CLAIMS

1. A system for removing hydrogen peroxide from wastewater, the system comprising:

a first reaction tank having an inlet fluidly connectable to a source of the wastewater;

a source of dilution water having a lower concentration of hydrogen peroxide than the wastewater in fluid communication with the inlet of the first reaction tank;

a source of ferrous salt in fluid communication with the first reaction tank;

a source of acid in fluid communication with the first reaction tank;

a second reaction tank having an inlet in fluid communication with an outlet of the first reaction tank;

a source of a base in fluid communication with the second reaction tank; and

a microfilter concentration tank having an inlet in fluid communication with an outlet of the second reaction tank.