

# Jefferson County Drainage District NO. 6

Wireless, Solar Powered Site Cameras Provide Flood Control Monitoring.

## CHALLENGE:

Monitoring flood control covering over 1,091 miles of streams, ditches and outfalls.

Established in 1920, Jefferson County Drainage District Number 6 (DD6) services about 53% of Jefferson County, Texas, which includes the cities of Beaumont, Bevil Oaks, Cheek, China, Fannett, LaBelle and Nome and surrounding communities including remote farmland and timberland—an area almost 1/2 the size of Rhode Island. DD6 controls storm and flood waters from over 1,091 miles of streams, rivers, ditches, outfalls, and drains and reclaims overflowed lands.

The DD6 team wanted to cut down on the travel time required to reach critical drainage and water control sites at the Mayhaw Structure and Needmore Structure. They decided that a remote real-time camera would provide the ability to monitor water levels while significantly reducing travel from the offices to the sites. DD6 also wanted to provide 24 hour security monitoring on the downstream side of the Needmore Structure to monitor any and all approaching nautical traffic. Given the remote location of the sites and lack of power and internet, a self-powered camera solution was required.

DD6 settled on Sensera Systems, selecting both the solar-powered MC-68 for general site monitoring, and the solar-powered SiteWatch-PRO camera for site security.

## SOLUTION:

Portable, solar/wireless cameras simplify installation and adapt to fast-moving projects

“I selected the Sensera Systems MC-68 for monitoring requirements at these sites, and the SiteWatch-PRO to monitor nautical traffic approaching the structure. These cameras had the solar and cellular operation we needed for this application, and the high quality pictures and video were useful to us. The cell service at these sites fluctuates a great deal, which can slow image uploads. But the cameras have been robust in that regard. The SiteWatch-PRO camera motion detection works very well for capturing all vessel traffic nearing the structure.”

—Stephen LeBlank, Project Inspector,  
Jefferson County Drainage District NO 6,  
Beaumont, TX

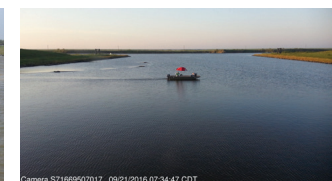
DD6 has deployed Sensera Systems’ MC-68 and SiteWatch-PRO solar/wireless site cameras that include 100% solar operation 24/7, with time-lapse, live video streaming, built-in DVR, LiveView, and motion detection and night vision features.

## TURNKEY SOLUTION

- Complete end-to-end solution –** Camera hardware, cellular data connection, cloud-hosted servers, and ease of use software are all provided in one complete package.
- Solar powered, LiFePo<sub>4</sub> Batteries –** No on-site power required. System is energized by the sun and powered at night by a lithium iron phosphate battery pack. Camera can run on battery power for up to 5 days.
- Real-time, remote monitoring –** Leverage robust remote surveillance and monitoring to ensure safety and productivity when you can't be onsite.



MC-68 Monitoring Mayhaw Structure & Needmore Structure SW



SiteWatch-PRO triggered imaging of nautical traffic near structure

**ABOUT SENSERA SYSTEMS:** Based in Golden, Colorado, Sensera Systems designs, manufactures, and markets products and solutions for integrated remote sensing and security in construction, security, industrial automation, oil & gas, agriculture, and law enforcement. Sensera Systems' patented MultiSense™ Platform and solar powered, wireless camera products are significantly simpler to use and more affordable than existing systems and have been recognized by the industry with multiple awards for innovation and impact. Sensera Systems' products achieve extreme ease of use, high functionality, and low cost by combining solar powered and wireless operation, and tightly integrated hardware and cloud-based monitoring.