



November 2, 2021

Chris Gariepy
Village of Menomonee Falls
W156 N8480 Pilgrim Road
Menomonee Falls, Wisconsin 53051

Willow Springs School Stormwater Facilities Inspection and Recertification
W220 N6660 Town Line Road
Menomonee Falls, Wisconsin 53051

Dear Mr. Gariepy:

Kapur has completed the inspection and certification of the onsite detention facility and associated piping/structures. No sediment or debris was noted in the bottom of the detention basin during inspection. Survey data confirms that no significant sedimentation has occurred and that the critical elevations of the basin are nearly identical to the designed elevations. Therefore, the capacity also is the same from the original design and SWMP. The detention basin, including all piping and structures, is in excellent condition and is functioning properly.

Please feel free to contact me if you have any comments or questions regarding this certification.

Thank You,

KAPUR & ASSOCIATES, INC.

Chris Sberna

Chris Sberna, P.E.
Project Engineer

Enclosure



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
Property Tax ID Number

SW 1/4 Sec 19
MNFV0075999
001

Name of Business/Subdivision
Address of Property

Willow Springs School
W220N6660 Town Line Road

Date 11/2/2021

Menomonee Falls, WI 53051

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

Location of Pond

SE Corner of Property

Pond ID: SWP19S001

Year Pond Constructed

2005

Year of Last Certification

2016

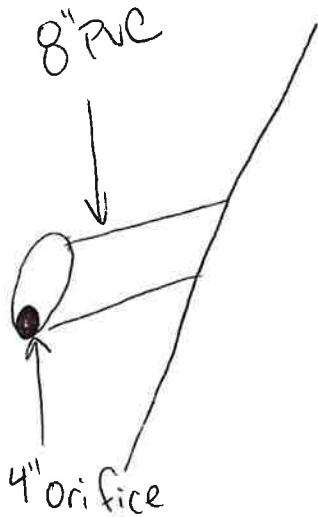
| Compliance Verification | | Design | Actual | Compliant Yes | No | Comments (Condition of Structure) |
|--------------------------------|---------|-----------------|--------|------------------|----|---|
| Primary Outlet Pipe | | | | | | Outlet Pipe Material |
| Opening Diameter (inches) | 8" | 8" | X | | | -PVC |
| Upstream Invert | 860 | 859.26 | X | | | |
| Downstream Invert | Unknown | 857.78 | X | | | |
| Length (feet) | Unknown | 31 | X | | | |
| Slope (%) | Unknown | 4.71% | X | | | |
| Secondary Outlet Pipe | | (If Applicable) | | | | Outlet Pipe Material |
| Opening Diameter (inches) | | | | | | |
| Upstream Invert | | | | | | |
| Downstream Invert | | | | | | |
| Length (feet) | | | | | | |
| Slope (%) | | | | | | |
| Riser | | (If Applicable) | | | | Riser Material |
| Opening Diameter (inches) | 4" | 4" | X | | | -PVC Cap with 4" orifice over 8" PVC Pipe |
| Elevation | 860 | 859.24 | X | | | |
| Upper Discharge Control | | (If Applicable) | | | | |
| Opening Diameter (inches) | | | | | | |
| Elevation | | | | | | |

| Compliance Verification | Design | Actual | Compliant Yes No | | Comments |
|--|-------------------|--------|-----------------------------------|----------------|--|
| Lower Discharge Control | (If Applicable) | | | | |
| Opening Diameter (inches) | | | | | |
| Elevation | | | | | |
| Other (Description) | | | | | |
| Opening Type and Size (inches) | | | | | |
| Elevation | | | | | |
| Emergency Spillway | | | | | |
| Elevation | 862.00 | 862.11 | X | | |
| Length of spillway (feet) | NA | 43' | X | | |
| Embankment | Present Yes no | | Comments/Maintenance Requirements | | |
| Unauthorized Plantings, trees, or woody vegetation | | X | | | |
| Animal burrows or slope erosion | | X | | | |
| Storm Sewer Outfalls | Type & Size | | Location | | Comments |
| Outfall 1 | 8" PVC | | Outfall Structure | | |
| Outfall 2 | | | | | |
| Outfall 3 | | | | | |
| Storage Properties | Design | Actual | Compliant Yes No | Not Applicable | Equipment Used |
| Normal Water Elevation (Wet Ponds) | NA | | | | -Survey level and Rod was used to verify pond bottom and top embankment elevations. 6 elevation shots were recorded and averaged. -See attached survey elevations |
| Design High Water Elevation | 861.23 | 861.63 | | | |
| Area at Normal Water Elevation (Ac) (Wet Ponds) | NA | NA | | | |
| Area at Design High Water Elevation (Ac) | NA | 0.503 | | | |
| Active Storage Available (Ac-Ft)* | .78 | .984 | | | |
| Lowest Elevation at Top of Embankment (If Applicable) | 863.00 | 863.29 | | | |
| Average Elevation at Top of Embankment (If Applicable) | 863.00 | 863.57 | | | |
| Maximum Bottom Elevation | 860.00 | 859.33 | | | |
| Average Pond Bottom Elevation | 860.00 | 859.65 | | | |
| Pond Bottom Area (Ac) | NA | 0.20 | | | |
| Maximum Pond Depth | 3' | 3.96' | | | |
| Average Pond Depth | 3' | 3.92' | | | |
| Average Permanent Pool Depth (Wet Ponds) | | NA | | | |

*To Determine Active Storage $V=(H/3)(A1+A2+(\sqrt{(A1+A2)}))$

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

Sketch Outlet or Attach to Document



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

Inspection Firm: Kapur
Phone Number: 414-751-7205
Address: 7711 N. Port Washington Rd
Milwaukee, WI 53217

Inspector Name : Chris Sberna
Inspection Date: 10/1/21

Certifying Professional
Name: Chris Sberna
Phone Number: 414-751-7205

Date:
11/2/21

Signature:



Affix Seal Here

| DESC | + | HT | - | Elev | Plan |
|-------------|--------|--------|--------|--------|--------|
| 8" IE IN | 5.23 | 864.49 | | | 859.26 |
| 8" IE OUT | | 6.71 | 857.78 | 857.82 | |
| Pond Bottom | | 4.63 | 859.86 | | |
| | | 4.45 | 860.04 | | |
| | | 5.05 | 859.44 | | |
| Avg: | 859.65 | 4.82 | 859.67 | | |
| | | 4.91 | 859.58 | | |
| | | 5.16 | 859.33 | | |
| Top Bank | | 1.20 | 863.29 | | |
| | | 0.65 | 863.84 | | |
| Avg: | 863.57 | 1.12 | 863.37 | | |
| | | 0.70 | 863.79 | | |
| | | 0.80 | 863.69 | | |
| | | 1.02 | 863.47 | | |
| Spillway | Avg: | 2.40 | 862.09 | | |
| | 862.11 | 2.37 | 862.12 | | |