upper end of Section No. 2, the readway along the bank will still possess a height above the new level of at least twelve feet, a margin amply sufficient to prevent any overflow above the dam, during high water in the river at any season of the year.

During a portion of last winter, a natural dam of ice was actually formed across the lower end of this channel, and raised the water above it to about the level which will be attained when the permanent dam is constructed. No damage was sustained by the farmers in the neighbourhood.

The writer has examined the banks of the river between the site of the proposed dam and Lachine and finds them amply high; also the banks on the opposite side of the river.

That the erection of this dam will be followed by the packing back of the water to the lake above, was referred to in the first instance, and the probable raising of the lake level, with its tributary streams also. The precise amount of this "pack," cannot be determined definitely at present, except with great trouble and expense, it will therefore be necessary before the work is commenced, to establish numerous bench marks along the margin of the river and lake, to define the original level of the water, and to serve as means of determining with exactness the amount of the pack at those points and consequent damage to land, if any is sustained on low levels, or otherwise.

I is scarcely necessary to observe that an increased height to the level of Lake St. Louis (a shallow sheet of water), together with the increased draft of water down the river and rapids, consequent on the erection of the dam, will be of great benefit to the navigation during the season of low water.

It is thought the foregoing information, together with the sections and soundings shewn on the plan, will cover the ground required in Mr. Page's letter.

> CHARLES LEGGE, Civil Engineer.

Montreal, November 4th, 1867.