

## The Civic Parliament

Much Business Disposed of at Last Night's Meeting of the Aldermen.

Street Work To Be Proceeded With—The Garbage Removal Problem.

Barbers Want Sunday Closing Enforced—Castings Contract Awarded.

It may be allowable for a spectator of the proceedings of the city council last evening to say that it seems as though the electors of Victoria have succeeded better this year than they have for some time past in selecting a council of business men who waste little time in unnecessary talk and who eschew unseemly "bickering." That is if last night's meeting may be taken as an example. Every thing, from the reading of the minutes to the motion for an adjournment, went like clockwork and a vast amount of business was put through.

But so business-like was the meeting that it afforded little or no excitement for a handful of free and independent electors who were attracted to the scene, and it was not long before they stole away, apparently satisfied to leave the discharge of the city's business to their duly elected representatives. Time was not so long ago, when all this was different, and one could confidently rely upon a couple of hours' entertainment in the council chamber on Monday evenings equal to that afforded by some travelling shows which charged for admission. The improvement is all in favor of the city though, and last evening the aldermen showed a laudable desire to put business through in business-like shape, as refreshing as it was expeditious.

At 10:15 the council adjourned until 10 o'clock this morning for the purpose of considering at the earliest possible moment the estimates, not yet decided upon. His worship the mayor presided last evening, and there was a full attendance of the members eligible to sit at the board. Ald. Langley's case not yet having been decided by the Full Court, the end chair to the right of the mayor was empty. The clerk read the minutes of the last meeting of the council held during the week, which were adopted without amendment, and the council proceeded to the consideration of Communications.

Mr. Thornton Fell reminded the council of his application of August 1st for an extension of the sewer on Cadboro Bay road, in reply to which he was informed that at the time there were no funds available for the purpose. He strongly recommended that the sewer be extended along Belmont street to the junction of Yates street and Cadboro Bay road, and took the opportunity afforded by the opening of a new year to remind the council that those who improve their properties are entitled to some consideration. As an alternative Mr. Fell suggested that the school street sewer might be extended as far as Moss street, adding that it seemed a strange thing that although his neighbors could obtain connection with the sewer he could not.

Ald. Stewart moved that the letter be referred to the city engineer for report. Ald. Humphrey expressing his opinion that the school street sewer is already a long way above Moss street.

Ald. Stewart's motion carried unanimously.

That Minut. Mr. C. C. Moody informed the council that he has some information regarding the establishment of a mint in Canada, and that if the council would appoint a committee for the purpose he would be pleased to place that information at their disposal.

Ald. Stewart wanted to know who Mr. Moody was, and Ald. Humphrey moved that the letter be received and filed.

Ald. Williams objected to this summary disposal of the communication, saying that he was in favor of receiving information as to matter from whom it came. There was no reason because certain aldermen had a dislike to this gentleman.

The mayor (interrupting), "Alderman Williams, Alderman Williams, you have no grounds for saying that. Those remarks are quite out of order, there was nothing said to warrant them at all." Ald. Williams ventured the opinion that he was as able to form an opinion in regard to the matter from what had taken place at former meetings as any one else, and he moved that a committee be appointed to take advantage of Mr. Moody's offer. This was seconded by Ald. Kinsman, but Ald. Hayward had a simpler method to suggest, and that was that Mr. Moody be asked to furnish the information to the council. This commended itself to Ald. Williams, who thereupon withdrew his motion in favor of Ald. Hayward's proposition.

Ald. Humphrey was quite satisfied with this mode of procedure, avowing that Ald. Williams's remark could not apply to him, as he did not know who Mr. Moody is. The proposition was accepted, Mr. Moody's letter filed, and he will be asked to favor the council with the information he has in regard to the mint. During the discussion some of the aldermen seemed to hint that Mr. Moody had hit upon something which he was making a great secret of and would not divulge except under exceptional circumstances, but this was explained as being an erroneous assumption. Mr. Moody's knowledge being available, without any secrecy being made of it.

Fire Insurance Agents. Mr. J. G. Elliott, secretary of the Board of Fire Underwriters, courteously acknowledged the receipt of a communication from the council, copies of which had been supplied to the various agents in the city for transmission to their respective head offices.

Money on Instalment. Mr. G. W. McCain had addressed a request to the council to pay to Mr. Sidney Shore the sum of \$400 on his contract

for fire apparatus, but his worship explained it was intended for the city treasurer, and to that official the letter went.

James Bay Bridge. Mr. Edward Mallandaine submitted a plan for a bridge across James Bay in the following terms: "I have the honor to lay before you a plan for James Bay bridge, with arches and an alternative plan for a permanent way or embankment in case the latter be preferred. The reasons that may be urged for the former are a pleasing appearance, superior to the solid surface of dead wall of the plain character of the latter. Also, that the arches of the former could be utilized at a future date for bonded warehouses, etc., with a continuous wharf in front, meanwhile the east wall shown, can be left out. I will add that the arches are brick pointed on completion, I shall be happy to furnish further information at an interview. The cost would be estimated by a well known contractor from my quantities.

Bridge, forty feet wide ..... \$84,000  
Bridge, seventy feet wide ..... 114,611  
Deduct east wall in both cases .. 5,000  
Permanent way or embankment, seventy feet wide ..... 134,007

His worship informed the aldermen that the plans referred to were in the city engineer's office, and he read the report on motion Ald. Stewart the letter was laid on the table.

Poplar Trees Barred. Mrs. W. Spring applied for permission to plant shade trees in front of her property on Belleville street, comprising an estimate of the cost as follows:

His worship pointed out that a similar privilege had been granted to Mr. Pen-dray, and Ald. Williams moved that the permission asked for by Mrs. Spring be granted.

Ald. Humphrey had no objection to granting the request, but was strongly of the opinion that poplar trees should be prohibited.

Ald. Stewart agreed, and moved that the proviso be included in the motion.

Ald. Brydon cited a case where a gentleman had been granted permission to plant what was a veritable hedge about eight feet high and quite thick. He thought there should be some condition insisted upon as to the distance the shade trees must be apart.

Ald. Beckwith thought there should be some way of regulating the matter, too. Everyone was agreed upon the desirability of erecting shade trees on the streets but the council should be satisfied as to the kind of trees to be planted, and the distance they are to be apart.

There should be some general rule adopted in this regard, and he rather favored laying the communication on the table until some regulation could be arrived at.

Ald. Williams thought if it were postponed the matter until they made such regulations it would be too late to plant the trees.

Ald. Humphrey thought Ald. Beckwith's was a good plan. Maple trees, in his opinion, should be at least forty to fifty feet apart. Then the trees as they grew would come together. There should certainly be some regulation.

The mayor thought it would be too late if the council waited until they had the matter decided upon. He thought it would be better to leave it to Mr. Spring.

Ald. Beckwith disclaimed any intention of thwarting the granting of the desired permission, and finally the motion was passed that Mr. Spring might plant the shade trees, provided that poplars are not selected.

Piles to Sell.

Mr. G. Barrie informed the council that if they needed to purchase piles for wharf extension, etc., he had some he would be glad to supply, and Ald. Stewart pointed out that when such articles are needed advertisements are always inserted in the papers to that effect.

Ald. Humphrey moved that the letter be received and filed, and the writer be allowed to keep his eye open for the appearance of the city's advertisements in the daily papers. Carried.

A Drainage Nuisance.

Water Commissioner Rayner called the attention of the council to the condition of a box drain at the corner of Belmont street and Cadboro Bay road, which on examination had been found to be rotten and which, with the advent of warm weather, will be found to be an intolerable nuisance.

On motion of Ald. Stewart the letter was referred to the city engineer for report.

More Drains, Etc.

The city engineer sent in a long report regarding work on drains and sidewalks, which was considered clause by clause. The first section referred to the drainage on Belmont avenue and a pond which has been complained of there. The engineer said the pond could be drained through the old ditch, but it would be necessary to dig a ditch requiring a 24-inch pipe, or which 315 feet would be required. Estimated cost, exclusive of pipe on hand, \$75.

His worship explained that although this would drain the pond it would not drain the house.

The report continued that in connection with this work it would be necessary to deal with the drain from the house of Mr. T. H. Matthews. This could be brought out on North Clatham street, which would require a box drain from the catch basin, a distance of 500 feet; estimated cost, \$106.

Ald. Stewart referred to the pond mentioned as "a bone of contention," and he was in favor of the work being done.

Ald. Humphrey thought some of the work might be done and some left. The pond has a natural outlet on Pembroke street, is now running over, and all that is necessary is to cut a ditch. He questioned whether if the work were done as suggested by the engineer, Mr. B. W. Pearce would do the necessary work.

Ald. MacGregor said the council were dealing with the city's property and not with Mr. Pearce's. He pointed out that the city would save \$179 if the work were done on this estimate, compared with a previous figure given by him, and it was a report that Mr. Pearce had an opportunity of doing the work necessary and then if his land required draining and he failed to do it and it became a nuisance he would have to be made to drain it.

Ald. Hayward wanted to know what was the cost of the pipe, but his worship was not quite certain. One alderman simply remarked that the pipe, although on hand, still cost something, and was agreed with unanimously. It was finally decided that the work

as recommended by the engineer be proceeded with.

Then came the Jubilee Hospital drainage. The engineer recommended that a 15-inch pipe be laid through the grounds to take the place of the present open ditch, a distance of 1,500 feet, and that 1,450 feet of a box drain on Cadboro Bay road be replaced by a box drain, 12 by 20 inches; estimated cost, \$440.

Ald. Humphrey moved that this work also be done. The drain had been a nuisance to everyone in the neighborhood and if it was important it be made good.

Ald. Williams didn't like the idea of the box drain and wanted to know if there was not some way of avoiding that feature.

The mayor thought the council were hardly in a position to lay a pipe drain a distance of 1,450 feet just yet, and Ald. Williams pointed out that the box drains were always nuisances. Ald. Humphrey stated that he had obtained the figures for such a pipe drain; seventy-five cents a foot for 18-inch pipe, or over \$1,000 for the pipe alone.

Ald. Humphrey's motion authorizing the work carried.

A surface drain on Edmonton road was the next piece of work dealt with, the engineer stating that the surface of the road at an estimated cost of \$110, and it would also be necessary to renew a portion of the box drain on the same road, which would sum up to \$40.

Ald. Williams moved it be done, and Ald. Humphrey pointed out that there was a report from the committee recommending the same thing. It was rather difficult, however, to make a deal on the quantity of rock met with. The work will be done.

Sidewalks. The same report from the engineer recommended the construction of a new sidewalk on the north side of Fort street, east of Cook, a distance of 225 feet; at an estimated cost of \$85.

Ald. Williams moved it be done, but his worship wished the council to decide whether they would have a plank or a cinder walk.

Ald. Humphrey expressed the opinion that a portion should be gravelled or cindered, but the other portion, on the grade, would have to be plank.

Ald. MacGregor said there was a great deal of dissatisfaction in regard to the manner in which the cinder sidewalks were put down. It was not a good thing to have a plank and a cinder sidewalk, but they have not given satisfaction.

He thought the property owners on the street should be consulted as to which kind of walk they would like, and he thought they would do some with regard to uniformity, especially in the same block. There was a difficulty also in getting first-class quality of cinder just now, too, and there was a great deal of talk about a plank which went up a hill and would have to be plank anyhow.

Ald. Humphrey rather defended gravel walks, or cinder walks for the matter of the grade, and he thought the plank was a waste of money. On Fort street, just above Vancouver, the curb had been put in an inch too high, with the result that the cinders did not come up to the grade, and he thought it would be better to the piece now under discussion that up to Dr. Jones it would be better in gravel or cinder.

Ald. Stewart referred to a piece of sidewalk on Quadra street which was already a good sidewalk, and he thought if the council would go and look at it they would approve of it. He was not posted on the cost as compared with plank, but it was all right.

Ald. Humphrey said such a sidewalk costs more by two or three times than wood, but Ald. Stewart was of the opinion that if there was a large quantity to be made it could be done for much less than that.

The mayor said that east of Cook street the walk could be gravelled, but above that it would have to be plank, and Ald. Brydon objected to anything like that. He favored gravel, and he thought if the council might be decided to have a nice piebald walk, a strip of wood and another strip gravel or cinder alternately, but he favored having the sidewalk, in each block at least, uniform.

And the mayor thought so too.

Ald. Kinsman had had experience of gravel and cinder sidewalks in frosty weather, or rather just after the thaw set in, and he found the stuff stick to his boots.

The work was ordered to be done as seems best to the engineer.

Three pieces of sidewalk on Cadboro Bay road were also recommended to be laid by the engineer, and were ordered to be constructed. One is on the north side, west of Ormonde street; the second is near Stadacona avenue, and the third between Stadacona avenue and Belmont avenue, and the estimated cost is in the neighborhood of \$120.

More of the Houses Back.

The city engineer reported on the petition of Mr. Donald Graham and others for a sidewalk on the south side of South road, which he said it is impossible to construct until the houses and fences are moved back to the proper line. Ald. Brydon suggested that the petitioners be notified accordingly, and this will be done.

Mr. J. E. Painter had headed a petition asking for the continuation of Pine street, Victoria West, and the engineer reported having the matter under consideration.

The purchase of a suitable cart horse in place of one recently sold was also recommended by the engineer, and the whole report was adopted.

Market Receipts.

Market Clerk Johnson reported having received \$36.75 from farmers and gardeners' fees; \$14.50 from the weighing machine, and \$6 for rent, a total of \$57.25, including \$20.65 for the stalls in the market yard.

Did Too Much Work.

Mr. Robert Mason had a curious request to make. He wanted to enter a contract to place some gravel on a sidewalk on Ida street, did the work and then noticed that on William street there was a curb made and was informed by a resident that he was expected to place gravel there too. He did so and then found he had no authority to do so which the engineer would accept. He was therefore out 25 loads of gravel, and asked the council to order him to pay him for it. City Engineer Wilmot sent a letter to the council admitting that Mr. Mason had done the work, but that

Mr. Mason only had authority to put gravel on Ida street. The mayor said Mr. Mason had called upon him and set forth the same facts as were embodied in his letter.

Ald. Humphrey suggested that Mr. Mason may possibly have a little delinquency as to whether he has earned the money he asks for, \$25, and Ald. Kinsman ventured the opinion that if the work on Ida street was only \$45, that on William street it was no dear at \$25. It should also be mentioned at this stage of the game that Mr. Mason has not filled up to the curb on Ida street," added Ald. Humphrey.

Ald. Stewart wanted a report from the engineer and was informed that Mr. Wilmot had reported and his letter had already been read, but Ald. Williams thought that report did not quite cover the ground. If the engineer went into the matter properly he would find that Mr. Mason was not paid for the work for so much a yard, and that at the figure quoted the work on William street would not amount to the sum claimed. Ald. Humphrey didn't think there was any price quoted by the yard.

The mayor explained that Mr. Mason quite admitted that it was his own mistake, and Ald. Stewart wanted to know if the engineer said the work was worth the money. The mayor said the engineer had expressed no opinion on that matter.

Ald. Kinsman bluntly stated that Mr. Mason hadn't done the work properly on Ida street. Ald. Beckwith suggested that the present engineer be asked to say what is the value of the work on both the streets mentioned.

Ald. MacGregor favored paying for the work. Mr. Mason had hauled the gravel at a time when the city's own teams could not do it, and if he saw a curb there he may reasonably have thought he was to put the gravel there. If he had not put enough gravel on Ida street, it was suggested it was the fault of the engineer in accepting the work.

The mayor explained that Ald. Beckwith's motion did not involve a refusal to pay for the work, but was merely for a report. Ald. MacGregor could not see what report the engineer could make, but Ald. Beckwith said the letter read was from Mr. Wilmot, and that he did not express any opinion as to the value of the work.

Ald. Stewart said what the council wanted to find out was whether the work is worth \$25, and the mayor explaining that was the intention of Ald. Beckwith's motion, Ald. Stewart expressed his agreement with it.

Ald. Brydon had examined the work and did not think it had been examined at the time it would have been accepted. Mr. Mason had hauled his teams over the curb, and he thought there could hardly be twenty-five loads of gravel there, if there were 45 on Ida street.

Ultimately the matter was referred to Mr. Wilmot's report as to the value of the work done.

Want Sunday Off.

Louis Vigeland and other barbers, of the city asked for legislation making Sunday closing of barber shops imperative. They claimed to represent two-thirds of the barbers of Victoria, and had been having to work on Sundays, which meant that their wives, children and sweethearts are denied of the pleasure of their leisure hours' company on the day of rest.

The petition reads as follows: "The barbers of this city have tried voluntarily to close the barber shops on Sunday, but cannot come to a unanimous agreement, so the undersigned, representing the majority of the barbers, herewith petition your honorable body to introduce and pass a by-law compelling all barber shops to close and remain closed on Sundays."

No other class of laborers known have to work on as many hours as the barbers. Our hours are from 7:30 a.m. to 8 p.m., and on Saturdays from 7:30 a.m. to 11 p.m., which we consider sufficient without being compelled to get up at 7:30 on Sunday and work until 12 noon or 1 p.m.

There is very little transient trade on Sunday for the simple reason that in all the largest and most important cities of Canada the barber shops close on Sundays, consequently it is not to our city will not expect us to be open on that day.

There is not a single boat or train that runs regularly between this port and any other that arrives on Sunday forenoon and for tender the contract was torn in the hands of the people who owned the scow. No one would go to the expense of getting a scow for the year. He did not think there would be any difficulty in getting a scow for the year, and the mayor said it was necessary. He was sure it was not towed out now every day; not more than twice a week sometimes, and \$70 a week is too much for that. The city would save considerable money by adopting the suggestion of the report.

The report was then adopted and the special committee and the purchasing agent will obtain a scow.

Finance Committee Report.

The finance committee recommended (1) that Mr. Winsby's recommendations for the better collection of the revenue, road and dog taxes be adopted, and that he be informed to that effect. (2) That the steam roller be immediately set to work under the superintendence of three aldermen, and (3) that the B. C. Electric Company be informed that the sum of \$190.35, the amount of work done by the city for them at Oak Bay junction in September last, must be paid at once.

In general discussion on the report the mayor said that a special committee such as the three aldermen suggested to superintend the steam roller, could only report. Ald. Hayward explaining that the intention of the committee was to superintend the roller to work on the city streets where there are holes, unless it was intended to re-macadamize and practically make new streets.

Ald. Hayward replied that it was intended to send men with the roller supplied with picks and barrows who would take off the high ground and throw the sides of the street into the centre. He believed that by this method a great many of the streets could be very much improved at a trifling expense.

Taking the report up clause by clause, No. 1 was adopted without discussion. Clause 2, about the steam roller, was recommended for report by the city engineer on motion of Ald. Humphrey.

"For what purpose?" asked Ald. Hayward.

Ald. Humphrey didn't think the en-

gineer would approve of the suggestion, and the mayor shared the opinion. Finally, Ald. Brydon moved that the engineer be asked to report on it and the motion carried. Ald. MacGregor said a little uncertain apparently as to how he wished to vote, finally on the second show of hands casting in his lot with those who wished a report from the engineer. The third clause of the report went through without discussion.

Something Like Advertising. In the customary monthly report of the finance committee there were items of \$54 for advertisements in the Times, Globe and \$52.50 in the Montreal Star, which some of the aldermen thought worthy of note. The advertisements occupied three inches, and the prices were recommended to the attention of the local newspapers—but whether as an example to be emulated or not did not appear.

Those Telephones. In the same report there was an item of \$102.65 for telephones for the month of February and Ald. MacGregor complained that his telephone had not been installed and therefore should not be charged for. Ald. Hayward thought that perhaps Mr. Phillips might still have the use of it. Ald. Beckwith said he thought his telephone should not be charged for either, for it is so often out of order as to be almost useless.

The mayor recommended the aldermen to report the matter to the head of the telephone company, having always found them ready to remedy any little trouble of that nature.

That Castings Contract. In accordance with a resolution passed by the council the mayor referred to the board the matter of the contract for castings for the head of the Works and for the second six months of Messrs. Spratt & Gray. The motion carried.

The Crusher. Ald. Humphrey wanted to know when the crusher now in the park will be moved to the head of Johnson street, it being necessary if the work recommended by the street committee it be done that some macadam be got in readiness. Incidentally a little discussion arose between Mr. Myrland and Ald. Williams as to whether any blasting is being done in the park, Ald. Williams saying it was agreed that none should be done and the mayor saying he was mistaken in regard to that.

Ald. Beckwith rose to a question of privilege to correct the statement made in the Times report of the last meeting of the council to the effect that he said a Supreme Court judge could be obtained for \$100.

What he said was the council had had the services of a police court judge for that amount. The alderman said he was afraid of being put in jail for being contemptuous. The fine of the contempt was \$50. The clerk read the statement in regard to the judges of the Supreme Court, and the council laughed. The error arose owing to the similarity in the sound of the words used by Ald. Beckwith and those reported in the Times.

Street Work. A report laid over from last year regarding work on various streets was then considered with the following result:

Superior street, graveling to the amount of \$200.

Shakespeare street, a double sidewalk will be laid at a cost of \$50.

Douglas street, above the fountain, an unexpended balance of \$151 will be used. The street, the cinder walk between Vancouver and Cook, will have a tar surface applied at a cost of \$65.

Mary street, a balance of \$100 will be expended.

Government street, a concrete gutter will be built by Messrs. Weiler Brothers' new store costing \$91.

In connection with the last item Ald. Williams referred to the need of a new gutter in front of the New England and was informed that the gutter was now, while a different report was being discussed. Ald. Williams said he was satisfied to have got the remark in.

The council adjourned at 10:15 to meet again at 10 o'clock in the morning.

PILES CURED WITHOUT THE KNIFE. BY DR. A. CHASE'S OINTMENT.

Mr. Geo. Browne, painter, of Woodville, Ont., Victoria, Col., says: "For thirteen years I was afflicted with piles, and the intense agony which I passed through during those years and relief obtained by Chase's Ointment, led me to give this testimonial. My physicians advised me to have an operation, but I felt I could be cured without the knife. Three boxes of Dr. Chase's Ointment stopped the bleeding and effected a permanent cure."

Mr. Hawks also says that he is attracted at the outlet of Coquitlam might have a value to the city from its service to the city's water-furnishing power with the operation of the city's electric light. He estimates that such a dam would give a nominal force of 2 1/2 feet, and he estimates that it would prevent the variation in the height at the lake or the reserve present, according as it happens high or low water season. In connection, he says, that if the dam is constructed such a dam would be a prior user of the water, the dam would be able to impose conditions without expense, repaying the cost of the dam from its surplus power.

With the above facts in Hawks advises that the dam be constructed at present, but hold as measure.

Gauging the Delivery. Mr. Hawks takes up the question of gauging the delivery of water reservoir, and describes the which he pursued on February 1st was made by gauging the water which flowed into the reservoir from 8:45 p.m. to 10:15 p.m. during which time the water rose 13.149 square feet, over which was submerged 1.34 feet, giving a volume of 17.7 feet, or allowing 80 cubic feet in the paving, a total of 17.7 feet. Dividing this total by 1.34 (245x80) gives 1,204 cubic feet, or 104,040 cubic feet. Other tests made produced the same result.

Continuing, Mr. Hawks remarks connection with the flow thro-

## Westminster Water Works

Mr. A. McL. Hawks, the Reports on His Investigation.

Some Practical Points Regarding Improvement of the System.

Mr. A. McL. Hawks, consulting engineer, having, by instruction of Council made a thorough examination of the New Westminster works, presented a full and complete report to the council at its last meeting. The report, a concise summary of which, embracing the essential features, is given conveniently by the editor of the Times, is a valuable contribution to the improvement of the water supply, and is a most desirable work.

Under this heading Mr. Hawks, on February 9th, in company with Mr. G. W. McCain, the chairman of the water committee, and Mr. Wm. Hendry, the engineer, went to the lake, to inspect the works. While there the water was observed, the height at twelve noon, being 428.26 feet above datum. Mr. Hendry, left at the patrol house to observe readings of the height of water intake well for the next two days.

The pipe line, Mr. Hawks was traversed on February 11th, and the water was observed at the intake to the lake. At no any air-lock or mud deposit, which the constant flow of water is retarded or reduced. Nor was there any indication that the weight of the covering had flattened the steel main. The engineer's directions. Foreman examined all the blow-offs (eight in all) and found them all found free from silt and no air in the valves.

Advantages of Constructing. The advisability of constructing at the intake is gone into the report. The flow of the water, at the intake, is 31,035 feet (at Harrison's report), will furnish imperial gallons of water per day of five-foot dam, increasing the 30,008 feet, the discharge was 350 imperial gallons per day. The error arose owing to the similarity in the sound of the words used by Ald. Beckwith and those reported in the Times.

Calculations are based, is higher, than generally accepted. From the above figures it will say Mr. Hawks, that the increase, due to the dam at the intake, will equal 102,400 gallons per day, or thirty per cent. of the flow. This gain, says the engineer, is worthy of serious consideration, and would be secured without excessive cost.

On an inspection of the size the cost of a dam is estimated at \$15,000. This amount would be a cedar-cribbed dam, two high, twenty feet wide on top, and twenty feet wide at the base, and the dam would be filled with boulders, sheeted on stream face, and provided on stream face with a strong apron the overfall.

When it is considered feasible the investigations along the graphical map may be made of Coquitlam lake, between the present boundary of the city and the shore of the lake be reconnected, so that a good head of the nature of the land would be submerged were such a dam constructed, and the possibility of submergence, adds the engineering pollution of your present water supply. For this purpose submerged land should be divided into three classes—swamp, timber, and open land.

Mr. Hawks also says that he is attracted at the outlet of Coquitlam might have a value to the city from its service to the city's water-furnishing power with the operation of the city's electric light. He estimates that such a dam would give a nominal force of 2 1/2 feet, and he estimates that it would prevent the variation in the height at the lake or the reserve present, according as it happens high or low water season. In connection, he says, that if the dam is constructed such a dam would be a prior user of the water, the dam would be able to impose conditions without expense, repaying the cost of the dam from its surplus power.

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