depth to make it secure against the encroachments of the river. Experimental soundings by test piling and sinking a number of iron test-bars at various points, all over the pit, will then decide the question whether piling all over or partially is necessary or not. From present indications I am fully satisfied that a good and efficient foundation can be made for the support of the Brooklyn tower, without any unusual expenditure of either money or time. If all the timber is contracted for during this fall, so that it can be got out during next winter and delivered next season, I entertain little doubt that the Brooklyn foundation may be successfully completed during the course of next year.

No boring has been attempted yet on the New York shore. The boring on the Brooklyn side will be stopped at a depth of 100 to 150 feet, or as soon as rock has been reached. The machinery will then be transferred to near Pier No. 29, New York side and a bore hole commenced. There a greater depth of water will at once be encountered. From numerous inquiries which I have made, I have learned that the piles which are driven in the construction of docks along the East River on the New York shore, take a firm hold in a layer of coarse and solid gravel, which underlies the mud. If this is so this fact would indicate a similar nature of the river bed, as we find on the opposite shore. But no matter what may be encountered, I do not entertain the slightest doubt, that a good and efficient foundation can be obtained on the New York shore as well as on the Brooklyn side.