



April 22, 2013

ECOWATER SYSTEMS LLC
MARGARET BICKING
1890 WOODLANE DR
WOODBURY MN 55125

Re: Description: WATER TREATMENT DEVICE - POE ANION EXCHANGE
Manufacturer: ECOWATER SYSTEMS LLC
Product Name: ECOWATER NITRATE REDUCTION SYSTEM
Model Number(s): NONE (1.0 ft.³ anion resin - 10 x 47" tank)
Product File No: 20130100

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, 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 April 2018.

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 manufacturer's 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) 267-9787.
- 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.
- A flow control shall be installed upstream of this device to prevent water flow exceeding 4.0 gallons per minute (gpm).
- Nitrate test strips must be provided to the end user at the time of installation along with an ongoing source of supply for obtaining additional test strips.
- If copper water supply piping is installed downstream of this device, then one of the following must occur:
 1. the water downstream of this device must be treated to increase the concentration of alkalinity [e.g. Na₂CO₃ (soda ash) chemical injection]; or
 2. regular sampling for lead and copper. If lead and/or copper are detected, then supplemental treatment as describe immediately above becomes mandatory.

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 2 of this letter.

**HEALTH EFFECTING INORGANIC CONTAMINANT REDUCTION CAPABILITIES
PRODUCT FILE NUMBER 20130100
TABLE 1 OF 1**

Flow Rate: 4.0 gallons per minute (gpm) @ 3.8 pounds per square inch – gauge (psig)
Capacity: 980 gallons (gals.) @ 10 lbs. salt

Tested Contaminant	Influent Challenge (mg/l)¹
Nitrate [NO ₃ ⁻ (as N)]	30.0 ± 10%

Other Conditions: the contaminant reduction performance capabilities displayed for Table 1 of 1 were verified by testing conducted in accordance with NSF *International* Standard 53. To qualify for nitrate reduction, the device must reduce the influent challenge concentrations so that all effluent concentrations are ≤ 10.0 mg/l (as N).

¹ = milligrams per liter (mg/l) are equivalent to parts per million (ppm) ± = plus or minus
≤ = less 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 which may result from its use.

Sincerely,

Glen W. Schlueter
Plumbing Product Reviewer
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