SAFETY AND BUILDINGS DIVISION
Plumbing Product Review
P.O. Box 7162
Madison, Wisconsin 53707

Wisconsin
Department of Commerce

Jim Doyle, Governor
Cory L. Nettles, Secretary

November 25, 2003 **Revised Copy**

GOOD WATER WAREHOUSE,INC.
PAT DALEE
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SANTA BARBARA CA 93110

A. I. MCDERMOTT
DAVE GREISINGER
2009 JACKSON STREET
PO BOX 2604
OSHKOSH WI 54901

Re: Description: WATER TREATMENT DEVICE-REVERSE OSMOSIS
Manufacturer: A. I. MCDERMOTT
Product Name: AQUASOFT PRO
Model Number(s): PESRO-50
Product File No: 20030155

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 November 2008.

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

- This product has undergone sufficient testing to document the product's ability to reduce only those contaminants and/or substances as specified in this approval letter when the product is installed and maintained in strict accordance with the manufacturers published instructions.

- For buildings not served by a municipal water supply, Department of Natural Resources (DNR) written approval may be required prior to installation of this product in a water supply system to reduce the concentration of a contaminant that exceeds the primary drinking water standards contained in ch. NR 809, Wis. Admin. Code, the enforcement standards contained in ch. NR 140, Wis. Admin. Code, or for a water supply system that is subject to a written advisory opinion by the DNR. For more information contact the DNR Section of Private Water Systems, P.O. Box 7921, Madison, WI 53707, telephone (608) 266-3415.

- A device used to detect increases in the total dissolved solids concentration must be installed on the product water line.

- If this approved device is modified or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed.

Based on testing data submitted to and reviewed by the department, this approval recognizes that these plumbing products will reduce the concentration of contaminants as specified on pages 1 through 3 of this letter.

INORGANIC CONTAMINANT REDUCTION CAPABILITIES
PRODUCT FILE NUMBER 20030155
TABLE 1 OF 1

Product Water Production Rate: 50.7 liters per day (lpd) [13.4 gallons per day (gpd)]

Tested Contaminant	Tested Influent Concentration (mg/l*)[1]
Barium (Ba^{+2})	10.0 ± 10%
Cadmium (Cd^{+2})	0.03 ± 10%
Fluoride (F^{-1})	8.0 ± 10%
Hexavalent Chromium (Cr^{+6})	0.15 ± 10%
Lead (Pb^{+2})	0.15 ± 10%
Nitrate (NO_3^-)	27.0 ± 10%
Nitrite (NO_2^-)	3.0 ± 10%
Radium 226/228 (*barium surrogate*)	25 pCi/L
Selenium (Se^{+4} and Se^{+6})	0.10 ± 10%
Total Dissolved Solids (NaCl)	750 ± 40
Trivalent chromium (Cr^{+3})	0.15 ± 10%

Other conditions: the contaminant reduction capabilities displayed for table 1 of 1 were generated by testing conducted by the Water Quality Association (WQA) in accordance with NSF *International* Standard 58. To qualify for barium reduction, the device must reduce the influent challenge water concentrations such that all effluent concentrations are ≤ 2.0 mg/l. To qualify for cadmium reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.005 mg/l. To qualify for fluoride reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 1.5 mg/l. To qualify for chromium reduction (i.e. trivalent or hexavalent), the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.1 mg/l. To qualify for lead reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.010 mg/l. To qualify for nitrate/nitrite reduction, the device must reduce the influent challenge water concentrations, such that all effluent concentrations are ≤ 10.0 mg/l (as N), also, no more than 1.0 mg/l (as N) shall be in the form of nitrite. To qualify for radium reduction, the device must reduce the influent barium challenge concentrations such that all effluent concentrations are ≤ 2.0 mg/l (barium is used as a surrogate based on it's relationship with radium on the periodic table and the difficulty in using radium for routine testing). To qualify for selenium reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.05 mg/l. To qualify for total dissolved solids reduction, the device must reduce the influent challenge concentrations by ≥ 75%.

1 = milligrams per liter (mg/l) are equivalent to parts per million (ppm)
± = plus or minus
≤ = less than or equal to
***** = unless otherwise indicated
≥ = greater than or equal to

This device was tested under controlled laboratory, or field, conditions. The actual performance of this device for a specific end use installation will vary from the tested conditions based on local factors such as water pressure, water temperature and water chemistry.

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

Sincerely,

Glen W. Schlueter
Engineering Consultant-Plumbing Product Reviewer
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Safety and Buildings Division
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