
OFFICE OF CITY CLERK,

HALIFAX, 20th Nov., 1889.

The following Report from the Board of City Works and the City Engineer, in reference to the "City Water Supply," was directed to be printed for the information of the City Council.

THOS. RHIND.

City Clerk.

OFFICE COMMISSIONERS BOARD OF CITY WORKS,

November 18th, 1889.

The Board of Works beg to report that at a meeting held this day, they had under consideration the accompanying report from the City Engineer on the efficiency of the City Water Supply, when it was ordered to be forwarded to the City Council for its action.

Respectfully submitted,

S. MOSHER,

Chairman.

REPORT ON THE EFFICIENCY OF THE CITY WATER SUPPLY.

CITY ENGINEER'S OFFICE.

November 9th, 1889.

A resolution of the City Council of the 3rd October, requiring a special report "as to the efficiency of the water service and some scheme for the extension thereof to meet the growing requirements of the City, together with an estimate of cost" having been referred to me, I beg to report as follows:

Our water supply consists of two separate services, the "high" and the "low" which are as distinct as if they supplied two separate and independent communities, although they are capable of being united in case of need.

The low service was originally constructed on a limited scale in 1848 by a private company, but soon proved inadequate to the requirements of the City. The works were enlarged in 1856 but being still inefficient they were purchased by the City in 1861 and were remodelled and still further enlarged in 1862. For six years subsequently this service continued to supply all the water delivered into the City, but it did not furnish a good fire pressure in some districts and was incapable of delivering water to the higher parts of the City.

In order to overcome these defects the high service works were constructed in 1868. They were designated for the purpose of furnishing water to those portions of the City which lie at a higher elevation than 125 to 150 feet above sea level, and, also for furnishing extra pressure in the low service during fires.

Both services have been enlarged and improved, and the available storage capacity of the low service reservoirs more than

doubled within the past ten years, but further improvements are needed to make the whole water supply thoroughly efficient even for present requirements.

The pipe extensions within the City on both services have been considerable during the past few years and further extensions are constantly called for, besides which, the demands for water for manufacturing and other purposes are steadily on the increase.

It is a difficult matter for me to report clearly on this subject without apparently reflecting upon the management of the committee in charge of the works. I might, however, say that while some change for the better is urgently needed, I trust my remarks will not be considered offensive or in any way disrespectful, as nothing of the sort is intended. Another difficulty arises from the absence of proper assistance in this office, which renders it impossible to get necessary surveys made and plans and records prepared, which ought to be in the department for ready reference.

While much care and forethought have been exercised, and large sums expended from time to time in designing, enlarging and improving the works, I regret to say that the community does not derive anything like an equivalent benefit for the money expended. Latterly the drain upon the high service works has been enormous, and owing to orders from the Council in some cases and from the Board of Works in others, the pipes have not only been carried into low districts but localities which were formerly supplied from the low service, and should, under proper control, have remained so, have been placed on the high service, contrary to your Engineer's advice.

There are a few districts supplied off each service where the normal pressure is not sufficient to force the water much above ground level, and there would be no pressure at all at those and other places if the greatest care were not exercised by your officials in regulating the supply to the best advantage possible under the circumstances.

It is fortunate that we still have the means of increasing the pressure at points where it is weak, on an alarm of fire

being given, but in some cases time is required to do this, which is sometimes of vital importance on such occasions.

Neither the high nor the low service works can be said to be in a satisfactory condition, owing chiefly to defects in the system of management and control to which attention has frequently been drawn, but for which there appears little hope of any effective remedy being applied under existing circumstances. For further particulars the annual reports may be referred to.

While the low service reservoirs are now capable of storing a sufficient supply of water for that service for some years to come, the main is now drawn upon to its full discharging capacity. Some sections of the City do not feel the inconvenience of this, but others do in the way of an insufficient supply. The only proper remedy is to control the consumption within reasonable bounds and to stop the waste of water. The remedy hitherto applied has been to tap, divert and ruin the high service.

The Spruce Hill Lakes, which are the high service reservoirs, are in a different condition. Owing to the extensions referred to, and to the lavish consumption and waste of water in the City, these lakes can no longer be relied upon to hold in reserve and furnish sufficient water to meet the demands which are being made upon them. The proper remedy in this case is the same as that just stated, but in addition the service should be confined within its legitimate limits and steps should be taken to enlarge the capacity of the lakes as far as practicable.

After these remedies have been effectually applied and the City grows sufficiently to warrant the expenditure, more water may have to be obtained from some other source or sources. It may then be found advisable to introduce a third or middle service and to remodel the plan of distribution within the City. This question, however, is one which cannot be decided hurriedly or without the expenditure of money in surveys and plans.

The principle of remedying defects temporarily in one service at the expense of the other is altogether wrong, and must

sooner or later lead to disastrous results and heavy and unnecessary expense to the City.

It will, I suppose, be admitted that the efficiency of the water works is of such vital importance to the citizens that they have the right to expect its affairs to be managed at least with good judgment and ordinary care. At present the works are under the control of a committee of the City Council, who are appointed annually, and it appears to me that this system is at the bottom of most of the troubles under which the department suffers. It would be unreasonable to expect that any individual member could, within one year, inform himself thoroughly upon all matters relating to the department that it is necessary he should clearly understand. Even if he were disposed to devote himself to the study of its affairs, and should succeed in mastering them, he would no sooner have acquired the information necessary for his guidance than he would relinquish his office. It is not hard to see that such a system must inevitably lead to confusion in the department, mismanagement and loss to the city.

The best remedy for this would appear to be either to change the character of the commission and its duration of office, or to place the works, under proper restrictions, in charge of one responsible head removable only for neglect, incompetency or misbehavior.

With regard to "some scheme for the extension of the works to meet the growing requirements of the City" I think I have already outlined one which ought to produce beneficial results. It would however, require further development and a careful study of details before it could be pronounced perfect. I have therefore the following suggestions to offer which I may remark are not new:

1. The rigid enforcement of stringent regulations respecting the plumbing and water fixtures in all premises and the control of the consumption and waste of water within reasonable limits.

2. To attach meters in all manufactories, establishments and premises where there is reason to believe there is a lavish

consumption or waste of water, and it cannot otherwise be conveniently checked. (It may be remarked that the above suggestions cannot be properly carried out by simply passing laws, ordinances or resolutions. Additional and ample assistance in the department is also necessary.)

3. To clean out the mains and principal distribution pipes at least once yearly.

4. To raise Lower Chain Lake to the same height as Long Lake. The principal object being to increase the head on the low service main thereby increasing the quantity of water it will deliver into the City.

5. To construct on Camp Hill a low service distributing reservoir capable of holding at least two or three days supply, the effect of which would be, not only to greatly improve the efficiency of the low service works, but to obviate the danger and annoyance to the citizens in having the water occasionally shut off the whole service when repairs are needed to the main, or when the pipe cleaning operations are in progress.

In my Judgment the adoption of all the above suggestions is now necessary. If properly carried into effect, they ought to produce results quite as satisfactory as any more elaborate scheme for the extension of the works at present within the range of practicability. The first two cannot in any case safely be ignored, no matter what other additions may be contemplated, and the third, fourth and fifth will have the practical effect of enlarging the works "to meet the growing requirements of the City," at least for some years to come.

I am aware that the adoption of the fourth and fifth suggestions will involve the expenditure of a considerable sum of money, but it is impossible at present to give any estimate of the cost, as competent professional assistance is needed in this office before the plans could be perfected.

Respectfully submitted,

E. H. KEATING,

City Engineer.

CITY ENGINEER'S OFFICE,

November 12th, 1889.

To His Worship the Mayor and City Council:

GENTLEMEN—I beg to call your attention to the very low state of the Spruce Hill Lakes, which form our high service reservoirs. These lakes are now drawn upon nearly to their full capacity, and will not stand further demands being made upon them for water, without running the risk of exhausting the supply from that source during seasons of long continuous dry weather

I deem it my duty to caution you against the danger of extending the high service distribution pipes to low service districts, which has recently become the practice, and to say unless these extensions are stopped, and proper energetic steps are taken to check the lavish consumption and waste of water, some of the higher portions of the city will shortly be deprived of their supply, and the high service works will be of little service for the purpose for which they were designed.

It also appears to be necessary for me to caution you as to the risks and danger you are running by permitting wooden box drains to be laid in the public streets and thoroughfare. Latterly numbers have been put down by and at the expense of the city, and are used as sewers and for sewerage purposes. At the best they are only "make shifts," and temporary remedies.

They are certain, within a few years to become defective and dangerous, but besides this unless the interests of the city are carefully guarded in allowing them to be used for house drainage purposes, they may occasion numerous vexations law suits at no distant date.

I would also take this opportunity to record my disapproval and protest against the manner in which most of the street

and road work is done. It has become the practice to use materials for macadamizing purposes, which are utterly unfit to be employed. It may, therefore, pretty safely be predicted that many of our streets will shortly be in a deplorable condition, where they are not so already.

The material lately put upon Water Street, under your special resolution of July 3rd, has already mostly been scraped up and carted away. It would be much cheaper and better to remove the so-called gravel that is now being landed for that street, at once from the wharf to the dumping ground, rather than to spread it over the roadway to form the intolerable nuisance it does on the first wet day.

I am, Gentlemen,

Your Obedient Servant,

E. H. KEATING.

City Engineer.

OFFICE OF CITY CLERK,

HALIFAX, Dec. 26th, 1889.

The following "Report of the City Engineer," on *Sewers*, constructed since the year 1874, was directed to be printed for the information of the City Council.

THOS. RHIND,

City Clerk.

CITY ENGINEER'S OFFICE,

21st December, 1889.

To His Worship the Mayor and City Council :

GENTLEMEN :—As required by your resolution of the 18th November, I submit herewith a statement showing the public sewers constructed from the 1st of May, 1874, to the 30th November, 1889, giving the location, length, size and cost, together with the amounts due for sewerage rates, materials of construction and how built, whether by days' work or contract.

The total length of the sewers constructed within the dates named was 33,530 feet, or nearly $6\frac{1}{2}$ miles. The total cost, as nearly as can be arrived at, was 166,543.40, and the total amount of sewerage rates, including \$4,726.27 due on sewers constructed this year, is \$51,799.66.

The temporary wooden sewers, built in the rear of the Common, by direction of the Council, and marked No. 244 and No. 247, are now in a decayed and dangerous condition and require renewing.

Your obedient servant,

E. H. KEATING.

PUBLIC SEWERS CONSTRUCTED IN THE CITY OF HALIFAX, from 1st MAY, 1874, to DEC., 1889.

Statement giving particulars called for by Resolution of City Council of 18th Nov., 1889.

Sewer No.	Locality.	From	To	When Built.	L'ngth Ft.	Size, In.	Cost.	Sewerage Rates.	Material of Construction.	How Built.
5	Albemarle Street	Sackville Street	to Prince Street	1874	310	24 x 16	\$ 770 20	\$ 312 08	Brick.	Contract.
32	Bland Street	Victoria Road	to Inglis Street	"	350	20 x 15	} 2,727 40	1,066 97	"	"
177	Victoria Road	Lucknow Street	to Bland Street	"	450	20 x 15				
51	Compton Avenue	Windsor St.	to 50 ft. E. of Robie St.	"	750	"	1,764 00	481 84	"	"
58	Cunard Street	Moran Street	to Robie Street	"	870	"	2,783 45	446 55	"	"
79	Gottingen Street	Cogswell Street	to Brunswick Lane	"	490	24 x 16	2,018 95	859 74	"	"
87	Granville Street	Prince Street	to George Street	"	355	"	1,250 00	803 75	"	Day's Work
88	"	Sackville Street	to Prince Street	"	355	"	1,735 00	775 26	"	Contract.
104	John Street	West St.	to 240 ft. S. to Charles St.	"	460	20 x 15	1,000 00	375 50	"	"
120	Maynard Street	North Street	to Charles Street	"	490	"	} 4,521 00	1,283 37	"	"
121	"	Charles Street	to William Street	"	310	24 x 16				
128	Moran Street	Sarah Street	to Cunard Street	"	415	20 x 15	1,003 00	383 94	"	"
133	Morris Street	Pleasant Street	to Hollis Street	"	440	36 x 24	1,776 85	878 12	"	"
136	North Street	Agricola St.	to Gottingen St.	"	925	20 x 15	2,524 00	1,079 68	"	"
193	West Street	North George St.	to John St.	"	230	12	606 00	231 36	Pipe.	"
201	City Property	At foot of Inglis Street		"	230	78 x 72	3,600 00		Stone and Brick.	Day's Work
19	Barrington Street	Sackville Street	to Prince Street	1875	350	24 x 16	1,650 00	825 00	Brick.	Contract.
100	Inglis Street	South Park Street	to Bland Street	"	850	33 x 22	4,957 11	1,703 12	"	Day's Work
166	South Park Street	Victoria Road	to Inglis Street	"	500	24 x 16	1,600 00	1,125 02	"	"
161	"	320 ft. S. of Sackville St.	to Spring Garden Road	"	613	48	} 11,344 11	586 14	Stone and Brick.	"
162	Branch Sewer	South Park St.	to Public Gardens	"	45	36				
208	Public Gardens	Sackville St.	to South Park St.	"	480	48	} 9,752 87	2,840 19	"	"
163	South Park Street	Spring Garden Road	to South St.	"	1,300	51 x 48				

210	North Common	Cunard St to 320 ft N. Cogswell St.	1875	1,050	36	} About	} 20,000 00	}	} Brick.	} Contract.
211	"	320 ft. N. of Cogswell St. to 200 ft. S. of Liberty Tree	"	1,350	45					
187	Upper Water Street	Bell's L'ne to Sewer thr'gh Ordn'ce Branch at foot of Bell's Lane	"	155	42	} 8,511 46	}	} Stone.	} Day's Work	
188	"	"	"	55	36					} 110 00	} .....	} Brick.	} Contract.
231	North Common	Sackville St. to 200 ft. S. Lib'y Tree	1876	1,258	45	} 4,525 00	}	} Stone.	} "	
232	Foot of C'mpt'n Av.	50 ft. E. Robie St. to N. Com. Sewer	"	70	20 x 15					} 474 00	} 342 71	} Brick.	} "
233	City Prop'ty F'water	In rear of Victoria Road	1877	400	72	} 2,165 00	}	} Stone.	} "	
234	Cunard Street	Robie Street, Westwardly	"	190	18 x 12					} 548 75	} 591 74	} Brick.	} "
235	Across Fenwick St..	Centre Fenwick St., Northwardly.	"	102	60	} 1,000 00	} 575 00	} "	} Day's Work	
235	"	Centre Fenwick St., Southwardly..	"	82	72					} 3,133 74	} 977 17	} "	} Contract.
236	Bedford Row	Prince Street, Southwardly.....	"	218	18 x 12	} 699 00	} 820 00	} Stone.	} "	
237	Belle Air Terrace..	North Street, Northwardly.....	"	254	18 x 12					} 1,881 00	} 1,667 14	} Brick.	} "
238	Upper Water Street	Jericho Warehouse to Hurd's Lane.	1878	300	24 x 16	} 1,197 00	} 885 62	} "	} "	
239	"	Hurd's Lane to City Dock, N. Hurd's Lane.....	"	75	30					} 270 00	} .....	} Wood—temporary	} "
240	City Dock.....	N. of Hurd's Lane to Harbor.....	"	200	48	} 4,358 50	}	} Stone.	} "	
241	Fenwick Street	Freshwater Culvert, Westwardly ..	1879	350	36 x 33					} 6,204 61
242	Morris Street	Church Street to Pleasant Street ..	1880	705	27 x 18	} 250 00	}	} Wood—temporary	} Day's Work	
243	Inglis Street.....	South Street to Invanhoe Street...	1881	370	33 x 22					} 968 00	} 889 49	} Brick.	} "
244	Robie Street	Compton Avenue, Southwardly ..	1882	631	20 x 20 36 x 36	} 1,416 00	} 1,002 77	} "	} "	
245	Smith's Fields	South Street to Fenwick Street ...	1883	592	60					} 1,484 69	} 935 47	} "	} "
246	"	Fenwick Street, Southwardly	"	716	69	} 1,887 66	} 977 78	} "	} "	
247	North Common	Near Wels'd St. N Common Sewer	1884	502	36 x 36					} 8,208 26	} 4,761 65	} *	} "
248	Rottenburg Street..	Birmingham St., Westwardly	1885	60	30 x 20	} 8,927 75	} 6,898 46	} *	} "	
249	Birmingham Street.	Rottenburg Street, Southwardly ..	"	325	21 x 14					} 8,208 26	} 4,761 65	} *	} "
250	"	Rottenburg St. to Spring Garden Rd	"	472	21 x 14	} 1,484 69	} 935 47	} "	} "	
251	Spring Garden Road	Queen St. to Birmingham St.....	"	255	18 x 12					} 1,887 66	} 977 78	} "	} "
252	"	Birmingham St. to Dresden Row.	"	232	21 x 14	} 1,887 66	} 977 78	} "	} "	
253	"	Dresden Row to South Park St....	1886	600	21 x 14					} 8,208 26	} 4,761 65	} *	} "
254	Gottingen Street ...	90 ft. S. of Almon St. to North St.	1887	1,320	30 x 20	} 8,927 75	} 6,898 46	} *	} "	
255	Upper Water Street	North Street, Northwardly.....	"	467	21 x 14					} 8,927 75	} 6,898 46	} *	} "
256	"	North Street to Artz Lane.....	"	718	24 x 16	} 8,927 75	} 6,898 46	} *	} "	
257	"	Artz Lane to Gerrish Street.....	"	714	30 x 20					} 8,927 75	} 6,898 46	} *	} "
258	"	Gerrish Street to Gray's Lane.....	"	244	30	} 8,927 75	} 6,898 46	} *	} "	
259	"	Gray's Lane, Southwardly	"	39	40					} 8,927 75	} 6,898 46	} *	} "
260	Deep Water T'rm'n's	Water Street to Harbor	"	215	40	} 8,927 75	} 6,898 46	} *	} "	

Sewer No.	Locality.	From	To	When Built.	Length Ft.	Size, In.	Cost.	Sewerage Rates.	Material of Construction.	How Built.
261	Pleasant Street	Foot of Inglis St.,	Northwardly.	1887	35	21 x 14	\$ 186 41	.....	Brick & Concrete.	Day's Work
262	Quinpool Road	Robie Street,	Westwardly	1888	1,478	21 x 14		\$ 3,627 70	"
263	Robie Street	Quinpool Rd. to 18 ft. S.	Pepperal St	"	327	21 x 14	} 7,883 41	384 76	Pipe.	"
264	"	18 ft. S. Pepperal St.,	Southwardly	"	170	15		.....	Concrete.	"
265	"	Quinpool Road, N. to	Man Hole	"	90	21 x 14		.....	Pipe—temporary.	"
266	"	Man Hole,	Northwardly 200 feet.	"	200	15		.....	Concrete.	"
267	"	Spring Garden Rd.,	Northwardly	"	405	36 }	} 5,978 32	{ 961 24	} Concrete.	" "
268	Spring Garden Road	Robie Street to	Carleton Street.	"	398	36 }		{ 941 94		
269	Brunswick Street	Cornwallis St. to within 105 feet of	Gerrish Street	"	1,021	30 x 20	6,228 77	2,511 08	Brick & Concrete.	"
270	Lucknow Street	Inglis St. to within 96 ft.	Victoria Rd.	"	414	21 x 14	1,053 70	880 31	Concrete.	"
271	John Street	80 ft. S. Charles St.,	Southwardly.	1889	165	21 x 14	536 21	534 79	"	"
272	Granville Street	George Street to	Duke Street	"	335	21 x 14	936 17	803 68	"	"
273	Agricola Street	Willow Street to	Charles Street.	"	320	21 x 14	1,406 00	666 85	"	Contract.
274	Creighton Street	Cogswell Street to	Falkland Street.	"	373	21 x 14	1,364 13	932 76	"	Day's Work
275	Brunswick Street	Gerrish Street	Southwardly	"	105	30 x 20	562 96	253 22	"	"
276	Agricola Street	Almon Street to	Ontario Street.	"	582	21 x 14	2,900 00	1,171 22	"	"
277	Birmingham Street	Spring Garden Rd.,	Northwardly.	"	40	21 x 14	120 00	.....	"	"
278	Queen street	Kent St.,	Southwardly, to Fresh-water Culvert	"	218	21 x 14	307 96	363 75	"	"
Total					33,530		\$166,543 40	\$51,799 66		

* Includes Admiralty contribution of £1,250.

VALUATIONS FOR ASSESSMENT.

AS RETURNED BY THE CITY ASSESSOR.

1850.	Total valuation of Property—Personal and Real—Mortgages not included. Real Estate valued at 10 times yearly rental	\$10,564,170
1854.	Tot'l valuation Prop.—Pers'l & Real—Mort. not included..	10,360,740
1857.	do. do. Mort. included.	14,660,232
1859.	do. do. do.	14,989,884
1862.	do. do. Mort. omitted.	12,147,304
1863.	do. do. do.	14,066,020
1865.	do. do. do.	16,248,752
1868-69	do. do. do. Rate, 92c	16,765,976
1870-71.	do. do. do. 1.05c	16,856,788
1871-72.	do. do. do. 1.09c	17,487,286
1872-73.	do. do. do. 1.03c	18,261,000
1873-74.	do. do. do. 1.01c	19,772,543
1874-75.	do. do. do. 1.05c	19,889,522
1875-76.	do. do. do. 1.15c	19,781,240
1876-77.	do. do. do. 1.25c	18,533,798
1877-78.	do. do. do. 1.33c	17,695,794
1878-79.	do. do. do. 1.36c	17,256,347
1879-80.	Real Estate (valued at 10 times rental).....	11,222,494
	Personal Estate, Banks, &c.....	4,381,084
	Rate per cent., \$1.53.....	<u>15,603,578</u>
1880-81.	Real Estate.....	10,884,250
	Personal Estate, Banks, &c.....	3,584,270
	Rate per cent., \$1.37.....	<u>14,468,520</u>
1881-82.	Real Estate.....	11,037,150
	Personal Estate, Banks, &c.....	3,476,592
	Rate per cent., \$1.51.....	<u>14,513,742</u>
1882-83.	Real Estate.....	10,863.03
	Personal Estate, Banks, &c.....	4,692.65
	Rate per cent., \$1.62.....	<u>15,555,688</u>
1883-84.	Real Estate.....	11,674,195
	Personal Estate, Banks, &c.....	5,480,510
	Rate per cent., \$1.44.....	<u>17,154,705</u>

Assessment under amended Act of 19th April, 1883, valuations of Real Estate being made irrespective of rental, in accordance with judgment of Assessors, and Banks and Companies rated at three-eighths of one per cent on paid-up capital.

1884-85.	Real Estate.....	14,976,540
	Personal Estate.....	4,999,430
	Banks and Companies.....	1,469,272
	Rate per cent., \$1.10.....	<u>21,445,242</u>
1885-86.	Real Estate.....	15,134,130
	Personal Estate.....	4,607,645
	Banks and Companies.....	1,469,275
	Rate per cent., \$1.23.....	<u>21,211,050</u>
1886-87.	Real Estate.....	14,577,930
	Personal Estate.....	5,044,335
	Banks and Companies.....	1,469,225
	Rate per cent., \$1.28.....	<u>21,092,400</u>
1887-88.	Real Estate.....	15,091,000
	Personal Estate.....	4,434,210
	Banks and Companies.....	1,370,544
	Rate per cent., \$1.17.....	<u>29,895,754</u>
1888-89.	Real Estate.....	15,334,693
	Personal Estate.....	4,240,900
	Banks and Companies.....	1,987,000
	Rate per cent., \$1.33.....	<u>21,562,603</u>
1880-90.	Real Estate.....	15,122,495
	Personal Estate.....	4,539,911
	Banks, Companies, &c.....	2,132,200
	Rate per cent., \$1.24.....	<u>\$21,694,606</u>

SCHEDULE OF CITY PROPERTY.

LANDS DEEDED TO THE CITY.

PAGE.	SITUATION OR DESCRIPTION.	FROM WHOM CONVEYED.	SIZE OF AREA.	AMOUNT.
149	Engine House, George St ..	William Evans.....	.057 Acres	1600.00
137	“ Isleville	Exrs. Hon. Hugh Bell..	.057 “	600.00
155	“ Maynard St.	William T. Woodill ...	.048 “	1400.00
206	“ Queen St.	Thomas Brown.....	.091 “	1600.00
202	Horticultural Gardens	N. S. Horticult'l Soc'ty.	7.711 “	15000.00
116	Land North of Rockhead ..	Sarah Jacobs.....	15.000 “	800.00
138	Limekiln Lot	John Trider .....	.028 “	1600.00
106	Lot near foot Bates' Lane ..	Charles Cogswell .....	.372 “	240.00
132	Lot on Tower Road	Wm. M. Richardson ...	.113 “	1.00
180	Lot foot of Inglis St.	Assignee T. Mitchell ..	1.239 “	9500.00
31	Magazine Lot	F. W. Veith.....	.344 “	400.00
75	Rockhead	Hon. Hugh Bell	16.000 “	800.00
225	Sewerage Lot on Argyle St ..	Crowe & Fulton .....	.096 “	615.00
176	Pt. Pleas. P'k leas'd 999 yrs.	War Department.....	186.000 “	
Totals.....			227.156 Acres	34153.00

LANDS GRANTED TO THE CITY.

PAGE.	SITUATION OR DESCRIPTION.	FROM WHOM CONVEYED.	SIZE OF AREA.	AMOUNT.
194	Acadia Square	Com. Public Works....	.823 Acres	1.00
22	City Court House	George III .....	.079 “	.....
1	Common	“	235.000 “	.....
16	Dock foot of Salter St .....	“ .....	.172 “	.....
41	Dock north Hurd's Lane ....	“ .....	.138 “	.....
16	Dock foot Morris St .....	“ .....	.114 “	.....
9	Fish Market.....	“ .....	.061 “	.....
7	Grand Parade.....	“	1.000 “	.....
9	Green Market .....	“ .....	.266 “	.....
83	Lot Adjoin'g Freshwater Lot.	Victoria.....	.533 “	43.75
9	M'kt Slip, Wharf & Landing.	George III .....	.660 “	.....
194	Market Square, Richmond ..	Com. Public Works....	.470 “	1.00
194	Mulgrave Park.....	“	3.099 “	1.00
79	Water Lots, Bedford Basin..	Victoria.....	5.460 “	87.50
216	“ Fish Market.....	“ .....	.462 “	60.00
71	“ Freshwater .....	“ .....	.996 “	43.75
216	“ foot of Prince St. ....	“ .....	.078 “	60.00
203	“ near Bauld's .....	“ .....	.171 “	30.00
238	Old Poor House Brl. Ground.	“	1.306 “	1.00
Totals			250.596 Acres	\$329.00

Recapitulation of City Property.

LIST.	DESCRIPTION.	ACREAGE.	AMOUNT.
List 1	Lands deeded to the city.	117.15 Acres.	34,156 00
" 2	Lands granted to the city.	250.59 "	329 00
" 3	City Water Property....	1082.65 "	226,998 44
	Total.....	1560.39 Acres.	\$261,483 44

The foregoing does not include school properties or streets deeded to the City in different localities.

ESTIMATES FOR 1889-90.

ESTIMATE FOR 1889-90.

The Committee of Public Accounts beg to submit, for the consideration of the City Council, the following Estimate of Expenditure, &c., for the year ending 1st May, 1890 :—

SALARIES.

His Worship the Mayor.....	\$ 1000 00	
His Honor the Recorder.....	1200 00	
The City Treasurer..	1800 00	
The City Clerk and Clerk to Board of Health	1600 00	
The Assistant Clerk... ..	950 00	
The Second Assistant Clerk.....	500 00	
The Clerk of Licenses.....	600 00	
Keeper of City Building.....	400 00	
City Medical Officer....	1000 00	
The Stipendiary Magistrate.....	2000 00	
The City Engineer.....	2000 00	
The City Auditor.....	1500 00	
The Collector of Rates, &c.....	3200 00	
The Chief Assessor.....	1000 00	
Assistant Assessors.....	1600 00	
Additional Allowance to do.....	600 00	
		20950 00

POLICE DEPARTMENT.

The City Marshal	1300 00	
The Deputy Marshals (2 @ \$780).....	1560 00	
The Pay of Men (32 @ \$480).....	15840 00	
1 do. extra.....	420 00	
Pay of Sergeants (6 @ \$540).....	3240 00	
Detective	780 00	
Clothing for 43 men at \$40.....	1720 00	
		24860 00
Less for men off duty	360 00	
		24500 00
		\$45450 00

Brought forward,

\$45450 00

ROCKHEAD PRISON.

Governor and Matron	1200 00
Underkeepers and Officials.. ..	2000 00
Maintenance... ..	2400 00
Repairs of Buildings	200 00

5800 00

Less probable income	1000 00
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4800 00

BOARD CITY WORKS.

Fire Department—

Electrician	700 00
Maintenance of Fire Alarm.....	500 00
Engineers of Steam Fire Engines.....	1600 00
Rents Reel Houses.....	250 00
Grants to Fire Companies.....	1400 00
Gas and Fuel.....	900 00
Incidental Expenses.....	1600 00
Keepers of Engine Houses.....	870 00
Repairs of do.	1000 00
Indemnity Fund... ..	1100 00

9920 00

Internal Health.....	13000 00
Streets, Labor and Material.....	21000 00
Insurance	600 00
Horses and Drivers.	1800 00
Caretaker Fire Apparatus and Horses.	1200 00
Fuel for City Buildings.....	500 00
Repairs City Property	2000 00
Caretaker Exhibition Building.....	364 00
Keeper City Clock	100 00
Telephones... ..	300 00
Allowance to Commissioners.....	1000 00

41864 00

\$102,034 00

Brought forward, \$102034 00

MISCELLANEOUS.

Gas for City Buildings	250 00	
Street Lighting	14000 00	
Printing and Stationery	1500 00	
1-5 Loans for Unpaid Acct., &c., \$5232.21 (2nd assessment).....	1046 44	
1 Year's Interest on balance, \$3139.33.	156 97	
Interest on Commutation Fund.....	400 00	
Contingent Account... ..	2262 59	
		19616 00
		\$121650 00

LESS PROBABLE INCOME.

Liquor Licenses	\$ 10000 00	
Cabs, Trucks, Auction and other Licenses	2000 00	
Fines, Fees, &c., Police and City Courts	5000 00	
Fees City Marshal	800 00	
Dog Tax.....	650 00	
Rents City Property	3200 00	
		21650 00
		\$100000 00

EXTRA ASSESSMENT UNDER SPECIAL ACTS :

City Proportion of County Assessment	10000 00
Allowance for Short Collection	500 00
Maintenance of Poor Asylum.. ..	15000 00
“ Insane Paupers, Mount Hope Asylum	6000 00
Dalhousie College.....	500 00
20 Pupils Industrial School, \$60.....	1200 00
20 do. St. Patrick's Reformatory, \$60	1200 00
3 do. School for Blind, \$75.....	225 00
3 do. do. Deaf and Dumb, \$60	180 00
Infants' Home (Tower Road).....	300 00
R. C. Infants' Home, '89-'90.....	300 00
do. do. '88-'89.....	300 00
	\$35705 00

<i>Brought forward,</i>		\$100000 00
Extra Assessments continued	\$35705 00	
Halifax Dispensary and Rent of Morgue	750 00	
Public Schools, per estimate of Com- missioners.	74000 00	
Allowance for Collection	3700 00	
Estimate for Sanitary Purposes... ..	300 00	
Revisors of Electoral Lists	200 00	
Maintenance of Public Gardens... ..	3000 00	
do. do. Park	2000 00	
do. do. Library... ..	1500 00	
One-third of \$2100 Flour Weighers ...	700 00	
Interest on \$700, 1 year... ..	35 00	
Court of Appeals	300 00	
Board of Fire Escapes	300 00	
One-fifth Jubilee Loans, including 2 payments on Loan for Art School	3643 00	
Interest (different rates) on \$15,172..	845 69	
	<hr/>	126978 69
INTEREST.		<hr/>
		\$226978 69
Interest on Sewerage Debentures, \$110,000, Dom. Cy., at 6 per cent; mature 1900 and 1903 ..	6600 00	
Interest on Debentures, Public Gar- dens, \$15,000, Dom. Cy., 6 per cent. ; due July, 1890	900 00	
Interest on Debentures Exhibition Loans, \$20,000, Dom. Cy., 6 per cent. ; mature 1899	1200 00	
Interest on Consolidated Stock--Special Loan, \$100,000, 5 per cent. ; Acts 1882	5000 00	
Interest on Consolidated Stock \$705,500, is 5 p. c. \$35250 00		
Interest on New Loans in 1888 at 4 and 4½ p. c....	7406 25	
	<hr/>	
	42656 25	
LESS		
Amount chargeable to Water Department	9146 74	
	<hr/>	33509 51
		<hr/>
		\$47209 51

<i>Brought forward,</i>		\$226978 69
Interest continued	\$47209 51	
Interest on Old Funded debt, \$24,000, N. S. Cy.. 5½	1284 79	
Sinking Fund on \$100,000	3000 00	
Retiring Allowance Mr. Pryor	1200 00	
Cost of Collection—6 per cent on \$191,473.99	9573 64	62263 94
		\$289246 63
Less amount taken from unexpended balances		21246 63
		\$268000 00

26th December, 1888.

Respectfully submitted,

D. McPHERSON, *Chairman.*

J. A. BELL, *City Auditor.*

LIST OF THE MAYORS OF THE CITY OF HALIFAX SINCE THE CITY WAS INCORPORATED, IN 1840.

<p>Oct., 1841—Stephen Binney. Mar., 1842—Edward Kenny,—elected. to serve out remainder of Mr. Binney's time, until Oct., 1842.</p> <p>Oct., 1842--Thomas Williamson. " 1843—Alex. Keith. " 1844—Hon. Hugh Bell. " 1845—Andrew McKinlay. " 1846—Joseph Jennings. " 1847—William Stairs. " 1848—Adam Hemeon. " 1849—Henry Pryor. " 1850—William Caldwell. " 1851—Andrew McKinlay. " 1852—Hon. A. Keith. " 1853—Henry Pryor. " 1854—Henry Pryor. " 1855—Archibald Scott. " 1856—Archibald Scott. " 1857—Henry Pryor. " 1858—Henry Pryor. " 1859—Samuel R. Caldwell. " 1860—S. R. Caldwell. " 1861—P. C. Hill. " 1862—P. C. Hill. " 1863—P. C. Hill.</p>	<p>Oct., 1864—M. H. Richey. " 1865—M. H. Richey. " 1866—M. H. Richey. " 1867—Stephen Tobin. " 1868—Stephen Tobin. " 1869—Stephen Tobin. " 1870—Hon. W. A. Henry. " 1871—William Dunbar. " 1872—James Duggan. " 1873—John A. Sinclair. " 1874—John A. Sinclair. " 1875—M. H. Richey. " 1876—M. H. Richey. " 1877—M. H. Richey. " 1878—Stephen Tobin. " 1879—Stephen Tobin. " 1880—Stephen Tobin. " 1881—George Fraser. " 1882—George Fraser. May, 1883—George Fraser. " 1884—James C. Mackintosh. " 1885—James C. Mackintosh. " 1886—James C. Mackintosh. " 1887—Patrick O'Mullin. " 1888—Patrick O'Mullin. " 1889—David MacPherson.</p>
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When the City was first incorporated, and for several years thereafter, the Corporation consisted of the Mayor, six Aldermen and twelve Common Councillors,—the Mayor being elected by the Aldermen and Councillors. W. Caldwell was the first Mayor elected by the citizens: about the same time the office of Common Councillor was abolished, since which the Council has consisted of the Mayor and eighteen Aldermen.

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