



### **PROJECT DESCRIPTION**

Erosion and overwash from storms are long-standing problems at Point Pleasant Park; this is of particular concern with respect to the recreational, archaeological and historic assets along this exposed shore. The exceptional severity of Hurricane Juan (and subsequently, post-tropical storm Noel) exacerbated this problem to the point that restoration works now have to be undertaken.

Coldwater Consulting Ltd. was contracted to develop a shoreline management plan for the park. This involved determination of design wave and water level conditions along the park shoreline; evaluation of processes leading to shoreline erosion; and provision of design guidance for future restoration works. This is a vital step in the implementation of the park's new management plan, elements of which require shore protection that is not just functional but is also in tune with the aesthetic, ecological and recreational sensitivities of the park.

### **CLIENT**

Halifax Regional Municipality

### **LOCATION**

Halifax, NS

### **DATE**

2008

### **DESIGN APPROACH**

The conceptual shore protection designs include: extended revetment around the bluffs; cobble uprush protection along portions of the Northwest Arm; revetment forming a berm around the Point Pleasant Battery; and pocket beaches for both the south and east shores. This is combined with groins along the east shore and back-shore slope protection along both shorelines.

These conceptual designs allowed the development of appropriate design criteria (water levels, wave heights) along the park shoreline. Planning level cost estimates for the restoration works were also developed.

