

## Bioaugmentation Program At Cinderella Dam – Case Study

A sewerage blockage occurred, that overflowed from a manhole, into the Cinderella dam over a period of time. Avantu was informed that approximately 690 000lt of raw sewerage had spilt into the dam over that period and the primary problem was the smell, many fish were dying and the water in the dam had become black from the sewerage.



The program was to biodegrade the sewerage effluent that had spilt into the dam with Pitking, Fatking and FSR301, to eliminate the smell and to implement a desludge process of the anaerobic sludge buildup that had occurred over the years.

**28 MAY 2004 6 DAYS AFTER DOSING COMMENCED**  
**THE SMELL HAD DISAPATED AND THE WATER**  
**STARTED BECOMING CLEARER**



There were section of the dam were the reeds were starting to fall over due to the anaerobic sludge that they were rooted in was being biodegraded.



Evidence is in the photos below, taken on 7; and 17 September 2004 as to the indication of further and continued contamination of the Cinderella Dam at the Reiger-park storm water inlet. Within a matter of ten days, the spillage once again was cleared by means of the bio-augmentation process.



4 months after dosing commenced the Cinderella dam is once again offering the public the use of the dam as a recreational body of water for all good reasons, may it be for club sport events or SAP training status.

