



Engineering America Continues to Build Its Product Offerings

Engineering America is proud to announce the addition of Lakeside Equipment Corporation of Bartlett, IL to our line card.

Engineering America proved to be the company's number one choice. Lakeside Equipment is an 80-year-old company and manufactures a wide range of equipment for virtually all stages in the wastewater treatment process.



With over 50 installations of the Lakeside *Raptor* Fine Screen and CLR Oxidation Ditch Processes in our territory, Lakeside Equipment has a great reputation for building reliable equipment that is easy to maintain. Lakeside is also well known for their SpiraGrit System, Peripheral-Feed Clarifier, and Screw Pump product lines.

Monstrous Clarifiers Now Spotted in Grand Rapids

Rice Lake Construction crews are installing two mega-clarifiers manufactured by WesTech Engineering at the Grand Rapids, MN WWTP.



Measuring 120' in diameter, the two primary clarifiers specified by AE2S Engineers are designed to handle a peak daily flow of 9.17 MGD from UPM, the pulp and paper mill in Grand Rapids.

Capable of handling 414,000 pounds of solids per day, the main gear and bearing of each clarifier is able to withstand a momentary peak torque load greater than 3,200,000 ft.-lbs. The main gear includes four hardened forge alloy steel pinions. The pinions are supported vertically and radially by top and bottom lubricated bearings designed to handle all operating loads.

The wastewater treatment plant upgrade also included a solids handling building and associated equipment.

The Greenest Alternative

When it comes to water storage, Aquastore® tanks are your best choice for cost effective environmental efficiency.



Our Sincere Thanks

It is a pleasure to provide you with the first ever consolidated Engineering America newsletter. I hope you enjoy reading interesting articles from all four of our regional offices.

I am grateful for a wonderful year in 2010 and sincerely thank you for your continued support. I wish you all good health, happiness and prosperity in the new year.

*Anthony (Tony) J. Belden
President and CEO*

THINK TANK

Aquastore® Blue Bio-solids Tanks Prove to Be the Right Recipe for the City of Willmar's New Wastewater Treatment Facility



Installed: 2009

Tank Type: Aquastore Glass-Fused-To-Steel

Size: Three 1.5 MG Tanks

Engineers: Donohue & Associates

Contractors: Graham Construction/Engineering America

The city of Willmar, faced with an aging and outdated wastewater treatment and collection system, passed a resolution to build a new wastewater treatment facility six miles outside of town. The new plant was designed to help

the city keep up with continued growth and upcoming regulatory changes associated with discharge to the Minnesota River and Lake Pepin. The new wastewater treatment facility was designed by Donohue & Associates of Sheboygan, WI, and built by Graham Construction of Eagan, MN. The design engineering team wanted a proven system with low maintenance and wanted to be able to mix the contents of the tanks thoroughly to assist in the even, homogeneous land application of the stored liquids.

Engineering America served as a subcontractor to Graham Construction and built three new 1.5 MG Glass-Fused-To-Steel Aquastore tanks all equipped with Jetmix™ Sludge Mixing Systems. The three tanks are each 90' in diameter and 33' tall and provide the city of Willmar with at least six months of sludge storage to meet current regulations. Engineering America was also a major chosen equipment supplier for critical areas of the new plant. The new wastewater treatment facility features EPIC International Screw Pumps, Sanitaire Fine & Coarse Bubble Aeration, Conservatek Aluminum Domes, WesTech Landy Oxidation Ditch Aerators, and a TrojanUV3000PLUS™ UV System.

A New Impressive CET for PWWSD No. 11, Girard, Kansas



PWWSD No. 11 Water District was searching for a long-term, low-maintenance elevated water tank for their system when they chose the Aquastore, glass-fused-to-steel, composite elevated tank as the most cost-effective solution.

Impressed with the low-maintenance concrete pedestal and the inert porcelain enameled coating on the tank that never requires repainting, the city chose the Aquastore tank over a traditional field welded, field painted style tank.

The project was designed by the engineering firm of Larkin Group, Inc. from Kansas City, MO. The tank is a 48' diameter by 38' high light sky blue tank with two boldly colored cobalt blue bands of steel, giving an aesthetically pleasing look to viewers.

Also shown is a skid mounted pump station represented by Engineered Systems, Inc., which was placed in the interior storage capacity area at the base of the concrete pedestal. The modular pump station has duplex 30HP, 525GPM, 125TDH pumps, each configured with 12" suction and 12" discharge piping. A metered bypass return flow line is included with the station as well as an actuated butterfly valve. The drives, controls and telemetry are powered with a 3 phase, 480 volt electrical service. Careful engineering and logistical coordination among all parties resulted in a successful and cost effective project.

Installed: 2010

Tank Type: Aquastore Composite Elevated Tank

Size: 500,000 Gallons

Engineers: Larkin Group, Inc.

Contractor: Engineering America

Southern Ute Tribe – Ignacio, CO Aquastore Tank Installation Open House

Engineering America constructed the second of two 1M gallon tanks for the Southern Ute Indian Tribe. The first tank was completed in May of 2002. Attendance exceeded expectations as over 35 guests enjoyed a box lunch provided by the Sky Ute Casino catering staff. Lunch was served inside the “tank” under construction so everyone could better understand the construction methods employed by Engineering America.

Besides the water storage tank construction, a “SolarBee” mixing system will be part of the new tank as well as the existing tank, as directed by the Southern Ute Tribe.

A chance to see the clear-span aluminum dome, concrete floor and starter ring, as well as the bolted sidewall construction, offered a truly hands-on view of the tank and



a better understanding of the value of a glass-fused-to-steel water storage tank.

Our thanks to the Southern Ute Indian Tribe for hosting this learning opportunity.

Engineering America's Colorado office would like to thank all of our tank owners and engineering firms from across our region for making 2010 a record year. The greatest achievement in 2010 was that 65% of our installations were with a repeat owner, and/or engineering firm. As we continue our growth pattern within our region, we look forward to strengthening and continuing to build upon our relationships with past owners and engineers, while looking for opportunities to meet and start new relationships with potential owners and engineers. Again, we say thank you for your trust in the products and services provided by Engineering America.

United Dairymen of Arizona (UDA), Tempe, Replaces Epoxy Painted Tank with Aquastore Glass-Fused-to-Steel

New Aquastore 20' D x 44' H
99,000 gallon tank



Remains of old epoxy
painted tank

United Dairymen of Arizona contracted Engineering America to demolish an 11-year-old epoxy painted tank and replace it with an Aquastore glass-fused-to-steel 99,000 gallon tank. The tank installation was completed in August 2010 and is UDA's second Aquastore tank. Their first tank was built in 2002.

The tank will store reuse water from UDA's reverse osmosis/polishing process.

Special thanks to Keith Murfield, CEO; Mike Billotte, Vice President; and Steve Baxley, Plant Engineer who worked exclusively with Engineering America.

“The tank went in on schedule and on budget in a very difficult spot with very limited access. The folks from Engineering America have been a pleasure to work with and we are now planning our next new tank.”

Steve Baxley, UDA



Engineering America

2011 Upcoming Trade Shows and Events

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Midwest

MINNESOTA, IOWA, NORTH DAKOTA, SOUTH DAKOTA AND WESTERN WISCONSIN

- Jan. 11-13: South Dakota Rural Water Technical Conf. – Pierre, SD
- Feb. 1-2: North Dakota Rural Water Systems Assoc. Water Expo & Technical Conf. – Bismarck, ND
- Feb. 15: Iowa Rural Water Assoc. Conf. – Coralville, IA
- March 1: Minnesota Rural Water Assoc. Conf. – St. Cloud, MN
- March 24: Minnesota Wastewater Operators Assoc. MNPCA – Brooklyn Park, MN
- March 30-31: Wisconsin Rural Water Assoc. Show – Green Bay, WI
- June 12-16: American Water Works Assoc. Conf. – Washington DC*
- TBD: Minnesota Wastewater Operators Assn. Show – TBD
- Sept. 14-16: South Dakota Water and Wastewater Assoc. Show – Huron, SD
- Sept. 20-23: Wisconsin Rural Water Assoc. Conf. – Wisconsin Dells, WI
- Sept. 28-30: MN American Water Works Assoc. Conf. – Duluth, MN
- Oct. 4-6: National Rural Water Assoc. Conf. – Louisville, KY*
- Oct. 4-7: Wisconsin Wastewater Conf. – LaCrosse, WI
- Oct. 11-13: North Dakota Water & Pollution Control Conf. – Bismarck, ND
- Oct. 15-19: Water Environment Federation-TEC – Los Angeles, CA*

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Central

KANSAS, NEBRASKA AND WESTERN MISSOURI

- March 21-23: Nebraska Rural Water Assoc. – Columbus, NE
- March 22-24: Missouri Rural Water Assoc. – Branson, MO
- March 29-31: Kansas Rural Water Assoc. – Wichita, KS
- March 30-April 1: Design-Build for Water/Wastewater – Kansas City, MO
- June 12-16: American Water Works Assoc. Conf. – Washington DC*
- Sept. 11-14: Missouri Municipal League – Kansas City, MO
- Sept. 28-30: Nebraska Municipal League – Lincoln, NE
- Oct. 4-6: National Rural Water Assoc. Conf. – Louisville, KY*
- Oct. 8-11: League of Kansas Municipalities – Wichita, KS
- Oct. 15-19: Water Environment Federation-TEC – Los Angeles, CA*
- Nov. 2-3: NB American Water Works Assoc. Conf. – Kearney, NE
- June 21-24: Colorado Municipal League – Vail, CO
- Sept. 17-21: RMSAWWA/RMWEA – Loveland, CO
- Oct. 4-6: National Rural Water Assoc. Conf. – Louisville, KY*
- Oct. 15-19: Water Environment Federation-TEC – Los Angeles, CA*
- TBD: Rural Water Assoc. of Utah Northern Conf. – Layton, UT
- TBD: Wyoming Assoc. of Rural Water Systems Fall Conf.
- TBD: Wyoming Water Quality & Pollution Control Assoc. – Casper, WY
- TBD: Colorado Rural Water Assoc. – Grand Junction, CO
- TBD: Joint Engineering Conf./Montana Engineering Society – Helena, MT

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West

COLORADO, UTAH, WYOMING AND MONTANA

- Feb. 3-4: Wyoming Engineering Society – Cheyenne, WY
- Feb. 7-9: National Rural Water Assoc. Rally – Wash. DC
- Feb. 15-18: Colorado Rural Water Assoc. – Colorado Springs, CO
- Feb. 23-25: Montana Rural Water Systems – Great Falls, MT
- March 1-3: Rural Water Assoc. of Utah – St. George, UT
- April 26-29: Wyoming Assoc. of Rural Water Systems – Casper, WY
- TBD: CST Storage Field Days – DeKalb, IL
- May 10-12: APWA/MSAWWA & MWEA – Bozeman, MT
- June 6-10: Wyoming Assoc. of Municipalities – Sheridan, WY
- June 12-16: American Water Works Assoc. Conf. – Washington DC*

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Southwest

ARIZONA, NEW MEXICO AND SOUTHERN NEVADA

- Jan. 24-27: New Mexico Water & Wastewater Assoc. Annual School – Las Cruces, NM
- March 8-10: Nevada Rural Water Assoc. – Reno, NV
- March 8-10: Rural Water Assoc. of Arizona – Phoenix, AZ
- April 11-14: New Mexico Rural Water Assoc. – Albuquerque, NM
- May 4-6: Arizona Water Assoc. – Glendale, AZ
- TBD: CST Storage Field Days – DeKalb, IL
- June 12-16: American Water Works Assoc. Conf. – Washington DC*
- Aug. 30-Sept. 2: League of Arizona Cities & Towns – Tucson, AZ
- Sept. 27-29: Tri-State Seminar On-The-River – Primm, NV
- Oct. 4-6: National Rural Water Assoc. Conf. – Louisville, KY*
- Oct. 15-19: Water Environment Federation-TEC – Los Angeles, CA*

* National show or conference (all Engineering America regional offices will be represented).