

feet in diameter, and it contains four circular and seven No. 1 base-burner lamps, with 15-inch reflectors, and is kept in excellent order.

James Cummins, the keeper, has no family.

An oil house is very much required, as the lighthouse is crowded with oil tanks up to the third flat, which is very dangerous in case of an accident taking place.

The size of the glass of lantern is 14 x 12 inches, which much obscures the light.

#### MIDDLE ISLAND.

Called at this Station on the 12th July, at noon, being unable to land at Pelee Reef on our way, there being too much sea. The tower is a white square wooden building on stone foundation, 49 feet from base to vane, and shows a red fixed catoptric light, from an iron lantern, 6 feet in diameter, containing five mammoth flat-wick lamps, with 16-inch reflectors, and should be seen eight miles in clear weather. Size of the glass is 30 x 36 inches, and of the ruby glass, 20 x 20 inches.

L. S. Brown is the keeper, who has everything in very good order.

Lower story of lighthouse requires to be lathed and plastered, and floor laid; two new windows are required, some plastering to be done on the second flat. The keeper offers to do the whole for the sum of \$75; outside walls require cementing. I recommend that the keeper should do the work at once.

#### BAR POINT LIGHTSHIP.

Arrived alongside the lightship on the 13th July, at 7.30 a.m. This vessel is built of wood and painted red, with "Bar Point" in white letters on her sides; she shows two lights, one red and one white; the lanterns are of the dioptric order, and are hoisted on the foremast 48 and 40 feet above the deck, and should be seen five miles.

I found the vessel in very good order.

The fore part of the deck requires caulking; no other repairs needed this year. Hugh Manson is the keeper; he has no family.

#### BOIS BLANC ISLAND.

Arrived at this Station at 10 a.m., 13th July; landed stores and oil; inspected the lighthouse and found everything in very good condition; the explosion of the lamps having caused no damage to the lantern or building.

This is a white circular stone tower, 40 feet high from base to vane; it has an iron lantern, 8 feet in diameter, containing six lamps, five mammoth flat-wicks, and one No. 1 base-burner lamps, with three 18-inch and three 16-inch reflectors; size of glass, 14 x 12½ inches. An oil-shed is very much needed here, as all the oil is now kept in the lighthouse; a building of 14 x 18 feet would be most suitable.

The pier or breakwater, which protects the shore and lighthouse from the sea and ice, is in a very bad condition, and needs extensive repairs; it is very rotten; the inner stringer is entirely gone, as also the ties; the outer timber, which is of oak, is gone and rotten in many places. The length of the pier on the south side is 492 feet; north angle, 157 feet, making a total of 649 feet; it is 9 feet wide to the back stringer; the ties are 6 feet apart; stone will also be required to fill in the pier to the level of top stringer.

The range lights were also in very good order.

The main light requires pointing and whitewashing.

The keeper states that the plan of the land required for lighthouse purposes has been forwarded to Ottawa to the Department.

Andrew Hackett is keeper, and his family number six.

#### RIVER THAMES.

This Station was reached on the 13th July. It is a white stone circular tower 30 feet in height from base to vane, with a lantern of iron 7 feet 6 inches in