

# First ATAD System in North America Features **Turborator**<sup>®</sup> Technology



## District of Salmon Arm Water Pollution Control Centre

Owner: District of Salmon Arm

Engineers: Dayton & Knight Ltd.

The District of Salmon Arm Water Pollution Control Centre was completed in several stages through 1987 to 1989 as a trickling filter solids contact facility and was designed and functions as enhanced biological nutrient treatment facility removing phosphorus and ammonia from the effluent, without chemical addition. The facility also includes the first North American autothermal thermophilic aerobic digester for stabilizing municipal sludges. The upper tank in the above photograph illustrates the four Turborator mixer aerators installed in the three digester cells. Temperatures consistently meet the 55 to 65°C design objectives and ensure the pasteurization of stabilized solids before the solids are used as soil conditioner on District property. The lower part of the photograph illustrates a portion of the biological nutrient removal process. The photograph was taken from the 6.1 m deep trickling filter towers.