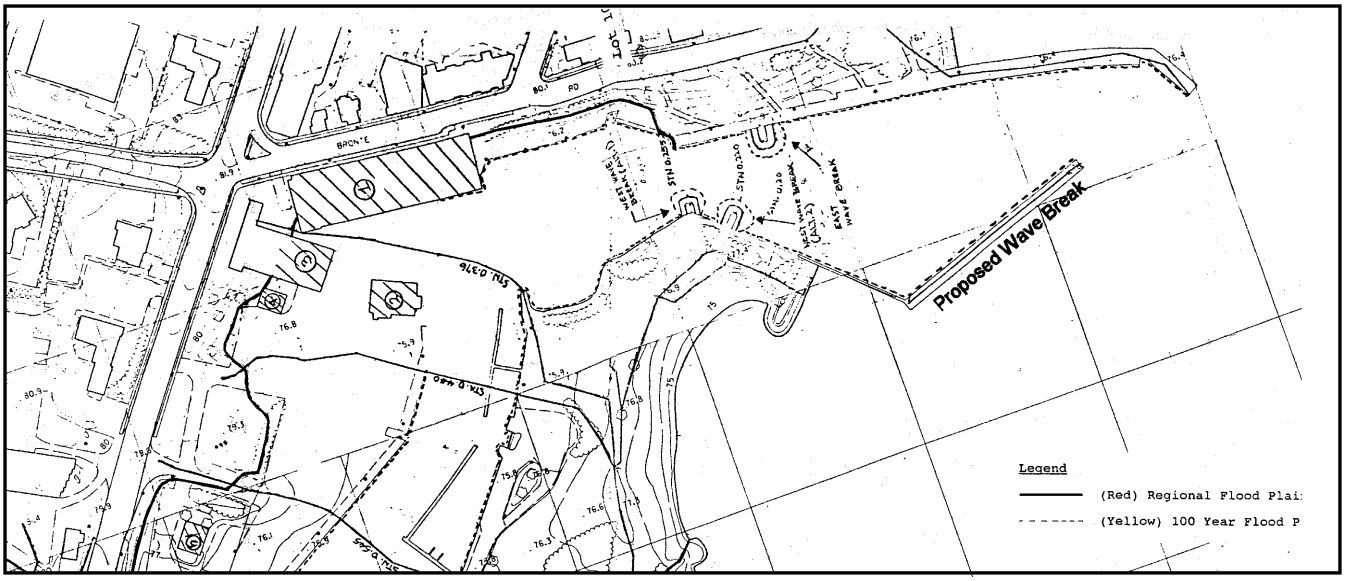
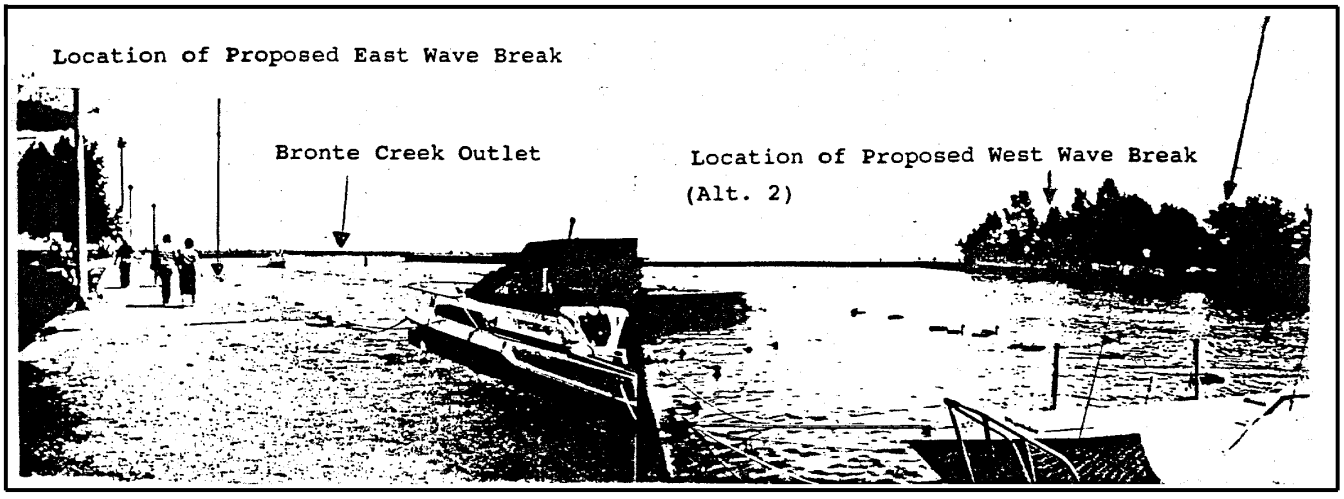
Environmental Hydraulics Group Coastal & River - Environment	Project:	Proposed Wavebreak Construction and Dredging - Hydraulic Structures	1992-431
	Location:	Town of Oakville	
	Client:	Oakville, Ontario	
	Completed:	August 1992	

Description: EHG conducted a study of the hydraulics of Bronte Creek in support of an application for two proposed wavebreak structures under the Lakes and Rivers Improvement Act. The scope of the analysis incorporated the following:

1. Review site construction plans, design reports, sounding data and other related information.
2. Field survey of the bottom of the Bronte Creek channel between Lakeshore Rd. and Rebecca St.
3. Determine the peak flows within the study area for the return periods of 2 to100 years as well as the Regional Storm (Hurricane Hazel).
4. Complete a backwater analysis of the Bronte Creek for both existing and proposed conditions.
5. Comment on potential impacts of the wavebreak on flow velocity, water levels, and ice jamming.
6. Determine the optimal design and location of the wavebreaks for alleviating any potential adverse hydraulic impact due to the proposed structures.

Benefit to the Client: The proposed wavebreak structure was optimized on the basis of location, hydraulic condition, and wave protection to the moored vessels inside the Harbour.





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600 Cochrane Drive, Suite 500, Markham, Ontario, Canada L3R 5K3.
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