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Providing Integrated Water Treatment Systems
For Total Treatment Solutions

Arsenic - Iron - Manganese - Uranium - Heavy Metals - Hydrogen Sulfide



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Hello! From AdEdge Technologies



Welcome to AdEdge e-news, our periodic update summarizing the latest news, case studies and information from AdEdge Technologies.

For those of you unfamiliar with us, we specialize in the design, development, manufacturing and supply of innovative technologies, adsorbent-based products, and systems that remove contaminants from process or aqueous streams. We have been chosen by more engineers and offer more technology options than any other company for the removal of arsenic, iron, manganese, uranium and other contaminants from water. Our technology and products enable our customers to manage the elements...in a variety of industries... with outstanding results. They include drinking water, mining, industrial process, environmental, chemical, energy, and wastewater.

We hope you will find our information helpful, and encourage you to contact our office and speak with one of our staff members regarding any questions you may have about our water treatment products and services.

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Employee Spotlight



Valarie Rhodes

Valarie Rhodes (Val) is an Assistant Project Engineer at AdEdge. Growing up in a small town in Western New York, Val encompasses a true small town personality, always positive, bright and attentive to providing exemplary customer service in her work at AdEdge. After graduating from the University of South Carolina with a degree in Biology, Val worked as a food inspector for the state of South Carolina. Her experience in food protection led her to a position as a regulatory inspector for small water systems and community water systems. She also regulated well drillers and performed compliance inspections on private wells. Her background and experience has been a great fit for AdEdge. Val and her family are relocating to

New from AdEdge!

Integrated Membrane Solutions (IMS) Featuring Reverse Osmosis Packages



Designed for tap, well, or other surface water applications, AdEdge Reverse Osmosis systems using advanced membrane technology coupled with our other packaged treatment modules offer the complete integrated treatment solution. Our systems can serve a variety of applications including potable water, medical, boiler feed, manufacturing, bottling, and remediation. Whether your water treatment application is for reduction of total dissolved solids (TDS) or much more complicated, AdEdge can integrate a custom treatment solution to meet your needs. We apply our process applications expertise to provide a "one stop shop" approach for managing challenging water.

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Geneseo Hills EPA Demonstration Project Effectively Removing Arsenic.



AdEdge Technologies Inc. (AdEdge) was selected in 2007 by the U.S. EPA and the host site in Round 2a Arsenic Demonstration Program to implement a turnkey arsenic treatment project for the Geneseo Hills Community in Geneseo, IL. The Geneseo Hills water system is served by one well with a design flow of 200 gpm, with a backup well. The well provides potable water for a community with 190 connections and a population of approximately 480 residents. The treatment system receives water on the demand side of the storage tanks with an arsenic level of 25 ppb, above the EPA MCL of 10 ppb. From the combined 21,000 gallon twin pressurized storage tanks, water is treated by the AdEdge system which is configured in parallel. AdEdge was contracted by U.S. EPA to provide and manage all permitting with IEPA, design, fabrication, installation, and startup activities. The system was Adedge's 11th full scale EPA demonstration project.

Iowa where Val will continue her duties with AdEdge.

Industry Links

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AdEdge proposed and installed an APU-5460CS-S-2-AVH treatment system designed to reduce arsenic concentrations to below the new arsenic treatment standard of 10 ppb. The system utilizes adsorption technology deploying AdEdge's Bayoxide® E33 granular ferric oxide media. The design also includes a 100% backwash recycle system capable of filtering particulates and reclaiming all of the periodic backwash water for treatment and use. The packaged system features twin 54-inch diameter carbon steel adsorption vessels mounted on a painted epoxy coated carbon steel skid, pre-piped and integrated. The system is placed after a pre-chlorination module for oxidation of As (III) to As (V), and is equipped with automated control valves and harness, central control panel with programmable logic controller (PLC) and a color user interface touch screen. The System also features a hydraulic panel with local gauges and sample ports for a complete functioning packaged unit.

Since full time operation began in April, 2008, the system has effectively reduced arsenic consistently below 2 ppb, well below the MCL. Approximately 30,000 gallons per day is being processed through the system on average. The site's operator, Merle Loete, performs the routine sample collection and reporting associated with the U.S. EPA's Demonstration Program requirements with quarterly reporting of the data by U.S. EPA's contractor Battelle. "The success of the AdEdge system at Genesee Hills has allowed other communities in the area to benefit from having a simple to use, cost-effective arsenic removal system." says Mr. Loete. "The system we choose was the right one" A 6-month EPA summary report will be produced and available in the near future.

AdEdge Packaged Unit (APU) Selected for Barrick Gold Turquoise Ridge JV, NV

In 2008, AdEdge was selected to design, fabricate and startup a potable water treatment system for Barrick Gold's Turquoise Ridge JV operation. The APU packaged unit will serve operations personnel and support facilities. AdEdge worked closely with TetraTech to provide the 25 gpm system for arsenic removal. The APU unit utilizes AdEdge's Bayoxide® E33 (granular ferric oxide) media for adsorption and is configured series (lead/lag) flow design with automation and PLC controls. Design features include a remote monitoring module for operations personnel. Installation and startup is scheduled for Summer, 2009.





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