

Association of Professional Engineers and Geoscientists
Of the
Province of Manitoba

Achievement Award

presented to

**THE CITY OF BRANDON
AND EARTH TECH CANADA INC.**

for the

MAPLE LEAF MEATS WASTEWATER TREATMENT FACILITY

The Certificate of Engineering Achievement is awarded to The City of Brandon and Earth Tech Canada Inc. for the Maple Leaf Meats Wastewater Treatment facility in Brandon, Manitoba.

The successful completion of the Maple Leaf Meats Wastewater Treatment Facility (WWTF), on time and within budget, was the result of the hard work and leadership of The City of Brandon and Earth Tech Canada Inc. Participation from various other provincial departments, and numerous equipment suppliers and contractors, is also acknowledged.

The project offered many challenges to the engineering team. Due to the need to meet the operational date of the Maple Leaf Meats Hog Processing Facility, the schedule was a very tight 18 months. This included conceptual design, the environmental license application process, and final commissioning of the treatment facility. In addition, The City and the Province, which funded the construction of this facility, had only limited financial resources. Therefore, one of the key objectives of the project was to provide a reliable but low cost facility, which would meet the tight regulatory effluent discharge limits for the protection of the Assiniboine River. The City also had only limited experienced staff resources to operate an additional facility and so one of the challenges was to provide a simple-to-operate facility that required minimum operator efforts in operation and maintenance.

The implementation of the hog processing facility received wide public attention. Generally, the public was skeptical about the commitment from both Maple Leaf Meats and The City to provide facilities that would adequately address the environmental impact concerns. These concerns included odour generation, impact of the wastewater discharge on the Assiniboine River, as well as the possibility of contamination of the groundwater resource. The hog processing wastewater is also typically strong and difficult to treat. Therefore, careful consideration was required in the selection of the appropriate treatment processes and the detailed design of the facility. Throughout the design process, Earth Tech continued to work with The City in a Client/Consultant partnership, with input from a multi-disciplined Technical Advisory Committee made up of representatives from The City of Brandon, Manitoba Conservation, Manitoba Water Services Board, Manitoba Economic Development Board, the University of Brandon, and Maple Leaf Meats and its consultants.

All of the project's objectives were attained. A cost-effective facility was constructed, on time and within budget, thus strengthening The City's reputation of fulfilling its commitments. The treatment plant is working well within all regulatory requirements. The facility is also easily expandable as the wastewater treatment requirements for the food processing facility grow.

March 4, 2003