



# DRINKING WATER BACKFLOW PREVENTION

BACKFLOW PREVENTION INSTITUTE  
DEDICATED TO WATER SYSTEM SAFETY WORLDWIDE

## ***Residential Fire Sprinklers – Who Should Install Them?***

***PVB Field Test -  
A How-to-Guide, Part 2***

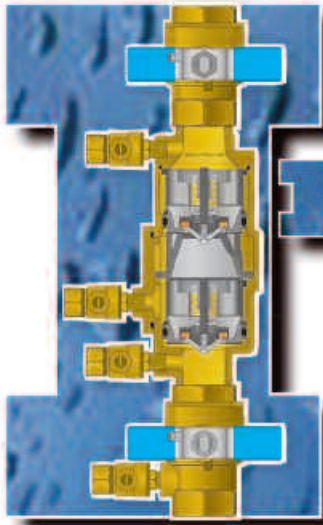
***Arsenic Removal from  
Potable Water in  
West Bengal, India***

***Certification Programs  
for Irrigation -  
What about Backflow?***



***Test Your Skills***

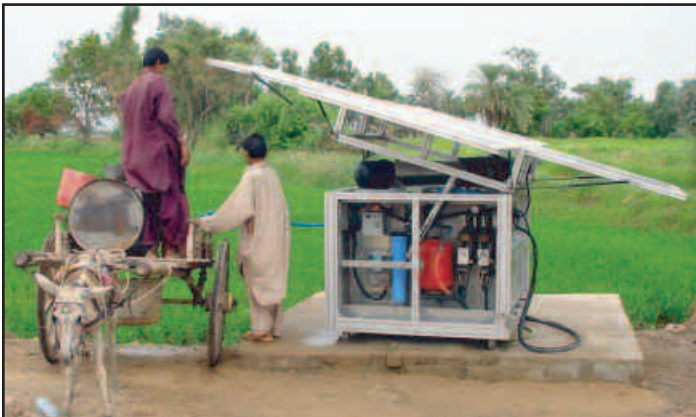




# Inside THE INDUSTRY

## **Solar Powered Water Treatment Machine Introduced Into U.S. For Disaster Relief**

San Rafael, CA - If a natural disaster strikes, clean drinking water and emergency electricity can now be made readily available through the innovative Solar Cube. Completely portable and easily assembled on site, the Solar Cube is powered by sunlight and wind, and can provide up to 3,500 gallons of clean drinking water per day from polluted water or salt



Solar Cube Provides Clean Drinking Water, Emergency Electricity to Local Communities if Disaster Strikes

water, enough to sustain hundreds of families during a disaster. It can also provide enough energy for emergency disaster officials to power refrigeration for emergency medical supplies, keep a laptop on-line, or ensure that crisis communications equipment remains operational.

The Solar Cube works by placing a pump, which is attached to the machine, into a polluted water or salt water source. The water is pumped through a series of filters to remove large matter. At the final stage, the water is filtered through a reverse osmosis membrane, which is so fine that it dispels all bacteria, viruses, salts and dangerous chemicals. Power for the Solar Cube's operation is generated by 24 volt batteries which are charged by both the integrated photovoltaic solar panels and a wind powered generator. Once assembled, the system is easy to operate, cleans its own filters, and has a service life of at least seven years.

During the past year, the Solar Cube has been introduced into remote areas of Asia and South America. The Solar Cube provided drinking water and electrical power to several villages in Pakistan after the major earthquake in 2005. Currently, the Solar Cube is being used in isolated villages in Venezuela and Pakistan.

The Solar Cube is a cooperative project by Spectra Watermakers, Inc., of San Rafael, California and Trunz Metallchnik AG of Switzerland. For more information contact: Contact: Kristina Molfino, Ann Hill Communications 415.491.5908 kristina@ahcommunications.com

## **Hach Launches the GuardianBlue(TM) Early Warning System**

Loveland, CO - March 2007 - Hach Company announced it has received SAFETY Act Designation and Certification from the Department of Homeland Security (DHS) for GuardianBlue(TM) designed to help cities protect their drinking water systems from terrorist contamination attacks and real-world events.



The innovative GuardianBlue Early Warning System is the industry's first and only alert system using patented Event Monitor technology to detect, alert, and classify contaminants from cyanide and pesticides to ricin and VX. The system can also detect, alert, classify, and study real-world events and unknown contaminants in water distribution systems. This breakthrough capability means the GuardianBlue system can