

Willans Rotary Air-Pump System.—This is pamphlet No. 50, issued by Willans & Robinson, Limited, Victoria Works, Rugby, Eng., descriptive and illustrating the Muller-Josse patent rotary air-pump system, showing the two most common applications, viz., the shunt and series system. In either case the air is extracted from the condenser by means of an air-ejector, and the condensed steam extracted by means of a separate centrifugal pump drawing the water from the bottom of the condenser.

Robb's Scotch Boilers.—A Bulletin issued by the International Engineering Works, Limited, descriptive of the Robb Scotch marine boiler, showing changes from the standard design in the interests of better circulation, etc. The boiler is fully described in the bulletin, and details of a special economy test, in which the 200 h.p. boiler, operated a widely fluctuating load, showing an average of 73 per cent. efficiency when working under variable conditions up to 50 per cent. overload. The International Engineering Works, Limited, have sales offices, in Toronto, Montreal, Edmonton, Winnipeg and Calgary.

Deutsche Maschinenfabrik, A. G., of Duisburg, Germany, have issued one of the most completely illustrated catalogs that has reached *The Canadian Engineer* office for some time. Its title, "Who We Are and What We Do," indicates the contents. Photographs are shown of the founders and present managers, together with a great many views of the works and offices. In addition, there are over seventy large pages replete with excellent illustrations of installations of the many different kinds of machinery manufactured by this firm. Among their lines are mining machinery, blast furnace plants, steel works and rolling mills, cranes and transporting appliances, ship berths, harbor and wharf-cranes, and structural steel work. The catalog is in English, and is very attractively arranged. It is being distributed by Gerald Lomer, Limited, Fraser Building, Montreal, who are the Canadian agents.

COAST TO COAST.

Dawson, Y.T.—Dawson has still in consideration plans to secure a water service.

Toronto, Ont.—The net profits of the Toronto Hydro-Electric Commission are approximately \$150,000 for the past year. Last year's statement showed a profit of \$13,000.

Toronto, Ont.—Freight service has been promised by January 1st over the C.P.R.'s short line between Toronto and Montreal—e.g., the Campbellford, Lake Ontario and Western Railway.

Toronto, Ont.—Chairman P. W. Ellis of the civic Hydro-Electric Power Commission, has reported for the first nine months of 1913, an increase over the corresponding period of 1912, in sales, 100 per cent.; and in purchase, only 40 per cent.

South Vancouver, B.C.—The proposal that the municipality should construct and control an electric plant is coming more and more into favor among the citizens, though there is still much divergence of opinion upon the question as to whether such a plant can be run economically or not.

Ottawa Ont.—It is understood that President Wilson of the United States has communicated with the Canadian Government suggesting a conference of representatives from the two governments to consider the question of mutual action and possible means of improving boundary waters either for navigation or for power business.

Vancouver, B.C.—A suburban train service will be inaugurated on the line of the Pacific Great Eastern from North Vancouver to Dundarave by December 31 of this year, according to Mr. D'Arcy Tate, vice-president of the road. Already grading is practically finished between North Vancouver and Dundarave, and steel is now being laid.

Calgary, Alta.—The greatest reform in the railway dispatch system of the world has been practically completed. All the C.P.R. trains in Alberta will now be dispatched by telephone instead of telegraph, with the exception of that district from Crow's Nest to Kootenay Landing. Men from Montreal are putting in the apparatus at each of the stations.

Ottawa, Ont.—The public works department at Ottawa has prepared estimates totalling \$50,000,000, an amount exceeding that of last year by about \$2,000,000. This outlay is not necessitated by a large program of new works, but rather those already in progress, by extensive constructions proceeding principally in harbor improvements, dredging, and the construction of drydocks.

Victoria, B.C.—The results of the analysis of water in Elk Lake, made by City Analyst Birch, in view of the possibility of its use as a future water supply, are not encouraging. Mr. Birch states that, roughly speaking, there is four times as much organic matter in Elk Lake as in samples taken from the Goldstream supply. Further experiments are to be made by the analyst.

Vancouver, B.C.—Motors for the automatic gates which have been placed by the C.P.R. to protect its level crossings at the North Vancouver Ferry slip and other docks near the foot of Columbia Avenue, are being installed and the barriers will be ready for service in a few days. The gates will slide up and down on the lift principle. They can be governed individually or collectively.

Vancouver, B.C.—The temporary dam across False Creek near the Main Street bridge built in connection with the reclamation operations, has been completed. The barrier is built of rip-rap filled with loose rock and is intended to keep the material deposited by dredging for the channel west of the bridge from drifting back with the tide. It will be replaced later with a permanent retaining wall.

Vancouver, B.C.—Word has been received in Vancouver of a rock slide which occurred at Sea Bend Bluff, near Ruby Creek, completely covering the double tracks of the C.P.R. with rock debris. Rocks, some of which weigh as much as 100 tons, have buried the track 60 feet deep for a distance of 300 feet. Dynamite is being used to remove the blockade, and a temporary track has been built around the slide.

St. Catharines, Ont.—Track laying on the extensions of the Niagara, St. Catharines and Toronto railway from this city to Niagara-on-the-Lake has been completed, and a temporary passenger service will be opened in two weeks. A spur freight line to Port Weller, the lower entrance to the new Welland Ship Canal, is now open, and material and machinery are being hauled for work on the land excavation on No. 1 section.

Winnipeg, Man.—City officials have inspected the new reservoir on Logan Avenue and McPhillips Street, and report the construction in satisfactory condition, and ready for the pumping in of water. The total cost of the new reservoir, which will hold about 18,000,000 gallons of water, will be about \$300,000, and with the other city reservoirs it will provide a storage of about 24,000,000 gallons of water, or enough to supply the whole city with water for three days in case of need.

Thorold, Ont.—The Confederation Construction Company, contractors for the Government, in the undertaking of