

# REPORT

UPON THE

## WATER AVAILABLE FROM THE HUMBER WATER-SHED

By WILLIS CHIPMAN, C.E.

*To the President and Directors of the Georgian Bay Ship Canal and Power Aqueduct Company:*

GENTLEMEN,—I beg to submit the following report upon the water-shed of the River Humber, and the amount of water available for power and other purposes that can be utilized.

### RIVER DESCRIBED.

The River Humber discharges into Lake Ontario about half a mile from the present western limit of the City of Toronto. From the outlet to Bloor Street, a distance of about two miles, there is no rapid or fall to obstruct navigation for light draught vessels, but above Bloor Street the stream is broken with rapids. The distance from the head of the longest branch of the river to the outlet is about thirty-five miles. The high lands at this point have an elevation of about 1,000 feet above Lake Ontario, the fall in the streams being greater in the northern part of the water-shed than in the southern portion.

About two and one-half miles above Weston, and ten miles from Lake Ontario, the west branch of the Humber joins the main river. At Woodbridge, fourteen and one-half miles from the lake, the east branch comes in.

The elevation along the river at different points is approximately as follows:

POINT.	Distance from the Lake.	Elevation above Lake Ontario.
Outlet at Lake Ontario.....	0 Miles.	0 Feet.
Crest of Dam, Lambton.....	3 "	59½ "
Crest of Wadsworth Dam, Weston.....	7 "	151 "
Junction West Humber.....	9½ "	163(?) "
Town Line, York and Vaughan.....	13 "	199(?) "
Junction East Humber.....	14½ "	225(?) "
Main Branch at Kleinburg.....	17 "	339 "
East Branch at Kleinburg.....	17 "	361 "
Town Line, Vaughan and King, East Branch.....	28 "	450 "