

lington. We have initiated a very pro-active strategy to work with academia, industry, and State/local governments to establish communication links to foster and facilitate the transfer of information on new technology.

The prevention of waste rather than the control of pollution already generated is recognized as the most environmentally responsible approach. Toward this end we have initiated cooperative efforts with industry and academia to look at several management approaches that can provide an effective alternative to the traditional regulation of pollution at the end-of-the-pipe. The alternative approaches include: reduction at source; recovery and reuse; recycling; treatment and disposal.

FEASIBILITY STUDY OF GROUND WATER DETOXIFICATION

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Abstract

Computer simulation programs have been written to predict the performance of air/stream stripping for a non-ideal tray tower and a packed tower. Seventeen chlorinated hydrocarbons were considered in the contaminated ground water. The Henry constants for these organic contaminants range from 0.12 MPa (1.2 atm) of dichloroethyl ether (DCEE) to 169 MPa (1680 atm) of carbon tetrachloride.

The economics study indicated that the treatment cost of a packed tower is more economical than that of a tray tower. Based on 30 gpm (110 l/min) water flow rate and dichloroethyl ether (DCEE) as the key component, the treatment cost of air stripping is 5.6 ¢/gal for the tray tower, while for the packed tower the treatment cost is 3 ¢/gal.

USE OF ULTRAVIOLET IRRADIATION AND HYDROGEN PEROXIDE FOR THE CONTROL OF SOLVENT CONTAMINATION IN SMALL WATER UTILITIES

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Abstract

The U.S. Environmental Protection Agency has recently regulated several industrial solvents. The treatment technologies available for these contami-