



PROBLEM

The Bradford West Gwillimbury Public Utilities Commission ground water development program stagnated over an eight year period despite several efforts to secure new water supplies. The Town of Bradford was reported to have a water capacity that was theoretically below the needs of the community. Therefore the Town could not support growth by means of private development.

APPROACH

Jagger Hims Limited was retained by the P.U.C. to prepare a strategic plan for ground water development. Candidate well sites were identified for detailed investigations. The preferred site was selected on the basis of the potential well yield and the low cost per litre needed to obtain a Permit to Take Water. Detailed site investigations were initiated after consultation with the Ministry of Environment and Energy. The work program included the use of computerized data acquisition equipment to gather sufficient information to adequately address ground water interferences several kilometres away from the well head.

SOLUTION

The study confirmed a sustainable well yield of 19 L/sec (250 Igpm). Mitigation to ensure that private water supplies would not experience interruptions were initiated. Having gone eight years without adding to its municipal water supplies, the P.U.C. was rewarded with a Permit to Take Water for 19 L/sec (250 Igpm). The Strategic Planning Report, a Class Environmental Assessment and the detailed hydrogeologic investigations were successfully completed within 15 months.