



A Brief History of the MWU Grad Program

- Established in 2002
 - A collaborative effort of mutual cooperation between MWU and UW-Madison to promote drinking water research
- 9 Completed Master's Thesis Sponsored Excellent work in water quality, flushing, and energy
- Adam Luthin is Grad Student #10 Continues the focus on energy use Anticipated completion 5/2019
- Adam Luthin is Grad Student #10 Continues the focus on energy use
- Time for MOA Renewal: 2018 to 2021

Topics Water Quality Flushing Energy

Benefits

- ■1500 hours per year
- ■MWU Access to UW faculty
- Focused research on specific areas
- Detailed thesis on the work

Accomplishments

- Water Quality

 Chloring Residuals & Righerical
- Chlorine Residuals & Biological Activity
- Flushing

 Effectiveness/Schedule
- Energy
 Pump Efficiencies, Well Pump VFD's, and Managing
 Peak Demand Charges

Water Quality Savings Fairmated \$30,000 labor cost savings through the end of 2017 Flushing Savings Estimated \$430,000 labor cost savings through the end of 2017 Energy Savings Estimated \$95,000 energy cost savings through the end of 2017 Salary Savings Since 2002 and estimated salary savings of over \$500,000 Current Program Cost Approximately \$45,000 per year

