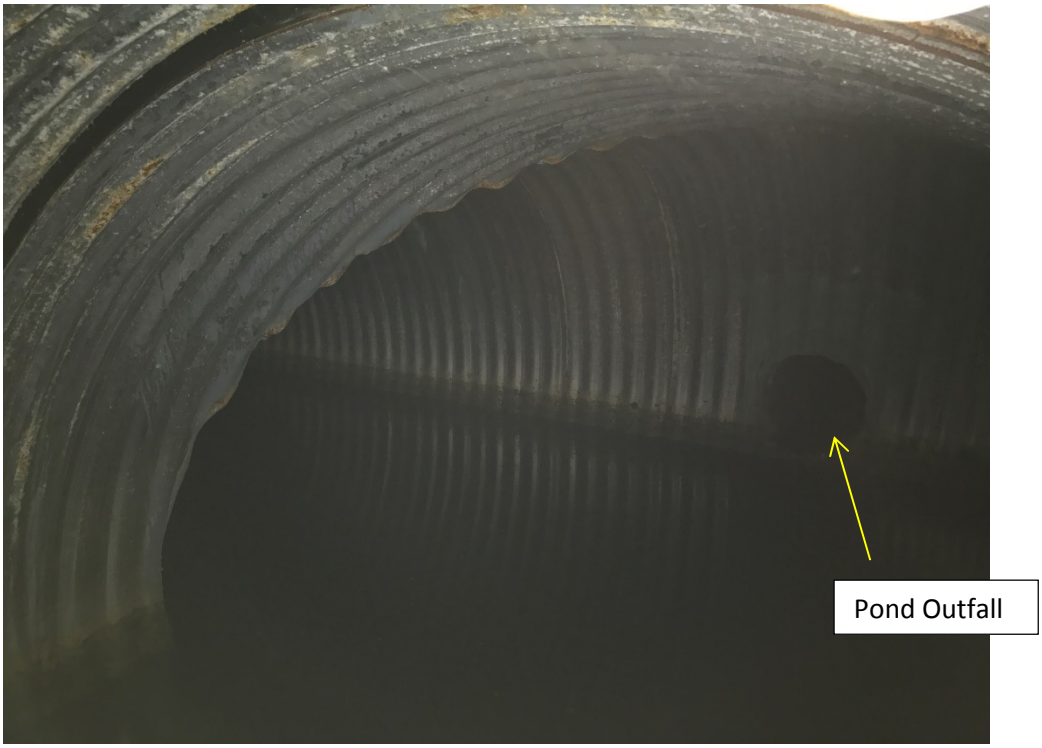
Photos of Underground System

Pilgrim Village – Main Street and Pilgrim Road

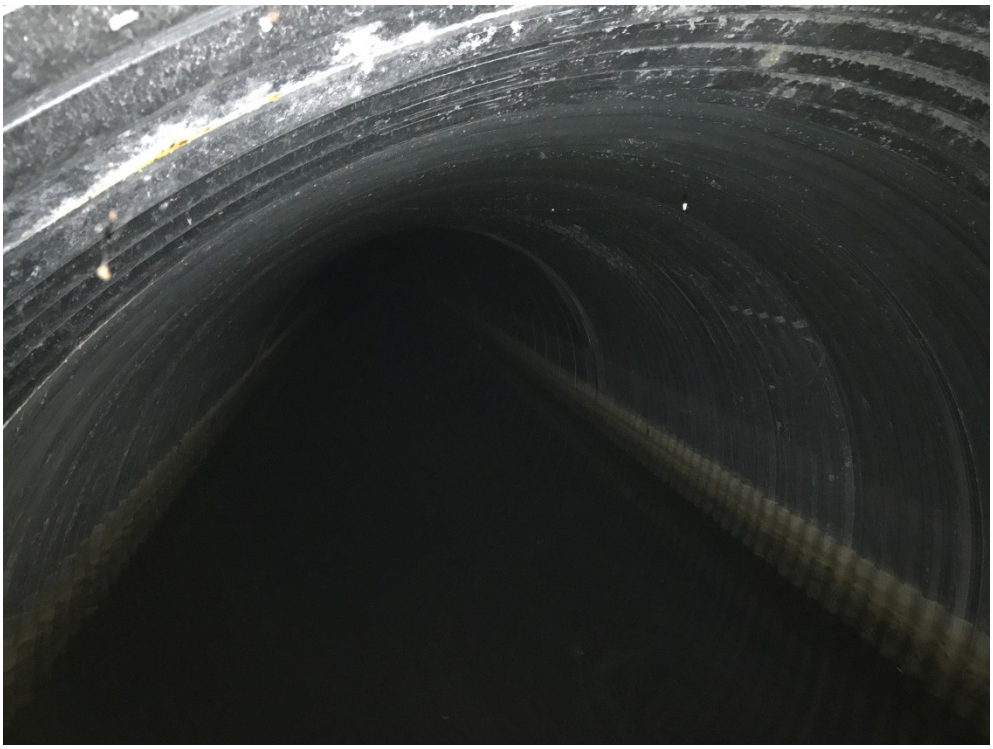
May 2017

**Underground System Outlet Pipe - Looking West**

**Underground System South Chamber Access Manhole - Looking West**



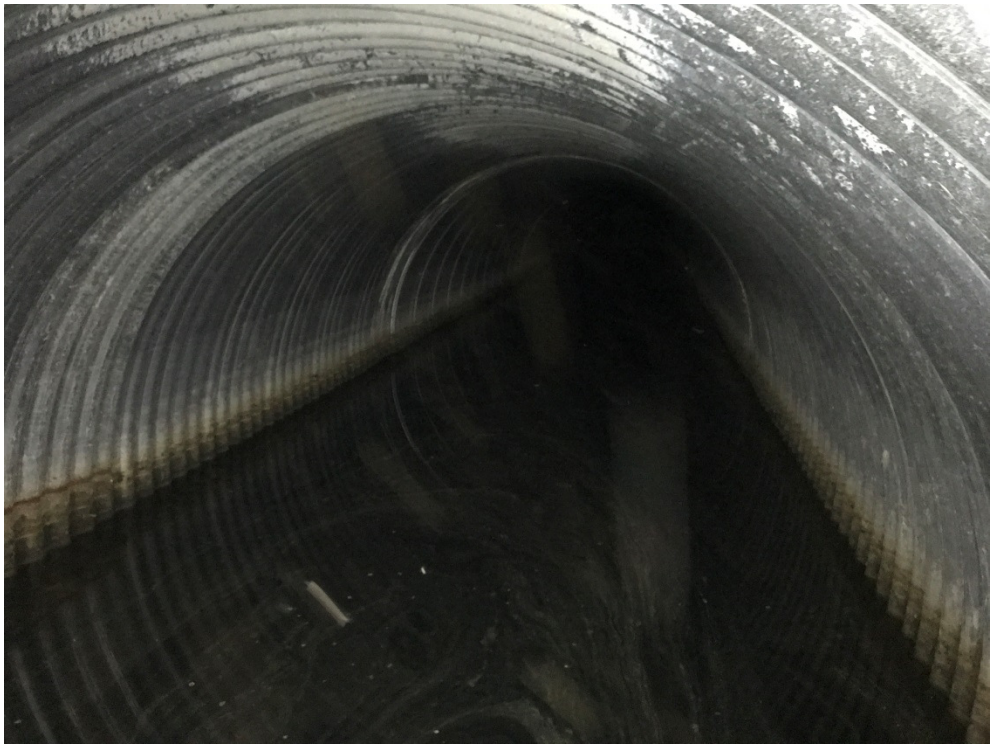

Underground System South Chamber - Looking East



Underground System South Chamber - Looking West

Underground System North Chamber Access Manhole - Looking North

Underground System North Chamber - Looking East



Underground System North Chamber - Looking West