

## MUNICIPAL WELL & PUMP

### MWP HIGHLIGHTS

- MWP will participate in WWA Groundwater Seminar in Wisconsin Dells on Feb. 15, 2006
- Dick Milaeger promoted to Vice President of Sales
- Fred Douglass is certified as a Stenner Chemical Feed Pump Technician
- MWP Ends Fiscal Year 2005 with Record Sales Volume

### OTHER FEATURES IN THIS ISSUE

- Airburst & VFD Case Study 2
- Miss Wisconsin 2

Municipal Well & Pump is an Employee Owned Company



WINTER 2006

# The Hole-Water Report

## The President's Update

Nearly four months have passed since a dedicated group of employees took over as the new owner's at Municipal Well and Pump.

I am honored to have been chosen in leading this company. So as I write from the same desk I have sat at for the past 4 years I now write with a renewed energy and also new responsibilities as the President of MWP.

Since joining MWP from a much

larger organization, I have come to appreciate the teamwork and the supportive attitude every employee in this company fosters.



Everyone, YES, every employee, at MWP is excited about the formation of this new group. We hope that you, our customers and vendors, are already or soon will be as encouraged as we are.

Over the years this company has built a very strong nucleus of field and sales professionals who are focused on providing our

customers with the utmost in service and quality.

As the President of MWP, and on behalf of all the employees within this company, I give you our renewed pledge to continually pursue this goal of excellence.

As our mission states we will always do our best to serve you with "Honesty, Integrity and Complete Customer Satisfaction"

*Donald W. Rens*  
President

## Stillman Valley Preserves a Natural Resource - "Water"

July, 2005, the Village of Stillman Valley, IL was required to perform an inspection of their single elevated tower. The Village uses approximately 100,000 gallons of water per day and did not want to simply waste it by pumping off the excess, especially during a time of drought.

To solve the dilemma the MWP Port-A-Tower System was utilized. It was transported, set-up, tested and sampled prior to the elevated tower being drained and inspected.

With the system serving as the

main supply for the Village, the flow rate was adjusted to properly pace the Village demands.

After the inspection period of 2 weeks, it was discovered that repairs and painting were needed and was scheduled for the Fall of 2005.

The system, made up of two separate tanks totaling 7,000 gallons of capacity, was utilized for 8 weeks while the Village performed the repairs to their elevated tower.

In the end the Village gained 4

key benefits by using the MWP Port-A-Tower System:

- Saved energy by not running the well pump continually during down time.
- Provided a safe and constant supply of water to residents.
- Preserved nearly 16,000,000 gallons of water by not pumping off the excess.
- Retained a positive public perception by not wasting a valuable natural resource - "Water"

# Airburst & VFD at Grafton, WI

## Results @ Grafton

- Well performance doubled in production and was better than the original !
- The well pump starts only one time per booster pump operations - saving energy and pump life.

MWP has two ABB certified startup technicians on staff. This provides our customers with an additional one year warranty for a total of two years on an ABB VFD

## MWP Services Provided:

- Pump Design, Installation & Repair
- Well Design & Drilling
- Well Rehab
- Controls & Energy Management
- 24 Hour Emergency Service
- Water Sampling & Evaluation
- General Contracting

September, 2005-MWP was called to Grafton, Wisconsin to address well and pump performance issues.

### Problem #1

The specific capacity had dropped from an original of 43.5 down to 23.3. Additionally, the pump had been lowered 5 year ago to offset additional drawdown of the well. If further degradation of the well continued, it would necessitate a new pump design, additional horsepower requiring modified electrical supply and a deeper pump setting.

### Problem #2

The water is pumped from the well at 500 gpm through a stripping unit rated at 600 gpm and then is pumped from a 30,000 gallon reservoir by a booster pump into the system. Since the well pump was designed to outpace the booster pump, the well pump was starting ten times to every one start of the booster pump.

Test Category	Original	Before Rehab	After Rehab
GPM	1,000	560	500
Pumping Level	123	148	135
Drawdown	23	24	11
Specific Capacity	43.5	23.3	45.5

### MWP Solution #1

After a video log of the well indicating mineral build up, it was determined to use Air-Burst Technology® on the well. Upon completion, the specific capacity increased to 45.5, nearly double what it was prior to rehab. Plus it was better than the original!

As a result, the pump was raised back up to it's original pump setting and the Village avoided the purchase of a higher HP motor, a larger pump, a lower setting and expensive modifications to their electrical system.

### MWP Solution #2

An ABB/Berkley variable fre-

quency drive (VFD) was installed in place of the obsolete 70's vintage reduced voltage starter. With a transducer installed in the reservoir the pump only starts when the water level drops to a programmed level. Additionally, as the pump outpaces the booster pump, the VFD lowers the hertz delivered to the motor which reduces the RPMs that the motor turns. This allows the well pump to pace the booster pump during station operations. Now the well pump starts one time per booster start, the water level stays within "one" inch of the preset level and the start-up surge has been eliminated.

## Miss Wisconsin-USA 2006

Municipal Well & Pump is proud to congratulate Anna Piscitello in being selected as Miss Wisconsin-USA for 2006.

Anna is the daughter of Tom & Barbara Piscitello. Tom is a Pump Superintendent with MWP.

Anna participated in the Miss Wisconsin USA pageant held in Richland Center, WI on October 15, 2005. Anna earned the crown after competing against

32 other young women.

She is currently preparing for the Miss USA Pageant in Baltimore, Maryland. It will air on NBC on April 21st.

Anna is a fitness coach and personal trainer. She aspires to become an actress and singer.

Anna—we wish you the best and God Bless as you participate for Miss USA!

