

Press Release

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Subject: Comprehensive And Universal Potable Water Treatment

WaterSmart Environmental, Inc. announces the development of comprehensive potable water treatment technology to eliminate several common contaminants frequently found in potable water supplies. The universal water treatment technology consists of micro filtration, followed by granular activated carbon adsorption, followed by 1 micron cartridge filtration, and lastly followed by reverse osmosis treatment. Contaminants removed include algae, antibiotics from concentrated animal feeding operations (CAFO), arsenic, asbestos, chlorinated pesticides, color, Cryptosporidium protozoa, dissolved organics, excessive dissolved solids, fluorides, Giardia, hardness, heavy metals, hydrogen sulfide, iron, manganese, MBAS (surfactants), MTBE (methyl tertiary butyl ether), lignins, nitrates, nutrients from municipal treatment plant discharges and animal farms runoff, perchlorates, radium, radon, radioactivity, salinity, silica, smells, suspended solids, tannins, tastes, and turbidity.

The single contaminant mostly in today's news is MTBE with 2,315 U.S. public water systems impacted. Cleanup costs are estimated in the billions. Other water quality issues are never far behind. For example, the USEPA maximum secondary treatment standards for sulfates and dissolved solids are 250 and 500 mg/L, respectively. Because of its continuing drought conditions, the City of Las Vegas requested the State of Nevada to increase the maximum treatment standards to 500 and 1000 mg/L respectively, to accommodate their ever increasing salinity. The State of Nevada did so. Perchlorates contaminants from munition works and rocket fuels are showing up in more and more water supplies. The Centers for Disease Control are concerned about antibiotics from animal farms showing up in drinking water because of their adverse impact on human immunity systems. Our national water supplies are "officially safe" but with significant skepticism as measured by the every increasing worldwide sales of bottled water.

Over the last 50 years there have been many different kinds and types of treatment processes to remove the several and ever increasing list of contaminants. To date there has never been but a single treatment technology that was able to effectively treat every single contaminant, whether appearing alone or associated with others. Consequently total potable water treatment costs have gradually risen over the years and quite noticeably during the last 10 years as the number of contaminants continue to proliferate. Having to treat for MTBE will continue the recent cost escalation.

In its waste-to-energy program WaterSmart Environmental will be incorporating its above referenced water treatment technology to remove each and every contaminant thereby producing finished potable water of bottled water quality. The potable water will be sold to the public at a 20% discount from existing prices—a rather nice and most welcome surprise! All of the contaminants removed will be treated through anaerobic digestion and other technologies to enable effective contaminant management.

WaterSmart Environmental, Inc. is a provider of waste-to-energy, food independence, water independence, and energy independence technologies and a manufacturer of highly engineered water purification components and systems. The company designs and builds a wide variety of water treatment equipment including packaged water and wastewater treatment plants, UltraPaq™ aerobic package plants, OAT™ Process anaerobic digesters with associated energy production, aerators, filters, PuriSep™ and SmartWater™ oil/water and solids/liquids separators, RainDrain™ perimeter trench sand filters for stormwater runoff, dissolved air flotation separators, air strippers, complete skid assembled aqueous waste treatment plants, FilterFresh™ skid mounted potable water production plants, skid mounted wastewater treatment systems for laundromats, commercial laundries, and car/truck wash facilities with water reclamation and reuse, softeners, demineralizers, activated carbon treatment equipment, and water purifiers for domestic and international markets.

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Next Generation Wastes-To-**Renewable Energy** Technologies*

