

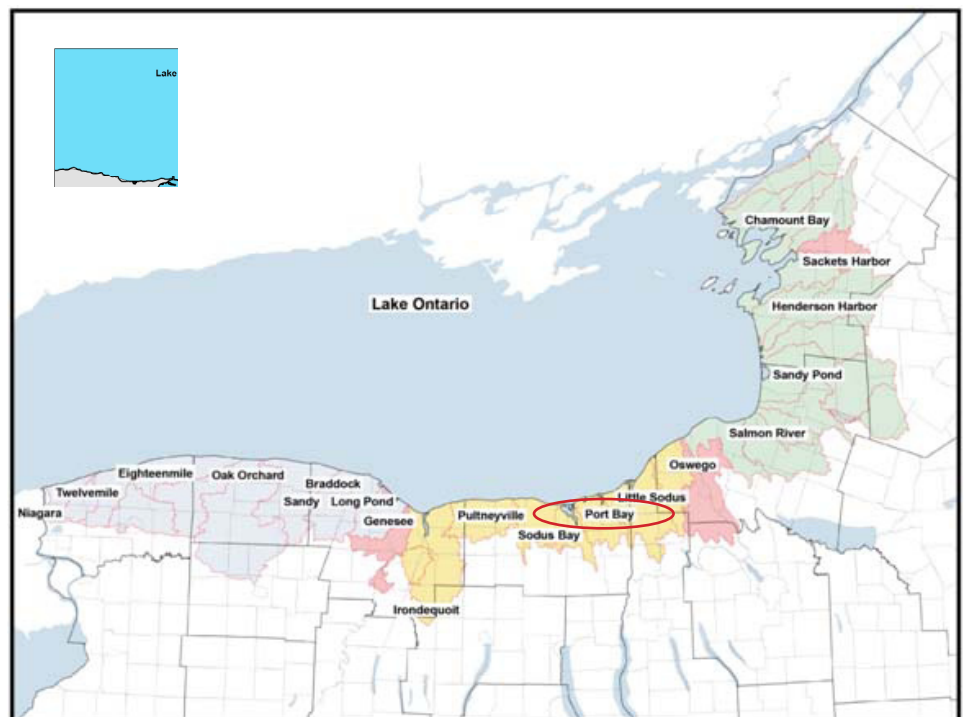
## Port Bay Wayne County, New York

Located midway between Rochester and Oswego, New York, Port Bay is one of southern Lake Ontario's larger but relatively shallow (<25 feet) embayments. The perimeter of the bay is primarily residential, but portions of the shoreline and watershed are part of the Lake Shores Marshes Wildlife Area. Wolcott Creek is the major tributary of Port Bay and drains ~27 mi<sup>2</sup> of land that is mostly in agriculture. The bay receives treated effluent from the Village of Wolcott Sewage Treatment Plant. Port Bay suffers from cultural eutrophication and is on the New York State 303d list of Impaired Waters due to an overabundance of phosphorus. Benthic anoxia is a major effect of this eutrophication. Port Bay is impacted by nuisance algae, and harmful algal blooms have been observed (Makarewicz et al. 2009). This short report provides a synopsis of data collected monthly from May through September (2003 to 2009) on the water quality of Port Bay and the lakeside (swimmable depth) of Lake Ontario near the bay.

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*Port Bay, New York*



*Map of Lake Ontario. Insert: Port Bay, New York*

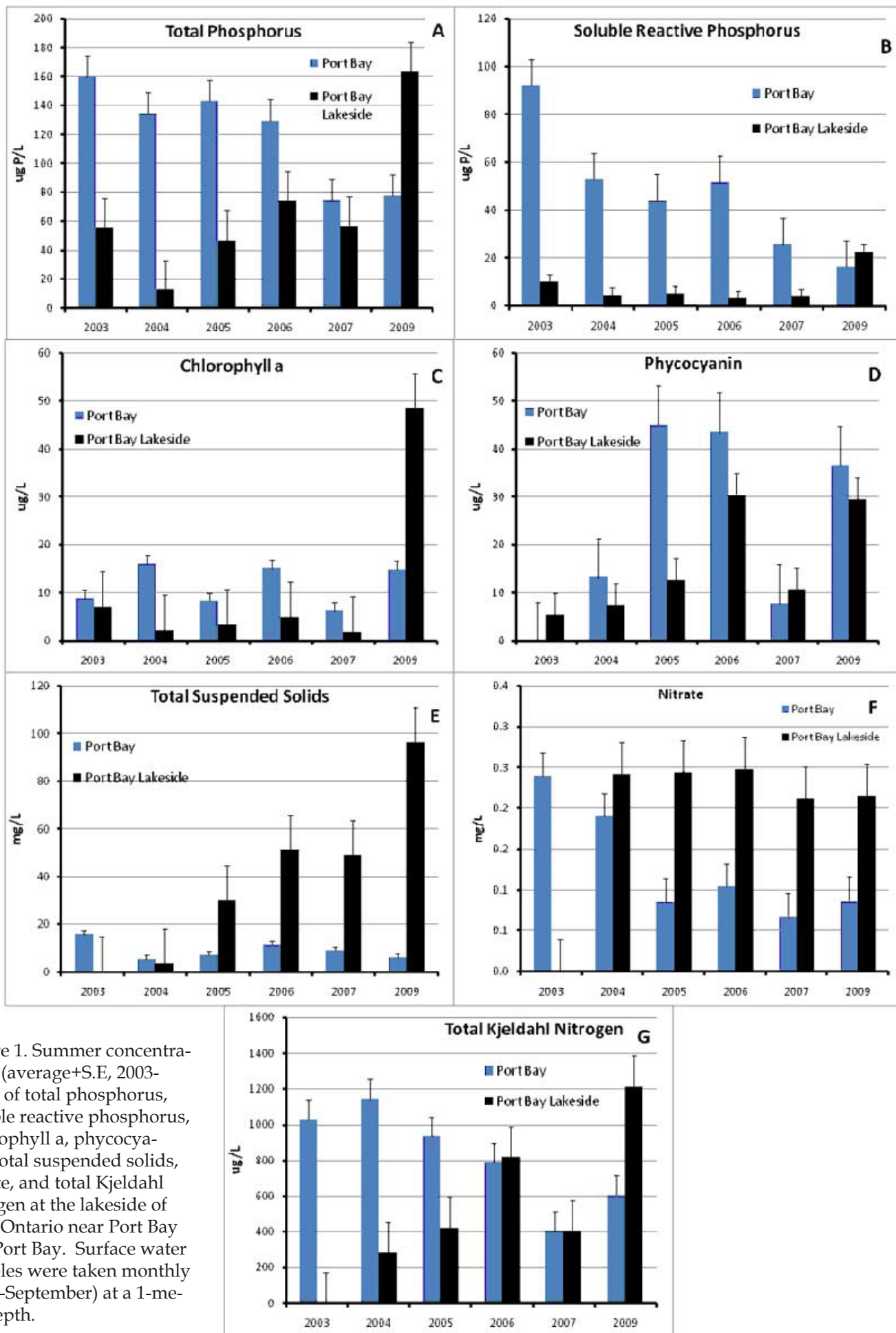


Figure 1. Summer concentrations (average+S.E, 2003-2009) of total phosphorus, soluble reactive phosphorus, chlorophyll a, phycocyanin, total suspended solids, nitrate, and total Kjeldahl nitrogen at the lakeside of Lake Ontario near Port Bay and Port Bay. Surface water samples were taken monthly (May-September) at a 1-meter depth.