



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 Name of Business/Subdivision Pilgrim Village  
 Property Tax ID Number MNFV00079 Address of Property N88 W15483 Main St  
88013

Date 5/23/2017

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

Location of Pond In front of Otto's liquor store

Pond ID: SWP2s007

Year Pond Constructed 2012 Year of Last Certification 2014

| Compliance Verification                        | Design  | Actual  | Compliant |    | Comments<br>(Condition of Structure)    |
|--|---------|---------|-----------|----|---|
|  |         |         | Yes       | No |   |
| <b>Primary Outlet Pipe</b>                     |         |         |           |    | <b>Outlet Pipe Material</b>             |
| 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         |    |   |
| <b>Secondary Outlet Pipe (If Applicable)</b>   |         |         |           |    | <b>Outlet Pipe Material</b>             |
| Opening Diameter (inches)                      |         |         |           |    | N/A                                     |
| Upstream Invert                                |         |         |           |    |   |
| Downstream Invert                              |         |         |           |    |   |
| Length (feet)                                  |         |         |           |    |   |
| Slope (%)                                      |         |         |           |    |   |
| <b>Riser (If Applicable)</b>                   |         |         |           |    | <b>Riser Material</b>                   |
| Opening Diameter (inches)                      |         |         |           |    | N/A                                     |
| Elevation                                      |         |         |           |    |   |
| <b>Upper Discharge Control (If Applicable)</b> |         |         |           |    | <b>Upper Discharge Control Material</b> |
| Opening Diameter (inches)                      |         |         |           |    | N/A                                     |
| Elevation                                      |         |         |           |    |   |

| Compliance Verification                                | Design          | Actual  | Compliant                                  |    | Comments       |  |
|--|-----------------|---------|--|----|----------------|--|
|  |                 |         | Yes  | No |                |  |
| <b>Lower Discharge Control</b>                         | (If Applicable) |         |  |    |                |  |
| Opening Diameter (inches)                              |                 |         |  |    | N/A            |  |
| Elevation  |                 |         |  |    |                |  |
| <b>Other (Description)</b>                             |                 |         |  |    |                |  |
| Opening Type and Size (inches)                         |                 |         |  |    | N/A            |  |
| Elevation  |                 |         |  |    |                |  |
| <b>Emergency Spillway</b>                              |                 |         |  |    |                |  |
| Elevation  |                 |         |  |    | N/A            |  |
| Length of spillway (feet)                              |                 |         |  |    |                |  |
| <b>Embankment</b>                                      | Present         |         | Comments/Maintenance Requirements          |    |                |  |
|  | Yes             | no      |  |    |                |  |
| Unauthorized Plantings, trees, or woody vegetation     |                 |         | N/A  |    |                |  |
| Animal burrows or slope erosion                        |                 |         |  |    |                |  |
| <b>Storm Sewer Outfalls</b>                            | 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  |                 |         |  |    |                |  |
| <b>Storage Properties</b>                              | Design          | Actual  | Compliant                                  |    | Not Applicable | Equipment Used                                     |
|  | Yes             | No      |  |    |                |  |
| Normal Water Elevation (Wet Ponds)                     | 776.0'          | 776.0'  | X  |    |                | Confined space entry equipment and measuring tools |
| Design High Water Elevation                            | 780.95'         | 780.95' | X  |    |                |  |
| Area at Normal Water Elevation (Ac) (Wet Ponds)        |                 |         |  |    | X              | From modeling software                             |
| Area at Design High Water Elevation (Ac)               |                 |         |  |    | X              |  |
| Active Storage Available (Ac-Ft)*                      | .49             | .49     | X  |    |                |  |
| 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  $V=H/3(A1+A2+(A1 \times A2)^{1/2})$

Wet Ponds Use  $H = \text{Height of Section}$ ,  $A1 = \text{area at normal water elevation}$ ,  $A2 = \text{area at top section}$

Dry Ponds Use  $H = \text{Height of Section}$ ,  $A1 = \text{pond bottom area}$ ,  $A2 = \text{area at top section}$

|   |  |
|---|--|
| <p><i>Sketch Outlet or Attach to Document</i></p> <p><b>SEE ATTACHED PHOTOS</b></p> | <p><i>Place Photograph of Pond or Attach to Document</i></p> |
|   | <p><i>Place Photograph of Pond or Attach to Document</i></p> |

**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  
Brookfield, WI 53005

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



|                      |                                   |                               |
|----------------------|-----------------------------------|-------------------------------|
| Date: <u>5/23/17</u> | Signature: <u><i>Ben High</i></u> | <p><b>Affix Seal Here</b></p> |
|                      |                                   |                               |







Underground System North Chamber Access Manhole - Looking North

Underground System North Chamber - Looking East



Underground System North Chamber - Looking West