

The river is about 20 miles wide at this point. Tides vary between eight and 18 feet and the water is 27 feet deep at low tide.

The river bottom consists of glacial till, a hard, sandy clay. To level the site for the structure, the spot will first be dredged. Next, a 25-ton boom will be dragged along the bottom and finally a layer of stone a foot thick will be laid and boomed again.

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### ENVOY TO LEOPOLDVILLE

The Secretary of State for External Affairs, Mr. Howard Green, announced on June 12 that the Canadian Government had established diplomatic relations with the Republic of the Congo (Léopoldville).

The new Embassy will be under the direction of Mr. Michel Gauvin, at present Acting Consul General in Léopoldville, who will become Chargé d'Affaires. Canada has maintained a Consulate General in Léopoldville since the Congo became independent on June 30, 1960.

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### NEW CHURCHILL HARBOUR TUG

Mrs. W.N. Twolan, widow of the former port manager at Churchill harbour, sponsored the new tug "W.N. Twolan" when it was launched on June 1 at the yards of the builder at Lauzon, Quebec. An address was made on this occasion by Mr. Jacques Flynn, the Minister of Mines and Technical Surveys.

The twin-screw craft named in honour of the former port manager is powered by two diesel engines of 700 h.p. each. It has full equipment for general harbour and towing duties and accommodation provided for a crew of ten. Operating equipment includes a self-rendering hydraulic-type towing winch, an electrically-driven windlass and the latest navigation aids, including radar, radio-telephone, gyro-compass and echo-sounder.

For fire-fighting purposes, the tug is equipped with two fire monitors having a combined capacity of 1,400 gallons a minute at a pressure of 150 pounds a square inch.

Of all-welded steel construction and strengthened for navigation in ice, the 104-foot "W.N. Twolan" has been designed to meet the expanding requirements of Churchill harbour and will prove a valuable addition to the fleet of tugs at the port. It is expected to be ready for operation at Churchill when the navigation season opens in July.

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### COMMONWEALTH FORESTRY MEET

Canada will be represented by a six-member delegation at the Eighth British Commonwealth Forestry Conference, to be held from June 25 to July 28 at Nairobi, Kenya. Participants will come from some 25 Commonwealth countries.

Heading the Canadian group at the conference will be Dr. D.R. Redmond, Director of the Forest Research Branch, Department of Forestry. Other

members of the delegation are: Dr. H. Schwartz, Superintendent of the Ottawa Laboratory, Forest Products Research Branch, Department of Forestry; R.G. McKee, Deputy Minister of Forests, British Columbia Department of Lands and Forests; C.D. Schultz, a Consulting Forest Engineer, representing the Canadian Forestry Association; Dr. C.H.D. Clarke, Chief of the Fish and Wildlife Branch, Ontario Department of Lands and Forests; and Dr. Roy Cameron who was Dominion Forester with the Department of Mines and Resources from 1936 to 1947 and subsequently headed the Geneva office of the Food and Agriculture Organization of the United Nations.

*En route* to East Africa, Dr. Redmond will spend three days in England visiting establishments of the British Forestry Commission in the vicinity of London. With delegates from other countries, he will take part in a pre-conference tour in Southern Rhodesia, from June 18 to 23, and a post-conference tour to the Kenya Coast and Zanzibar from July 30 to August 14, to study forest conditions, management and utilization.

Dr. Schwartz's itinerary *en route* to Kenya will include a two-day stop-over in London, England, for a visit to the Forest Products Laboratory of the British Government. During the return trip, he will visit the Forest Products Laboratory in Stockholm, Sweden, and forest products industries in that country.

Twelve Canadian papers and reports will be presented at Nairobi, including five from the Department of Forestry, two from the Ontario Department of Lands and Forests, one from the Alberta Department of Lands and Forests, one from the Canadian Forestry Association, one from the Eastern Rockies Conservation Board and two from the "Resources-for-Tomorrow" conference held in Montreal in October 1961.

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### LAND-USE SURVEY

The study of land use in Canada is receiving top priority in this year's field programme of the Geographical Branch of the Department of Mines and Technical Surveys. Eight of the Branch's 14 field parties are studying and mapping the use to which land is being put in various parts of Canada. Studies of the Canadian Arctic Archipelago hold second place with four parties at work in the Far North.

Referring to the emphasis being placed on land-use studies, Mines and Technical Surveys Minister Jacques Flynn said: "In the interests of our economy, we must learn to make the best use of our land, whether it be for agriculture, forestry, resource, engineering or urban-development purposes. Regional planning to ensure the best possible usage of land cannot proceed adequately until a complete land-use inventory has been taken".

Federal geographers are this year studying and mapping land use in southwestern Vancouver Island and the lower Fraser River valley in British Columbia, in the Peace River area of Alberta, along the area straddling the southern portion of the provincial boundary between Saskatchewan and Manitoba, in the Niagara Peninsula and along the north shore of Lake

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