



**Jim Doyle, Governor**  
**Mary P. Burke, Secretary**

August 2, 2006

SYLVAN SOURCE  
LORENE SALCIDO  
285 N WOLFE RD SUITE 103  
SUNNYVALE CA 94085

Re: Description: WATER TREATMENT DEVICE-DISTILLATION  
Manufacturer: SYLVAN SOURCE  
Product Name: SYLVAN SOURCE  
Model Number(s): M-600  
Product File No: 20060270

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 August 2011.

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.
- Where the Department of Natural Resources (DNR) has jurisdiction, a 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.
- 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.
- The system shall be provided with an in-line total dissolved solids (TDS) monitor, or other acceptable means, to warn the user when the system is not performing it's functions. Acceptable alternatives to an in-line TDS monitor include:
  1. terminating the discharge of treated water;
  2. sounding an alarm which is connected to acceptable power source;
  3. flashing a light connected to an acceptable power source;
  4. providing the user with an obvious, readily interpretable, indication of the system's ability to perform (e.g. decreasing the flow rate of treated water by 50% or more for systems making mechanical filtration claims;
  5. Providing a sampling service by the manufacturer, either directly or through an authorized dealer, a minimum of once every six months;

6. Providing a sampling kit for analysis of TDS or other appropriate contaminants; or
7. Providing a TDS monitor to measure the product water quality.

Whichever means of performance verification is selected, it shall be clearly described in the owner's manual for this device, and approved for use along with the device.

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

**HEALTH EFFECTING INORGANIC CONTAMINANT REDUCTION CAPABILITIES  
 PRODUCT FILE NUMBER 20060270  
 TABLE 1 OF 2**

**Product Water Production Rate:** 22.7 liters per day (lpd) [6.0 gallons per day (gpd)]

Tested Contaminant	Tested Influent Concentration (mg/l) <sup>1</sup>
Arsenic (As <sup>+5</sup> )♦	0.30 ± 10%
Barium (Ba <sup>+2</sup> )♦	10.0 ± 10%
Cadmium (Cd <sup>+2</sup> )♦	0.03 ± 10%
Copper (Cu <sup>+2</sup> )♦	3.0 ± 10%
Fluoride (F <sup>-1</sup> )	8.0 ± 10%
Hexavalent Chromium (Cr <sup>+6</sup> )♦	0.15 ± 10%
Lead (Pb <sup>+2</sup> )♦	0.15 ± 10%
Mercury (Hg <sup>+2</sup> )	0.006 ± 10%
Nitrate (NO <sub>3</sub> <sup>-</sup> )♦	27.0 ± 10%
Selenium (Se <sup>+4</sup> and Se <sup>+6</sup> )♦	0.10 ± 10%
Trivalent chromium (Cr <sup>+3</sup> )♦	0.15 ± 10%

**Other conditions:** the contaminant reduction capabilities displayed for table 1 of 2 were generated by testing conducted in accordance with NSF/ANSI Standard 62. To qualify for arsenic reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.010 mg/l. 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 copper reduction, the device must reduce the influent challenge water concentrations such that all effluent concentrations are ≤ 1.3 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 Fluoride reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 2.0 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 mercury reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.002 mg/l. To qualify for nitrate reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 10.0 mg/l (as N). To qualify for selenium reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.05 mg/l.

<sup>1</sup> = milligrams per liter (mg/l) are equivalent to parts per million (ppm)  
 ≤ = less than or equal to  
 F/l = fibers per liter  
 μm = micrometers  
 ♦ = tested using the TDS surrogate

± = plus or minus  
 \* = unless otherwise indicated  
 < = less than  
 ≥ = greater than or equal to

**AESTHETIC INORGANIC CONTAMINANT REDUCTION CAPABILITIES  
PRODUCT FILE NUMBER 20060270  
TABLE 2 OF 2**

**Product Water Production Rate:** 22.7 liters per day (lpd) [6.0 gallons per day (gpd)]

<b>Tested Contaminant</b>	<b>Average Influent Challenge (mg/l)<sup>1</sup></b>
Chlorine (free)	2.0 ± 10%
Total Dissolved Solids (NaCl surrogate)	1,000 ± 10%

**Other Conditions:** the total dissolved solids reduction performance capabilities displayed for Table 2 of 2 were verified by testing conducted in accordance with the NSF/ANSI Standard 62. The free chlorine reduction performance capabilities displayed in Table 2 of 2 were verified by testing conducted in accordance with NSF/ANSI Standard 42. To qualify for free chlorine reduction, the device must reduce the influent challenge concentrations by  $\geq 50\%$ . To qualify for total dissolved solids (TDS) reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are  $\leq 10$  mg/l. NSF/ANSI Standard 62 permits the use of TDS as a surrogate for the reduction of arsenic, barium, chromium, copper, lead, nitrate and selenium; see table 1 of 2.

<sup>1</sup> = milligrams per liter (mg/l) are equivalent to parts per million (ppm)

$\geq$  = greater than or equal to

$\leq$  = less than or equal to

$\pm$  = plus or minus

This device is not approved for reduction of volatile organic chemicals, or any other contaminants that do not appear within this approval letter.

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 which may result from its use.

Sincerely,

Glen W. Schlueter  
Engineering Consultant-Plumbing Product Reviewer  
Bureau of Integrated Services  
Safety and Buildings Division  
Department of Commerce  
(608) 267-1401 **Phone**  
(608) 267-9566 **Fax**  
gschlueter@commerce.state.wi.us **Email**  
8:00AM – 4:30PM CDT **Work Hours**

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