AMERICAN WATER SOLUTIONS LLC Introducing the ISOS™ Intelligent Storage and Optimization System Mitigate Wastewater Overflow Frequency and Duration!

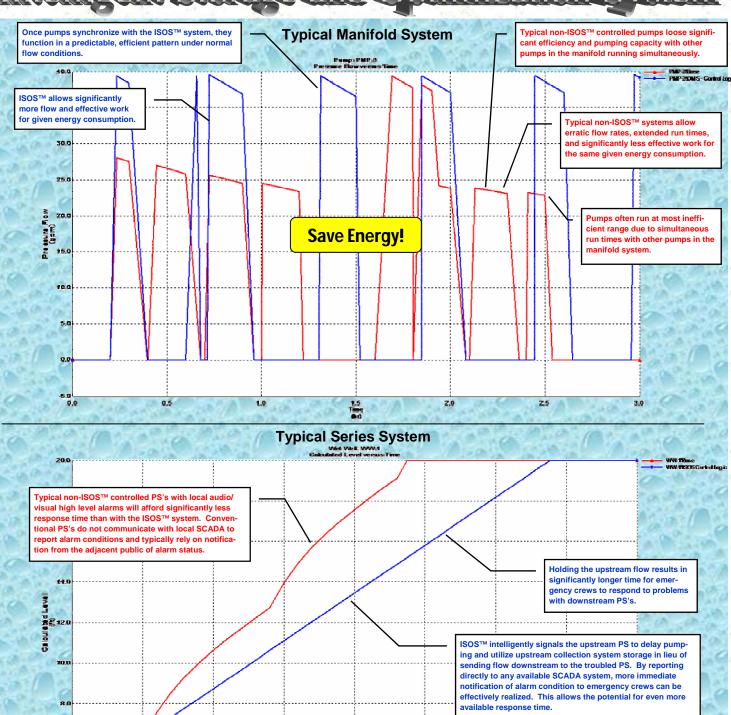
Save Energy! The patent pending AWS ISOS™ Intelligent Storage and Optimization System has been developed for the wastewater industry to cost effectively utilize available collection system storage to mitigate occurrence of unnecessary collection system overflows. Additionally, the ISOS[™] can provide optimum energy usage and pumping efficiency for pump stations connected with a common manifold. AWS and AWSE utilize state of the art sewer modeling software and techniques to develop critical operating thresholds that take advantage of available system storage. With local pump station control and the robust ACT communications data hopper, ISOS™ can communicate with most any existing SCADA system in virtually any communication format to immediately signal pump station status **ISOS™** or trouble. This affords crucial improvements in response time for both repairs and bypass pumping for maintenance crews. Under final development and pilot testing now, the ISOS[™] is scheduled for release in spring 2008. **Conventional Systems AWS ISOS™** Typical PS's have independent wet Master control for downstream PS well level control without consideracommunicates its status to other tion of upstream PS flow patterns, PS's to intelligently alter upstream rates or downstream PS impacts. PS control for maximum pump efficiency and use of system storage. Independent manifold pump control Synchronized pumping between doesn't consider changes in manifold PS's on common manifolds allows pressures which can drastically affect optimum energy usage and effi-APRIL PARTY pump efficiencies and runtimes. ciency, reducing pump run times and mechanical wear. Typical PS's do not communicate with Communication between PS's al-The AWS ISOS™ incorporates other PS's in collection system to lows optimum changes in local conhigh quality microprocessor manage overall collection system trol to best utilize available system storage volumes relative to flow. storage thereby minimizing occurbased components from ACT rence of unnecessary overflows. Inc. for reliability and durability. Typical indication of high alarm is via Downstream PS problems can be Our systems provide a PS audio and/or visual alarm after detected and communicated immetouchpad and display for easy reaching predetermined wet well diately to upstream PS's and availoperator interface. level. No communication w/ SCADA. able SCADA to alter upstream local PS control buying crucial time for Minimize Overflows! pump repair and bypass pumping.

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Minimize Overflows!

1.5

6.0

4.0

0.5

1.0

3.5

4.0

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2.0

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