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AdEdge News Spring/2011

AdEdge Continues To Grow In 2011

AdEdge continues growing in 2011...with no end in sight. Over the past 5 years, our staff and facilities have grown nearly 400%. And with that, our base of experience and expertise in water treatment has grown. Our expansion has substantially increased our capabilities and capacity to design and manufacture even **larger systems with more treatment options** for communities and municipalities.

AdEdge Competitive Advantage:

AdEdge has been awarded and implemented 12 full scale U.S. EPA demonstration projects and the only water treatment company to participate in all three phases of the program.

Environmentally Friendly AdEdge AD26 Oxidation/Filtration Water Treatment System Removes Arsenic, Iron & Manganese in City of Aurora, OR.

In late 2009, Water Works Engineers contacted AdEdge to design and implement an arsenic, iron and manganese removal system to serve the City of Aurora, Oregon. The existing water supply consisted of three wells feeding into a centralized distribution system with a maximum combined capacity of 500 gpm. The site had an arsenic level of 12, ppb above the EPA's MCL of 10 ppb. The City of Aurora also had iron and manganese levels of .9 mg/L and .189 mg/L above the secondary MCLs of 0.3 mg/L and 0.05 mg/L respectively. AdEdge worked closely with Water Works Engineers and Ashley Engineering to supply the treatment system, backwash recycle pump skid and components, chemical feed, and instrumentation. AdEdge also furnished the system with a PLC communications module to perform

New Faces

Paul Matz
Senior Project Engineer

Know Paul Matz joined AdEdge as a Senior Project Engineer with more than 25 years experience in engineering, project management, system design, development, and testing.

Paul's background includes: groundwater treatment systems and facilities, chemical weapon destruction systems and facilities, mobile thermal treatment systems, landfill gas management systems, landfill gas to energy systems, soil vapor extraction systems, bioremediation systems, and waste stabilization systems.

Paul earned a Bachelor of Science degree in Mechanical Engineering Technology in 1982.

Doug Emerick
Project Manager

Doug Emerick joined AdEdge as a Project Engineer. Doug is

the automated functions needed for proper operation of the control valves.

The AdEdge treatment system featured a skid-mounted AD26 oxidation and filtration package united sized for a maximum design flow rate of 500 gpm. The model AD26-7260CS-3-AVH utilizes AdEdge ADGS+ media in a three vessel carbon steel configuration in series. ADGS+ is a manganese dioxide coated silica media which is NSF 61 certified used in the removal of iron, manganese and arsenic. Injected ahead of the treatment unit through a chemical feed is chlorine to oxidize As (III) to As (V) for optimized performance. The system is equipped with automated control valves and harness, central control panel with programmable logic controller (PLC) and a color user interface screen. System features also include differential pressure switches, flow sensors and totalizers, and sample ports for a complete functioning packaged unit. Each 72-inch diameter treatment vessel contains approximately 84 cubic feet of AdEdge ADGS+ oxidation filtration media. Using the AdEdge H2Zero™Backwash/Recycle system, backwashing occurs every three to four days based on the incoming levels of iron and manganese which is programmed using the PLC. Water exiting the treatment system feeds the 300,000 gallon storage tank and distributed to the end users.

The system was started up and began operation in November 2010. Since the installation of the system, the arsenic, iron and manganese levels are below the treatment goals of 10 ppb, 0.3 mg/L and 0.05 mg/L respectively.

Did you know that AdEdge offers RO and other membrane treatment systems?

AdEdge offers standardized and custom-engineered industrial and municipal water treatment systems for advanced filtration and separation applications. Our staff brings over 100 years of reverse osmosis, nanofiltration, ultrafiltration and microfiltration membrane systems experience combined with other unit processes to deliver a complete solution to the needs of our customers. Experience and access to a wide selection of technology options means that our specialists can offer the best membrane solution for a particular application backed by our technical support and exemplary customer service.

Our membrane filtration technology is the result of many years of experience and close cooperation with world leading manufacturers of membranes, membrane support chemicals and services. Our systems and products commonly fit in municipal, power, manufacturing, industrial, chemical process, and multiple other applications.

AdEdge Systems for Groundwater Remediation

responsible for management tasks related to proposal preparation, system design, project scoping and execution of water treatment projects for systems to remove arsenic, iron & manganese and other contaminants from ground water.

Doug brings more than 13 years experience in engineering, design, and construction of large water and wastewater facilities.

Doug earned a degree in Environmental Engineering from Humboldt State University in 1998.

Customer "Quotes"

"As an engineer working with a client and regulatory agency, Adedge provided excellent service and support for the treatment system approval process and installation. I worked mostly with Chad and it was an absolute pleasure. He exceeded my expectations throughout the entire process and made my life easier. I would love to work with AdEdge again".

Dan Pizzino
The Golf Club
Columbus, OH

Several industries and industrial processes may contribute to soil and groundwater contamination. AdEdge Technologies has supplied filtration equipment for several remediation efforts to remove arsenic, lead, and other inorganic contaminants to meet state and federal mandates. These contaminants might come from lumber processing facilities that use arsenic to treat and preserve the boards, cattle or other animal dipping sites that use arsenic-based pesticide baths, plant nurseries that use arsenic pesticides, construction sites that have high lead contamination from demolition of old buildings, or mine waste and run-off sites that might contain several metals like lead, iron, arsenic, and others. These types of sites are all candidates for systems designed to pump the groundwater through site-specific filtration systems for treatment. After chemical analysis of the water, the systems are sized and operated so that the effluent water can be sent to sanitary sewers or used in ponds as decorative features or for irrigation, allowing the land and groundwater to be used productively after the remediation.

AdEdge Principal Greg Gilles Featured Presenter at Recent California Rural Water Association Workshops.

This past March, AdEdge Vice President and Principal, Greg Gilles was a featured presenter at a series of 3 workshops conducted in partnership with the California Rural Water Association. The 3 workshops, titled ***Challenges and Practical Solutions For Removing Arsenic, Iron, Manganese, Uranium, and Nitrates,*** addressed a variety of topics including compliance, regulatory issues, case studies, residuals management, and financing options. More than 150 people attended the workshops. For more information contact sales@adedgetechnologies.com.

"Helping Hands For Water" Receives Official 501c3 Charity Status.

Envisioned and started by a group of AdEdge employees, **Helping Hands For Water** (HHFW) is now officially a tax-exempt 501c3 public charity as of March 25, 2011. Helping Hands for Water believes that safe, quality, drinking water is a resource that no one should be without.

The vision of **Helping Hands For Water** is to steward their knowledge, time, talents, and resources to assist people in developing countries and other communities in need, to provide availability of safe drinking water. To learn more about HHFW go to www.helpinghandsforwater.org.

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AdVantEdge™ Residential Product Line Featured at 2011 WQA Show.

In March, AdEdge exhibited at the 2011 WQA show in San Antonio, TX. AdEdge employees Beth Thomas and Richard Cavagnaro, Jr, represented AdEdge in the show booth showing off the AdVantEdge residential line of arsenic removal systems. The AdVantEdge line includes Point-of-Entry systems, Point-of-Use systems and cartridges. Several AdVantEdge line dealers stopped by the booth to see the introduction of the new AdVantEdge Residential Products website www.advantedgewater.com. and to see what is being offered in 2011.

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