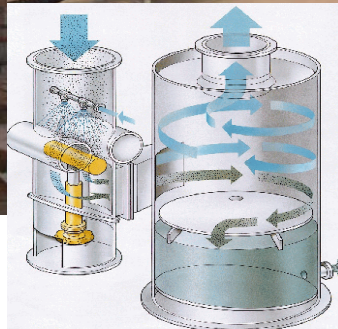


CASE STUDY #8058

ODOUR CONTROL FOR WASTEWATER TREATMENT



PROBLEM

An Ontario municipal wastewater pumping station located in a residential area was source of nuisance odour complaints. Hydrogen sulphide levels as high as 120 ppm have been regularly recorded at this location. Industrial operations discharging to this sewer line have greatly increased organic loading to this system resulting in the formation of odorous gases before being received at a wastewater treatment plant down line.

SOLUTION

ALTECH Technology Systems conducted a pilot demonstration with System REITHER™ Venturi Air Scrubber. This patented design is very well suited for controlling odours in situations with limited available space and where high air contaminated removal efficiencies are needed. Scrubbing fluid with 1.5% caustic and peroxide concentration was used to remove hydrogen sulphide and other related odorous gases. The trial was conducted over a 2 day time period where hydrogen sulphide levels ranged from 20 to 110 ppm.

RESULTS

The pilot demonstration achieved >99% removal of hydrogen sulphide for the duration of the trial. On site observers did not detect any odorous gases from the treatment air at the exhaust vent of the air scrubber. New advances in venturi design have many advantages over traditional packed bed scrubbers such as small footprint, low water use and high airborne contaminate removal efficiencies. A 1000 cfm System REITHER™ ventrui air scrubber has been proposed for this application.

See Successful Project Examples, overleaf.

For more information or advice, contact
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