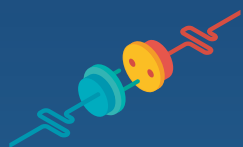




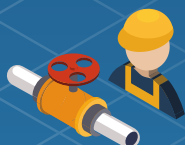
ON CALL SUPPORT



ELECTRICAL WIRING



INSTRUMENTATION  
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PREVENTIVE  
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MAINTENANCE

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White Marsh  
Environmental Systems, Inc.  
1100 South Little Creek Road  
Dover, DE 19901

## Objectives:

- ✓ Accurate Data Collection
- ✓ System Transparency
- ✓ Operational Efficiency

## THE REAL-WORLD CHALLENGE:

*Maximize system efficiency through accurate data collection*

### ✓ BACKGROUND:

An elementary school was facing operational challenges because it had little transparency into the efficiency of its septic system. The system was comprised of multiple zones with valves in each zone, but operators had little way of knowing which valves were working well, which were failing and which were overloading. This was particularly critical when its dosing bed began showing signs of surfacing. The only way to test individual valves was to manually check each valve. This approach was not only time consuming and costly but this manual approach could potentially cause all zones to fail.

### ✓ WMES SOLUTION:

WMES conducted its analysis and determined the best approach was to design a system which interpreted actual flow data. A magnetic meter, programmable logic controller and paperless recorder were installed to capture flow data from each individual zone and to flag those zones producing inefficient flow. Operators could then be alerted to check those valves that were not working properly. All zone flows were logged which provided a history and trend analysis which provided further intelligence about system efficiency.

**White Marsh Environmental Systems, Inc. (WMES) operates water and wastewater systems** under contract for approximately 3,400 residential, commercial and municipal customers. Our expertise includes preventive maintenance and troubleshooting in all areas related to water and wastewater infrastructure. All of our operators, electricians and engineers are certified professionals focused on one goal — to ensure quality, operational excellence and efficiency.

*Let us be your helping hand in achieving your operational goals.*



**Contact us: 302-218-8684**