



Case History 307

Case History
SEWAGE TREATMENT

ENVIRO SCRUB®

Background

A pulp and paper mill was processing 500 gpm (720,000 gallons per day) of sludge, with 3% solids, through four presses. The dewatered solids are burned, and the filtrate is returned to the waste treatment system.

now using **ENVIRO-SCRUB®** to control this point source.

H₂S, present in the sludge, is liberated at the presses. The levels typically run from 40-100 ppm. However, levels spike to ≈750 ppm, depending on throughput volumes and feed composition.

Solution

We tested **ENVIRO-SCRUB®** continuously injecting varying amounts of product directly into the diluted sludge. We added the product at the suction side of the surge tank pump. H₂S levels were monitored both in the vapor phase off of the presses and the filtrate. **ENVIRO-SCRUB®** reduced H₂S levels to 10 ppm or less during a twenty-four hour test.

Results

The mill is currently using the product during spike (H₂S) periods. The injection pump is activated and H₂S levels are reduced within fifteen minutes. The mill plans to automate the feed pump to be activated based on the monitored H₂S levels.

A second forty-eight hour test was conducted by plant personnel with the same results. Treating rates were found to be acceptable from both an economic and efficiency standpoint. The mill is