

The Daily Herald.

VOL. IX.

FREDERICTON N. B., THURSDAY, JUNE 9, 1904

NO. 136

THE HEALTH OF THE CITY.

Bacterial Purification of Sewage.

IS POSSIBLE IN CLIMATIC CONDITIONS OF FREDERICTON.

(Specially Written for the Herald.)

NUMBER VII.

To the Editor of the Herald:

Sir,—Having demonstrated the scientific character and pointed out the methods of the processes of bacterial purification of sewage, it becomes our next consideration to assure ourselves of their suitability to our Canadian climate.

We had in Fredericton, during the last winter a temperature once of 42° below zero, several times of from 25° to 32°, and an average of about 20°, possibly more. A system of tank and filterbed purification might work successfully in the milder climate of England and of portions of the United States, which would be useless in the presence of the hard frosts of a Fredericton winter. And therefore, no matter how theoretically perfect a system might be, it would be an unpardonable waste of the people's money to instal such a plant, if there were a reasonable doubt of its complete adaptability to our climatic conditions. The citizens and council representing them may very justly ask for positive information on this point.

The clogging or hindering

Of the Purifying Process.

would take place either in the filter beds, or in the tank, or both.

1. Supposing that action of the filterbeds became in any way interfered with during abnormally severe winter weather, of which there is little likelihood in our climate, as will be seen later, the septic tank alone would effect a purification equal to that accomplished by any average chemical precipitation process. All that would be needed in such a case would be to pass the effluent into the final discharge pipes direct from the septic tank, and the effect would be at least as thorough as that produced by the best chemical purifier yet attained. And it would be only a temporary inconvenience.

2. But trouble might arise from frost in the tank itself. If this were really probable, it would be a conclusive argument against the whole system. On this point may be quoted extracts from an official report made to the Canadian government by the sanitary engineer mentioned in the first of these articles, and by his courtesy available to the writer. It is not practicable, or perhaps proper, to give the whole report, nor is it necessary, for the earlier part traverses the same ground over which these articles have gone. But with reference to

The Effect of Frost

he says that until the past winter comparatively little information had been gained as to the possible extent to which an extremely cold climate might interfere with the automatic action of the 'filling' and discharging valves connected with the contact filter-beds; or to what extent the beds themselves might be penetrated by the frost.

The report alluded to was made after an official visit to Chicago and Davenport, Iowa, for the express purpose of examining into this very matter. The report says, "The most instructive case was that of a plant for dealing with the sewage from the Soldiers' Orphan Home at Davenport, Iowa. This has been in operation throughout the entire winter. And I was informed by the attendant that there had been no hitch whatever in the valve action, and no permanent penetration even of the surface of the beds by the frost."

The fact is that there is sufficient natural heat in the sewage itself, as proved by actual experience, to prevent interference with the valves in the covered chamber by which they are protected. This natural heat has also been shown to be enough to entirely dissipate any thin

crust of frost which might sometimes form upon the upper surface of the beds when full, or during the period of aeration. It will be remembered that one of the essentials of the proper action of the filter beds was that there should be periods of

Rest and Aeration.

This may now be stated to be the allowing to each filter bed a week's rest once a month. "Neither during action nor rest has any permanent effect of frost been perceptible."

From all accounts the winter season this year at Davenport has been quite equal to that of many parts of Canada in severity, and is fairly comparable with that experienced in this city. For instance, the report states that for days and weeks together the temperature had been below zero; and that at the time of the visit alluded to (March 1904) "the ice was but just breaking in the Mississippi, and a thickness of 36 inches was reported at several places." The report concludes:—

"The question of the effect of extreme cold upon the working of the septic tank and contact bed system, is the only one upon which the adaption of this valuable process in Canada can possibly turn. Its efficiency in all other ways has been simply demonstrated by experience during the past few years in many other countries, and from what I have seen this winter I should have no hesitation in recommending its application to sewage purification

In Any Part of Canada

where the climate is not abnormally severe."

It would seem therefore that as far as Fredericton is concerned, there can be no reasonable doubt of the entire success of this system. It obviates the necessity of expensive buildings, pumping engines, large areas of land. It is automatic in action, requires practically no attention, creates no nuisance, is uniform in its working, leaves no residuum of consequence, is effectual and not liable to temporary failure, and altogether appears to be the ideal system required by this city, not only for the disposal of refuse matter but for the purification of our water supply. If then Woodstock should adopt the same plan, and our intake of water were removed above the cemeteries and placed on the other side of the river, we might safely reckon upon typhoid fever and similar diseases becoming a thing of the past, and our city would be as healthy as it is beautiful.

The next paper will deal with cost. Civis.

ON THE RIVER.

Recent Rains Helped Drives --- Aitken's Safe.

Robert Aitken, the well known lumberman, arrived home on Monday night, and reports that prospects are very bright for his drive. His head drive is now in safe waters in the main Aroostook, and the remainder in the Allegash, is expected out in a few days. The recent rains up river helping them considerably.

Cummin's drive on the Allegash, came out last Wednesday.

E. W. Pond and son, who have charge of the upper corporation have given the utmost satisfaction, and the way in which they have cleared up the river above Grand Falls, is spoken of very highly. They met Kilburn's and Cushing's drive on Wednesday and placed it safely over the Falls. Mr. Kilburn, when seen today said the river was never in better shape for driving than at present. Morrison is making good progress with the lower corporation

PNEUMONIA IS FILLING THE HOSPITALS

Every day we hear of someone being taken with pneumonia. The only preventive is to get strong and keep your body healthy. Take Ferrozone which makes the rich red kind of blood that nourishes and stimulates the entire system. "I was all run down and an apt subject for pneumonia," writes A. B. Charters, of Burlington, "when I tried Ferrozone. I didn't believe it was possible for Ferrozone to build me up so quickly. In a few days my appetite improved, color came into my cheeks and I felt stronger. I gained eight pounds and regained my old time vigor through using Ferrozone." Try Ferrozone, it assures health. Price 50c.

Are You Troubled by Sleeplessness?

Over Wrought Nerves Cause the Trouble—Build Up, Fortify the Nervous System With Ferrozone—Then You Will Sleep Soundly.

There is probably no remedy that soothes the nerves and drives away those long nights of wakefulness like Ferrozone. Every person whose sleep is restless should take Ferrozone like Mr. J. H. McGaw who writes from Saskatoon as follows:

"I was bothered with insomnia last summer to such an extent that my health almost broke down. I was frightfully nervous. If I had gone on much longer I would have been a physical wreck. I read about Ferrozone and concluded it was the sort of remedy I needed. I bought six boxes, and took one tablet with every meal. A change was noticeable. I no longer laboured under such great mental excitement, and was able to take things more quietly. Ferrozone improved my digestion, I picked up in spirits and strength, and in a comparatively short time sleep came as soon as my head touched the pillow. Ferrozone completely rehabilitated my system, and has made me a different sort of man altogether."

Don't wait until your condition becomes nervous prostration; it's hard to cure. Take Ferrozone regularly and the cause of your sleepless nights will be removed. It always cures insomnia.

Ferrozone is the greatest health-giver, the most valuable tonic, that money can buy. It will bring you lasting strength, vigor and health, at small cost. Only Ferrozone can do this so be sure that no dishonest dealer substitutes something represented "just as good." No other remedy is as good as Ferrozone, price 50c. per box or six boxes for \$2.50, at all druggists or N. C. Polson & Co., Kingston, Ont.

FOOLS USE WASHES AND SNUFFS

Thinking perhaps they will cure catarrh—but no one ever heard of a genuine cure following such senseless treatments. There is just one prompt and thorough cure for catarrh and it is fragrant healing Catarrhazone which goes right to the root of the trouble. It destroys the germs, heals the inflamed membranes and cures any case no matter how obstinate or long standing. "I experimented for years with catarrh remedies but found Catarrhazone the most rational and satisfactory," writes W. J. MacEachern of Waterville. "It cured me for all time." For a sure cure use only Catarrhazone. Complete outfit, \$1.00; trial size, 25c.

Don't get tired of life and try to kill yourself; there's strawberries and moonlight nights coming to live for.

A childless home is a cheerless home. The maternal instinct exists in every woman, and when it is ungratified she is deprived of much of the happiness of life. It often happens that childlessness is due to some cause which can be removed, and often is removed by the use of Dr. Pierce's Favorite Prescription. The vigor and vitality which this remedy imparts to the delicate womanly organs, puts them in a condition of normal health, the lack of which is often the sole obstruction to maternity. Every woman should read Dr. Pierce's Common Sense Medical Adviser, a book containing 1008 pages and 700 illustrations. It is sent entirely free on receipt of stamps to pay expense of mailing and customs. Send 31 one-cent stamps for the paper bound volume, or 50 stamps for cloth covered. Address Dr. R. V. Pierce, 663 Main Street, Buffalo, N. Y.

Canterbury Station.

(Special Correspondence to the Herald.)

June 4.—A crew of men working for the New Brunswick telephone began putting up poles here yesterday.

Professor Robinson returned missionary work in Japan.

Mr. Herbert Jamieson has set up a hotel. He is doing a fine business. Mr. Jamieson also has fitted up one of the best rigs in the village for hauling sportmen to skiff Lake and commercial travellers to the surrounding districts.

Miss Edie Carr has returned from the young ladies' college at Sackville.

We are sorry to say that death has again visited our community, carrying off one of our oldest and most respected citizens

Mrs. Enoch Dow, in the 74th year of her age.

Mr. Gurn, the bustling tailor of Hawkshaw, is in town today.

A large number of people took in the Linnus dog show, which gave two performances here this week.

Mr. Bartt Keith with his mother and sister of Vancouver, have moved into the house lately purchased and repaired by him.

RELIGIOUS COURTESY.

Baptists Extend Hospitality to Euclid Avenue Methodists.

Baptists and Methodists of Toronto began Sunday to worship together. During the rebuilding of the Euclid avenue Methodist church the congregation has been invited to make use of the Memorial Baptist church, the arrangements to be as follows:

In the morning there is a united service at 11 o'clock. In the evening at 6 15 the Euclid avenue church hold service, which continues until 7 15. At 7 30 the Baptists assemble and hold evening service. The ministers of the two churches, Rev. J. B. Kennedy, of Memorial church, and Rev. L. W. Hill of Euclid avenue, jointly conducted the morning service, and preach the sermon alternately. When the collection is counted each church takes the envelopes of its own adherents and the loose collection is equally divided. The Wednesday prayer meetings are combined.

Lord Strathcona's Gifts to McGill.

The announcement of Lord Strathcona's benefaction of \$20,000 to Manitoba University brings to mind the extraordinary series of gifts that this princely donor has made to the cause of education. If there be any complete record of these, Lord Strathcona alone possesses it; but the list must total several millions of dollars. The Cambridge College (St. John's), which enrolled him when he took an honorary degree at that University, benefited to the extent of \$60,000; and this is but one of many gifts to English institutions. In Canada there is probably not a college of higher learning that has not benefited from his generosity, but his chief interest has always been in McGill University, the University of his adopted city of Montreal. To that University he is known to have given a considerable amount anonymously, and his open benefactions total close on \$600,000, of which the following are the particulars:

Subscriptions for current expenses, '81-2.....	\$ 5,000
Subscriptions for current expenses, '87-8.....	3,000
For book purchases.....	450
For museum.....	150
Endowment for Pension Fund, 1894.....	50,000
Endowments for Botany Chair.....	1,250
For Botanic Garden.....	362
Sessional Lectures, '91-99.....	42,000
Donalds Endowment, R. V. C.....	120,000
Maintenance, etc., of R.V.C.	175,000
Leachnoll Endowment, Medicine.....	50,000
Campbell Memorial Endowment.....	1,500
Chair of Pathology.....	50,000
Dept. of Hygiene.....	50,000
Lady Strathcona Endowment, Medicine.....	50,000
	\$599,212

The T. D. King Shakespeare collection, the joint gift to McGill of Lord Strathcona and Sir William C. Macdonald, consists of 214 volumes, and is valued at about \$5,000. It is the only gift of Lord Strathcona's to the University which was made in kind.

Valuable Silver Gifts.

The best Canadian wheat cereal—Orange Meat—is a nutritious and tasty food. "I not only use it myself, but advise my convalescent patients to use it," says G. M. Stratton, M. D., of Napanee, Ont. Every leading grocer can show samples of heavy silver-plated ware given free for coupons enclosed in every 15c. package. A splendid line of tea and desert spoons in sets of six and three, respectively, a beautiful pattern in a sugar shell, and a handsome new design "butter knife," all of very heavy silver plate, without stamp or advertisement, are among the premiums which may be secured along with this excellent Canadian food.

The reports from the war always lead you to doubt whether it is a fresh battle or a fresh correspondent.

Lever's Y-Z (Wise Head) Disinfectant Soap Powder is better than other soap powders, as it also acts as a disinfectant.

LADY DONEGAL.

Is Now Considered a Great Catch.

London, May 24.—Society here feels that it will not be so very long before the young and beautiful Marchioness of Donegal, furnishes an interesting sequel to the striking romance of her late husband, who died the other day in his 82nd year, leaving her with an only son, 7 months old, who enjoys the distinction of being by a long way the youngest marquis in Great Britain. Blessed as she is with youth and good looks, prophets of Mayfair expect that the marchioness will make a second match of great brilliancy, and say it will not again take the form of a wedding between May and December.

She was Miss Gertrude Violet Twining, of Halifax, N. S., and an orphan, "wife" in December, 1902, she married the Marquis of Donegal. She was then 22, and he was verging on 80. She was reputed to have a snug little fortune. He was short of cash and his Irish estates were much involved, but he was rich in titles.

Nobody imagined when the aged marquis married a third time that the succession in the direct line would be retained and many were the congratulations he and the marchioness received when a son was born to them.

Besides other things that he lacked she had a head for business, and took the management of his property into her own hands. He was on the point of selling the bulk of it to his tenants, through the agency of the Irish land court, but she fixed up the troubles over the rent, with the result that the property has been retained along with the ancient family residence, Chichester Castle.

It is understood that when the conventional period of mourning expires the young marchioness will take a town house and enter society, in which with her youth, vivacity, ambition and good looks, she is likely to make something of a stir.

M. A. P. says: Lady Donegal, who was so unexpectedly widowed recently, was the heroine of a romance of the war. Some four or five years ago she was the affianced bride of a rich and handsome young Australian. Like so many of his countrymen, he volunteered for service in South Africa. But the hardships he endured there proved too much for him, and he died soon after arrival in England. Miss Violet Twining and her mother tenderly nursed him at the end, and he left everything of which he was possessed to the young lady. She was only a little over twenty when her marriage with the aged but picturesque Lord Donegal took place a couple of years ago. Lord Strathcona gave the bride away. Her son, the new Lord Donegal, is eight months old. Lady Donegal is a charming woman, with quiet, unaffected manners.

NEURALGIC HEADACHE IS USUALLY

Attended with blinding pain, but relief comes quickly when Nerviline is applied, for it is the strongest pain-reliever in the world. "I consider Nerviline a most magical remedy for neuralgia. I am subject to violent attacks," writes Mrs. E. G. Harniss of Baltimore, but never worry if Nerviline is in the house. The prompt relief that Nerviline brings makes it priceless to me. A few applications never yet failed to kill the pain. I can also recommend Nerviline for stiffness in the joints and rheumatism." Try Nerviline yourself. Price 25c.

Greatest, Yet Poorest of Men.

Rev. James L. Gordon, in Bond Street Congregational Church, Toronto, on Sunday said: "The world has had five great teachers—Moses, Buddha, Confucius, Mohammed and Jesus, the peerless personality of all history. The life of Jesus stretches from the lowest material realm to the highest spiritual realm, and the seven great events of that life were His incarnation, manifestation in the temple, temptation in the wilderness, transfiguration on the mount, crucifixion, resurrection and ascension. Emerson says of Christ: 'He was the greatest and the poorest man among the men of history.' He was rocked in a borrowed cradle, and buried in a borrowed tomb. Jesus in His crucifixion deals with five great mysteries of life—the mysteries of pain, shame, sin, death and unknown eternity. Measure the tomb of Jesus by the divine rod of measurement, and you find it in its length equal to eternity, in width to the human race, and in depth to the need of the human heart, and in the dome that overarches it, a height as great as the throne of the Infinite."

Russia regrets to report that some of its victories in the newspapers are not true.

CORNS GROW BETWEEN THE TOES

But can be cured without pain in one day by Putnam's Corn and Wart Extract. This standard remedy never burns the flesh—it is entirely vegetable in composition and does not destroy the flesh. Use only Putnam's, it's the best.