

Artesian of Pioneer, Inc.

Response to MHRA questions regarding arsenic water treatment systems

1. Name(s) of your system(s)

Artesian Filter King, Artesian Pressure Filter Systems

2. Will the system be available for installation and operation prior to the EPA mandated date of January 23, 2006?

Yes, Artesian systems are a proven concept. Currently working in Ohio, Indiana and Michigan at rates as low as 10 GPM and as high as 1400 GPM.

3. Manufacturer and distributor contact information.

Artesian of Pioneer, Inc.
50 Industrial Drive
Pioneer, Ohio 43554
800-547-2453
sales@kidstoncom.com
www.kidstoncom.com
Edward A. Kidston President

4. Basic description of your technology (i.e. activated alumina, modified lime softening, etc.).

ARTESIAN MARIS MEDIA is a specifically designed media used to enhance oxidation and filtration of Iron, Manganese, Arsenic, and Hydrogen Sulfide. Systems are simple in design, and economical to operate. Systems can be leased and or purchased throughout the U.S. and Canada.

5. Maximum arsenic levels that can be mitigated to below the 10ppm standard using your system.

ARTESIAN MARIS MEDIA currently has not experienced an upper limit. Our current systems are installed on waters containing as high as 32 PPB and removing down to less than 3 PPB. ARTESIAN has capabilities to pilot test any type of water quality.

6. Range of system capacities available with your system.

10 Gallons Per Minute – 5 Million Gallons a Day

7. What method of disposal has been approved for the media type? Is it considered hazardous material or will they pass TCLP as non-hazardous waste?

Less effective, more expensive technologies, require frequent media replacements (every three to five years). ARTESIAN MARIS MEDIA does not need to be replaced on a frequent basis. When replacement is needed (20 years or more) it is considered a non hazardous waste.

8. Approximate cost for a typical 200gpm system, including engineering, design, drawings, specifications, equipment, installation, and start-up. Do not including the building to house the system or piping to and from the plant.

ARTESIAN is a full service company capable of design, manufacture, installation and service of required equipment. Typical cost is influenced largely, by the needs of the client as well as the raw water characteristics. Because the equipment is designed as a job specific solution, we request all parameters of the project prior to pricing. Quotations for any project can be provided within 5 business days by contacting sales@kidstoncom.com or 800-547-2453 or Dean Potratz 419.206.0112, [dwpotratz @adelphia.net](mailto:dwpotratz@adelphia.net).

9. Approximate ongoing annual operational costs for a 200gpm system, including chemicals, media replacement, disposal, electrical power, etc., as applicable. Please also include approximate labor requirements in labor-hours and the level of training/skill required by operators.

A class 1 (lowest class) operator is capable of operating a typical system. Systems can be provided to operate on a fully automatic basis, with some part-time supervision and weekly/monthly testing. Cost to operate a typical 200 GPM system is largely dependent upon final design and raw water characteristics. Currently we have systems in this range (200 GPM) operating on annual budgets of \$2,000.00 as well as others operating on budgets of \$50,000.

10. What is the lead time required from purchase to operational installation?

Lead time varies from 6 weeks to 6 months depending on the size and complexity of the system.

11. Describe the track record of the system and supplier including examples of existing installations, if any.

ARTESIAN has hundreds of systems available for inspection throughout the Mid West of the United States.

12. List and explain any site-specific factors (such as appropriate water pH and mineral levels) that may affect the decision to use your system.

All water is site specific and should be analyzed thoroughly prior to any system being designed and installed.