

PROJECT DESCRIPTION

Odor Abatement System BELOEIL CITY WASTE WATER PLANT Beloeil, QC

PROJECT SCOPE

The project consisted in treatment of Exhaust gaz emission coming from a municipal waste water plant, to minimized complaints and odor around the plant.

Mesar / Environair was mandated to provide engineering and supply of a scrubbing system to the municipal facility of Beloeil in Québec.



At Beloeil plant, the waste stream to be treated contains contaminants which were ammonia and hydrogen sulfide.

The treatment system consists in a packed tower scrubber unit using diluted sulfuric acid to control ammonia emissions.

Other equipment like recirculation pump, metering pump, mist eliminator and fan were supplied to insure a safe system design.

RESULTS

The system was installed in September 1996 as scheduled. Performance trials in the following months showed that the scrubbing system consistently operates, and the plant was then avoiding complaints from residents around the plant.

The system efficiencies were 99% on NH_3 and 96% on H_2S , and the chemical demands were minimized using an advanced control system.