

February 2, 2009

AQUASHIELD, INC.
JEN ENTERPRISES, INC.
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CARY IL 60013

AQUASHIELD, INC.
MARK MILLER
KANASITA DR
PO BOX POB 2705
CHATTANOOGA TN 37343

Re: Description: STORMWATER TREATMENT DEVICE
Manufacturer: AQUASHIELD, INC.
Product Name: AQUA-SWIRL™ STORMWATER TREATMENT DEVICE
Model Number(s): AS-3
Product File No: 20080552

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of February 2014.**

This approval is contingent upon compliance with the following stipulation(s):

- Prior to installation of this product, plans and specifications must be submitted to the department or to an approved agent municipality for review and approval in accordance with s. Comm 82.20 (1) of the Wis. Admin. Code. Written approval for the plans and specifications shall be obtained prior to installation of the product.
- The review undertaken by Commerce staff does not include review and/or approval of this submittal as meeting DNR specifications for ch. NR 151.
- This product submittal has been reviewed and approved for plumbing treatment standards for subsurface infiltration and irrigation using stormwater as the source, as listed in Table Comm 82.70-1.
- When this product is installed, the installation must be in accordance with the manufacturer's printed design installation instructions, ch. Comm 82, plan approval under s. Comm 82.20, and any product approval stipulations. When there is a conflict between manufacturer's installation instructions and plan approval conditions or product approval stipulations, the plan approval conditions or product approval stipulations will take precedence.
- Installation-- Installation of this product must be in accordance with the manufacturer's printed installation instructions. A copy of the manufacturer's installation instructions must be given to the property owner, installer and submitted along with other information required by the governing agency for the installation.
- **Any plumbing plans that include this device(s) and submitted to Commerce shall be accompanied by an acceptable modeling method, such as outlined in Method for Predicting the Efficiency of Proprietary Storm Water Sedimentation Devices (1006) for the specific site where the installation of this device(s) is planned. The submitted calculations, based on site-specific inputs, shall predict the removal efficiencies by concentration and percentage. For particle size distribution, in SLAMM use file: NURP.cpz. For a copy of this standard, see: http://dnr.wi.gov/runoff/pdf/stormwater/techstds/prop_devices_std_v2_051408.pdf**

AQUASHIELD, INC.
Page 2
February 2, 2009
PRODUCT FILE NO. 20080552

- Any plumbing plans that include this device(s) and submitted to Commerce shall be accompanied by an acceptable modeling analysis for the specific site where the installation of this device(s) is planned. The submitted calculations, based on site-specific inputs, shall predict the removal efficiencies by concentration and percentage for both TSS and O&G. For particle size distribution, use the EPA-NURP (National Urban Runoff Program) distribution.
- Labeling: Each product shall have a AquaShield metal label permanently affixed which includes at least the following information: U.S. Patent No., Aqua-Squirrel™ System (model no./size) and contact information for the manufacturer; see sample in Attachment A..

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Jean M. MacCubbin, CST
Engineering Consultant--Plumbing Product Reviewer
Commerce; Safety & Buildings Div.
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Attachment A—sample permanent label