



## blockage PREDICT

### **Higher Performance, Less Stress** Cleaning Optimization with **blockage PREDICT**<sup>™</sup>

#### The Problem: Conventional Practices Are Not Working

With sewer blockages from grease, roots, sediment and debris being a leading cause of Sanitary Sewer Overflows (SSOs), utilities turn to a cleaning regimen. Typically, the total system is cleaned on a long-term basis while selected "hot spot" locations, each with regularly occurring build-up, are aggressively cleaned at high-frequency.

High-frequency cleaning reduces SSOs, but it comes with the unintended consequence of overcleaning. Utilities are challenged to stay on schedule with limited resources. Moreover, flow behavior changes between cleanings are not detected. Aging pipes raise another concern when regularly exposed to high-pressure sprays.

#### **Relief Through a Smarter Method**

Smart Technology including remote site monitoring with advanced machine learning (ML) algorithms provides utilities with continuous collection system visibility. The new, patent-pending **blockage PREDICT**<sup>™</sup> web app, analyzes all monitored, remote site conditions and identifies developing blockages in their earliest stage, giving the utility advance notice long before problems occur.



# **blockage** PREDICT



#### Easy, Fast Viewing

Login to ADS® PRISM cloud-based software to access the blockage PREDICT results.

$\times$	2 Probable Blockages
BLOCKAG	E PREDICT

Location	Date	Status	Depth Trend
AN_204	09/16/2019	×	
AN_110	09/16/2019		m
AN_96	09/16/2019		
AN 42	09/16/2019		www.

The blockage status of each location is conveyed by one of four simple icons:

**GREEN:** A blockage is not detected based on the ML algorithm. There is no urgency, and no action is needed. You can breathe easy.

YELLOW: A blockage is probable based on the ML algorithm and is in an early stage of development before the sewer has surcharged. The response urgency level is *proactive*, and you may have a few days to a week or more to intervene and prevent an SSO.

**RED:** A blockage is probable based on the ML algorithm and is in a more advanced stage of development after the sewer has surcharged. The response urgency level is *reactive*, and you may have a few days or less to intervene and prevent an SSO.

**GRAY:** Analysis did not run on this site. The ML algorithm has not yet run or does not have any data to evaluate for this date. If this continues, you may want to check the connection or condition of your monitor.

#### **Case Study**

A developing blockage was identified by **blockage PREDICT** and tracked over a 12-day period (note green turning to yellow on upper bar). **blockage PREDICT** identified the initial level change anomaly and tracked the overall 1-inch change in this 15" pipe. Advanced detection meant that the utility simply scheduled a field crew to investigate the site.

What did they find? A stick was discovered lodged and collecting debris at the outgoing sewer pipe. Once removed, flow conditions returned to normal as evidenced on the hydrograph. This utility appreciated the value of **blockage PREDICT's** ability to identify a developing issue and avoid a more severe outcome.



Learn About Blockage Prediction: www.adsenv.com/blockagepredict









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