



## Sanitation Wet Well Manholes Resurfacing

Murphys, California, USA



Completion Date  
**2020**

Owner  
**MURPHYS SANITATION DISTRICT**

Engineer  
**BLACK WATER CONSULTING ENGINEER INC.**

Contractor  
**INTEGRATED WATER SERVICES**

Products  
**BIO-SAN C500, MEGAMIX II WITH BIO-SAN, ADMIX C-500**

Project Type  
**WET WELLS / PRECAST MANHOLES AND LIDS**



Xypex [Bio-San C500](#) was specified for the waterproofing and microbial induced corrosion protection of two pump station wet wells. However, there were a number of precast units that were inadvertently dosed with Xypex [Admix C-500](#) in place of the Bio-San C500. To ensure the protection from MIC, Xypex [Megamix II with Bio-San](#) was subsequently applied to the interior surface of these precast units at a 3/4" thickness. A total of 120 - 55 lbs bags of [Megamix II with Bio-San](#) were utilized. For those units that were dosed with Bio-San C500, a total of 150 lbs of the Bio-San C500 additive was incorporated into the concrete for the wet well lids, thus providing the requisite waterproofing and MIC protection.



Blackwater Engineers were satisfied with the concrete's long-term protection that included a combination of Admix C-500, Megamix II with Bio-San and Bio-San C500.