ANNUAL REPORT OF THE CHIEF OF ENGINEERS TO THE SECRETARY OF WAR FOR THE YEAR 1870

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SAUGATUCK HARBOR

Owing to the lateness of the season, after the plans and estimates for the improvement of this harbor had been made, a contract with R. A. Conolly was executed August 2, 1869, without the usual advertising for furnishing and driving piles and framing timber, at the following rates:

For furnishing oak piles, at 13 cents per foot.

For furnishing beech piles, at 10 cents per foot.

For furnishing hemlock piles, at 8 cents per foot.

For driving piles, \$2 each.

For framing putting in place, and bolting timber, 13 cents per lineal foot of timber used in construction.

This contract expired October 31, 1869. Owing to causes over which the contractor had no control, he failed to complete his work, and the contract was extended to August 30, 1870, at which time he fully hopes to finish the work. The timber iron slabs and stone were bought in open market. During the fiscal year, 1,200 feet of revetment (shown in black on accompanying tracing) were completed. The following are the items of expenditures during the fiscal year:

135,864 feet board measure pine timber, at \$11.50 per M	
403 piles driven, at 2 per pile806.006,826 lineal feet timber framed, at 13 cents per lineal foot887.38Transportation of iron from Chicago55.02Superintendence1,305.20Office expenses345.74	_ 3,399.34
Part payment of dredge	11,725.57 1,500.00
Total expenditures	. 13,225.57
Amount alloted	\$30,000.00 13,225.57
Amount unexpended July 1, 1870, (which amount will be expended in carrying out the existing contract)	16,774.43
Appropriated by act approved July 12, 1870	10,000.00

The long slab pier on the south side of the channel works under the influence of a northwest sea and it may be necessary to secure it by a facing and backing of piles. This will cost about \$6,000. The remaining \$4,000 will most probably have to be used next spring in dredging a channel along the face of the revetment now being built.

I would renew my recommendation of last year to build out a north pier and to revet the channel bank on north side, as shown in accompanying sketch. The cost of this, together with the necessary dredging, would be \$59,300.98, which sum can be profitably expended during the fiscal year ending June 30, 1872.

Saugatuck is in the collection district of Grand Haven. It is not a port of entry.

There is a light-house of the sixth order on the north bank of the river situated on a rise of 18 feet.

ENTERED Articles	Quantity
Vessels number Tonnage Crews	994 117,376 7,331
Lumber M feet Shingles M Pickets M Wood cords Railroad ties Hides bundles Merchandise packag	4,309 6,184 100 195 2,000 11,287 es. 162
CLEARED Articles	Quantity
Vessels number Tonnage Crews	1,025 114,314 7,511
Lumber M feet Lath M Shingles M Pickets M Staves M Wood cords Bark cords Railroad ties Peaches bushels. Flour barrels Leather pounds Merchandise packag	45,481 5,291 64,445 100 51 5,086 60 44,100 3,900 770 483,666 les. 398