

scows out of the Harbour, and both at this place and the Ferry Landing a day was frequently lost from this cause. The work of the season has been altogether—

	Days.	Cub. Yards.	Cub. Yards.	
Godard's Mills,	24	11,286	470.25	per day.
Jouett's Mills,	18	14,877	826.5	"
Ferry Landing,	45	5,400	120	"
Adams' Wharf,	15	2,862	191	"
Grand Lake,	26	13,014	501	"

In explanation of the discrepancy between the quantities per day at the Ferry Landing and Adams' Wharf, it must be observed, that at the former the Machine was left at every tide perfectly dry, whilst at Adams' she could work at low water, and, as at the Landing, till the water was fifteen feet deep. Beyond this depth, the bucket-ways became too steep for digging, and the flood tide was consequently lost at both places. At Jouett's Mills the material was soft mud, and the Machine made fifteen hours good work per day. The calculation of quantities is from the scow loads removed, each load being 50 tons, or 27 cubic yards. To correct this quantity, at the Grand Lake an exact measurement was taken of the ground gone over. The length of the cut being 1260 yards, the width 16 feet, and the average depth 6 feet. Multiplying these quantities together, gives a total of 13,440 cubic yards, which is within three per cent. of the quantity as calculated above.

During the time the Machine was at Saint John, the fuel used was principally Pictou coal, and the consumption per day was about two chaldrons, at an average cost of 27s. 6d. per chaldron. On the Grand Lake the fuel used has been hardwood, and the consumption from two to two and a half cords per day, the price being about 20s. per cord piled 6 feet high. The difference of cost between wood and coal would appear therefore to be in favour of the former.

The net disbursements on account of the Dredging Machine during the fiscal year ending October 31, 1857, amounted to £1,305 18 6, after deducting the sums received from the undermentioned parties, for work executed for them :—

Messrs. Jouett & Co.,	-	-	-	-	-	-	£144	0	0
Mr. Josiah Adams,	-	-	-	-	-	-	36	0	0
Mr. John Godard,	-	-	-	-	-	-	208	0	0

To each of these parties a Circular was addressed from the Office of the Board of Works, of which the following is a copy :—

Board of Works, Fredericton, 30th Sept. 1857.

GENTLEMEN,—Be kind enough to send, for the information of the Chief Commissioner, the dimensions of the cut made by the Dredge at your Wharf, the value that you attach to the improvement, and any remarks or suggestions that may occur to you, relative to the employment of the Machine in similar localities.

Yours most respectfully,

ASA COY, *Secretary.*

The replies that have been received to this communication are given in Appendix H.

The operations of the Dredge for the ensuing season should be principally directed to the Oromocto Shoals, where nothing has been done last year, and where the experience of the past season leads to the expectation that a deep water channel could be maintained. The portion excavated the year before does not appear to have been materially injured or filled up by the freshets or accumulation of sand that is yearly being deposited in the neighbourhood.

Much additional expense has been occasioned the past year by the repeated removal of the Dredge from place to place, and by repairs and damage incident to the work in the tide-way. For the ensuing season it is anticipated that these sources of expenditure may be diminished, and the estimate for all purposes for next year is consequently £1100.