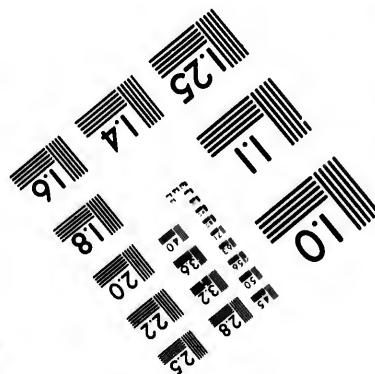
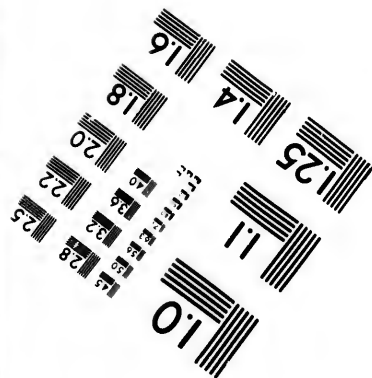
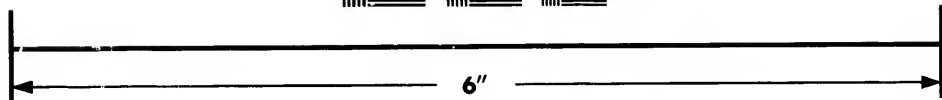
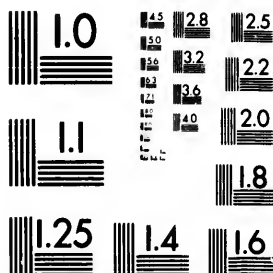


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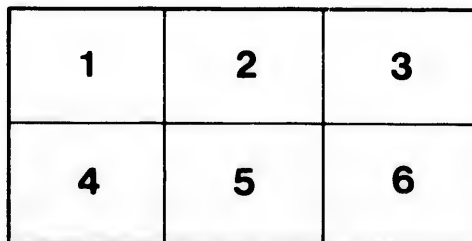
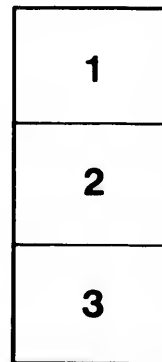
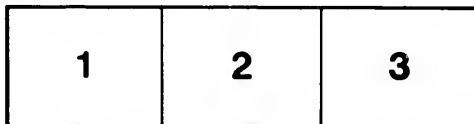
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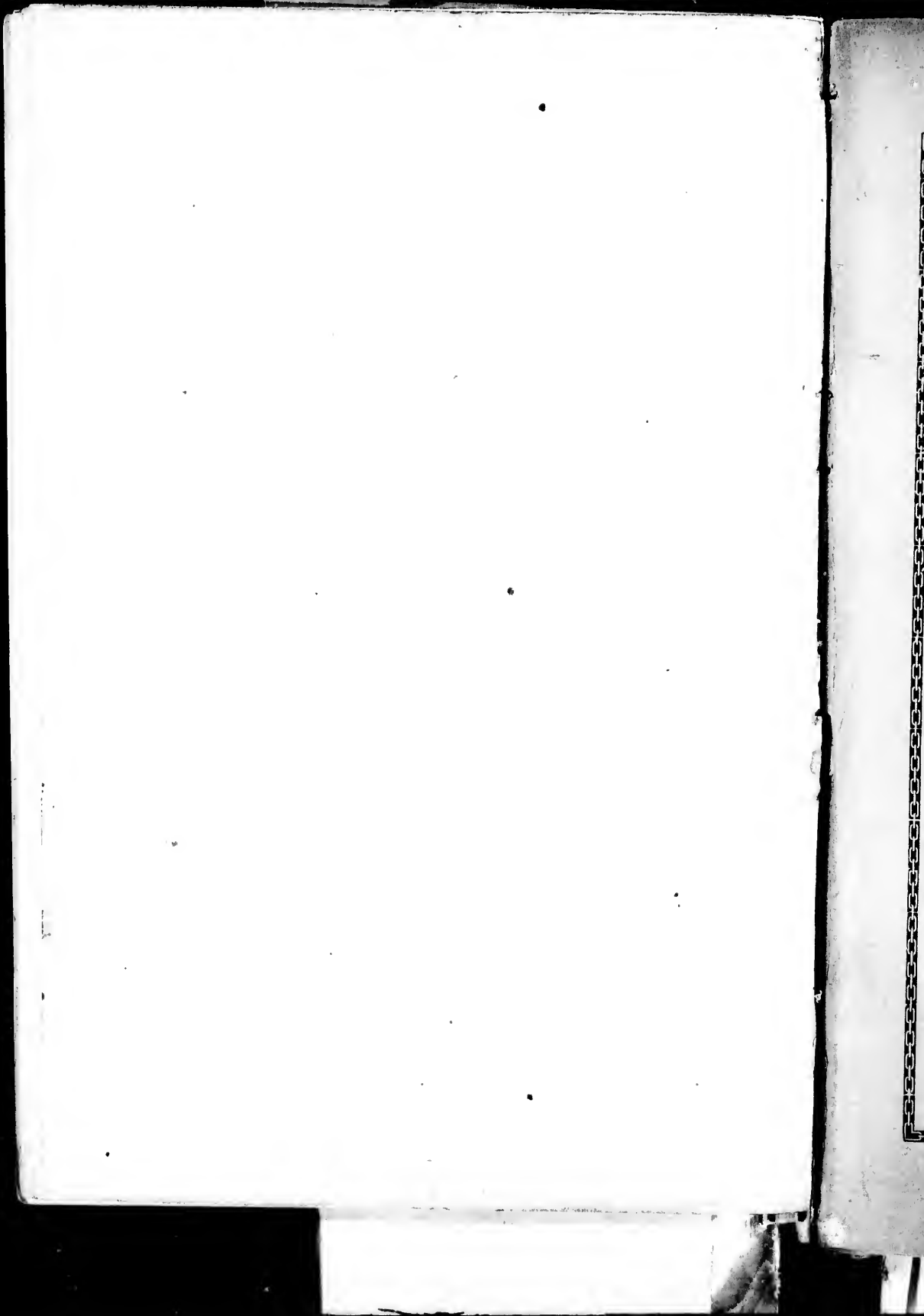
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ANNUAL REPORTS.

CORPORATION

OF THE

CITY OF VICTORIA,

FOR THE

YEAR ENDING 31ST DECEMBER, 1889.

JOHN GRANT, MAYOR,

VICTORIA, B. C.

MUNROE MILLER, PRINTER AND BOOKBINDER, 77 JOHNSON STREET.
1890.

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1890.

NAMES OF
THE MEMBERS OF THE MUNICIPAL COUNCIL
For the Year 1889.


JOHN GRANT, Mayor.


ALDERMEN FOR YATES STREET WARD:

Louis Vigelius,
S. L. Kelly,
W. D. McKillican.


ALDERMEN FOR JOHNSON STREET WARD.

S. T. Styles,
Lawrence Goodaere,
John Coughlan.


ALDERMEN FOR JAMES BAY WARD.

William Wilson,
J. B. Harrison,
D. R. Harris.

Mayor's Report.

VICTORIA, B. C.

January 1st, 1890.

To the Ratepayers and the Electors of Victoria City:—

LADIES AND GENTLEMEN:—

It affords me much pleasure in presenting for your consideration the reports and statements connected with the Municipal affairs of this city covering the business of the year 1889.

It must be a source of pleasure to you to observe the marked improvement which has taken place in this city during the past year, not only in the large number of very substantial buildings which have been erected, but also in the greatly increased value of real estate, which has advanced in a greater ratio during the term just ended than it has for many years back.

It cannot but be a satisfaction to property owners and residents of Victoria to find that the city is still keeping in the van of progress. By continuing to improve Victoria and its surroundings its inhabitants can rest assured that it will always maintain the premier position on this western side of the great Dominion. I beg however to impress upon Victorians that this advantage cannot be sustained by any exhibition of apathy or by too close a conservation of their means. For it is an indisputable fact that, before much needed substantial improvements can be carried out, authority to use considerable sums of money by the Council is absolutely imperative. It is true that, during the year just closed, the ratepayers have responded freely to the requests

of the Council for funds to enable it to prosecute necessary works, and that they have also supported with an open hand the bonuses to encourage manufacturing industries and other interests among us. To my mind, the liberal spirit evinced by the ratepayers in this connection has been an important factor in the city's general prosperity. While the taxes on real estate have been increased during the year, not by an advanced rate, but by an adjustment of values, property owners ought not to complain, if they will only take into consideration the actual enhancement of value in their properties, which I feel sure but few will deny.

The total indebtedness of this city, less sinking fund on hand, is \$507,118 17 a small amount when its population, business interests, and cash values are considered. And in addition to these considerations there is the value of the Corporation property (independent of private property) which could be disposed of at short notice, at from \$1,200,000 to \$1,400,000. This estimate includes that very valuable asset, "The Water Works." It was a most wise act of the ratepayers to place at the command of the Council large sums of money to enable it to so perfect the system of water distribution that consumers generally can have an adequate supply, at the same time giving additional insurance against fire.

It has been thought wise by the Council to expend money and enter into contracts which action has caused them to exceed the revenue for the year 1889 by some \$7,114.80 in cash paid out, and liabilities to be met in the shape of contracts of \$30,932.76. This position was pointed out by your humble servant when the different propositions came before the Council for discussion, but it was no doubt, the necessity of the works being carried on that prompted the members of the Board to authorize the expenditure and incur the liabilities. For instance, the additions to the City Hall are really needed on account of the lack of space for the Fire Department, necessary police accommodation, and lock-up facilities, coupled with the necessity for more office room

owing to the growing revenue and consequent increase of Municipal business. The volume of business transacted during the year, as will be observed by the financial statements was \$451,162.02 being considerably over one half of the expenditure made by the Provincial Government, for the last fiscal year.

A "Municipal Act" of greater compass was passed during the last session of the Legislature, yet I think there are many amendments which should be made to bring the Act to still greater perfection. In this connection there ought to be additional powers given for the better disposition of the sinking funds, if not for power to borrow money without providing any sinking fund to meet the ultimate payment of debentures. In either case a large saving to the city could be effected.

I am of the opinion that the voting qualifications should be extended, to meet the fairness of establishing a right for lodgers to vote, under proper conditions. I have known gentlemen paying in this city as much per month for board and lodging as is necessary for a household voter to pay in rent for a year, to be enabled to vote for Mayor and Aldermen. The working of the Licensing Board, since the amendment to the "Act," has shown that a change to some little extent should be made to ensure representation on the Board of such citizens as may be considered desirable, and a method provided by which witnesses could be summoned by the Board.

I have been in the past an advocate for a special charter for this city, but, after more fully considering the subject, I am now of the opinion that it is better to conduct the Corporation business under a general "Act" for two reasons. First, in matters of litigation, the meaning of the general "Act" becomes known to all legal men throughout the Province by the interpretation given in the Courts, which cannot be said of special "Acts;" Second, a general "Act" can be amended by the Legislature, without expense to the

Corporation, while, if an amendment is desired to a special "Act" (otherwise Private Act) it will cost in each case, or every time that it is taken into the Legislature, from \$400 to \$750.

HEALTH

Is a subject requiring the most earnest attention of the Council. The Health Officer's Report furnishes the information that the death rate for the year has been less than that of former years. This is gratifying.

FINANCE.

The financial statements herewith, duly signed by the City Auditor, will show the amount of business transacted during the year.

It will be seen that the revenue of the Corporation is steadily increasing, principally from enhanced values in real estate and water rents. It is safe to predict that the revenue will for the next five years, grow as much as it has in proportion during the last five. If this should be found to be the case by 1895, the city's revenue will be \$300,000 per annum, a sum, the possession of which will enable the Council to carry out many needed improvements.

During the year there was added to the indebtedness of the Corporation, by way of loans the sum of \$215,000, the greater portion of which has been and is being expended on water works. The Debentures bearing 5 per cent sold at a higher premium than ever before, proving that Victoria is growing in wealth and stability.

As has been before mentioned, the total expenditure for the year by the Corporation was \$451,162.02, nearly double any amount that has been expended in any single year heretofore. The great difficulty which the Council has to combat, is the keeping of the expenditure inside of the Revenue. Aldermen who are anxious for the prosperity of the city

find so much to be done of a desirable character that they are tempted to exceed the Revenue for the year.

STREETS

Have had during the term especial attention and a deal of money has been laid out, the information concerning which will be observed in the financial statement and street committee's report. I would again impress upon the citizens the importance of having the central portion of the city paved at an early date, so that it may be kept thoroughly clean.

WATER WORKS.

The much needed increase of the water supply has been effected. During the year two loans of \$70,000 and \$60,000 were authorized by the ratepayers, and, when these sums shall have been expended, it will be found that the works will be in a thoroughly efficient condition. One other improvement ought to be carried out, viz: an increased filterage capacity. A very lengthy report prepared with much care by Mr. Summerfield, water commissioner, will give detailed information.

CITY LIGHTING.

The committee's report on this subject will be found to contain particulars of improvement in this branch of city service, as well as calling attention to certain necessary changes. Although the service may not be entirely satisfactory to ourselves, those at a distance, commenting through the press upon our system of city lighting, speak of it in the highest terms.

FIRE DEPARTMENT.

It is satisfactory to all of us to know that this branch of the municipal service is now in such a state of perfection that if the Council for 1890 can supply the department with a chemical engine, it is about all that the officers and men

could ask for. It is fortunate for the city that so little loss by fire has occurred during the year.

POLICE.

The condition of this important arm of the public service has been satisfactory. The good order prevailing now and in the past is the best guarantee of the ability of the department to protect our citizens. It was found necessary during the year to incur a considerable expenditure for the better accommodation of the force.

SEWERAGE.

It is unfortunate that this most important and much needed work is no further advanced than it was left by the Council of 1885. A by-law asking the ratepayers to agree to the borrowing of \$650,000 for its prosecution on the combined system or "Pickering and Compton's plan" was defeated. This is one of the questions that ought to receive the attention of the incoming council, and in my opinion plans according to the separate system should be at once prepared and the ratepayers asked to assent to the floating of a loan for this purpose at the earliest date possible. There is much that ought to be undertaken toward the improvement of the streets that cannot be done until permanent sewers are laid.

ROSS BAY CEMETERY

Has not yet been enlarged. This matter should be seen to, as it will be found that more space will be required in the near future for this purpose.

BEACON HILL PARK.

Much has been done through the liberality of the ratepayers to make this beautiful resort still more attractive. It will be necessary, before the good work begun shall have been carried to completion, to expend considerable funds, but I deem it a wise and profitable investment which in many ways will give the best possible results. I feel sure

that many of those who in the first instance characterized the past expenditure as wasteful, have now changed their opinions.

THE PUBLIC LIBRARY.

The working of this most excellent institution has been extremely satisfactory, as will be seen by the report of the committee. In fact the circulation of books has far exceeded the most sanguine expectations of its advocates. Donations to assist in making it still nearer perfection are always in order and will be thankfully received.

THE BOARD OF ALDERMEN

Are to be commended for the care and labor that they have bestowed upon the public business. The draft upon the time of the members of the Council is year by year increasing, as much work is performed by the different committees that should, properly speaking, be attended to by paid officers. The reason for this may be found in their anxiety to conduct the affairs of the municipality in the most economic manner. Generally, it is hardly to be expected that the members of the Board could always agree in respect to the best methods of having the business of the Council transacted, but this is an advantage rather than otherwise, for it is certain that the final outcome of a difference of opinion gives a greater guarantee that the matter in hand will be understood.

I feel that the whole of the members of the Board of Aldermen for the past year have performed their duties conscientiously, holding before all other considerations the best interests of the city.

Respectfully submitted,

JOHN GRANT,

Mayor.

Health Officer's Report.

VICTORIA, B. C., JAN. 8TH, 1890.

To His Worship the Mayor and Board of Aldermen:—

GENTLEMEN:—

I herewith submit my annual report for the past year ending 31st day of December, with the number of deaths and causes of each.

It is gratifying to note that although the city has increased materially in population, the death rate has been during the last year less than former years.

I give below the number of deaths for the year, and causes as furnished by me monthly to the Dominion statistical officer at Ottawa:

1889—

January	24
February	22
March	21
April	18
May	18
June	18
July	30
August	25
September	23
October	13
November	34
December	16
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Total ..	262

Deaths were caused from the following diseases:—

Diseases of the nervous system.....	34
“ “ “ lungs.....	56
“ “ “ heart.....	38
“ “ “ kidneys.....	15
“ “ “ digestive system.....	25
“ “ “ liver.....	9
“ “ “ blood and vessels.....	9
“ “ “ skin.....	2
“ “ “ premature development.....	22
“ “ “ killed by accident.....	2
“ “ “ poisoned.....	1
“ “ “ suicide.....	5
“ “ “ murdered.....	1
“ “ “ drowned.....	4
“ “ “ old age.....	8
“ “ “ rheumatism.....	7
“ “ “ throat.....	8
“ “ “ generative organs.....	3
“ “ “ typhoid fever.....	6
“ “ “ cancer.....	6
“ “ “ alcoholism.....	1
—	
Total.....	262

Complaints are made, and justly too, of the condition of vegetables brought to market by Chinese. It is most desirable that before long steps will be taken to govern the sale of such, and that such articles should be of good quality and not likely to be productive of injury to the consumer.

It is to be hoped the city authorities will, at as an early date as possible, enforce the proper construction and ventilation of sewers of houses, as in several cases diseases have been traced to the carelessness in the construction of house sewers, many of which have no proper outlet or ventilation.

Another source of evil is that some people within the city limits are using well water, which is no doubt a source of

disease. Wells within the more thickly populated part of the city should be filled up, and the use of water from such wells prohibited for household purposes.

I have the honor to be,

Your obedient servant,

G. L. MILNE, M. D. C. M.

Health Officer.

Report of Sanitary Committee.

VICTORIA, B. C.,

January 6th, 1890.

To His Worship the Mayor and Board of Aldermen—

GENTLEMEN :—

We beg to submit the following report on Sanitary matters :

That we are pleased to state that the city during the past year has been free from any serious epidemic, and that on the whole, considering the great want of proper sewerage, the health of the city has been good.

Numerous complaints having been made at the commencement of the year of the stench arising from the open drains, your committee were compelled to put on a larger force of men to clean out said drains, and also to put a horse and cart at the service of the Sanitary officer, to remove filth, etc., from the mains. A great many of these open drains have been replaced by box drains, but a large number still remain open. Your committee did not think it advisable to put the city to so large an expense as would be necessary to convert them into box drains, as we expected that by this time some system of sewerage would have been adopted. We hope that the incoming Council will at once stir in the matter of sewerage, as it will shortly be necessary to replace a large quantity of wooden drains that are rotting out, and in many instances where they are laid near to the surface are so saturated with sewerage matter that the stench arising from them is worse than that from open drains.

The increase in the number of box drains laid in '89 over those laid in '88 shows the necessity of a sewerage system

being at once adopted and carried out, since the cost of relaying old drains and of new drains required the coming year, will amount to a sum of money as large as the interest and sinking fund on a system of sewerage would amount to in the same period.

In conclusion, your committee recommend that where drains will remain undisturbed for a number of years by any system of sewerage, that earthenware pipe be substituted for wood; also, that water closets connecting with the present drainage system should be abolished, except where connections are being made and required to be made with Johnson street sewer.

[Signed]

J. B. HARRISON, Chairman,
W. D. McKILLIGAN,
Committee.

Sanitary Officers' Report.

VICTORIA, B. C.,

January 4th, 1890.

To His Worship the Mayor and Board of Aldermen —

GENTLEMEN :—

I have the honor to present my report upon the sanitary condition of the city, and progress have made, dating from 1st January up to December 31st, 1890. During the past summer I have examined a large portion of occupied buildings and in many cases found that the inhabitants had neglected sanitary duties.

Fully seven-eighths of the Chinese quarter was in a very filthy condition.

I need not comment upon the innumerable new box drains constructed by the corporation, giving opportunities to property owners to drain their premises: I have also to state that nine-tenths of entire surface drains are in good condition.

The large block bounded by Government, 'Douglas, Cormorant and Fisguard streets, has been drained by the property owners in a thorough manner, at considerable expense, and gives good satisfaction. Nearly every person with whom I came in contact, was only too willing to renovate his or her premises.

Your Sanitary Officer would recommend that Cook street drain, from Fort street running west, be boxed and filled up, and would report also that a portion of Pembroke street requires attention.

I also beg to inform you, that I have up to the present date, served 541 Notices, after personal inspection, 500 summonses, 11 requesting removal of nuisances. I cannot but compliment the inhabitants generally for the interest taken by them in assisting to promote the sanitary object "Cleanliness." Johnson street ravine has been practically protected, and cleansed to considerable extent, and in case of a heavy rainfall can be kept from overflowing. Every precaution is taken to keep the city in a cleanly and healthy state.

Box drains laid during the year:—

Johnson St. Ward	23	800	feet
Yates St. "	2	808	"
James Bay "	17	740	"
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		44	348 feet.

or over eight miles in length. In 1888, the total number of feet was 33,020, showing an increase for 1889 of 113,28 feet, also showing the necessity of a system of sewerage, for a greater number will be required next year unless your intention is to commence some system of sewerage, as a large number of wooden drains already laid, will have to be replaced, being entirely decomposed.

I trust the performance of my duties has met your general approval.

I have the honor to be Gentlemen,

Your obedient Servant,

BENJAMIN BAILEY,
Sanitary Officer.

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Report of Street Committee at Close of the Year 1889.

To His Worship the Mayor and Board of Aldermen:—

GENTLEMEN:—

Your Committee have the honor to submit the following statement shewing the work performed during the year, including contracts, box drains laid, rock taken out by steam drill, rock broken by rock crusher, rock broken by hand, streets macadamized and repaired, sidewalks laid by city carpenter.

WORK PERFORMED BY CONTRACT, 1889.

WARD	STREET	NATURE OF WORK.	COST.	CONTRACTOR
Yates street...	Yates	1 stone crossing.....	.....	H. McDonald
Yates st.	Wharf	2 stone crossings.....	\$ 476 19	H. McDonald
James Bay....	Government	1 stone crossing.....	.....	H. McDonald
James Bay....	Helleville.....	1 stone crossing.....	317 48	H. McDonald
Johnson st....	Henry	Graveling.....	572 05	J. Haggerty
Johnson st....	Blanchard.....	Graveling.....	283 00	J. Haggerty
James Bay....	Wharf	Blasting rock.....	245 00	J. Baker
Yates st.....	Yates, s side.....	Blasting rock.....	517 50	H. McDonald
James Bay....	Yates, n side.....	Blasting rock.....	1,440 90	H. McDonald
James Bay....	Superior.....	Grading and Cumbering	249 50	J. Cox
James Bay....	Dallas road.....	Grading.....	1,584 19	G. Lyall
Johnson st....	Rock Bay.....	New Bridge.....	9,005 88	Williams & West
Johnson st....	Work.....	Grading.....	2,329 95	J. Haggerty
James Bay....	Scoresby.....	Grading.....	212 25	W. Bond
James Bay....	Parkington.....	Grading.....	446 50	G. Lyall
James Bay....	Dallas Road.....	Graveling.....	986 00	W. Innes
James Bay....	St Johns.....	Graveling.....	166 00	A. Beswick
Johnson st....	Third.....	Brick Culvert.....	225 00	J. Haggerty
James Bay....	St Laurence.....	Brick Culvert.....	600 00	M. Humber
Johnson st....	Second.....	Brick Culvert.....	453 42	Ellsworth & Smith
James Bay....	Dallas Road.....	Crib work.....	375 00	J. Cox
James Bay....	Ontario.....	Blasting rock.....	515 25	T. Potter
Johnson st....	Third.....	Graveling.....	690 00	J. Baker
Johnson st....	Bay.....	Brick culvert and grad'g	605 75	W. Snider
James Bay....	Dallas Road.....	Grading.....	405 00	W. Snider
James Bay....	Belcher.....	Graveling.....	747 00	J. Baker
James Bay....	Humboldt.....	Grading sidewalk.....	335 98	J. Cox
Johnson st....	Henry.....	Graveling.....	308 00	J. Baker
Yates st....	School.....	Mov'g and paint'g fence	337 00	D. M. Ross
Johnson st....	Third.....	Grading.....	1,636 75	N. LeClaire

CONTRACTS ON HAND BUT NOT COMPLETED.

WARD.	STREET.	NATURE OF WORK.	COST.	CONTRACTOR.
James Bay ...	Catherine	Grading.....	...	J. Baker
James Bay ...	Superior	Graveling.....	...	J. Baker
Yates st.	View	Graveling.....	...	J. Baker
Yates & Jh'ns'n	Fernwood rd..	Grading.....	...	J. Cox
Johnson st ...	Discovery.....	Blasting rock...	...	W. Snider
Yates Street...	Yates.....	Blasting Rock.....	...	H. H. McDonald.

BOX DRAINS LAID DURING THE YEAR.

Johnson street ward.....23,800 feet
 Yates street ward.....2,808 "
 James Bay ward.....17,740 "

44,348 feet.

Cost, say, \$7,570 00

ROCK BROKEN BY HAND.

Johnson street ward.....2,420³/₄ yards
 Yates street ward.....2,633³/₄ "
 James Bay ward.....499¹/₄ "

3,192³/₄ yards

Cost, \$3,222.43.

ROCK TAKEN OUT BY STEAM DRILL.

James Bay ward, 5,000 yards; cost, say \$7,500 00.

ROCK BROKEN BY ROCK CRUSHER.

James Bay ward.....10,192 yards
 Yates street ward.....525 "
 Johnson street ward.....1,751 "

12,468

Cost, say, \$3,740.40.

ROCK TAKEN OUT BY CONTRACT.

Johnson street ward.....238 yards
 Yates street ward.....1,062 "
 James Bay ward.....2,535 "

3,835.

Cost, \$8,627.00.

NEW SIDEWALKS LAID BY CITY CARPENTER
DURING THE YEAR.

JOHNSON STREET WARD.

317 feet 3 feet wide
2180 " 4 " "
580 " 5 " "
6541 " 6 " "
50 " 7 " "
1818 " 8 " "
1573 " 10 " "
1332 " 12 " "

Cost, \$4,925.41.

JAMES BAY WARD.

324 feet 4 feet wide.
5173 " 6 " "
2570 " 8 " "
1036 " 10 " "
54 " 12 " "

Cost, \$2,430.52.

YATES STREET WARD.

851 feet 6 feet wide.
743 " 8 " "
1048 " 10 " "
4918 " 12 " "

Cost, \$2274.14

Total, 9630.07

ESTIMATED LENGTH OF SIDEWALK RELAID
AND REPAIRED BY CITY CARPENTER.

JOHNSON STREET WARD.

2415 feet 12 feet wide.
5259 " 10 " "
300 " 8 " "
2088 " 6 " "
300 " 3 " "

Approximate cost, \$1361.51.

JAMES BAY WARD.

	40 feet	12 feet	wide.
6021	"	10	" "
42	"	8	" "
446	"	6	" "
15	"	5	" "
50	"	4	" "

Approximate cost, \$909.11.

YATES STREET WARD.

	3924 feet	12 feet	wide.
3588	"	10	" "
350	"	8	" "
150	"	5	" "

Approximate cost, \$1285.82.

Total, \$3556.44.

At the close of the year 1888 the outgoing street committee recommended the prosecution of the work of filling at the site of Finlayson's bridge. This work has been carried on, and the Department of the Interior has conveyed the site to the city. Your committee would strongly recommend to the incoming Board of Aldermen that a retaining wall be built on the line of the west side of Government street, at the site above mentioned, and that application be made to the Dominion Government for a grant of that part of the foreshore extending northwards from the portion filled in by R. Finlayson, to mean water mark on the northern shore of Rock Bay; and extending westward from the street line on the west side of Government street, a distance of about 300 feet.

The National Electric Tramway Co. are pushing their work to completion, and it is hoped that the line will be in working order by the end of this month or early in February. The president of the company assures your committee that although the laying of the track has been productive of inconvenience to the public during its construction, he guarantees that on completion of the whole work the streets will be left in a satisfactory condition.

The Johnson street sewer is nearly completed and it is hoped that it will prove successful in diverting sewerage from entering the ravine. This work also caused great inconvenience to the residents and storekeepers along the line of route, and your committee regret to state that the contractor was not as energetic in putting the streets, through which the sewer runs, in proper order during the progress of the work as he should have been.

Dallas Road, from the outer wharf to Menzies street, has been completed and macadamized, and from Menzies street to Park boundary is also completed and gravelled. During the progress of this work a cut of about five feet was necessary near St. Lawrence street. Claims for damages to property have been put in, which is to be deplored, as it is impossible to grade streets properly without causing temporary inconvenience to property owners, and your committee consider the so-called damages more than counterbalanced by the enhanced value of the property consequent on the work. Your committee would recommend that the city members be requested to have section 193 of the Municipalities Act amended at the ensuing session, so as to give the Corporation power to make improvements without being subjected to vexatious and frivolous claims for damages.

The grading of Catherine street is nearly completed, and your committee would strongly recommend that the rock crusher be sent there early in the Spring to crush the rock and complete the street, as it will be one of the principal thoroughfares to Goodacre Lake and the most attractive portion of the park.

It is also desirable that about four feet should be taken off Marvin's Hill, and the road lying between that and Humboldt street raised about four feet at its lowest point. This work, if carried out, will make the grade easy.

The centres of the following streets have been defined by stone monuments placed at the governing points, and the positions of the said monuments have been plotted on the official map filed in the Registrar-General's office:—

Cadboro Bay Road from Moss street to eastern city boundary.

Chambers street from Queen's avenue to Pandora street.

Pembroke street from Chambers street to Fernwood road.

Chatham street " " " " " "

Pandora st. north " " " " " "

Putnam street " " " " " "

Alfred street " " " " " "

Fernwood road from Crdboro Bay road to Edmonton street.

Hillside avenue from Douglas street to Fourth street.

Bay street from Rock Bay avenue to Fourth street.

Gorge road from Government street to city boundary.

Rock Bay avenue from Gorge road to Bay street.

Bridge street from David street to Work street.

Turner street from David street to Work street.

Pleasant street from David street to John street.

Ellis street from L. idge street to Rock Bay avenue.

David street from Pleasant street to Gorge road.

Henry street from Pleasant to Government street.

Walnut street.

North road.

Ridge road.

Centre road.

Caledonia avenue.

King's road.

First street.

Second street.

Third street.

Fourth street.

South Turner street.

Highet street.

The plans for establishing the grades are ready and will be submitted to the commissioners at a very early date.

It will be observed in the list of work performed during the year that the bridge in St. Lawrence street has been removed and a brick culvert substituted in its place,

Similar improvements have been made on Bay street, Second street and Third streets.

The following streets have been macadamized and put in good repair, viz.:—

Dallas road, from outer wharf to Menzies street.

St. Lawrence street, from Kingston to Erie street, and widened to full width of 66 feet. Culvert built and bridge destroyed and done away with.

Yates street from Quadra to school reserve.

Cook street from Queen's avenue to Fort street.

Broad street from Broughton to Pandora street.

Johnson street from Wharf to Douglas.

Waddington alley.

Work street.

Belleville street from Oswego to Montreal.

Montreal street from Belleville to Quebec street.

Kingston street from Montreal to St. Lawrence street.

Erie street.

Quebec street. St. John's to Montreal.

Part of Menzies.

Part of Humboldt.

Langley street from Fort to Yates.

Wharf street—part of

Fort street—part of

The following streets have been repaired by darning with broken rock wherever urgently required:—

Chambers street.

Putnam street.

St. Louis “

Pandora “

Vancouver “

Quadra “

Farquhar “

Blanchard street,
 North Park "
 Pioneer "
 Chatham "
 Herald "
 Discovery "
 Fisguard "
 Pembroke "
 Queen's avenue.
 Douglas street.
 Rock Bay avenue.
 King's road.
 Bridge street.
 Store street.

In conclusion, your committee would urge upon the incoming board the advisability of requesting the Provincial Government to make an appropriation at the ensuing session for the construction of the road from Beacon Hill Park to Fairfield road.

Your committee have the

Honor to be,

Gentlemen,

Your obedient servants,

LOUIS VIGELIUS,

J. B. HARRISON.

Report of Water Commissioner.

VICTORIA, B. C.,
8th, January, 1890.

To His Worship the Mayor and Board of Aldermen:—

GENTLEMEN:

I have the honor to submit the following report of the condition of the Victoria Waterworks, showing the progress made during the past year in the effort to provide the City of Victoria with a system of water supply commensurate with her position as a rapidly growing centre of industry and maritime importance; as also to provide a fire protective supply of ample dimensions, so that in the event of an emergency, the city would not have the experience of several of her neighboring cities and have to chronicle the fact, that just when the supply was most wanted, at the critical moment it failed; and thereby involved a pecuniary loss which would have provided an ample water supply four or five times above every requirement. The principal improvement effected during the past year has been the laying of a new steel main of 16 inches diameter, from the headworks to city, and which is primarily designed for a high service supply to the Eastern portion of the city.

THE 16 INCH MAIN.

The total length of the 16 inch main is 27,200 feet, from the dam to the terminal point in the Work Estate; and in

preparing the trench 2,569 solid cubic yards of rock were blasted out, requiring 3,350 lbs of Giant Powder in the removal of it.

13,882 solid cubic yards of earth were excavated from the trench, and afterwards used in refilling or embankment.

2,717 cubic yards of rock and earth were placed in embankment and in covering the pipe over embankments.

480 linear feet of trestle work over Snyder's Ravine were constructed (of sufficient width and strength for 2 mains) and containing 7,173 cubic feet of timber.

Two and a half miles of roadway have been opened along the pipe line from the City to the Saanich Road; and $\frac{3}{4}$ of a mile from where the pipe leaves the Saanich Road up to the dam, so that the entire length of the main is accessible at every point, and a team can be driven from one end to the other. From the city to the Saanich Road, the pipe line 40 feet wide is fenced on both sides, and bridges have been constructed where necessary.

Six rubble masonry culverts with brick arches, have been constructed over streams, at points where necessary for the pipe to pass over.

The total cost of the 16 inch steel main, complete in every particular, is given herewith in the subjoined statement, except that it also includes the cost of half a mile of the heaviest work on the whole line, that was prepared for the 24 inch steel main (now under contract) and was more advantageously performed at the time, than could afterward be done when the 16 inch main was in situ.

ALBION IRON WORKS Co., ACCOUNT FOR STEEL MAIN AND FITTINGS.

27150 feet of 16 inch rivetted Steel Main, of No. 12 B. W. G.	\$40,182 00
17065 lbs of special castings, Tees, Bends and Branches.	597 27
One 16 inch and two 12 inch stop valves.	435 00
Five 6 inch flush valves.	375 00
Ten 2 inch Chabot air valves.	250 00
Valve key and valve box.	9 75
Total cost of main and fittings as laid.	<u>\$41,849.02</u>

RIGHT OF WAY ACCOUNT FOR STEEL MAIN.

Victoria District, Section 62, Tolmie Estate, 4,195 feet in length, 40 feet wide, fenced on both sides by the estate; also compensation for interference with water privileges, Area 3.85 acres.....	\$1,500 00
Victoria District, Section 32, Hudson Bay Co's Estate, 4329 feet in length, 40 feet wide, fenced on both sides by the estate also compensation for interference with water privileges Area 3.97 acres.....	\$1,650 00
Lake District, Section 9, Manson Estate, 1,090 feet in length, 40 feet wide till the old main is reached, afterwards 28 feet wide in addition to the old line of 12 feet in width, area 0.8962 acres @ \$100.00 per acre.....	\$ 89 62
Lake District, Section 108, Goyette Estate 2,520 feet in length, 28 feet wide in addition to the 12 feet width of the old pipe line, area 1.6198 acres @ \$100.00 per acre.....	\$ 161 98
Victoria District, Section 64, McKenzie Estate. 1,888 feet in length and 40 feet wide; was fenced on both sides by the Corporation, Area 1.73 acres.....	\$ 50 00
Victoria District, Section 4, Work Estate, 2,788 feet in length, 40 feet wide, area 2.56 acres. No charge was made for this land, but it was fenced on both sides, and provided with gates etc. by the Corporation.	
1200 cedar fence posts for fencing the Work and McKenzie Estate.....	\$ 108 00
Lumber for fencing, Gates, fastenings, etc.....	\$ 325 50
The labor for the fencing is not included here, ' ut is given in the account of the pay list.	
Total amount of right of way, and which gives a road along the entire pipe line.....	\$3,885 10

LABOR ACCOUNT FOR TRENCHES, ROADWAY ETC.

By resolution of the Board of Aldermen, all work in connection with preparing the pipe trenches, roads etc. was executed by day labor as per following summary of pay lists:—

1888.	December.	86	men	employed,	as	shown	on	the	pay	list...	\$2,674	29
1889.	January.	125	"	"	"	"	"	"	"	"....	3,773	44
"	February	120	"	"	"	"	"	"	"	"....	2,776	92
"	March	104	"	"	"	"	"	"	"	"....	4,156	81
"	April	117	"	"	"	"	"	"	"	"....	4,156	43
"	May	146	"	"	"	"	"	"	"	"....	5,849	73
"	June	105	"	"	"	"	"	"	"	"....	4,266	08
"	July	50	"	"	"	"	"	"	"	"....	2,420	68
"	August	63	"	"	"	"	"	"	"	"....	1,491	55
"	September	43	"	"	"	"	"	"	"	"....	1,718	22
"	October	39	"	"	"	"	"	"	"	"....	1,650	86
"	November	37	"	"	"	"	"	"	"	"....	1,657	96
"	December	31	"	"	"	"	"	"	"	"....	896	95

Total amount paid out for men's pay during a period of
12 months\$37,489 92

And which not only represents the work required for the 16 inch main, but also fencing, roadmaking and building trestle work and rock causeway; blasting through Snyder's Hill down to grade—together with double width of trestle work and rock causeway for a distance of half a mile of the heaviest work on the pipe line.

THE ACCOUNTS

for materials required in the construction of the works were as follows:—

Mason work for culverts.....	\$ 231	50
Giant powder for blasting purposes.....	1083	35
Coal for smith's forge, etc.....	71	75
Tools, stores, fuze, caps, steel for drills, etc.....	1170	08
Lumber for sheds, cribbing, trestle work, etc.....	124	80
Bricks and lime for culverts.....	179	50
Timber for constructing 480 linear feet of trestle work, etc.....	246	00
Teams hauling rock, earth and timber.....	2527	80
Hacks, drayage and expressage.....	211	75
Medical fees, compensation for damages and sundries.....	68	50

Total account for supplies and materials, etc\$5914 58

TOTAL COST OF 16-INCH MAIN COMPLETED.

Albion Iron Works account as above.....	\$41849 02
Right of way " " "	3985 10
Labor account as above.....	37489 92
Stores, materials and sundry account.....	5914 58
	<hr/>
Grand total cost of main as completed.....	\$89138 62

The cost of trebling the supply of water that can be delivered in the city in any given time, is thus very far below any estimate that has been brought forward as an argument in favor of temporary works, as against a second main from the lakes to the city.

The following data relative to the water supply of Victoria are given to show what effect the construction of the 16 inch main has had upon the waterworks in the city:—

The elevation of the top of the dam at Beaver Lake at the point at which the lake is full to overflowing is 191.59 feet above high water mark, Victoria harbor; referred to the city datum.

The elevation of the entry end of the 16-inch main where it leaves the wall of the receiver is 180 feet above high water mark.

The elevation of the entry end of the old 12-inch main is also 180 feet.

When the receiver at the head works is full and overflowing the south wall, its elevation is 188.04 feet above high water mark.

The elevation of the water in Beaver and Elk lakes at the present time is 188.50 feet above high water mark.

But since the entry ends of both the 16-inch and 12-inch mains are in the receiver, it is very evident that if the water in the mains in the city was level with the water in the receiver, the maximum pressure obtainable, or the greatest elevation to which the water would rise, would be 188 feet above high water mark.

By reference to page 37 of the annual reports of the Corporation of the city of Victoria for the year ending 31st December, 1888, it is seen that during December, 1888, the water stood in the city mains by gravitation as follows :

During the night at an altitude of 160 feet above high water mark, showing an hourly consumption of 26,000 imperial gallons.

Between 7 a. m. and 9 a. m. it had fallen to 140 feet above high water mark with an hourly consumption of 33,000 gallons.

By mid-day it had fallen to 130 feet above high water mark, indicating an hourly consumption of 37,000 imperial gallons.

Whilst during the afternoon it stood at about 145 feet above high water mark, with an hourly draught of 31,000 imperial gallons.

This represented the effect of the varying consumption upon the city waterworks when supplied by only one 12-inch main.

The following table shows at a glance the difference in pressure in the street mains, fire hydrants, and service pipes in December, 1888, and December, 1889, although 11 per cent. more services are supplied now than there were a year ago.

	December, 1889	December, 1888
Elevation of water in mains between 7 A. M. and 9 A. M.....	140 ft above H W M.	175 ft above H W M.
Hourly consumption during same period..	33,000 imp galls.	52,000 galls.
Elevation of water in mains from 9 A. M. to noon.....	130 feet.....	175 feet.
Hourly consumption during same period..	37,000 galls.....	52,000 galls.
Elevation of water in mains from noon to 6 p. m.....	145 feet.....	175 feet
Hourly consumption during same period..	31,000 galls.....	52,000 galls
Elevation of water in mains from 6 p. m to 11 p. m.....	150 feet.....	180 feet
Hourly consumption in same period.....	29,000 gallons.....	41,000 gallons
Maximum elevation attained between 11 p. m and 4 a. m.....	160 feet.....	185 feet
Hourly consumption in same period.....	26,000 galls.....	26,000 galls.
Elevation of water in mains between 4 a. m. and 7 p. m.....	150 feet.....	180 feet.
Hourly consumption in same period.....	29,000 galls.....	41,000 galls.

It will thus be seen that during the day time, the pressure over the entire system of street mains, service pipes and fire hydrants has been increased by from 13 to 19½ lbs per square inch, and with the consumption increased about 50 per cent. owing in a great measure to the increased pressure; whilst in the night time the pressure has also been increased by from 11 to 13 lbs per square inch and the water delivered at an elevation 25 feet higher during the night time than heretofore recently.

A comparison of the altitudes given of the lake etc., and the height of the water in town, will clearly show that very

nearly all that is possible has been obtained in the way of pressure from our present headworks, and that three times the amount of water can be delivered in the city in the same period of time as formerly.

Numerous observations and exploratory surveys have been made in connection with Beaver and Elk lakes and their vicinity; but in view of the suit of the property owners along the Colquitz stream versus the Corporation being still pending, it would scarcely be judicious to embody the results obtained, in the present report; observations of rainfall, evaporation and other data have also been collected, but for the same reason are withheld.

EXTENSION OF THE MAINS IN THE STREETS OF THE CITY.

The distributing mains throughout the city have been extended during the past year as follows:—

Chatham street, 1,408 feet of 4-inch mains.

Chatham street and Cook streets; 4x4 Tee and 4-inch valve for fire hydrant.

Chatham street and Quadra streets; 4x4 cross. Two 4-inch valves.

This gives a continuous line of 5-inch main from the 12-inch main on Cook street to the 12-inch main on Douglas street, along Chatham street, thus obtaining circulation of water in the mains.

Mason street, 716 feet of 4-inch mains, and Vancouver street, 105 feet of 4-inch main.

Mason and Vancouver street, 4x4 Tee and 4-inch valve.

Mason and Quadra street, 4x4 Tee and 4-inch valve.

Quadra street, 147 feet of 4-inch main.

Cormorant street, 319 feet, of 4-inch main.

Cormorant street and Quadra street, 4x4 Tee and 4-inch valve.

Cormorant street and Amelia street, 5x4 Tee and 4-inch valve.

This gives a continuous line of 5-inch main from the 11-inch main on Douglas street up Cormorant street to Amelia street; then a 4-inch main up Cormorant street to Quadra street, along Quadra street to Mason street; along Mason street to

Vancouver street; along Vancouver street to St. Louis street; and along St. Louis street to the 12-inch main on Cook street, and removes some very objectionable "dead ends" besides affording a supply to streets which had none previously.

Bellot street, 693 feet of 4-inch main.

Bellot street and Cook street, 4x4 Tee and 4-inch valve for fire hydrant.

Bellot street and Vancouver street, 4x4 Tee and 4-inch valve.

Vancouver street, 110 feet of 4-inch main.

Burdette avenue, 671 feet of 4-inch main.

Burdette avenue and Vancouver street, 4x4 Tee and 4-inch valve.

Burdette avenue and Quadra street, 4x4 cross and 4-inch valve.

Quadra street, 60 feet of 4-inch main.

This gives a continuous line of 5-inch main from the 7-inch main on Douglas street, along Rae street to Quadra street, and thence of 4-inch main along Quadra street to Burdette avenue, along Burdette avenue to Vancouver street, along Vancouver street to Bellot street, and along Bellot street to the 12-inch main on Cook street.

The advantages of this line are very apparent on the high plateau around the Episcopal Cathedral, besides affording an improved supply to a rapidly extending portion of the city.

Fort street, 1,156 feet of 6-inch, 60 feet of 5-inch and 120 feet of 4-inch mains.

Fort street and Douglas street, 9 to 6 reducer and one 6-inch valve.

Fort street and Broad street, two 6x4 Tees; two 4-inch valves, one 4x4 Tee and one 4-inch valve for fire hydrant.

Fort street and Government street, 6x5 cross and two 5-inch valves.

Fort street and Langley street, 6x4 cross, two 4-inch valves; 4x4 Tee and one 4-inch valve for fire hydrant.

Fort street and Wharf street, 6x4 cross and two 4-inch valves.

This line of 6-inch main from the 9-inch main on Douglas street, was put down chiefly for fire protection and replaced

615 feet of 2½-inch pipe from the Douglas street 9-inch main to the Government street 4-inch main.

The fact of there being three elevators on Wharf street as well as a considerable draught on the mains for steamer purposes, led to the 6-inch main being continued down to Wharf street and connected with the 4-inch main already laid on that street and connected with the 5-inch main on Yates street.

Johnson street, 1203 feet of 6-inch and 120 feet of 4-inch mains.

Johnson street and Douglas street, 10-inch to 6-inch reducer and one 6-inch valve; one 6x4 Tee and one 4-inch valve for fire hydrant.

Johnson street and Broad street, 6x4 cross, two 4-inch valves; 4x4 Tee and one 4 inch valve for fire hydrant.

Johnson street and Government street, 6x4 cross and two 4-inch valves.

Johnson street and Oriental alley, 6x4 Tee and one 4-inch valve for fire hydrant.

Johnson street and Store street, two 6x4 Tees and two 4-inch valves and 4 inch valve for fire hydrant.

This line of 6-inch main from the 10-inch main on Douglas street, replaced an equal distance of old 2½-inch main, and was laid down for similar reasons to the 6-inch main on Fort street; thus giving a well connected system of water mains on Johnson, Yates and Fort streets in one direction, and Douglas, Government and Wharf streets in the other.

Store street, 140 feet of 5-inch and 115 feet of 4-inch mains.

This line replaced 220 feet of old 2-inch cast iron water pipe from the 5-inch main at the corner of Store and Cormorant streets to the fire tank at the corner of Store and Johnson streets.

The 2-inch pipe was broken in three different places by settlement caused by sewer excavations, and after the completion of the sewer, the line was relaid and connected with the 6-inch main on Johnson street, thus giving through circulation of water from Discovery street to Fort street, along Store and Wharf streets.

North Park street, 710 feet of 4-in. h main.

North Park street and Chambers street, 4x4 Tee and one 4-inch valve for fire hydrant.

This main from the 12-inch main on Cook street was put in for domestic supply and fire protection purposes in the rapidly growing section east of Cook street; and replaced 400 feet of 1-inch screw pipe which was supplying two houses.

Amelia street, 394 feet of 4-inch main.

Amelia street and Pandora street, 4x4 Tee and one 4-inch valve.

This main, taken from the 5-inch main on Cormorant street, was laid to afford an increased supply, replacing 210 feet of badly corroded 1½-inch screw pipe; the main was carried through to Pandora street and connected with the 2½-inch main on that street, one-third of the distance between the 11-inch main on Douglas street and the 12-inch main on Cook street, thus affording an increased supply to Pandora street, in addition to the street on which it was laid.

Rock Bay avenue, 1132 feet of 4-inch main.

Rock Bay avenue and Gorge road, 4x4 Tee and one 4-inch valve.

Rock Bay avenue and Ellice street, 4x4 Tee and one 4-inch valve.

Rock Bay avenue and David street, 4x4 cross.

Rock Bay avenue and Henry street, one 4-inch valve.

Rock Bay avenue and John street, 4x4 cross; one 4-inch valve.

Rock Bay avenue and Bay street, 4x4 cross; one 4-inch valve.

These lines of mains extend from the 5-inch main on Henry street to the 4-inch main on the Gorge road in one direction; and from the 4-inch main on John street to the 2-inch pipe on Bay street in the other; and were put in for domestic supply purposes.

Ellice street, 668 feet of 4-inch main.

This main extends from the 4-inch main on Rock Bay avenue down to the water front, and was put in for domestic supply purposes.

Menzies street, 884 feet of 4-inch main.

Menzies street and Superior street, 4x4 cross; two 4-inch valves; one 4-inch valve for fire hydrant.

Menzies street and Kingston street, 4x4 Tee; one 4-inch valve.

Menzies street and Quebec street, 4x4 Tee; one 4-inch valve; 4x4 Tee and one 4-inch valve for fire hydrant.

This main is a continuation of the 4-inch main on Menzies street from the 7-inch main on Simcoe street down to Superior street. It replaces an old wooden 3-inch main which was a source of endless trouble, owing to the frequency with which it burst.

Oswego street, 301 feet of 4-inch main.

Oswego street and Belleville street, 4x4 Tee, one 4-inch valve; 4x4 Tee and one 4-inch valve for fire hydrant.

This main is a continuation of the 5-inch main on Oswego street from the 6-inch main on Simcoe street, and which was laid in 1888. It thus completes the Oswego street main from Simcoe street to the water front, and replaces an old length of 1½-inch screw pipe which was found in very bad condition.

Montreal street, 2,279 feet of 4-inch main.

Montreal street and Simcoe street, 4x4 Tee and one 4-inch valve for fire hydrant.

Montreal street and Ontario street, 4x4 Tee.

Montreal street and Michigan street, 4x4 cross; one 4-inch valve.

Montreal street and Superior street, 4x4 cross; two 4-inch valves.

Montreal street and Kingston street, 4x4 cross; one 4-inch valve; 4x4 Tee and one 4-inch valve for fire hydrant.

Montreal street and Quebec street, 4x4 Tee; one 4-inch valve.

Montreal street and Cross street, 4x4 Tee.

Montreal street and Belleville street, 4x4 Tee; one 4-inch valve; 4x4 Tee and one 4-inch valve for fire hydrant.

This main extends along Montreal street from the 6-inch main on Simcoe street (laid in 1888) down to the water front, (replacing 498 feet of old 1½-inch screw pipe from Quebec to

Belleville streets) and being connected with the 2-inch screw pipe on Quebec street, the 1½-inch screw pipe on Belleville street and the 1¼-inch screw pipe on Superior street.

These old screw pipes have now only to do duty for the block extending from one street to the next, as each of them is connected with the 4-inch main on Menzies street, the 5-inch main on Oswego street, and the 4-inch main on Montreal street, so far as relates to the pipes on Quebec street and Superior streets; and the pipe on Belleville street is connected with the 4-inch mains on Oswego street and Montreal streets. This rapidly growing section of the city is now afforded a vastly improved domestic supply and fire protection.

Moss street, 951 feet of 5-inch main.

Moss street and Belcher street, 5x5 cross; one 5-inch valve; 5x4 Tee and one 4-inch valve for fire hydrant.

This line of main laid from the 6-inch main put down on Fort street in 1888, replaces an equal length of 1½-inch pipe which was in very bad condition, and is for the purpose of affording fire protection and increased domestic supply to a section of the city which is rapidly being built up.

The value of this main for fire protection was strikingly shown in the alarm sent in from Government House shortly after the main was laid, as the fire hydrant at the corner of Moss and Belcher street gave an opportunity of getting water 1,000 feet nearer to the scene than from any other point.

Herald street, 630 feet of 5-inch main.

Herald street and Douglas street, 12 to 5 reducer, and one 5-inch valve.

Herald street and Blanchard street, 5x5 Tee.

Pleasant street, 303 feet of 4-inch main.

Pleasant street and John street, 4x4 Tee; one 4-inch valve; one 4-inch valve for fire hydrant.

These mains are laid on streets which had no pipes previously where these are laid, and are intended for further extension at an early period.

The number of street valves placed in the street mains during the past year are two 6-inch, four 5-inch, and forty-four 4-inch—independent of twenty-eight 4-inch valves placed in the mains for fire hydrants.

The street mains of the water works have thus been extended during the year by

2,359 linear feet of 6-inch cast iron mains.
 1,781 “ “ 5 “ “ “ “
 11,255 “ “ “ “ “ “ “

Whilst the following table for the years 1888 and 1889 show the total amount of mains of different diameters that have been laid for the extension of the Victoria waterworks.

Year.	16in steel	12in Cast	8in Cast	7in Cast	6in Cast	5in Cast	4in Cast
1888	.....	10250 ft	1790 ft	3591 ft	5404 ft	9124 ft	2042 ft
1889	27150 ft	40 ft	.....	.....	2359 ft	1781 ft	11255 ft
Total....	27150 ft	10290 ft	1790 ft	3591 ft	7823 ft	10905 ft	13897 ft

It will thus be perceived that during the past two years more mains of four inches diameter and upwards have been laid in the Victoria waterworks system than had been laid during the whole period previously, from the building of the works in 1874 to 1888.

The effect of the extension of the water works is shewn in the following table, showing the value of the water mains and hydrants for fire protection as likewise the pressure in the mains for manufacturing purposes, domestic supply, and anterior fire protection.

The hourly draught on the mains for manufacturing and domestic consumption averaged about 50,000 imperial gallons, whilst although in some sections of the city there was a much heavier draught than in others; still the results obtained by circulation, point to the value of having all street mains connected at both ends when possible.

The column of “elevation of hydrants above H. W. M.” is referred to city datum, and except in those cases marked “about” are accurate.

The “initial pressure” was the pressure on the hydrant with only the ordinary consumption going on, and which averaged, as stated, about 50,000 imperial gallons per hour. The “re-remaining pressure” was measured whilst the hydrant was throwing a 2½-inch fire hose stream through a 1-inch nozzle; whilst the distance thrown is shown in the last column. Different directions and force of wind will explain the differences perceptible in this column.

LOCATION OF HYDRANT	Elevation of Hydrant Above H. W. M.		Size of Main		Initial Pressure on Hydrant.	Remaining Pressure on Hydrant.	Distance the Stream was Thrown.
	ft.	in.	lbs.	lbs.	ft.		
N W cor Cook street and Johnson street.....	74	12	48	42	107		
N E cor Cook street and Fort street.....	61	12	52	47	101		
N W cor Cook street and Bellot street.....	61	12	58	48	110		
N W cor Cook street and Franklin street.....	53	12	57	52	114		
N E cor Simcoe street and Carr street.....	48	7	58	49	116		
N W cor Simcoe street and Menzies street.....	47	7	58	49	116		
N W cor Simcoe street and Oswego street.....	23	6	68	58	110		
N E cor Simcoe street and Montreal street.....	22	6	68	58	113		
N W cor North Park street and Chambers street.....	98	4	38	27	72		
N W cor Yates street and Vancouver street.....	65	3	50	25	80		
N W cor View street and Vancouver street.....	58	5	52	41	90		
N W cor View street and Cook street.....	66	5	48	38	94		
N E cor View street and School street.....	about 101	5	37	26	84		
N E cor Fort street and Moss street.....	125	6	27	22	66		
S W cor Helcher street and Moss street.....	112	5	32	26	75		
S W cor Cadboro Bay road and Pemberton road.....	149	6	14	9	41		
N W cor Birdcage walk and Michigan street.....	about 25	4	63	40	106		
S W cor Birdcage walk and Superior street.....	about 25	4	64	45	114		
N W cor Menzies street and Michigan street.....	24	4	65	45	113		
S E cor Menzies street and Superior street.....	24	4	66	47	118		
S W cor Menzies street and Quebec street.....	24	4	65	42	104		
N E cor Oswego street and Michigan street.....	18	4	68	40	96		
S W cor Oswego street and Belleville street.....	16	4	69	36	100		
N E cor Montreal street and Kingston street.....	2	4	66	35	110		
S E cor Montreal street and Belleville street.....	15	4	68	35	112		

With increased consumption in the city, these pressures will be reduced in proportion as the ratio between the capacity of the supply mains and the draught upon them is diminished.

EXPENDITURE IN THE CITY.

The expenditure on the extension of the water works in the city of Victoria, together with the cost of maintenance is given in the following table, also showing to what fund the same is chargeable:

DETAILS.	\$50,000 Loan.	General Revenue
Salaries for the year.....	\$	\$2570 00
Pay of Workmen employed in the city.....	6028 47	3836 91
200 tons of cast iron pipes of 4, 5 and 6 inch diameter	11391 17	.....
Valves, special castings, brass goods, meters, etc.....	3151 28	2311 36
Pig lead, for joints in street mains.....	404 25	230 45
Lead pipe for services.....	206 05	735 47
Tools for workshop, etc.....	162 20	108 75
Stores, steel, nails, sundries, etc.....	181 03	148 74
Coal for fire, forge and street work.....	85 00	52 00
Lumber for shops, sidewalks, repairs, etc.....	83 59	106 24
Bricks for valve chambers, etc.....	78 00	44 00
Drays of pipes, hauling rock, sand, gravel etc.....	219 30	176 50
Expense of tools, workmen and sundries.....	83 00	399 60
Hack line connection with general works.....	.....	202 50
Wood for steam pump.....	.....	231 23
Repairs to steam pump.....	.....	87 16
Repairs to dam at head works.....	.....	174 16
Charcoal for filters.....	.....	29 50
Assistance to caretaker cleaning filters.....	.....	86 30
Giant Powder for town.....	.....	15 75
Lime and sand.....	.....	18 00
Stationery.....	.....	8 80
Sundry expenditures, dinner at Stevens, etc.....	.....	206 63
Total expenditure in the city.....	\$22015 34	\$11851 17

In addition to the expenditure incurred on the 16-inch main, and which is chargeable to the \$70,000 loan, 72 47-100 acres of land at the mouth of Elk lake have been purchased from the Bank of British Columbia at a cost of \$1,449.40:

HYDRANTS.

Twenty-two new fire hydrants have been placed in position during the year, and six defective ones have been cut out and replaced.

The total number of fire hydrants now connected to the mains is 82, whilst their relative value for fire purposes is given in the preceding tables.

SERVICES.

During the past year 186 new services have been connected with the mains, making a total of 1,924 services connected with the water works system of Victoria.

The number of new dwellings connected with services already supplying houses, during the year, was 15.

The cost to the waterworks of putting in the services, in labor, lead pipe, brass fittings, etc., was \$1,907 77, and does not include the cost of cleaning, fitting and coating the old pipes, which when dug up whilst relaying street mains, were used in extending the water supply to outlying houses in streets which are not graded; in some cases not taken over by the city, and in other cases scarcely cleared; but if new pipes were required to make these extensions, it would involve a large outlay, either for the city or parties supplied, or both.

METERS.

The total number of meters in use, together with the quantity of water measured by them, is given in the following table: All meters are Worthington pattern.

5 three-inch meters measuring in	December	637	thousand	gallons.
2 two-inch	"	231	"	"
5 one and half-inch	"	281	"	"
7 one-inch	"	162	"	"
16 three-quarter inch	"	625	"	"
46 five-eighth inch	"	750	"	"
81 of sizes		2686	thousand	gallons.

The tables of consumption of water by meter show that nearly three times as much water was measured in 1889 as in 1888,

During the past year the price of water by meter has been reduced from 50 cents to 30 cents per 1000 gallons, which afforded material relief to large consumers; but even at this figure, taking the consumption of the city at the meter rates, and then compare it with the revenue derived from it as per following table, it will readily be perceived that there is a very wide margin somewhere.

The revenue derived during 1888 is herewith given for comparison:—

	WATER RENTS		SERVICES	
	1888	1889	1888	1889
January.....	\$2,479 75	\$3,446 04	\$ 30 00	\$ 114 00
February.....	2,272 29	2,150 41	20 00	62 00
March.....	2,365 70	2,358 52	10 00	50 00
April.....	3,147 95	3,315 72	70 25	62 50
May.....	2,581 00	2,671 02	55 00	102 00
June.....	2,924 97	4,004 97	70 00	215 00
July.....	3,434 95	3,926 06	97 00	247 00
August.....	2,468 97	2,950 19	90 00	173 00
September.....	2,437 38	2,972 49	60 00	155 00
October.....	3,282 85	3,708 84	85 00	140 00
November.....	4,869 28	3,083 30	238 40	125 00
December.....	4,479 48	5,787 74	193 87	173 00
Total for Year.....	\$36,744 41	\$40,465 30	\$1,019 52	\$1,827 50

Street grading, sidewalks and box drains have occasioned 63 bursts and cut services, which were repaired by the water works at a cost of \$247 70. Sewer operations and construction occasioned 18 bursts and broken services which were repaired by the waterworks at a cost of \$88 90.

The following lengths of cast iron pipes for street mains are on hand and available for future extension: —

220 feet of 12-inch.

48 " " 8 "
 81 " " 7 "
 1,578 " " 6 "
 1,055 " " 5 "
 9,612 " " 4 "

A great deal of work requires to be done in the way of replacing the small pipes in built up streets in the city, as in most instances they are choked with rust and sediment; which together with the continued requirements of extension, will keep the water works department fully employed the coming year.

I have the honor to be,
 Gentlemen,

Very respectfully,

PETER SUMMERFIELD,
Water Commissioner.

JOHN COUGHLAN,
 W. D. McKILLICAN,
 W. M. WILSON,
Water Committee.

Report of Committee on Electric Light and Street Lighting.

VICTORIA, B. C.,
2nd January, 1890.

To His Worship the Mayor and Board of Aldermen:—

We, your committee on "Electric Light and Street Lighting," in a review of the transactions in that department covering the year just closed, beg to report as follows:—

Taking up the work where our predecessors left it at the time when the care of the electric lighting service was intrusted to us, as your committee, at the commencement of the municipal year of 1889, we found the lighting capacity of the city plant to consist of one No. 7 Brush dynamo and one No. 5 Brush dynamo, operating 15 double lamps as follows:

- 5 on mast corner Government and Yates.
- 4 " " " Blanchard and Churchway.
- 4 " " " Blanchard and Chatham.
- 2 " " " King's Road and 2nd street.

This part of the service remains unchanged.

In addition to the above the service at that time included two Sperry dynamos, operating 40 lamps as follows:

- 4 on mast corner Government and Douglas.
- 4 " " " Menzies and Simcoe.
- 4 " " " Cadboro Bay road opposite Shoal Res.
- 2 " " " North Park and Cook.
- 2 " " " Spring Ridge.
- 3 " " " John and Turner.

1 at the Engine House, and
20 single lights on 30-foot poles, as follows:

Corner Discovery and Store.

- " Herald and Store.
- " Cormorant and Store.
- " Government and Fisguard.
- " Douglas and Pandora.
- " Amelia and Pandora.
- " Vancouver and Pandora.
- " Blanchard and Johnson.
- " Douglas and Johnson.
- " Wharf and Johnson.
- " Quadra and Yates.
- " Vancouver and View.
- " Blanchard and View.
- " Langley and Bastion.
- " Wharf and Bastion.
- " Wharf and Fort.
- " Douglas and Fort.
- " Broughton and Broad.

North end James Bay bridge.

South end James Bay bridge.

This portion of the lighting plant was discovered to be in an inefficient condition, and not apparently able to stand the strain which was needed to be put upon it in order to operate the lamps over so long a circuit; as a consequence, the plant frequently became disabled, and your committee deemed it prudent to recommend the purchase of a Ball plant, having a capacity of two dynamos and seventy-five lamps (the use of which would be discontinued) the remainder to be utilized in further extending the system.

This proposition was acted upon by the Council, the machinery, etc., purchased in due course, and the 75 Ball lamps have been placed as follows:

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Government and Douglas.....	4
Cadboro Bay road opp. School Reserve.....	4
Menzies and Simcoe.....	4
North Park and Cook.....	3
Spring Ridge.....	2
John and Turner.....	2
Pleasant and Work.....	1
Bridge and David.....	1
Bridge and Work.....	1
Hillside and Second.....	1
Douglas and Queen's avenue.....	1
Government and Princess avenue.....	1
North End and Constance.....	1
Store and Discovery.....	1
Store and Herald.....	1
Store and Cormorant.....	1
Government and Fisguard.....	1
Douglas and Fisguard.....	1
Pioneer and Quadra.....	1
Cormorant and Blanchard.....	1
Cormorant and Government.....	1
Broad and Pandora.....	1
Douglas and Pandora.....	1
Amelia and Pandora.....	1
Vancouver and Pandora.....	1
Royal Hospital.....	1
Blanchard and Johnson.....	1
Douglas and Johnson.....	1
Oriental alley and Johnson.....	1
Wharf and Johnson.....	1
Yates and Waddington alley.....	1
Yates, between Douglas and Blanchard.....	1
Yates and Quadra.....	1
Yates and Cook.....	1
Vancouver and View.....	1
View and Blanchard.....	1
Langley and Bastion.....	1
Wharf and Bastion.....	1
Chancery and Court.....	1
Wharf and Fort.....	1
Douglas and Fort.....	1
Quadra and Fort.....	1
Broad and Broughton.....	1
Langley and Broughton.....	1
North end James Bay bridge.....	1
South end James Bay bridge.....	1

Carried forward..... 59

Brought forward.....	59
Collinson and Vancouver.....	3
Birdcage and Michigan.....	1
Simcoe and Carr.....	1
Menzies and Kingston.....	1
Oswego and Michigan.....	1
Kingston and St. John.....	2
Laurence and Superior.....	1
Erie and Dallas Road.....	1
Laurence and Simcoe.....	1
Montreal and Niagara.....	1
Trounce avenue and Broad.....	1
Electric Light station.....	2
	—
Total.....	75

The 35 additional lamps put up during the past year necessitated the purchase of material for, and the construction of six miles of line; the erection of two masts and twenty-nine lamp poles for individual lamps, and with a view to the facilitation of lamp-trimming, the 20 old individual lamp poles, with one exception, have been replaced by neat painted cedar supports, with lamp-lowering gear.

The two Sperry dynamos with about 30 lamps in fair condition, are stored at the works. They would be useful for service singly, on short circuits, in mills or factory, and we would recommend that they be offered for sale.

During the past season the speed of the 14x18 engine was increased from 105 to 161 revolutions, and since that time has been doing the work formerly accomplished with the aid of the 10x12 engine; but your committee are of opinion that the power, both in point of kind and quantity, is unsuited to the service, and in order that the department may keep pace with the recurring needs of our fast growing city, your committee think it needful that further extensions of the lighting system should be immediately undertaken by the incoming Council, and to this end they would respectfully recommend the sale of the present engines and boilers, and the purchase of desirable machinery capable of developing 175 to 200 H.P., say 175 H.-P. engines with 225 H.-P. boiler capacity, which

your committee believe will meet the requirements for power during the life of said machinery; and they would further recommend that, simultaneously with the effort to obtain greater driving power, negotiations be entered upon, pointing to the purchase of additional electrical plant to meet the ever increasing demand for light, where the streets have become darkened through the erection of high buildings, &c.

Your committee would also draw attention to the desirability of so arranging the electric light station that the shafting may be overhead, a position very much better suited to the working of dynamos, and one which would greatly economize floor space, to the accommodation of many additional machines.

A vast improvement would also be effected, if each dynamo working from the main shaft were so provided with loose pulleys as to be capable of being started, or stopped, at pleasure, without in any way interfering with other dynamos.

During the present year a large number of the old line poles will require renewal, and the large masts should be painted.

All of which is respectfully submitted.

[Signed]

W. D. McKILICAN,
JOHN COUGHLAN,
J. B. HARRISON,

Committee.

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Fire Wardens' Report.

VICTORIA, B. C.,
January 4th, 1890.

To His Worship the Mayor and Board of Aldermen—

GENTLEMEN :—

We, the Fire Wardens, beg leave to submit the following report :

The fire record for the past year has been comparatively light.

The fire department responded to twenty-five alarms. Nine alarms for grass fires were sent in, making a total of thirty-four alarms during the year.

A new Merryweather steam fire engine, purchased from the Montreal agents of Messrs. Merryweather & Sons was tested on December 13th. The test proved most satisfactory, and your Fire Wardens accepted the engine.

A Preston Aerial 70-foot Truck was also purchased from a Toronto firm. The engine and truck were urgently needed by the fire department to combat large fires. It will be necessary for the incoming Board to purchase a team of horses for the Preston Truck.

The purchase of 2,000 feet of fabric fire hose was also considered advisable.

Early in August last a contract was entered into with the California Electrical Works to supply and fit up a Gamewell

fire alarm system. The alarm system was to have been in working order at the end of the year ; but owing to some disagreement between the customs authorities and the company, they have been unable to clear the boxes; but we hope the matter will be amicably settled in a few days, enabling the company to complete their contract. The present alarm system is in a most deplorable condition, owing to the loss of time occasioned by waiting for alarms by telephone.

During the year the placing of additional hydrants was carried on in portions of the city where new mains have been laid.

The salary of the Chief Engineer was raised from \$700 to \$1200 per year. Your fire wardens considered this increase advisable, as under the new order of things the chief engineer devotes his whole time and attention to the department. The salaries of the permanent men were raised and a new driver appointed.

A number of improvements have been made in the engine houses, thereby increasing the efficiency of the department. Among the improvements, we might mention that sleeping accommodation has been provided for twelve firemen in the second storey of the Deluge fire hall, and a sliding bar runs to the sleeping room, enabling the men to reach the ground floor without the loss of time. On the completion of the addition to Tiger fire hall, your fire wardens would advise similar improvements to provide sleeping accommodation.

We would also recommend the purchase of a good chemical engine, which would greatly increase the means of extinguishing fires and would lessen the damage caused by water.

The Tiger steam engine should be placed in thorough repair. The engine requires a new boiler. Should the city of New Westminster purchase the small Merryweather engine, we would advise the disposal of same at the sum mentioned

in a telegram forwarded to that city some days ago. The chief engineer recommends the sale of old apparatus. The recommendation is endorsed by your fire wardens.

We consider that the chief, assistant, officers and men have done their duty during the year in a satisfactory manner.

[Signed]

WILLIAM WILSON,

LOUIS VIGELIUS,

JOHN COUGHLAN,

Fire Wardens.

Chief Engineer's Report.

To His Worship the Mayor and Fire Wardens.

GENTLEMEN :—

I have the honor to herewith submit the annual report of the Victoria Paid Fire Department upon matters pertaining to the same. I also respectfully submit suggestions and recommendations to increase the efficiency of the organization under my jurisdiction.

APPOINTMENTS.

In the matter of appointments I have always used great care and, as demonstrated at fires, the officers and firemen have proved that the lives and property of the citizens are guarded by careful, prudent men. The members have conformed to the rules and regulations readily, and all has gone forward with complete satisfaction.

FIRES.

During the year the department responded to 34 alarms of fire, classified as shewn by annexed tables. The fire loss has been very light, due, in a great measure, to the promptness and efficiency of the department.

APPARATUS.

The apparatus in use by the department is in good condition, with the exception of the steam fire engines purchased by the Volunteer Fire Department. The Tiger steam fire engine requires a thorough overhauling. The Deluge engine requires a new set of boiler tubes. Stored in the various houses belonging to the fire department, I find a number of

articles which should be sold, including two manual fire engines, one hook and ladder truck, one four-wheel hand hose carriage, two hand hose reels and an English fire escape. The apparatus mentioned was purchased some years ago by the Volunteer Fire Department.

WATER SUPPLY.

Our supply of water has been all that could be desired until the recent cold weather, when I found a number of hydrants frozen. During the year I examined the hydrants regularly and reported to the Water Commissioner. I found several in a defective condition. The Water Commissioner's report will shew the capacity of the mains, number and location of hydrants, pressure, and every detail in connection with the water supply. The business portion of the city is also protected with large cisterns.

FIRE ALARM TELEGRAPH

This branch of the department is under construction. On August 2nd, last, an agreement was entered into with the California Electric Works for the furnishing, constructing and equipping of a complete Conwell Fire Alarm system of the most modern design and material. Owing to delays caused by the non-arrival of the material and seizure of the alarm boxes by the Inspector of Customs, the system remains incomplete. I am assured by the agent of the California Electric Works that everything will be in running order in a short time. The present system is most unsatisfactory.

HOUSES.

The apparatus is housed in four fire stations. The Yates street fire hall is too small to accommodate the apparatus. I would recommend moving the north wall ten feet further out to accommodate a horse hose reel. The addition to No. 3 fire hall on Pandora street will provide accommodation for the new aerial truck, hose carriage, hose, horses, &c. In a few days the owners of the premises on Government street will

require the ground on which the hook and ladder house stands. It will then become necessary to provide accommodation for the apparatus at present stored in the building. In view of the large number of buildings in the northern and eastern portions of the city, it will be necessary to consider the question of fire protection so far away from the centre of the city. James Bay also requires better protection, which can only be accomplished by locating a horse hose reel in each place. At present the only protection in James Bay ward is a volunteer company composed of young men. The volunteers are engaged during the day, and are available at night to assist the firemen in the city. It would be a wise precaution to station horse hose carriages at or near the junction of Fort and Yates streets, or near the junction of Government and Douglas streets, and at Kingston street fire hall, James Bay.

NEW APPARATUS.

During the past year the Corporation purchased a new Merryweather steam fire engine at a cost of \$5853. The steam fire engine was tested recently and proved most satisfactory. A new Turntable Aerial Truck was purchased from T. McIlroy & Co., of Toronto at a cost of \$4400. The department was also provided with two thousand feet of fabric hose at a cost of \$2100, and numerous other articles necessary to increase the efficiency of the force. During the present year the department requires a new chemical engine. The great advantage in its use is promptness in extinguishing incipient fires. It can be placed in front of a high building with everything ready to go to work, and no danger of damaging the goods on the lower floors of the building. By the use of a chemical engine the unavoidable destruction of property by water could be avoided in a great measure and the amount of loss would be greatly reduced. In localities where it would be impossible to procure water from hydrants or cisterns, the chemical engine would prove of great service.

HORSES.

The horses are in good condition. Another team will be required for the aerial truck.

GENERAL.

During the year a volunteer company was organized in James Bay with 26 members. The James Bay hose team replace the regular firemen when the latter are called away from the business portion of the city. Regular drills were held at the Public School and, as a precaution, I placed a hose reel in the school. Twelve men sleep in the Yates street fire hall. A sliding pole is utilized to descend from the sleeping apartments. A gas heater is used to keep the new fire engine ready for immediate service. The horses are thoroughly trained to take their place beneath swinging harness, and everything is arranged to leave the engine houses promptly after the alarm is received.

In conclusion, I thank Your Worship, Chairman William Wilson, the Fire Wardens and the Board of Aldermen for placing at my disposal the means of suppressing fires. The foresight of your honorable body has been the means of providing modern appliances for fighting fire and has, in a great measure, tended to reduce the fire loss during the year just closed.

Trusting this report will meet with your approval.

I have the honor to be,

Gentlemen,

Your obedient servant,

THOMAS DEASY,

Chief Engineer Victoria Fire Department.

FIRES DURING 1889.

 LOCATION—CAUSE—ESTIMATED LOSS.

- No. 1. Jan. 20. 10:45 p. m. Fire in cottage on Johnson street between Blanchard and Quadra streets. Building partially destroyed. S. T. Styles owner. Loss, \$900. Cause—explosion of lamp. Building and furniture insured.
- No. 2. Jan. 27. 2:30 p. m. Fire—tar pits Albion Iron Works. Loss, \$100. Cause, tar igniting from furnace. No insurance.
- No. 3. Jan. 28. 12 midnight. Fire reported in Kirk Jackson's house, south side of View street, between Douglas and Blanchard streets. No alarm. Loss, \$20. Cause—incendiary.
- No. 4. Feb. 4. 10:45 p. m. Alarm caused by fire in J. Tepootin's woodshed, Discovery street. No loss. Cause—hot ashes.
- No. 5. Feb. 6. 3:40 p. m. Fire in Chinese wash house on north side of Fort street, between Douglas and Blanchard streets. Loss, \$20. Cause—defective stove.
- No. 6. Feb. 27. 8:25 p. m. Alarm caused by explosion of lamp in Mr. Perry's residence, Douglas street. No loss.
- No. 7. March 18. 6 a. m. Fire at King's bakery, N.W. corner Alfred and Chambers streets. Cause—wood igniting in oven. Loss, \$500.

- No. 8. 12:50 p. m. Alarm. Chimney fire on Fisguard street. No loss.
- No. 9. April 5. 1:15 Fire at John Weiler's ware rooms, Fort street. Cause—unknown. No loss.
- No. 10. April 20. 9:40 p. m. Fire at building on north side of Johnson street adjoining Germania saloon. Loss, \$500. Cause—incendiary.
- No. 11. May 20. 8:50 p. m. Fire at Occidental hotel, S.E. corner wharf and Johnson streets. Cause, unknown. Loss, \$3,500.
- No. 12. June 4. 12:20 p. m. Fire at residence of J Devoe, Johnson street. Cause—sparks from chimney. Loss, \$20.
- No. 13. 2:35 p. m. Fire at Geo. Vienna's fish store, east side of Government street, between Yates and Johnson streets. Cause, unknown. No loss.
- No. 14. June 20. Alarm. Fire outside city limits.
- No. 15. June 21. 12:35 p. m. Alarm. Grass fire near custom house. No loss.
- No. 16. June 24. 1:10 p. m. Fire at San Clay's feed store, Johnson street. No loss.
- No. 17. July 4. 1:15 p. m. Fire at Jacob Sehl's residence Laurel Point, James Bay. Cause—defective chimney. Loss, \$700.
- No. 18. Aug. 31. 12:30 a. m. Fire in building owned by John Hall, north side of Yates street, between Douglas and Blanchard streets. Cause, unknown. Loss, \$100. No insurance.

- No. 19. Sept. 29. 9:30 p. m. Fire in residence on Second street, Work estate. Building owned by S. Gray. Cause.—tenant pouring coal oil, on fire in grate. Loss, \$2,000. Insured.
- No. 20. Oct. 18. 7:30 p. m. Fire in residence on North side of Alfred street. Building owned by W. White. Cause—defective stove-pipe. Loss, nominal. No insurance.
- No. 21. Oct. 20. 2:15 a. m. Fire in building on Herald street, G. Lawrence, owner, Cause—unknown. Loss, nominal. No insurance.
- No. 22. Oct. 25. 8:45 p. m. Fire in stable on north side of Alfred street. Loss, \$200. Cause—supposed to be by boys smoking cigarettes.
- No. 23. Dec. 11. 7:30 p. m. Alarm. Chimney fire at Protestant Orphan's Home, Rae street. No loss.
- No. 24. Dec. 16. 5:10 p. m. Fire at Government House. Cause—defective heating apparatus.
- No. 25. Dec. 29. 3:30 a. m. Fire at Keller & Burreis' pottery. Outside city limits.
- During the summer months the firemen were called out nine times to extinguish grass fires.

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LIST OF MEMBERS VICTORIA PAID FIRE
DEPARTMENT, 1889.

NAME.	OCCUPATION.	SALARY PER MONTH.
T. Densy.....	Chief Engineer.....	\$100 00
C. N. Gowen.....	Assistant Engineer.....	25 00
M. J. Conlin.....	Foreman.....	16 25
R. Laddell.....	Foreman.....	16 25
D. F. Fee, Jr.....	Foreman.....	16 25
C. Bush.....	Engineer.....	70 00
F. Atkinson.....	Engineer.....	70 00
A. Gardner.....	Driver.....	70 00
J. Hunter.....	Driver.....	50 00
H. McDowell.....	Hoseman.....	14 00
George Gowen.....	Hoseman.....	14 00
T. Hodges.....	Hoseman.....	14 00
W. Nesl.....	Hoseman.....	14 00
G. Ledingham.....	Hoseman.....	14 00
E. McDonald.....	Hoseman.....	14 00
E. Hinds.....	Hoseman.....	14 00
E. Whitcomb.....	Hoseman.....	14 00
E. B. Irving.....	Hoseman.....	14 00
J. Hay.....	Hoseman.....	14 00
F. Le Roy.....	Hoseman.....	14 00
T. Farrall.....	Hoseman.....	14 00
W. Densy.....	Hook and Ladder man.....	14 00
J. Bryce.....	Hook and Ladder man.....	14 00
C. Palmer.....	Hook and Ladder man.....	14 00
J. Winterhatter.....	Hook and Ladder man.....	14 00
W. Bryce.....	Hook and Ladder man.....	14 00
A. Smith.....	Hook and Ladder man.....	14 00

INVENTORY OF FIRE DEPARTMENT PROPERTY
VALUE OF SAME.

1 Merryweather Steam Fire Engine.....	\$2,850 00
1 Old Merryweather Steam Fire Engine.....	1,700 00
1 Button & Blake Steam Fire Engine.....	1,500 00
2 Manual Fire Engines.....	1,000 00
1 Aerial Hook and Ladder Truck.....	4,400 00
1 Old Hook and Ladder Truck.....	300 00
1 Four Wheel Hose Carriage.....	950 00
1 Four Wheel Hand Carriage.....	450 00
5 Two Wheel Hose Carts.....	800 00
1 Two Wheel Hose Reel.....	275 00
5 Horses.....	1,550 00
3 Sets Harness.....	200 00
1 English Fire Escape.....	200 00
4,450 feet Carbolized Hose.....	4,150 00
3,000 feet Fabric Hose.....	3,000 00
Carried forward.....	\$23,325 00

Brought forward.....	\$23,325 00
250 feet Old Hose.....	150 00
1 Somerville Extension Ladder.....	160 00
1 Electric Gong.....	75 75
24 Suits Rubber Clothing.....	275 00
1 Saddle.....	5 00
4 Stoves.....	50 00
100 feet Garden Hose.....	15 00
14 Chairs.....	12 00
1 Clock.....	3 00
10 Spanners.....	15 00
7 Lanterns.....	5 00
6 Leakstops.....	9 00
4 Siamese Couplings.....	22 50
6 Hydrant Keys.....	6 00
3 Tables.....	6 00
2 Hammers.....	2 00
2 Cape Chisels.....	1 00
1 Fire Extinguisher.....	10 00
1 Monkey Wrench.....	1 50
1 Sprinkler.....	75
1 Heavy Hammer.....	2 50
2 Hay Forks.....	2 00
2 Shovels.....	2 60
2 Axes.....	3 00
1 Hose Expander.....	8 00
2 V. F. D. Stamps.....	2 00
2 Rubber Valves.....	1 00
2 Navy Couplings.....	8 00
1 Screw Driver.....	1 00
1 Wrench.....	2 50
1 Tube Expander.....	1 00
1 Coal Scuttle.....	1 00
2 Fire Buckets.....	2 00
1 Silsby Heater.....	75 00
5 Horse Blankets.....	15 00
1 Vise.....	25 00
2 Wheelbarrows.....	3 50
46 Helmets.....	75 00
1 Bull's Eye Lantern.....	1 00
1 Cupboard.....	5 00
1 Letter Press.....	2 50
2 Force Pumps.....	25 00
6 Bedsteds and Matrasses.....	36 00
19 Fire Ladders.....	50 00
1 Small Extension Ladder.....	10 00
1 Jumping Sheet.....	10 00
2 Hose Holders.....	2 00
1 Sliding Pole.....	25 00
Coupling, Siamese, on New Engine.....	20 00
Value of Engine House and Lot, James Bay.....	2,000 00
Value of Central Fire Hall, Yates Street.....	8,000 00

Total \$87,567.50

Report of the Police Committee

VICTORIA, B. C.,
January 1st, 1890.

To His Worship the Mayor and Board of Aldermen :—

GENTLEMEN:

We your Police Committee beg to present the Board the accompanying report of the Chief of Police, with statistics of police matters for the past year. We have examined the same and have much pleasure in recommending the suggestions contained therein, and feel a satisfaction that the order maintained in the City during the past year has been of that character generally which stamps our citizens as a law abiding people. All of which is respectfully submitted.

S. L. KELLY,
J. B. HARRISON,
Committee.

Report of Superintendent of Police.

To His Worship the Mayor and Police Committee :—

GENTLEMEN :

I have the honor to report that the condition of the Police Force is at the present time very fair. The total strength of the Police force is as follows: one Superintendent, one Sergeant and nine Constables (in uniform) and three Constables in private clothes, a total of fourteen. Of the nine uniform Constables, two are detailed for duty at the city lock-up, leaving seven of that class for patrol duty. The three constables in private clothes, which have lately been put on, are now employed at night to patrol that portion of the city east of Douglas Street hitherto unprotected.

There has been a few changes during the past year, arising from resignations and one death.

Only one complaint has been brought before the Police Committee against a constable for neglect of duty. In this case a reprimand was considered sufficient.

The detailed account of all the cases brought before the Police Court, which I beg to submit, will show that very few serious crimes have been committed.

And I beg further to state that no serious offenders have escaped the vigilance of the Police.

The new Police quarters now in course of construction will be when finished, of much benefit and comfort to the members of the force.

In the new Police quarters three wash basins are required for the use of the men, as at present they have to go down and wash in the City lock up. Also two baths are greatly needed for cleanliness of the prisoners.

I would suggest that a lamp be placed over the new entrance to the new Police Station on Cormorant Street, with the words on it "Police Station."

The clothing at present is in good condition, having only been recently issued.

As the City Lock-up has been largely used during the past year, as a place of detention for lunatics, both male and female, and as there is no proper place for them, especially for the latter, I would recommend that some suitable quarters be provided for them.

Remembering the large addition to the City and the many men employed on public works, I consider the percentage of crime very small; the total number of convictions in the Police Court has been greatly augmented by infraction of the City By-Laws.

I have the honor to be Gentlemen,

Your obedient Servant.

HENRY W. SHEPPARD,

Supt. of Police.

**OFFENCES COMMITTED BY INDIANS
DURING 1889.**

No.	NATURE OF OFFENCE.	Convicted in Police Court.	Committed for Trial.	Discharged.	TOTAL.
1	Assault.....	2	.....	1	3
2	Creating Disturbance.....	1	.....	.....	1
3	Indian Act, offences against.....	101	.....	5	106
4	Larceny.....	2	.....	.....	5
5	Necessary Witness.....	.....	.....	4	4
6	Rescuing Horse from Pound Keeper.....	.....	.....	2	2
TOTALS.....		106	.....	15	121

**OFFENCES COMMITTED BY CHINESE
DURING 1889**

No.	NATURE OF OFFENCE.	Convicted in Police Court.	Committed for Trial.	Discharged.	TOTAL.
1	Assault.....	.....	1	3	4
2	Assault and Robbery.....	1	.....	.....	1
3	City By-Laws, Infraction of.....	10	.....	4	14
4	Creating disturbance.....	2	.....	.....	2
5	Fighting.....	.....	.....	2	2
6	Indian Act, Offences against.....	5	.....	1	6
7	Gambling.....	10	.....	.....	10
8	Larceny.....	4	1	1	6
9	Murder.....	.....	1	.....	1
10	Necessary Witness.....	.....	.....	1	1
11	Public Morals Act.....	2	.....	.....	2
12	Suspicion of Larceny.....	.....	1	.....	1
13	Unsound Mind, etc.....	1	.....	3	4
14	Vagrancy Act.....	.....	.....	1	1
TOTALS.....		35	4	16	55

**OFFENCES COMMITTED BY ALL OTHERS BUT
INDIANS AND CHINESE DURING 1889.**

Nos.	NATURE OF OFFENCE.	Convicted in Police Court.	Committed for Trial.	Discharged.	TOTAL.
1	Assault.....	24	3	24	51
2	Assaulting Officer on duty.....	1		1	5
3	Attempting to rob.....		1	1	
4	Assisting deserters from H M Royal Navy.....	2			2
5	Attempting to rescue prisoner.....	1			1
6	Aiding and abetting rape.....			1	1
7	Aggravated assault.....	2			2
8	Attempting to desert from H M Royal Navy.....	1			1
9	Burglary.....		5		5
10	Beating passage on Steamboat.....	5			5
11	Bringing Stolen Property into Canada.....			2	2
12	Cruelty to Animals.....	1			3
13	City By-Laws, Infraction of.....	29		61	90
14	Cutting and Wounding.....		2		2
15	Creating a disturbance.....	2		2	4
16	Carrying concealed Weapons.....	1			1
17	Drunks.....	160		12	72
18	Desertion from H. M. Royal Navy.....	11		2	13
19	Desertion from Militia.....	1			1
20	Enticing men to desert from H M Royal Navy.....	1			1
21	Embezzlement.....		5		5
22	Fighting on the Public Street.....	6		5	11
23	Fraud.....		1		1
24	Housebreaking.....		1	1	2
25	Indian Act, Offences against.....	5		3	8
26	Indecent Exposure.....	4		1	5
27	Incendiarism.....			1	1
28	Keeping House of Illfame.....	2			2
29	Larceny.....	26	9	27	62
30	Lodgings.....			16	16
31	Libel.....		1		1
32	Malicious injury to property.....	1		6	10
33	Merchant Seamen's Act.....	1		1	2
34	Necessary Witness.....			1	1
35	Obtaining goods under false pretences.....	1	1	1	3
36	Obtaining Money under false pretences.....	1			1
37	Public Morals Act, Offences against.....	7	1	3	11
38	Pointing Pistol.....			1	1
39	Possession Stolen Property.....			1	1
40	Rescuing Prisoner.....			1	1
41	Resisting Police.....	1			1
42	Refusing to pay wages.....			4	4
43	Rape.....		2		2
44	Shooting with intent to kill.....		1		1
45	Suspicion of Larceny.....			1	1
46	Threatening Language.....	1			1
47	Unsound Mind, etc.....	6		17	23
48	Using Obscene Language.....	2			2
49	Using Insulting Language.....	3			3
50	Vagrancy Act.....	77		16	98
TOTAL.....		391	33	215	639

RECAPITULATION.

1889 MONTHS.	All others but Indians and Chinese.				INDIANS.				CHINESE.				TOTALS.
	Convicted in Police Court.	Committed for Trial.	Discharged.	TOTAL.	Convicted in Police Court.	Committed for Trial.	Discharged.	TOTAL.	Convicted in Police Court.	Committed for Trial.	Discharged.	TOTAL.	
January	25	6	19	50	5	.....	.....	5	9	.....	.....	11	66
February.....	27	2	6	35	5	.....	.....	5	2	.....	.....	10	53
March.....	36	4	9	50	6	.....	.....	6	2	.....	.....	7	63
April.....	33	1	17	49	9	.....	.....	9	.....	.....	.....	5	63
May.....	34	3	13	53	14	.....	.....	14	.....	.....	.....	3	73
June.....	23	2	11	36	6	.....	.....	6	.....	.....	.....	.....	12
July.....	34	4	33	71	9	.....	.....	10	6	.....	.....	6	87
August.....	27	4	40	71	16	.....	.....	13	.....	.....	.....	1	90
September.....	27	4	15	46	10	.....	.....	16	1	.....	.....	1	63
October.....	37	1	20	58	14	.....	.....	16	4	.....	.....	4	78
November.....	32	3	21	56	6	.....	.....	7	.....	.....	.....	1	65
December.....	54	.....	10	64	3	.....	.....	3	1	.....	.....	2	69
GRAND TOTALS.	301	33	215	639	106	.....	.....	121	35	4	16	55	815

1889.

NATIONALITY.

	Convicted in Police Court.	Committed for Trial.	Discharged.	TOTAL.
All others but Indians and Chinese.....	391	33	215	639
Indians.....	106	.....	15	121
Chinese.....	35	4	16	55
TOTALS.....	532	37	246	815

Drainage Committee's Report.

VICTORIA, B. C.,

January 4th, 1890.

To His Worship the Mayor and Board of Aldermen—

GENTLEMEN :—

Your Drainage Committee beg to report that from the beginning of the year the matter of obtaining a proper system of sewerage for the city, has engaged to no small degree their time and attention.

Whether the "Separate" or "Combined" system should be adopted, was a question that gave rise to protracted discussion in Council and in committee. In May last, the services of Mr. Willis Chipman, B. Sc., of Brockville Ont., Sanitary Engineer, were secured, to examine the topographical outlines of the city and report as to the system he would propose as best adapted for the place.

His report, laid before the Council on the 4th of June last, recommended an important alteration in the plans of Messrs. Pickering & Crompton, adopted by a previous Council, and strongly advised the adoption of the "Separate" system.

Desiring to obtain every information possible on so important a subject, your Committee recommended the Council to invite Mr. Pickering to revisit Victoria, in the hope that after reviewing all the conditions to be considered under existing circumstances, he might be willing to modify his original plans in order to meet the views of the Council relative to the question, and in the event of the Council accepting the plans so modified, to arrive at some definite agreement as to the fulfilment of his scheme.

TOTALS.

86
55
84
33
80
78
65
69

815

TOTAL.

839
121
56

815

Mr. Pickering on reaching Victoria, advocated what he termed the "Restricted-Combined System" claiming for it the advantages of both "Separate" and "Combined" systems.

To bring the matter to an issue, a by-law was prepared asking for a loan of \$650,000 to carry into effect this latter system proposed by Mr. Pickering and was placed before the ratepayers for their vote on the 3rd of December last but did not receive their assent.

Your Committee, however, beg to state, that they do not apprehend that the defeat of this by-law is to be regarded as an evidence of indifference or antipathy on the part of the ratepayers to every sewerage scheme, but simply their disapproval of the one then submitted to them.

A very important part however of whatever system of sewerage that may be adopted (for it is evident some system must be decided upon in the near future) has been undertaken in the laying of Johnson Street sewer.

This work, owing to an unforeseen delay at its commencement, caused no small inconvenience and some loss to a number of merchants doing business on Johnson street.

Recently it has progressed more satisfactorily, and the sewer at present promises to secure for the city, when completed, the object desired in its construction.

All of which is respectfully submitted.

[Signed]

S. L. KELLY.

L. GOODACRE.

Committee.

Cemetery Report.

VICTORIA, B. C.,
Dec. 31st, 1889.

To His Worship the Mayor and Board of Aldermen—

GENTLEMEN :—

I have the honor to lay before you the statistics of burials in Ross Bay Cemetery for the year ending the 31st of December, 1889, as follows :

	Males.	Females.	Total
Children (stillborn).....	11	7	18
Children under twelve months old.....	20	12	38
Children from one year old to five years.....	9	11	20
Children from five years old to ten years.....	5	3	8
From ten years to fifteen years old.....	1	0	1
From fifteen years to twenty years old.....	4	3	7
From twenty years to forty years old.....	28	11	39
From forty years to sixty years old.....	16	12	58
From sixty years to seventy years old.....	13	7	20
From seventy years to eighty years old.....	7	2	9
From eighty years to ninety years old.....	2	5	7
Indians.....	3	—	3
Chinese.....	27	—	27
Total.....	182	73	255

The nationalities are as follows :

	Males.	Females.	Total.
British Columbin.....	41	30	71
England.....	32	10	42
Scotland.....	13	10	23
Ireland.....	8	4	12
Canada.....	16	6	22
United States.....	20	4	24
Germany.....	1	—	1
France.....	1	—	1
Japan.....	2	—	2
Italy.....	1	—	1
Bermuda.....	1	—	1
Norway.....	2	—	2
Chili.....	—	1	1
Orkney Islands.....	—	1	1
Stillborn.....	11	7	18
Indians.....	3	—	3
Chinese.....	27	—	27
Total.....	182	73	255

A comparison of this report with that of last year shows an increase of 11 males, a decrease of 23 females, making a total decrease of 12 burials for the year just closed.

I have the honor to be, gentlemen,

Your obedient servant,

W. J. DOWLER,

Secretary Ross Bay Cemetery.

Report of the Committee
ON
City Hall, Park, Public Library and Cemeteries.

VICTORIA, B. C.,
January 6th, 1890.

To His Worship the Mayor and Board of Aldermen--

GENTLEMEN :—

Your Committee beg to report that during the past year some much needed and thorough, substantial, as well as ornamental, work has been accomplished, a portion of which is still in progress.

The following *resume*, which we have pleasure in laying before the ratepayers will doubtless assist them in forming some idea of what has been undertaken and performed.

THE PUBLIC LIBRARY.

This institution was formally opened by His Worship the Mayor in May last, His Worship borrowing the first book, a volume of Carlyle. Since then through the energy, courtesy and fostering care of our esteemed librarian Dr. McGregor, the right man in the right place, the library has risen from one degree of success to another.

The salary of the worthy librarian however, is totally inadequate, and it is hoped this matter will receive due attention at the hands of the next Council.

The library has at present an active membership of over 1000, and the daily record of books loaned has reached the number of 120.

The present rooms are centrally located, easy of access, and well supplied with movable furniture; the reading room, although somewhat insufficient as to size, being furnished with many of the leading periodicals.

THE CEMETERIES.

Upon the old Cemetery which resembled an ancient and deserted ruin, given over to decay, some attention and care has been bestowed. The gates and fences have been repaired while the sacred precincts they enclose are no longer a pasture as they have been for cows; a desecration and a defilement most grievous to the friends still living, of those whose bodies have been therein long buried.

With regard to the new cemetery at Ross Bay, your Committee have to report that the caretaker's house has been subjected to repairs, having been painted outside and thoroughly renovated inside.

The fence, gates, and seats have received a coat of paint and a better water supply has been obtained by deepening the old well, by the addition of a large tank, conveniently situated, and by placing a pump in the ravine on the south side of the cemetery.

These latter improvements were very necessary and much appreciated by visitors to the cemetery in the dry summer weather.

THE CITY HALL.

An addition to the city hall, long known as the north west wing, required to accommodate properly the police and fire department, has been built at a cost of \$7000 and also some inexpensive but convenient and valuable office fittings have been supplied to the offices of the City Clerk and City Treasurer.

The business of the corporation has increased, however, to such an extent as to make it compulsory to provide more room, and to provide it on a more business basis. The contract, therefore for the northeast wing of the city hall has been let which when completed, besides giving enlarged accommodation for all the offices (notably the Mayor's) and

providing a commodious library and reading room, free of rent, will be an ornament to the city and a structure of which she may be proud.

THE FOUNTAIN

At the junction of Government and Douglas streets at the beginning of the year, was found out of order and in state of dilapidation. This fountain has been thoroughly overhauled repainted and placed in good running order, much to the satisfaction of the residents in the vicinity and the public generally, who may now obtain in passing it, if they so require, an abundant supply of water.

BEACON HILL PARK.

Special mention must be made of this beautiful public resort, the fame of which is not confined to this country and the United States, but has extended to the old land as well.

In instituting and carrying on the extensive work of improvement undertaken in this park this year, the city is to be congratulated in securing the services of so experienced and capable a man as Mr. W. Blair, to execute the design for the embellishment of the park adopted by the council, which every one must admit is a masterly one.

The greater portion of the \$25,000 voted by the ratepayers has been judiciously expended with results already admired by all, results which by enhancing the value of residential property in the vicinity of the park, will increase the revenue of the city and prove a free and fair advertisement of Victoria to the travelling public for all time to come.

Your Committee would strongly recommend to the incoming council and rate payers, the desirability of voting an additional sum to complete this noble work of improvement which all so highly approve of, and which is intended to be a lasting monument to the enterprise and good taste of the people of Victoria.

All of which is respectfully submitted.

[Signed]

L. GOODACRE, Chairman,
LOUIS VIGELIUS.

Committee.

Report on By-Laws.

VICTORIA, B. C.,
January 6th, 1890.

To His Worship the Mayor and Board of Aldermen—

GENTLEMEN—

I have the honor to inform you that the subjoined list is a correct record of the number, title and dates of the By-Laws that have passed the Council during the year just closed :

Number	TITLE OF BY-LAWS.	Passed First Reading	Assented to by the Ratepayers.	Finally Passed.
170	Bank Credit By-Laws, 1889.....	Jan 30.....		Feb. 27
171	By-Law respecting the Expenditure of the Municipal Revenue for the year 1889.....	Feb. 7..		Feb. 18
172	Consolidated Remuneration Amendment By-Law, 1889.....	March 20.....		March 27
173	Buildings By-Law Amendment By-Law, 1889.....	Feb. 6.....		April 24
174	The Street Railway Guarantee By-Law, 1889.....	May 23.....	June 11.....	June 12.
175	The Forty Five Thousand Dollar Loan By-Law, 1889.....	May 23.....	June 11.....	June 14
179	The Mayor's Remuneration By-Law, 1889.....	May 23.....		June 12.
177	The Assistant Assessor's By-Law, 1889.....	May 15.....		June 14.
178	The Revenue By-Law, 1889.....	May 15.....		June 26
179	The Aldermen's Remuneration By-Law, 1889.....	June 26.....		July 3.
180	The \$70,000 Water Works Loan By-Law, 1889.....	July 10.....	July 23.....	July 24
181	The \$60,000 Water Works Loan By-Law, 1889.....	July 10.....	July 23.....	July 24.
182	The Pleasure Grounds Loan By-Law, 1889.....	July 10.....	July 23.....	July 24
183	The Fire Department By-Law, 1889.....	July 10.....	July 23.....	July 24.
184	Consolidated Thistle By-Law.....	Feb 22, '88		Jan 11.
185	Consolidated Wharves Regulation By-Law.....	Feb 22, '89		Jan. 11.
186	Bencon Hill Park Animals Regulation By-Law.....	July 17.....		July 24.
187	The Tramway Amendment By-Law, 1889.....	July 3.....		July 24.
188	Buildings By Law Amendment By-Law No. 2, 1889	July 3.....		July 24.
189	A By-Law respecting the Municipal Assessment Roll for the year 1889.....	July 31.....		Aug. 7.
190	Fire Department Amendment By-Law, 1889.....	July 31.....		Aug. 14
191	Consolidated Officers' Remuneration By-Law (Amended), 1889.....	July 31.....		Aug. 14.
192	The Victoria, Saanich and New Westminster Railway Interest Bonus By-Law, 1889.....	July 31.....	Aug. 13.....	Aug. 14
193	The Water Commissioner Amendment By-Law, '89	Sept. 4.....		Sept. 11
194	Revenue By-Law Amendment By-Law, 1889.....	Oct. 2.....		Oct. 16
195	The District Telegraph By-Law, 1889.....	Oct. 30.....		Nov. 13
196	The Municipal Election Regulation By-Law, 189.....	Dec. 18.....		Dec. 26.

I beg to report also that there have been held 49 regular, 25 special, and 6 adjourned meetings of the City Council during the past year.

I have the honor to be, gentlemen,

Your obedient servant,

WELLINGTON J. DOWLER,
Clerk of the Municipal Council.

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Report of the Assessment Roll Committee.

VICTORIA, B. C., Jan. 3rd, 1890.

To His Worship the Mayor and Board of Aldermen:—

GENTLEMEN:—

Your committee beg to report that during the year an important and progressive step, and one in keeping with the provisions of the Municipal Act has been taken, viz: the revision of the assessment roll.

On the 17th of April last the Council appointed Messrs. W. Dalby, W. W. Northcote and E. Dickinson assistant assessors, to readjust the value of property throughout the city, taking the marketable value of property as the standard of valuation.

These assessors performed their duties in a painstaking, equitable and thorough manner, and with the result of raising the assessed value of property throughout the city from \$5,757,895 to \$8,948,903, exclusive of exemptions, which will have the effect of increasing the revenue next year derivable from taxation some \$328,000.

The roll thus revised, with the exception of a few alterations, was confirmed by the courts of revision and appeal, and was accepted as the assessment roll of the municipality for the year 1889.

The rate of assessment remains the same as that of last year, namely 1 1-5 per cent. on the dollar, a rate which your committee think adequate for all present requirements. All of which is respectfully submitted.

[Signed]

S. L. KELLY, Chairman,
L. GOODACRE.

Committee.

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CORPORATION

BALANCE SHEET

ASSETS

MUNICIPAL TAXES OUTSTANDING—

Water Rents.....	\$ 6,856 27
Wholesale Liquor Licenses.....	100 00
Insurance Tax.....	1,950 00
Trade Licenses.....	3,404 00
Real Estate Tax.....	20,198 10

\$32,111 37

BANK OF B. N. A. SINKING FUND ACCOUNT—

Water works \$100,000 loan.....	10,118 88
do 50,000 loan.....	28,439 70
do 20,000 loan (1877).....	6,184 63
do 75,000 loan.....	4,807 92
do 20,000 loan (1888).....	296 30
Electric Light Debentures.....	2,195 98
Drainage debentures.....	780 17
Street debentures.....	1,376 16
Corporation debentures.....	8,620 41
Johnson street sewer debentures.....	398 50

98,881 83

Waterworks construction account.....	426,737 70
Johnson street sewer account.....	22,778 00
Park, \$25,000 working account.....	25,000 00
Maps of city.....	30 00
Electric light plant.....	26,111 35
Corporation horses and carts.....	1,050 00
Spring Ridge property.....	3,161 55
Street Gas Lamps.....	100 00
Drainage accounts.....	5,097 35
City Hall and lots 1219, 1250.....	41,893 00
Steam engine.....	1,000 00
Electric Light Building.....	3,500 00
Office furniture.....	1,893 41
Road Roller and Crusher.....	5,166 42
Fire Department Plant.....	38,654 16
Stem Drills.....	906 08
Found property.....	1,600 00
Street Sprinklers.....	751 37
Street Scraper.....	225 00
T. Russell.....	5,400 21
Lots 4 and 6, sub. 3, Beckley Farm.....	1,100 00
Street repairs, 3,169 yds rock.....	5,203 50
Library.....	1,250 00
J. Gosnell.....	362 15
T. Storey.....	146 25
Suspense account, re School Tax.....	5,822 85
Bank of B. N. A.—Water Works account.....	39
do Johnson street Sewer account.....	7,219 50
do General account.....	11,894 49
Cash on hand.....	19,114 88
	5,054 49
Total.....	\$779,618 22

Certified Correct,

JAMES L. RAYMUR,

Auditor.

OF VICTORIA.

31ST DECEMBER, 1889.

LIABILITIES.

Waterworks revenue account.....		\$125,785 38
Deposit Account.....		280 00
Waterworks Debentures—1874.....	\$100,000 00	
do do 1875.....	50,000 00	
do do 1877.....	20,000 00	
do do 1888.....	20,000 00	
do do 1889.....	70,000 00	
do do 1889.....	60,000 00	
do do 1889.....	75,000 00	
Street do 1889.....	45,000 00	
Park do 1889.....	25,000 00	
Fire do 1889.....	15,000 00	
Johnson st sewer do 1888.....	30,000 00	
Corporation do 1878.....	20,000 00	
Drainage do 1885.....	5,000 00	
Electric Light do 1885.....	18,000 00	
Street do 1886.....	50,000 00	
Eberts & Taylor.....		601,000 00
Outstanding accounts.....		1,700 00
Corporation of Victoria—Balance of Assets over Liabilities..		805 80
		50,594 04

3,881 83
6,737 70
2,778 00
5,000 00
36 00
26,411 25
1,050 00
3,161 55
100 00
5,667 45
44,893 00
1,000 00
3,500 00
1,893 44
5,166 22
38,654 16
906 08
1,690 00
751 37
225 00
5,400 21
1,400 00
5,203 50
1,250 00
302 45
116 25
5,822 85

19,144 38
5,054 49
779,618 22

\$779,618 22

Victoria, B. C., January 13th, 1890.

CHAS. KENT,

Treasurer.

CORPORATION OF THE

CASH STATEMENT FOR THE

RECEIPTS.

To balance on hand 1st Jan. 1889.....	\$1,136 44
Water Works Rents.....	12,051 54
Fire Insurance Tax.....	7,650 00
City Pound Fees &c.....	450 00
Surveying Street Lines.....	120 00
Rent Estate Tax.....	91,756 50
Trades Licenses.....	19,781 00
Wholesale Liquor Licenses.....	900 00
Retail do.....	15,220 00
Road Tax.....	2,038 00
Drivers' Licenses.....	57 00
Dog Tax.....	339 00
Corporate Seal.....	12 00
City Maps.....	14 00
Police Court Fees and Fines.....	3,317 25
Cemetery Fees.....	2,358 25
Deposit Account for use of streets.....	1,230 00
Registration of Vehicles.....	111 06
J. Gosnell.....	866 20
T. Storey.....	112 7
T. Russell.....	12 00
Bank British Columbia.....	10,000 00
Bank B. N. A. Water Works Extension Account.....	10,179 14
Bank B. N. A. Johnson street Sewer Account.....	22,340 00
Streets and Bridges Loan.....	45,000 00
Water Works Extension Loan.....	70,000 00
Beacon Hill Park Loan.....	25,000 00
Fire Loan.....	15,000 00
Water Works Loan.....	60,000 00
Premium on \$45,000 00 Loan.....	1,575 00
" " 70,000 00 "	1,282 00
" " 60,000 00 "	1,058 00
" " 25,000 00 "	440 00
" " 15,000 00 "	251 00
Total.....	\$451,162 02

CITY OF VICTORIA.

YEAR ENDING 31st DEC., 1889.

DISBURSEMENTS.

1,436 41	By Water Works Debentures Sinking Fund \$100,000.....	\$3,790 00
2,054 51	do do do 50,000.....	2,100 00
7,450 00	do do do 20,000 (1877).....	845 00
150 00	do do do 75,000.....	1,557 00
120 00	do do do 20,000 (1888).....	294 00
1,756 50	Electric Light do do.....	500 00
0,781 00	Drainage do do.....	186 00
900 00	Street do do.....	444 00
5,220 00	Corporation do do.....	855 00
2,038 00	Johnson st. Sewer do do.....	308 00
57 00		
339 00		

CITY POLICE.

12 00	Salaries.....	\$12,580 70
14 00	Carriage and Express hire.....	127 50
3,317 25	Railway and Steamboat fares.....	138 00
2,333 25	Clothing.....	1,041 50
1,200 00	Inquests, Funerals, &c.....	309 20
111 06	Keep of Prisoners.....	191 96
566 20	Printing and Stationery.....	211 00
112 7	Coal and Gas.....	296 05
12 00	Repairs.....	10 55
0,000 00	Interpreter.....	57 10
0,179 11	Washing.....	37 00
2,340 00	Furniture.....	67 50
4,000 00	Telephones and Telegrams.....	91 25
0,000 00	Fines.....	50 00
5,000 00	Sundries.....	45 55
0,000 00		
1,000 00	City Pound.....	15,578 36
575 00	Board of Health.....	320 50
1,282 00	Sidewalks.....	1,820 62
0,056 00	Legal Expenses.....	13,100 20
440 00	Commission on Collections.....	600 00
261 00	Donations.....	571 22
	Corporate Debentures Interest.....	693 75
	Water Works \$100,000 do.....	1,152 50
	do 75,000 do.....	6,475 00
	do 50,000 do.....	3,237 13
	do 20,000 do (1888).....	3,065 25
	do 20,000 do (1877).....	1,000 00
	Electric Light Debent' do.....	1,432 50
	Street do do.....	960 00
	Drainage do do.....	2,500 00
	Johnson st. Sewer do do.....	300 00
		1,500 00

CHARGES.

1,162 02	Salaries.....	\$5,420 06
	Printing.....	774 50
	Advertising.....	2,064 20
	Stationery.....	407 87
	Hack and Express hire.....	291 75
	Postage.....	108 96
	Insurance.....	140 23
	Election By-Law expenses.....	811 00
	Coal, Gas and Wood.....	558 50
	Telephone.....	414 30
	Furniture and Repairs.....	185 75
	Engrossing Address.....	75 00
	Telegrams.....	55 50
	Sundries.....	200 85
		12,041 47
	Carried forward.....	\$82,179 50

Brought forward.....

\$451.162 02

Carried forward.....

\$451.162 02

Brought forward.....	\$82,179 50
Files of Newspapers.....	450 00
Survey Expenses.....	3,745 91
Dog Tags.....	14 00
Weigh Machine Testing.....	17 00
Cemetery.....	1,764 59
Electric Light Plant.....	9,415 94
Deposit Account amount refunded.....	1,010 00
Drainage.....	1,218 20
General Interest.....	2,101 10
City Hall.....	4,896 00

STREET LIGHTING.

Salaries and Wages.....	4,913 50
Material, including Wire, Belting, Segments, etc.....	1,722 45
Repairs to Building and Masts.....	218 12
Coal.....	2,651 00
Ship Chandlery, Oils, etc.....	105 15
Cartage.....	278 50
Telephone and Telegrams.....	37 75
Hardware.....	141 09
Lumber.....	57 44
Stationery.....	1 10
Insurance.....	171 87
Horse hire.....	173 50
Furniture.....	6 50
Sundries.....	17 07
	10,786 02

FIRE DEPARTMENT.

Wages.....	7,783 26
Express and Carriage hire.....	101 35
Lumber and Labor.....	93 94
Scavenger.....	60 00
Coal and Wood.....	179 25
Harness, etc.....	220 52
Feed and Shoeing of Horses.....	614 31
Hardware, Oil, etc.....	238 96
Damage at Fire.....	5 00
Telephone.....	524 00
Furniture.....	108 25
Hydrants, Valves and Repairs.....	2,199 35
Gas.....	395 05
Insurance.....	67 50
Sundries.....	105 66
	12,702 62
Office Furniture.....	398 41

PARK - General Account.

Wages.....	1,697 50
Hack hire.....	21 25
Hardware, etc.....	555 93
Hauling.....	528 15
Plans.....	125 00
Fish, Animals, Trees.....	137 65
Band.....	196 00
	3,561 48

PARK - \$25,000 Loan Account.

Wages.....	20,167 11
Garding and Graveling Dallas Road in Park limits.....	889 47
Hack and Express hire.....	27 00
Hardware, Brick, Lime, etc.....	1,064 03
Hauling.....	1,851 35
Trees, Plants, Fountain, Keep of Animals, etc.....	890 01
Band.....	8 00
	25,000 00

LIBRARY.

Salaries.....	541 50
Gas.....	35 45
Express hire.....	7 75
Rent.....	549 85
Stationery, Printing, Books.....	368 55
Furniture.....	1,019 31
Sundries.....	41 22
	2,568 63
Carried forward.....	\$101,759 40

Brought forward..... \$451,162 02

Carried forward..... \$451,162 02

Brought forward.....		\$161,759 40
WATER WORKS—General Revenue.		
Salaries and Wages.....	4,914 00	
Coal and Wood.....	398 25	
Hardware, etc.....	544 47	
Hauling and Express hire.....	723 25	
Stationery and Printing.....	48 55	
Pipe, Fittings, Lead and Repairs.....	1,133 72	
Powder.....	77 25	
Carriage hire.....	268 50	
Telephone.....	120 20	
Lumber.....	148 80	
Meters.....	1,308 50	
Brick.....	41 00	
Sundries.....	270 82	
		10,000 00
WATER WORKS—\$60,000 Loan Working Acc.		
Wages.....	9,274 74	
Hauling.....	284 75	
Coal.....	85 00	
Iron, Pipe, Fitting, etc.....	8,450 00	
Lead Pipe, etc.....	353 39	
Valves, Meters, etc.....	2,671 84	
Lumber.....	83 59	
Hardware Ship Chandlery, etc.....	211 16	
Dies.....	33 20	
Packing.....	36 15	
Carriage hire.....	3 00	
Street Boxes.....	86 40	
Sundries.....	9 10	
Brick.....	78 00	
		21,605 35
WATER WORKS EXTENSION.		
Wages.....	35 195 03	
Coal and Wood.....	62 25	
Hardware, etc.....	957 19	
Hauling and Express.....	2,515 75	
Lumber and Material for Trestles.....	616 07	
Powder, Caps, Fuse.....	914 59	
Cedar Posts.....	103 00	
Carriage hire.....	7 50	
Land and Right of Way.....	4,001 00	
Valves.....	301 25	
Bricks, Lime, etc.....	171 10	
Pipes.....	22,899 77	
Sundries.....	75 00	
		68,756 31
Road Roller and Crusher.....		736 85
Horses and Carts.....		427 50
Fire Department Plant.....		12,654 16
Johnson street Sewer.....		22,307 50
Drake & Jackson.....		75 00
The Mayor's Remuneration.....		2,000 00
The Aldermen's Remuneration.....		1,800 00
SUBSCRIPTIONS		
Seattle Sufferers.....	1,000 00	
Queen's Birthday.....	1,039 49	
Jubilee Hospital.....	500 00	
Lord Stanley's Reception.....	3,500 00	
		6,069 49
ADVERTISING.		
"Montreal Star".....	100 00	
"The World".....	315 00	
		415 00
W. BURNES.		
Informer Chinese Murder Case.....		100 00
SUSPENSE ACCOUNT. } Amount paid into Court Re School Tax		
Steam Drills.....		6 75
Street Sprinkler.....		684 85
Assistant Assessors.....		1,617 57
Eberts & Taylor.....		1,900 00
Lots 4 and 5 Sub. 3, Beckley Farm.....		1,400 00
Bank of B. N. A. Increase of Balance.....		45,585 56
Carried forward.....		\$907,874 13

Brought forward..... \$151,162 02

Total \$451,162 02

Certified Correct, JAMES L. RAYMUR, Auditor.

Vic

Brought forward.....

\$395,874 13

STREETS AND BRIDGES-Including \$45,000 Loan.

Wages.....	26,930 98
Lumber.....	4,118 85
Tenning.....	7,267 50
Coal.....	765 05
Hardware.....	1,527 75
Blacksmith.....	277 21
Hacks and Express.....	288 05
Land for School street.....	400 00
Repairs to Fountain.....	500 00
Stone Crossings.....	709 85
Gravelling Henry street.....	572 00
Gravelling Blanchard street.....	288 00
Blasting Rock.....	2,718 05
Grading Superior street.....	249 50
Grading Dallas road.....	1,584 19
Rock Bay Bridge.....	9,005 83
Grading Work street.....	2,329 95
Grading Scoresby street.....	212 25
Grading Parkington street.....	446 50
Gravelling St. John street.....	166 00
Culvert Third street.....	225 00
Culvert St. Lawrence street.....	690 00
Culvert Second street.....	453 42
Crib-work Dallas road.....	375 00
Gravelling Third street.....	891 00
Culvert and Grading Bay street.....	805 75
Gravelling Belcher street.....	747 00
Grading Sidewalk Humboldt street.....	965 96
Gravelling Henry street.....	306 00
Grading Dallas road.....	461 53
New Fence at School.....	337 00
Grading Third street.....	1,086 75
On Acc. Catherine.....	4,000 00
Rock broken by hand.....	8,488 16
Feed of Horses.....	539 77
Sundries.....	1,959 20
	<hr/>
Cash on hand.....	80,233 40
	5,054 49
Total.....	<hr/>
	\$451,162 02

Victoria, B. C., 15th January, 1890,

CHAS. KENT,
Treasurer.

VICTORIA

INTEREST AND SINKING FUND ACCOUNT,

RECEIPTS.

Balance at Credit of Account, January 1st.....	\$69,539 58
Cash received from the Corporation of Victoria from January 1st to December 31st, to pay appropriation for Sinking Fund.....	8,559 00
Interest allowed by Bank of B. N. A. on amounts at Credit of Sinking Fund.....	2,103 94

 \$80,201 52

Certified Correct.

JAS. L. RAYMUR,

Auditor.

WATER WORKS.

DECEMBER 31st, 1889.

DISBURSEMENTS.

Balance..... \$80,201 52

Total..... \$80,201 52

Victoria, B. C., January 13th, 1890,

CHAS. KENT,

Treasurer.

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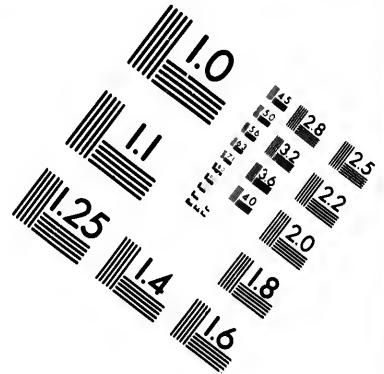
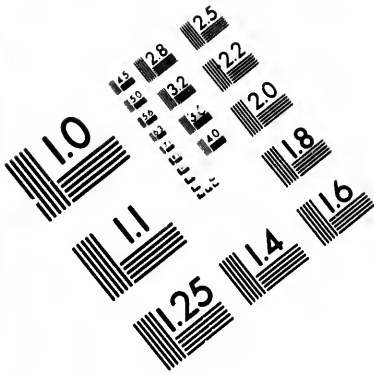
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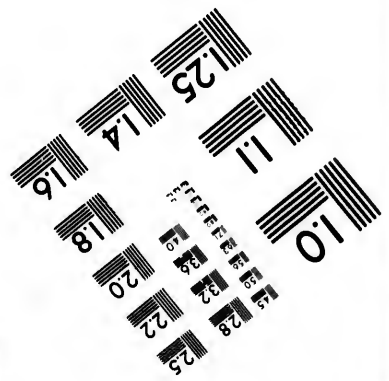
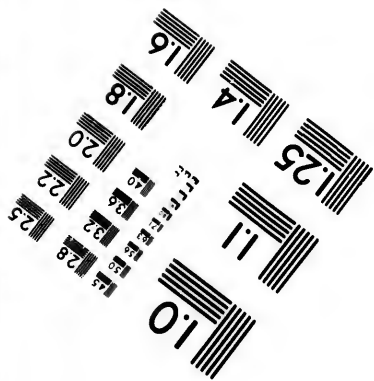
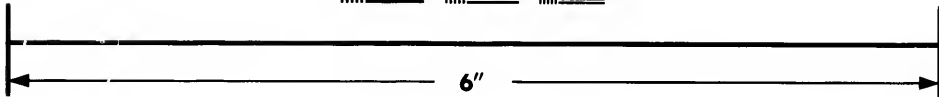
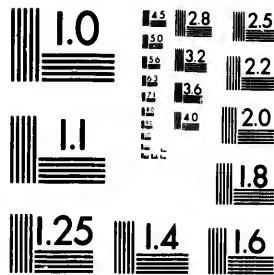
108 94

201 52





**IMAGE EVALUATION
TEST TARGET (MT-3)**



**Photographic
Sciences
Corporation**

25 WEST MAIN STREET
WILBSTER, N.Y. 14580
(716) 872-4503

14 28
16 32
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VICTORIA

BALANCE SHEET

ASSETS,

Bank of B. N. A. General Account.....	39
Bank of B. N. A. Sinking Fund Account.....	30,201 52
Construction Account.....	426,737 70
Corporation City of Victoria.....	125,738 38

Total..... \$632,677 99

Certified Correct,

JAS. L. RAYMUR,

Auditor.

WATER WORKS.

DECEMBER 31st, 1889.

LIABILITIES.

Debenture Account.....	887,500 00
Revenue Account being an excess of assets over liabilities....	245,177 99

Total.....	<u>\$632,677 99</u>
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Victoria, B. C., January 15th. 1890,

CHAS. KENT,
Treasurer.

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EET

39
30,201 52
26,737 70
25,738 88

2,677 99

VICTORIA

CASH STATEMENT, JANUARY 1ST

RECEIPTS.

Water Rents	40,427 04
Services Collected.....	1,627 50

Total..... 42,054 54

Certified Correct,

JAS. L. BAYMUR,

Auditor.

WATER WORKS.

TO 31ST DECEMBER, 1889.

DISBURSEMENTS.

CHARGES.

Salaries and Wages.....	4,914 90	
Pipes, Fittings, etc.....	1,133 72	
Meters.....	1,308 50	
Coal, Hardware, Hauling, etc.....	2,612 88	
	—	10,000 00

COUPONS FOR INTEREST REDEEMED.

\$100,000 Loan.....	6,475 00	
50,000 "	3,965 25	
20,000 " 1877.....	1,432 50	
75,000 "	3,237 13	
20,000 " 1888.....	1,000 00	
	—	16 109 88

Corporation City of Victoria.....		15,944 66
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Total.....		\$42,054 54
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Victoria, B. C., January 15th, 1890.

CHAS. KENT.

Treasurer.

