

SMARTCOVER

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CAMP PENDLETON MARINE BASE MONITORS REMOTE INFRASTRUCTURE USING SMARTCOVER SYSTEMS

BACKGROUND

Camp Pendleton is the major West Coast base of the United States Marine Corps, located on the Southern California coast, in San Diego County.

Camp Pendleton maintains over 237 miles of widely dispersed infrastructure -- including gravity mains, force mains, and laterals -- ranging from 4 inches in diameter to 36 inches in diameter, 62 lift stations, and 3,140 manholes.

The water system includes 24 wells, 375 miles of water mainlines, and 23 reservoirs.

THE CHALLENGE

Camp Pendleton's 125,547 acres host an independent water supply, multiple sewage treatment plants, telephone and electrical systems. With a daytime population of more than 70,000, Camp Pendleton must maintain its independent capabilities.

As one of the largest military facilities in the United States, Camp Pendleton presents special challenges in terms of managing remote sewer lines, manholes, and lift stations to identify emerging issues -- such as sanitary sewer overflows (SSOs) -- before they become disruptive. Monitoring water levels in water tanks is also key to managing strategic potable water supplies.

THE SOLUTION

Camp Pendleton has over 120 SmartCover units installed at wastewater lift stations, sanitary sewer manholes and potable water reservoirs.

In addition to detecting wet well levels and preventing collection system spills, SmartCover allows military personnel to remotely monitor, manage and assess infrastructure conditions for proactive planning and decision making.

THE RESULTS

Camp Pendleton is monitoring real-time conditions of lift stations, manholes and reservoirs.

SmartCover has enabled them to prevent multiple spills at lift stations due to power, mechanical and/or electronic failures and to improve overall system management efficiency.

SmartCover real-time remote monitoring acts as a "force multiplier" for Camp Pendleton's water and wastewater professionals

SMART INFRASTRUCTURE STANDS GUARD 24/7/365

SUMMARY:

As is the case with most large military bases across the United States, Camp Pendleton Marine Base needs to independently manage water and sewer infrastructure across a very large area, while juggling security concerns, difficult-to-access locations, and sensitive environmental concerns.

SmartCover is unique in the use of military-grade, satellite communications to assure unparalleled uptime -- especially for remote locations and in the case of severe weather affecting conventional cell phone networks.

SmartCover was designed to provide real-time, remotely operated infrastructure to create a "force multiplier" under the most challenging situations.

Water and wastewater professionals are able to respond rapidly and accurately while trend analysis helps them perform more efficiently and prevent latent issues from becoming emergency situations.



Photo credit: LCpl Anabel Abreu Rodriguez

*No confined space entry and
reliable satellite-based communications
are key for rapid deployment*

SmartCoverSystems.com