



Water Reuse Checklist

Section 1. GENERAL WATER REUSE INFORMATION

This document is designed to assist the submitter for items the Department requires for plumbing systems that have a water reuse system. The document does not relieve the submitter from submitting all required documentation for a plan review application. See the [Plumbing Checklist](#) for further information on all required documentation. Note, this document is not required to be submitted with the plumbing plan review application. This document may not be all-encompassing of submittal requirements. Questions should be brought to the Department's attention.

1. Building or Project Name: _____
2. DIS Application #: _____

Section 2. TYPICAL WATER REUSE SUBMITTAL REQUIREMENTS

WATER REUSE REQUIREMENTS: The following are submittal requirements for a typical water reuse system.

- Water Reuse Plan Requirements
 - An isometric drawing of the complete drain, waste and vent system of the conveyance piping supplying the source water.
 - An isometric drawing of the non-potable water system.
 - Water reuse piping materials per SPS 384 for potable water use. (Caution: Copper is typically not suitable for stormwater reuse as the pH is typically too low). If utilizing copper piping for water reuse using stormwater as the source water, then provide source water sampling, pH monitoring, and pH control in compliance with Table 384.30-7, footnote c.
 - An operational description or narrative of the water reuse system. A written functional description of the system and the anticipated effects.
 - A maintenance plan with a manual addressing all serviceable components or systems. Including a written statement that specifically acknowledges that if the maintenance of the system is not performed on schedule, or reports not received on time, the system will be ordered shut down and removed.
 - A written contingency plan that provides instructions in case of system malfunction.
 - A copy of the Wisconsin Department of Safety and Professional Services product approval letter for any previously approved products that may be a part of the system or conforms to ANSI/NSF Standards 42, 55, 350 or 350-1.
 - For systems other than stormwater, that include irrigation and/or infiltration, the following information must also be submitted in accordance with SPS 385 of the Wisconsin Administrative Code: the soil type; the rate of infiltration; and elevation of infiltration to high groundwater or bedrock.
 - Water reuse subsurface infiltration systems without an overflow to municipal sewer (non-sewered parcels) also require a SPS 383 POWTS plan review.
- Water Reuse Water Calculations
 - A separate water reuse calculation for the non-potable water system. Provide tank sizing calculations, flow rates, etc.

Section 3. WATER REUSE CONSIDERATIONS

Listed below are additional code references to consider when designing a reuse system. See the [Plumbing Code SPS 381-387](#) for more information.

1. SPS 382.10(1)(a), (1) INTENT. (a) Plumbing in connection with all buildings, public and private, intended for human occupancy, shall be installed and maintained in such a manner to protect the health, safety and welfare of the public or occupants and the waters of the state.
2. Plan Review Required. Table 382.20-1 #7, Plumbing treatment systems, other than POWTS, designed to treat water for compliance with Table 382.70-1.c
3. SPS 382.21 Inspection. Provisions of plan review require the system to be inspected at "Rough-in" and prior to being put into operation.
4. SPS 382.31(3)(a). Water reuse tanks shall be vented to maintain less than one inch of water column pressure differential.
5. SPS 382.34(3)(a) Treatment for reuse. 1. Except as limited in subd. 2., graywater, storm water, clear water, blackwater and other wastewaters as approved by the department may be reused in conformance with s. SPS 382.70. 2. Except as provided in subd. 3., wastewater discharged from water closets or urinals shall not be reused for drinking water.
6. SPS 382.36(7)(d)9. All underground stormwater storage tanks for water reuse shall be separated for sanitary sewers by a minimum of 8 feet.
7. SPS 382.40(3)(c)3.a. When a connection between 2 water supply systems exists, one system having a higher degree of hazard than the other system as specified in SPS 382.41, the water supply with a lower degree of hazard shall be protected as specified in SPS 382.41.
8. SPS 382.40(d)1. Identification. Where buildings or facilities contain water supply systems where the water supply systems have different degrees of hazard, other than potable, all water supply systems shall be labeled.

9. SPS 382.36(7)(d)3. Interior drains and inlets subject to backflow or backwater shall be protected with a check valve or backwater valve. Backwater valves for water reuse tank outlets shall be provided to protect from contamination.
10. SPS 382.36(12). Water reuse tanks for stormwater shall be provided with vector control on the inlet, outlet and vents.
11. SPS 382.40(3)(d)g. A hose bibb intended to discharge water that does not meet drinking water quality as specified in s. SPS 382.70, shall be labeled as non-potable or so identified for the specific use or uses, and shall be equipped with a removable key handle.
12. SPS 382.40(8)(e)2. Stop and waste-type control valves may not be installed underground.
13. SPS 382.70(4)(a). Periodic testing and reporting of the water quality is required from intervals from monthly to yearly depending on the risk factor determined by human exposure.
14. Table 384.10 #7. (Product Approval). Product approval is required for wastewater treatment devices used to meet the requirements in SPS 382.70.
15. SPS 384.25(1). All SPS 383 (POWTS) holding components or treatment components shall conform to the requirements of this section.
16. NR 812.08(4). A cistern shall be a minimum of 8 feet from a well.
17. The owner shall perform water quality testing, maintain a log of the results on site and make available for Dept inspection per the approval letter.