

CITIZENS FREE LIBRARY.

Statement of Expenditure on account of the Library, from May 1st, 1896, to 30th April, 1897.

1896				
May	11	Paid	Insurance on books to May 1st, 1897	30 00
June	13		D Appleton & Co., for Books	20 00
July	27		J. Carson, repairing books	24 00
Aug	3		Duty on cabinet, etc	9 56
	16		Library Bureau Index	27 20
			Miss Warren, salary	112 50
			Mrs. Kenny	10 00
			Miss Barnaby, salary, 3 months	87 50
			Jacob Carson for binding	24 00
Sept	11		do do	24 00
Oct	9		do do	24 00
			D. McAlpine & Co., directory	2 50
			J. M. Geldert for books	2 45
			City Clerk, express charges	9 21
			Miss Warren, salary, 3 months	112 50
			Miss Barnaby do do	87 50
Nov	2		Jacob Carson, binding	25 09
	20		Baker, Taylor & Co., books	33 44
	30		Morton & Co. do	3 00
			City Clerk freight on books	5 62
			do do do	4 06
	14		W. H. Smith & Son, books	104 39
1897				
Jan	30		Mirr Warren, salary, 3 months	112 50
			Miss Barnaby do do	87 50
			D. Cuzenore & Son for books	71 01
Feb	12		W. H. Guild do	135 95
			T. C. Allen & Co do	14 84
			C. Annand for Chronicle	6 00
			Herald Co for Herald	6 00
			G. & T. Phillips, binding, etc	40 75
			James Bowes & Son, and other accounts	5 50
April	5		T. C. Allen & Co., for stationery	5 30
	12		Morning Herald Co, for placards	4 75
			Halifax Gas Co, heaters, etc	1 95
			D. Shiers, repairing books	9 00
	17		do do do	7 00
	24		do do do	7 00
			Baxter, Taylor Co for books	18 07
			Lives of Cabot and Columbus	4 58

	A. & W. Mackinlay, stationery.....	7 32
	T. C. Allen & Company, stationery.....	16 80
30	Miss Warren, salary.....	112 50
	Miss Burnaby, salary.....	87 50
	Holmes & Blanchard for press.....	65 00
	G. & T. Phillips for binding.....	35 50
	“ “ “ “.....	20 10
	Golding & Company for card cutter.....	26 00
	Marshall & Company, cutting machine (part).....	21 60
	Freight and duty on paper cutter.....	29 81
	D. Shires, repairing books.....	7 00
		<hr/>
		\$1749 21

IMPROVEMENT OF LOCKMAN STREET.

Statement of Expenditure for Widening Lockman Street.

July	20	Paid For laying granite gutters, etc.....	\$ 281 60
		Resetting curbs, etc.....	229 37
	17	Work per time book.....	22 00
	31	do do do.....	14 00
		Amount paid for property expropriated.....	110,600 00
Sept.	14	do do for labour.....	14 00
	28	do do do.....	109 57
Oct.	5	W. R. Hamilton for arbitrating.....	25 00
		S. M. Brookfield, do.....	600 00
		James Shand, do.....	600 00
	12	Labour and truckage.....	66 32
		Registrar of deeds.....	5 60
		Wm. Nisbet for property.....	25,00 00
	26	General work.....	147 60
Nov.	9	Morning Herald, advertising, etc.....	21 09
		Laying curb stones, etc.....	367 26
	11	Arbitration expenses.....	662 40
	23	General work and curbing.....	536 07
Dec.	7	John Davison & Son, lumber.....	12 00
	21	I. Sallis, removing soil.....	177 50
		General work.....	621 00
		Laying curbing, etc.....	319 33
1897			
Jan.	4	Work on roadway.....	15 92
	18	do do.....	12 75
Feb.	8	Blackadar Bros., advertising.....	7 81
April	5	J. J. Barnhill, costs.....	15 00
	12	E. M. Power, amount of appropriation.....	15 00

19	Catherine Healy, do do	15 00
26	J. Mulcahy, amount of appropriation	15 00
	Michael Mulcahy do	15 00
	Laying curbs, etc.....	250 54
30	C. Annand, advertising.....	12 54
		<u>\$118,315 67</u>

WIDENING QUINPOOL ROAD.

*Statement of Expenditure for widening Quinpool Road from
1st May, 1896, to 30th April, 1897.*

1896			
Aug	31	Paid for Expropriation of land, etc.....	\$13,237 39
		J. McDonald, cab hire	3 00
		Cab Hire of appraisers	5 00
Nov	9	Morning Herald Co, advertising	16 88
1897			
Jan	23	M E Keefe and assistant arbitrator	420 00
	28	John McInnis, arbitrator	400 00
Feb	8	Blackadar Bros, advertising	5 06
Mar	1	D. Grant, contractor, and others	431 20
	8	D. R. Grant, solicitors fees	200 00
	27	do balance of account.....	180 00
April	26	Removing trees.....	18 40
	30	C. Annand, advertising	16 17
		R. J. White, registering deeds	205 00
		Mrs. Ainsley, cab hire	4 00
			<u>\$15142 10</u>

PRINTING AND STATIONERY.

*Statement of Expenditure for Printing and Stationery from
1st May, 1896, to 30th April, 1897.*

1896					
May	9	Paid Morning Herald Co for advertising		23	25
		do do do		132	60
	11	T. C. Allen & Co., stationery.....		107	89
July	3	do do		171	55
	13	C. Annand, advertising		9	24
		D. McAlpine & Co, for directories		37	50
Nov	14	T. C. Allen & Co., blank books and stationery.....		348	42
		Morning Herald Company, advertising		113	64
		S. R. Phelan for stamps		20	00
	30	City Treasurer do		8	00
1897					
Feb.	8	T. C. Allen & Co., printing etc.....		94	42
		Morning Herald Company for Herald.....		6	00
		C Annand, Chronicle		6	00
		Blackadar Bros., advertising, etc		110	50
April	30	T. C. Allen & Co., blank books and stationery		416	05
		Morning Herald Company, voters lists		232	80
		Holloway Brothers, printing annual report		296	50
		Estate of C. Annand, advertising.....		124	58
		Morning Herald Company do		44	50
		This amount to be credited to library		160	00
					\$ 2463 44

POINT PLEASANT PARK.

*Statement of Expenditure on Point Pleasant Park from 1st
May, 1896, to 30th April, 1897.*

1896					
May	10	Paid S. Vennor for labour.....		67	00
	18	do do		80	50
	23	do do		52	50
June	1	do do		82	00
	5	do do		73	00
	15	do do		59	00

June	20	Paid S Venner for labor	\$	69 00
		James Dawson, cab hire.....		2 00
	28	S. Venner, labor		88 00
July	6	do do		73 00
	10	do do		55 50
	17	do do		61 00
	24	do do		46 50
Aug.	3	do do		78 00
	10	do do		53 88
	17	do do		57 00
	24	do do		54 50
	21	do do		81 00
		S. M. Brookfield on contract for lodge		500 00
Sept.	3	S. Venner, labor		52 50
	11	do do		45 00
	21	do do		31 00
	26	do do		31 00
Oct.	5	do do		61 00
	12	do do		32 00
	17	do do		32 00
	24	do do		31 00
Nov.	2	do do		63 00
	7	do do		16 00
	17	do do		13 00
	23	do do		22 00
	30	do do		54 00
Dec.	8	do do		22 00
		Stairs Son & Morrow, hardware.....		33 75
	12	S. Venner, labor		25 00
1897				
Jany.	4	S. Venner, labor		33 72
Feb.	1	do do		34 00
Mar.	4	do do		28 00
	31	do do		34 00
April	15	do do		46 00
	29	do do		86 00

 \$2461 35

CAMP HILL CEMETERY.

*Statement of Expenditure on Camp Hill Cemetery from 1st
May, 1896, to 30th April, 1897.*

1896				
May 18	Paid A. McDougall for labor	.....	\$	24 20-
26	Power & Co. repairing W. C.	.....		6 50
June 1	A. McDougall, salary	.....		23 00
15	do do	.....		28 20
29	do do	.....		33 30
July 13	do do	.....		30 40
27	do do	.....		21 50
Aug 11	do do	.....		16 50
24	do do	.....		24 20
Sept. 1	do do	.....		24 20
21	do do	.....		11 00
Oct. 12	do do	.....		23 31
Nov. 18	do do	.....		42 70
1897				
Jan. 4	do do	.....		5 50
16	do do	.....		5 50
Mar. 1	Wm Dorey, removing snow	.....		6 05
April 26	A. McDougall, labor	.....		6 60
				\$332 76

ROAD ON CITADEL HILL.

*Statement of Expenditure for Footpath, etc., on Citadel Hill
from 1st May, 1896, to 30th April, 1897.*

1896				
July 6	Paid for labor	.....	\$	15 05
20	Erecting fence, etc.	.....		99 15
Aug. 3	Work on fence, etc.	.....		21 63
31	Rhodes & Curry and others	.....		242 50
"	Work at fence	.....		10 78
Sept. 14	do do	.....		20 50
Oct. 5	W. H. Brush for work	.....		264 05

Dec. 21	Work on road.....	45 02
1897.		
Jan. 4	Work on road.....	31 66
Mar. 8	J E. M. Taylor for painting.....	70 00
April 26	Grading walk etc.....	74 32
31	James Freda for gravel.....	45 40
		<u>\$ 949 06</u>

YOUNG AVENUE.

Statement of Expenditure on Young Avenue from 1st May 1896, to 30th April, 1897.

1896.		
July 17	Paid S Holmes, Prothonotary for lands expropriated.....	\$ 2650 00
Aug. 10	Halifax Insurance Company for insurance.....	11 25
31	W. McIntosh, balance for grading.....	45 00
		<u>\$ 2706 25</u>

POOR'S ASYLUM CONSTRUCTION ACCOUNT.

Statement of Expenditure on Construction Account from 1st May, 1896, to 30th April, 1897.

1796.		
July 13	Paid John McInnis & Son for lumber.....	\$ 6 84
	Day & Kinsman for plumbing.....	15 53
1897.		
Mar. 22	Brookfield Bros, lumber.....	34 23
April 12	Day & Kinsman, plumbing.....	61 68
30	Graham & Pickles, electric bells.....	55 00
		<u>\$ 173 28</u>

LOAN FOR NEW ENGINE HOUSE, WEST STREET.

1896				
Aug	24	Paid M. E. Keefe per contract, on account	\$	2000 00
Oct	25	do do do		1500 00
1897				
Jan	14	do do do		1500 00
				\$5000 00
				\$5000 00

LOAN FOR EXHIBITION PURPOSES.

1896				
Sept	1	Paid Alderman Lane for Delegation	\$	1000 00
Nov	18	People's Bank on Deposit		9000 00
				\$10,000 00
				\$10,000 00

FUEL ACCOUNT.

Statement of Expenditure for Fuel from 1st May, 1896, to 30th April, 1897.

1896				
June	8	Paid for putting in coal, City Hall.....	\$	1 10
July	6	William Roche for coal.....		17 83
Oct.	5	do do do		5 00
Nov.	9	Putting in coal at City Hall different times.....		18 42
Dec.	7	William Roche for coal		190 70
		Putting in do at City Hall.....		16 49

1897			
Jan.	18	Removing ashes	2 26
Feb.	1	do do	1 73
	8	William Roche for coal	155 25
	15	Hauling and putting do in	17 83
Mar.	2	Transfer to horse account	93 00
	15	Removing ashes from City Hall.	2 00
April	30	William Roche for coal and hauling.....	310 50
		Removing ashes	19 76
		William Roche for coal	5 80
			\$857 87

STREET LIGHTING,

*Statement of Expenditure for Lighting Streets from 1st May,
1896, to 30th April, 1897,*

1896				
June	8	Paid Telephone and Motor Company for	May	\$ 1271 75
July	6	do do	June	1273 25
Aug.	10	do do	July	1272 75
Sept	8	do do	August	1272 25
Oct.	5	do do	September	1260 75
Nov.	9	do do	October	1277 80
Dec.	21	do do	November	2279 68
1897				
Jan.	25	do do	December	1279 56
Feb.	8	do do	January	1350 06
Mar.	3	do do	February	1281 06
April	5	do do	March	1248 56
	30	do do	April	1256 56
				\$16,323 03

LIGHTING CITY HALL.

Statement of Expenditure for Lighting City Hall, from May 1st, 1896, to 30th April, 1897.

1896			
June	1	Paid Halifax Gas Company	10 40
July	6	W. Sheppard for electrical fittings	61 70
Sept.	1	do do	3 80
		Halifax Gas Company, rent of meter	12 00
Oct.	5	W. Sheppard, electrical work	14 70
Nov.	9	Halifax Gas Company for Meter	10 20
		W. Sheppard, electrical work	14 68
Dec.	7	do do	14 10
1897			
Jan	4	do do	4 75
Feb.	8	do do	46 50
	15	Halifax Gas Company for gas, 3 months	8 80
		Illuminating and Motor Company	366 24
Mar.	8	Halifax Gas Company, gas	3 75
April	30	Illuminating and Motor Company, 5 months	261 60
			\$833 22

TELEPHONE ACCOUNT.

Statement of Expenditure for Telephones from 1st May, 1896, to 30th April, 1897.

1896			
June		Paid N. S. Telephone Company, 6 months, for sundry offices .\$. \$	56 50
Nov.	4	do do do	56 50
			\$113 00

BOARD OF APPEALS.

*Statement of amounts paid Commissioners of Appeals from 1st
May, 1896, to 30th April, 1897.*

1896			
May	18	Paid Thos. E. Cooke	\$100 00
		John W. Symons	200 00
		W. F. MacCoy	100 00
			\$300 00

HOSPITAL ENDOWMENT FUND.

*Statement of Expenditure on account of Hospital Endowment
Fund, from 1st May, 1896, to 30th April, 1897.*

1896			
Nov.	7	Paid James Hillis & Son for settees	\$ 21 00
1897			
April	12	do do	24 00
			\$45 00

CONSOL PREMIUM FUND.

*Statement of Amounts paid on account Consol Premium Fund.
from 1st May, 1896, to 30th April, 1897.*

1896			
May	13	Paid City Treasurer	\$ 4 46
		do do sinking fund	3000 00
June	1	Sheriff Archibald	\$1178 18
		Drysdale & Newcombe,	605 65
		costs suit J. T. Bulmer vs City	} \$1783 83

	Nova Scotia Lithograph Lithograph Co., for debentures ..	95 18
July 18 1897	C. Annand, advertising	21 00
Jan. 15	Maritime Steam Lithograph Company	24 25
		\$4928 78

INSURANCE ACCOUNT,

*Statement of Expenditure for Insurance from 1st May, 1896,
to 30th April, 1897.*

1896		
June 8	Paid Queen Insurance Company for insurance on City property one year	\$925 00

COUNTY RIFLE ASSOCIATION.

Statement of Amount paid County Rifle Association for 1896.

1896		
Oct. 5	Paid W. A. Garrison	\$ 50 00

DALHOUSIE UNIVERSITY.

*Statement of amount paid Dalhousie College and University,
from 1st May, 1896, to 30th April, 1897.*

1896		
Dec. 31	Paid J. W. Forrest for 1896-7	\$ 100 00

HALIFAX DISPENSARY.

Statement of amount paid Halifax Dispensary from 1st May, 1896, to 30th April, 1897.

1896
Dec. 31 Paid W. H. Wiswell for 1896-7\$ 750 00

INSTITUTION FOR DEAF AND DUMB.

Statement of amount paid Institution for Deaf and Dumb for 1896.

1896
Nov. 9 Paid A. McKinlay for 8 pupils\$ 360 00

R. C. HOME FOR GIRLS.

Statement of Amount paid R. C. Home for Girls, from 1st May, 1896, to 30th April, 1897.

1897.
Mar. 18 Paid W. Hooper on account.....\$ 450 00
Apl. 30 W. Hooper balance of appropriation 150 00

\$ 600 00

ST. PATRICKS REFORMATORY FOR BOYS.

Statement of Amounts paid for Maintenance of Boys in St. Patrick's Reformatory from 1st May, 1896, to 30th April, 1897.

1796.						
Aug.	3	Paid Bro. Lawrence for 8 Boys 3 months.....			\$	160 00
Nov.	16	do do do				150 00
1897						
Mar.	8	Bro. Lawrence for 7 Boys 3 months.....				140 00
June	4	do do do				575 57
						\$ 1025 57

INDUSTRIAL SCHOOL FOR BOYS.

Statement of Amounts paid for Maintenance of Boys in Industrial School from 1st May, 1896, to 30th April, 1897.

1896						
Aug.	24	Paid R. Norman for 10 boys.....			\$	200 00
Nov.	1	do do 5 boys to date.....				139 96
1897						
Feb.	8	R. Norman for 6 boys to date.....				120 00
June	14	do do do				339 96
						\$ 799 92

TRUANTS UNDER COMPULSORY ACT.

*Statement of Amounts paid for Truants under Compulsory Act,
from 1st May, 1896, to April 30th, 1897.*

1896				
Aug. 24	Paid	Industrial School for 4 boys.....	\$ 66 64	
Nov. 1	do	do do do	40 00	
1897				
Feb. 8	do	do 11 boys.....	186 60	
				\$293 24
1896				
Aug. 3	Paid	St. Patrick's Home for 21 boys.....	282 92	
Nov. 16	do	do do 23 boys.....	224 47	
1897				
Mar. 8	do	do do 26 boys.....	398 22	
				\$905 61
				\$1198 85

SCHOOL FOR THE BLIND.

*Statement of amount paid School for the Blind, from 1st May,
1896, to 30th April, 1897.*

1897				
June 5	Paid	Miss Graham for 5 Pupils.....	\$ 375 00	
				\$ 375 00

INFANTS HOME, R. C.

*Statement of amount paid R. C. Infants' Home, from 1st May, 1896, to
30th April, 1897.*

1896				
June 8	Paid	Sister De Paul.....	\$ 300 00	
				\$ 300 00

INFANTS HOME, Tower Road.

Statement of amount paid Infants' Home, Tower Road, from 1st May, 1896, to 30th April, 1897.

1896
 June 8 Paid Mrs. J. C. Mackintosh \$ 300 00

SCHOOL FOR ART AND DESIGN

Statement of amount paid School of Art and Design, from 1st May, 1896, to 30th April, 1897.

1897
 April 30. Paid J. M. Smith for 1896-7 \$ 500 00

CARNIVAL FOR 1896

Statement of Expenditure for Carnival, 1896.

1896.
 July 28 This amount paid Cashier Peoples' Bank \$ 1500 00

Superannuation Ex-Stipendiary R. Motton.

*Statement of amount paid Ex Stipendiary Motton from 1st May, 1896,
to 30th April, 1897.*

1896				
May	31	Paid Superannuation for	May	\$ 83 33
June	30	do do	June	83 33
July	31	do do	July	83 33
Aug	31	do do	August	83 33
Sept	30	do do	September	83 33
Oct	31	do do	October	83 33
Nov	30	do do	November	83 33
Dec	31	do do	December	83 33
1897				
Feb	3	Paid Sheriff Archibald	40 00	83 33
		R. Motton for January	43 33	83 33
	28	do do	February	83 33
Mar	31	do do	March	83 33
April	30	do do	April	83 37
				\$ 1000 00

COUNTY OF HALIFAX.

*Statement of Amounts paid County of Halifax on Account,
from 1st May, 1896, to 30th April, 1897.*

1896				
July	13	Paid County Treasurer		\$ 444 75
Aug.	11	do do		164 90
Oct.	5	do do		865 17
Dec.	14	do do		1763 21
1897				
Feb.	5	do do		1810 42
April	12	do do		1264 37
				\$6312 82
Amounts paid up to 31st Oct., '97				1816 69
				\$ 8129 51

PUBLIC SCHOOLS.

*Statement of Amounts paid the Commissioners of Public Schools,
from 1st May, 1896, to April 30th, 1897.*

1896.					
June	3	Paid Commissioners on account of appropriation			\$ 1185 19
July	7	do	do	do	2745 40
	23	do	do	do	1331 01
Aug.	4	do	do	do	1661 00
	20	do	do	do	337 58
Sept.	9	do	do	do	3077 58
	15	do	do	do	614 35
	29	do	do	do	1548 90
Oct.	16	do	do	do	3341 90
	24	do	do	do	2338 18
Nov.	4	do	do	do	1857 25
	16	do	do	do	4045 43
Dec.	8	do	do	do	6883 14
	15	do	do	do	943 92
	28	do	do	do	3947 83
1897.					
Jan.	16	do	do	do	5390 74
Feb.	15	do	do	do	3578 80
	25	do	do	do	5796 48
Mar.	8	do	do	do	2733 07
	24	do	do	do	2064 20
					\$56021 95
Amounts paid up to 31st Oct., 1897					16767 52
					\$72,739 47

NOTE.—Several of the foregoing accounts have sums to their credit for work or material supplied to the different departments all of which will be found in the Statement of Receipts and Expenditures in the City Treasurer's Report.

CITY ENGINEER'S REPORT.

CITY WORKS DEPARTMENT.

1896-7.

Mayor :

DAVID MCPHERSON.

City Engineer :

F. W. W. DOANE.

Assistant City Engineer :

H. W. JOHNSTON, JR.

Junior Assistants ;

W. P. MORRISON, A. M. PICKERING.

Foreman of Streets :

JOHN McDONALD.

Foreman of Water Department :

EWEN MORRISON.

Clerk of Works :

W. F. REILLY.

Assistant Clerk :

JAMES HOPEWELL.

Stenographer, &c.,

MISS MINNIE HUNTER.

Plumbing & Meter Inspector :

CLAUD DONOVAN.

Foreman of Workshop :

J. B. SCRIVEN.

Inspector of Buildings :

THOMAS SPELMAN.

Water Inspector : JOHN E. BURNS.

CITY ENGINEER'S OFFICE, CITY HALL,
HALIFAX, N. S., MAY 1, 1897.

To His Worship the Mayor :

SIR,—I beg to submit the (third) annual report of the Department of City Works for 1896-7, my sixth annual report:—

WATER WORKS.

The most important matter for record in connection with this system during the year was the extraordinary rain-fall. The Do-

minion Government Meteorological station at Halifax was established in 1869 and observations have been made at the Low and High service headworks since 1876 and 1887 respectively. The average annual rainfall in the City from 1869 to 1895 was 55.862 inches. It varied from 45.808 in 1894 to 66.294 in 1888. An examination of the record reveals the interesting and important fact that the years of smallest rainfall are immediately followed or preceded by years of greatest rainfall. Thus in 1888 the rainfall reached the maximum 66.294 inches, in the following year it dropped to 48.659 within 2.851 inches of the minimum. Reference to the report of this Department for the year 1894 will show that the season was very dry. Long Lake fell six feet four inches below the waste weir, the lowest recorded level, and Spruce Hill Lakes dropped four feet eleven inches. The rainfall was the smallest observed since 1869, as already noted. In 1895 the records show a total of 62.152 inches while in 1896 Mr. Allison, Dominion Government Meteorological Agent at Halifax, reports 69.862 inches, 3.568 inches greater than that of any previous year. Rain or snow fell on 183 days. The greatest monthly rainfall on record previous to 1896 was 10.34 inches in February 1870. In 1888 the heaviest monthly fall was 7.764 which is recorded in December. In 1896 8.729 inches fell in July, and 8.786 inches in March, while in September and October, the record shows 12.092 inches and 15.039 inches, respectively. Rain fell on 16 days in September, and on 20 days in October. The fall on the 7th, 10th, 13th and 18th of September, was 1.232 inches, 3.912 inches, 3.146 inches, and 1.510 inches, a total for the four days of 9.8 inches, or more than $\frac{3}{4}$ of the whole precipitation for the month. In October, 4.394 inches fell on the 19th, 29 per cent of the rainfall for the month, and 6 per cent of the total for the year. The first month, January, gave the modest total of 1.72 inches while for January, 1895, 10.131 inches is recorded.

There were four heavy storms during the year. Early in the morning of July 31st, rain began to fall, and during 3.8 hours the gauge showed 3.506 inches, or at the rate of .92 inches per hour. The rate of fall was the heaviest on record, although the quantity was exceeded in subsequent storms of greater duration.

On Sept. 10th, rain fell during 7.5 hours, the quantity registered being 3.912 ins., or at the rate of .52 ins. per hour, 0.186 ins. fell on the 11th during 4.1 hours, 0.13 ins. on the 12th during 2 hours, and on the 13th 3.146 ins. fell during 9.5 hours, or at the rate of .33 ins. per hour. The total fall for the four days was 7.374 ins. On October 19th the maximum quantity was recorded, the precip-

itation being 4.394 inches during 14.3 hours, or at the rate of .30 inches per hour.

The September rains referred to above raised Long Lake about 32 inches, the highest level reached being 10.5 inches above the waste weir. In October, the ground was saturated with water, and the rain falling on the 19th flowed off rapidly. Long Lake was raised 20 inches by the heavy storm of the 19th in about 24 hours. The water level was 25 inches above the spillway of the dam, while at Lower Chain Lake it overflowed the screen chambers and ran over the floor of the old gate house. Drains and culverts were destroyed, roads washed out and bridges carried away. Jubilee Road was excavated by the rush of water for a length of 100 yards, the road metal being carried away for a width of half the roadway and a depth of 6 ft. Heavy stones were deposited at the foot of the hill, while the lighter material went to sea. The main trunk sewer on the common was not only full to overflowing, but a torrent of water followed its course on the surface, sweeping through the gardens and down South Park Street, until it found an outlet at South Street.

The overflow at Long Lake waste weir for the year is estimated at 1,999,779,902 gallons, while in 1894 it was estimated at 920,412,340 gallons, all of which ran off between January 29th and May 12th

NEW MAINS

Sixteen petitions for the extension of main distribution pipes were received, and twenty-three were ordered by the Council. Sixteen were to be made provided the petitioners would pay special rates, and two, viz: Sullivan and Duncan Streets, were to be laid while the sewer was under construction, provided the owners of property on the street would sign an Agreement establishing the line of the street. Of the twenty-three extensions made, five, viz: Charles St., Rhuland St., Woodill St., North St., and Harris St., were to connect dead ends, and on Bloomfield St., Bilby St., and Edward St. (south of Morris St.) where extensions were made to supply houses dead ends were also connected.

Four nine inch mains were laid. The Willow Park main on Windsor Street begun last year was completed, pipe being laid from the supply main on Quinpool Road to the old work near Chebucto Road, 1220 feet of old six inch pipe being taken up.

The old six inch pipe in Campbell Road South of Mulgrave Park reservoir was taken up and the nine inch pipe extended to a

point north of the I. C. R. round house. A twelve inch main was laid in Gottingen Street from Young Street to the top of the hill at Fort Needham. A nine inch pipe was laid from this point North to Duffus Street.

The old six inch pipe in Tower Road South of Inglis Street was taken up and nine inch pipe laid to Miller Street. This pipe was laid in the trench opened by the People's Heat and Light Co., and six inch pipe was also laid down Miller Street and along Franklyn Street. In the latter street, half the cost of trenching was paid by the City. A six inch pipe was laid at the Company's expense from Franklyn Street to the works.

In Hollis Street the old three inch pipe had become badly corroded, and it was taken up and four inch pipe laid instead.

CLEANING MAINS

The 24 inch Low Service main was cleaned with the Kennedy-Keating scraper on October 28th. It passed through 13400 feet in 39 minutes, starting at 11.51 a. m., passing blow off at Arm at 12.02 p. m., Industrial School Gate at 12.10 and reaching St. Andrew's Cross at 12.30.

The High Service main was cleaned on the following day. The scraper passed through 6712 feet of 20 inch pipe in 27 minutes, starting from Spruce Hill Lake Gate House at 12.15 p. m., passing blow-off at 12.21, air valve at 12.32 and reaching reducer at 12.42.

The 20 inch scraper was removed and the 15 inch machine inserted. It became fastened on the valve and caused considerable delay. It was finally started at 4.56 p. m., passed the blow-off at Upper Chain Lake at 5.30, hatch at Lower Chain Lake at 5.42, blow-off at Arm at 5.59, and emerged at St. Andrew's Cross at 6.40, making the run of 29628 feet in 1 hour and 44 minutes.

METERS.

The number of meters in use at the close of the year is 194. The inspection has been transferred to Mr. Donovan, while Mr. Burns was required to give his whole time to sanitary work during the Summer. The adoption of meters has been strenuously opposed, but there is no question that if generally adopted the true quantity of water used by each consumer would be established, and the tax paid by water takers would be adjusted more equitably than under the present method based on the value of the property.

The rates should not be so high that they prevent legitimate consumption, but under no circumstance should the meter be removed where waste is detected. We cannot go on making extensions unless the meter system is also extended, and the waste reduced. There are portions of the city in which at times the domestic supply fails entirely, to say nothing of the fire supply.

Although the rates charged for water supplied through meters were not high when compared with those of other cities, they were again reduced during the year.

GENERAL.

17801 feet of cast iron distribution pipe was laid, making a total of $62\frac{2670}{5280}$ miles now in use. 8931 feet of service pipe was put in 271 buildings were supplied with water, and 40 old services were renewed.

Thirteen old fire hydrants were replaced with improved frost jacket hydrants, and thirteen new hydrants were put in, making the total 381.

The total length of excavation made in carrying out the work was 27945 feet or 5.3 miles.

The extensions made will enable the Department to abandon the free wells on Tower Road, Roome street and Campbell road, and the free hydrant at the head of Kaye street will be removed.

There is no charge made against the Fire Department for keeping up the fire service, consequently no money should be transferred for services of fire horses in street watering. Works constructed to afford fire protection cost three times as much as those built for domestic supply only. In many cities an average rate of about \$30.00 per hydrant is charged to the Fire Department and credited to the Water Department. Our bill for 1896-7 at \$30.00 each for 381 hydrants would be \$11430.00, which should certainly be an off-set against the few dollars worth of work done by the Fire Department horses.

The usual reports of the Foreman and Meter Inspector are appended.

SEWERS.

The total length of new sewers constructed was 11053 feet, or 2.09 miles. The most expensive work was on Gottingen street south of North street. Part of this sewer was constructed in 1895.

The work in 1896 was performed in the winter, and the cost cannot be kept down on work done in cold weather. Bell's Lane sewer was of larger size than usual, being 36 inches in diameter. With the exception of these two sewers, the work was performed at an average cost per foot of \$3.82. The cost of sewer work constructed during the previous year averaged \$3.93 per foot. The cheapest work was performed by Foreman Colin McGillivray on Barrington Street and Spring Garden Road at a cost of \$1.93 per foot, and \$151.00 less than the assessment on the properties. Forty-nine concrete catchpits were constructed during the year. The concrete covers of these pits have been abandoned and iron substituted. The concrete is not strong enough to stand the rough handling of boys who lift them to search for balls and allow them to fall back, invariably breaking them in pieces. In cold weather when the cover is frozen to the pit it cannot be removed by the employees of the Department without injury.

HOUSE DRAINS AND PLUMBING.

333 permits were issued during the year for laying drains, and all work performed to the satisfaction of the inspecting officer.

Another hitch occurred in the plumbing law, and it was late in the year before the regulations were finally approved by the Governor-in-Council. The majority of the master plumbers, however, were desirous of working under the law, and 431 permits were granted and 368 certificates issued for satisfactory completion of work. The Master Plumber's Association have asked for some amendments which will be considered by the new Board.

INTERNAL HEALTH.

The contract for the removal of ashes and garbage was awarded to Peter Kiddy at \$57.00 per week. The service was continued until December, the contract extending over 29 weeks. No progress was made during the year in the garbage disposal problem, and it seems to be as far from solution as ever. In the meantime the disgraceful dumps exist in different parts of the city, a nuisance to the neighbors, a menace to health and an injury to the reputation of Halifax.

The extra street sprinkler was operated by George Harvey at \$2.95 per day.

A push patrol cart purchased in 1895 was placed in service and two men employed on the principal streets under the patrol system.

Their work has been a great improvement on the old system and the new system will be extended this year to include all the most important streets.

PERMANENT PAVEMENT

The work performed in this service includes 2496 square yards of granite pavement, 770.42 square yards of concrete sidewalk, 9258.91 square yards of asphalt or tar concrete sidewalk, 247.36 square yards of asphalt crossings, 8671 feet of straight curb and 476 feet of corner curb set or reset and 10118 feet of straight gutter and 517 ft. 3 in. of corner gutter laid or relaid.

The cost of concrete sidewalks was almost exactly the same as in 1894, the average being \$1.83 per square yard, the cheapest \$1.69, and the highest \$1.93. The corners on the East side of Barrington Street at Blowers Street and Salter Street were surfaced with asphalt.

The cost of asphalt or tar concrete sidewalks varies with the location and conditions. Where cinders are available in the vicinity and the work of grading light the cost is comparatively low, but where the soil is clayey and cinders have to be hauled a long distance the work is more expensive. The asphalt or tar concrete was laid by John McFatrige, Jr., by contract.

The Dominion Government paved the street in front of the new freight shed at the foot of Cornwallis Street from the building to the old curb line on the East side of Upper Water Street. The remainder of the street from Cornwallis Street to Gray's Lane was paved by the City with granite setts on a broken stone foundation, the specifications being the same as that used for the work from Cornwallis Street South. The cost of the pavement was \$3.02 per square yard.

STREETS.

At the last meeting of Council in 1895-6 Mr. S. M. Brookfield was appointed Arbitrator for the City in connection with the widening of

LOCKMAN STREET.

A few days later the property owners met at the City Hall and appointed Mr. James Shand, while Mr. Donald Grant of New Glas-

gow was appointed third Arbitrator. The award, which was filed in August 1896, is appended.

The expenditure to date is:—

Arbitrators' award	\$113,100.00
Arbitrators' fees and clerical expenses.....	1,887 40
Labor and materials.....	3,211.04
Advertising.....	37.23
Legal expenses.....	80.00
	\$118,315.67

Twenty old houses were sold for removal, as shown in the appended statement, of Contracts, and the land remaining at lot number 43-5 was sold to Mrs M. A Kent for \$402.00. The triangular piece of land remaining at the corner of Lockman and North Street was sold to Thomas M. Power for \$450.00. The amount received for sales to date is \$1408.00. All the buildings between Cornwallis Street and Gerrish Street were removed, and many of those between Gerrish Street and North Street were moved back to the new street line. A granite curb and gutter was laid on the West side from Cornwallis Street to Artz Lane, and that portion of the street macadamized. The East side was graded ready for the curb as far North as Gerrish Street. The cost of the work to date is within the estimate. The award of the Arbitrators was below the amount estimated in my report for last year.

QUINPOOL ROAD.

widening has not received as much attention as Lockman Street. Mr. John McInnes was appointed by the City, Mr. M. E. Keefe by the property owners and Mr. Donald Grant third Arbitrator. The award amounted to

	\$13,237.39
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The remaining expenses to date are:—

Arbitrators and clerical expenses.....	1,251.20
Registrar of Deeds.....	205.00
Legal expenses.....	380.00
Labor, &c.....	30.40
Advertising.....	38.11
	\$15,142.10

The cost of this work is about double the amount of the former appraisalment. No work has been done on the street, and all money borrowed has been expended.

A piece of land was purchased from J. E. Roy on the South side of West Young Street with a view to the future extension of Agricola Street.

A pole and wire ordinance was adopted, under which many old poles will be removed and the dangerous crossing of telegraph and telephone wires with electric light and trolley wires reduced to a minimum.

The heavy rains in September played sad havoc with the streets, and left them in a far worse condition than they were at the beginning of the season. All dangerous places were repaired at once, but the work yet to be done is much heavier than usual in consequence of the washouts caused by the extraordinary down-pour during the Fall.

CITY PROPERTY.

A board fence was erected around the yard on Bell Road, which has made a decided improvement in the appearance of the premises. The railing, bandstand and flagstaff at the Parade were painted and the interior of the City Hall was painted throughout.

The stables at the Exhibition Grounds, containing four horses owned by this department, with harness, &c., were destroyed by fire. The loss was covered by insurance.

A small piece of land adjoining the property of Capt. T. Douglas on Inglis Street was sold during the year.

CITADEL PROMENADE.

A belt of land 15 yards wide outside the counterscarp of the Citadel was leased from the War Department for twenty-five cents a year. A copy of the lease is appended.

A light wire fence was erected on both sides, and a gravelled foot path six feet wide constructed. Two dozen seats similar to those used in the public gardens were placed along the walk, and the promenade became a popular resort during the season. This walk affords a better view of the city and harbor than can be obtained from any other point except the ramparts of the Citadel, and an effort was made to obtain permission from the War Department to make the walk wide enough for carriages, but without success.

STREET RAILWAY.

Tracklaying was pushed during the first months of the year and the main line completed from Spring Garden Road to Roome Street. A turnout was put in at Salter Street, one between Sackville Street and Prince Street, one between George Street and Duke Street, one between Gerrish Street and Artz Lane one opposite the I. C. R. Station, one north of Young Street, and a half turnout at Roome Street. Double track was laid between Morris Street and Spring Garden Road and Buckingham Street and Cornwallis Street.

The branch line was laid in Hollis, George, Granville, Buckingham, Grafton, Jacob, Brunswick, Cogswell, Gottingen, Cunard (to Windsor Street) Agricola and Almon Street. Turnouts were laid at the Post Office, Duke Street and Cornwallis Street. The track was laid in Spring Garden Road and Coburg Road to Walnut Street. A turnout was laid at Tower Road. The Pleasant Street line was extended to the South to the Yacht Squadron property. The total length of line laid is—tee rail track 30,000 feet, girder rail track 12,000 feet, special work 6612 feet, of which 483 feet is in the car house.

THE PEOPLE'S HEAT AND LIGHT COMPANY

continued their operations during the season, and have not completed their pipe laying.

GENERAL.

The record of the third year of the City Works Department (the second under the supervision of His Worship Mayor McPherson) compares favorably with that of the first and second year.

The average cost per foot of sewers was 11 cents less than in 1895. Stone pavement cost 22 cents per yard less than similar work done in 1892. Curb setting, which formerly cost from 80 cents to \$1.10 per foot, and was lowered in 1894 to 57 cents, was reduced by Foreman James Downey in one instance during 1896 to 34 cents per foot.

There is a great difference in Foremen and the number who can be relied on for cheap work is limited. We are expected to employ men, simply because they are citizens of Halifax, whom no contractor in the City would have on his work. Such a system is useless and extravagant, if the taxpayer is to get one hundred

cents value for every dollar expended. The very men who complain that such men are not employed are the first to complain that there is nothing to show for the expenditure. The Works Department is not a Charity Board, and must be run on business principles. Good men can be obtained in Halifax, and we should be permitted to select the best. The results during the last three years show what can be done by good men, and the standard set up should be maintained. The accounts of the Clerk of Works tell the story more forcibly than it can be expressed here. Reference to his report will show that there was no over expenditure in any service which the Department had the power to control, and for the first time in years there was no borrowing bill sent to the Legislature, either to pay old accounts, or for new work.

In conclusion, my sincere thanks are due to His Worship Mayor McPherson for his practical assistance in the performance of my official duties and his generous interest in the work of the Department.

I have the honor to be, Sir,

Your obedient servant,

F. W. W. DOANE,
City Engineer.

REPORT OF THE FOREMAN OF THE WATER DEPARTMENT.

F. W. W. DOANE, ESQ.,
City Engineer.

May 1, 1897.

SIR:—According to your instructions I have prepared a schedule of stock belonging to the Water Department, also the number of feet of main and service pipes laid, and length of main pipes recleaned, also location of houses supplied with water during the season of 1896, and Spring of 1897.

All of which is respectfully submitted,

E. MORRISON,
Foreman Water Department.

Pipes Cleaned by Mechanical Scrapers during the Season of 1896.

DATE.	Time occupied.	LOCATION OF PIPE.	Diameter of Pipe in inches.	Length cleaned in feet	COST.
Oct. 28.	0 H. 39 M.	Low Service Main.....	24	13400	\$11 67
“ 29.	0 H. 27 M.	High Service Main.....	20	6712	9 00
“ 29.	1 H. 44 M.	“ “ “	15	29628	10 14

NEW MAINS, 1896-7.

STREETS			CAST IRON MAIN PIPE.					HYD'NTS			COST PER FOOT IN CENTS.						Total Cost.						
IN	FROM	TO	High or Low Service.	3 inch Pipe—feet.	4 inch Pipe—feet.	6 inch Pipe—feet.	9 inch Pipe—feet.	12 inch Pipe—feet.	Joints.	Number of Valves.	Length of Pipe—feet.	Size of Pipe—inches.	Number.	Number of Valves.	Percentage of Rock.	Pipes and Specials.		Valves and Hydrants.	Labor and Cartage.	Lead, Gasket, Etc.	Dynamite and Fuse.	Incidentals.	Total Cost per Foot.
Edward	Coburg Road	270 feet North	H	270					T & B	1				75	71.6	9.0	78.0	0.9	8.0			167.5	\$ 452.30
*Windsor	Quinpool Road	N. Chebucto rd	H			1743			"	2				50	115.2	3.4	66.2	0.7	1.4			186.9	3260.11
Needham	North end pipe	27 feet North	H	27					"					70.0			45.1	3.0				118.1	31.89
North	Kings Place	520 feet West	L		520				"	112	6	1	1	10	73.4	22.0	59.3	0.6				155.3	808.07
*Hollis	Bishop	South	L	1147					"	1				35.5	1.75	31.88	1.05					70.1	803.88
†Charles	Maynard	End of pipe	H	118					"	1				100	37.6	17.0	106.7	1.8	10.4			173.5	204.70
†Rhuland	South Park	do do	L	135					"	1				43.1	1.8	34.7	1.1					70.7	95.53
*Tower Road	Ingles	Miller	L			3950			"	212	6	2	2		98.6	8.6	7.7	0.7				115.6	3526.60
Roome	Campbell Road	North Starr	L		452				"	110	6	1	1		72.6	25.3	36.8	0.5	0.9			136.1	615.36
Ross	do do	135 feet West	L	135					"	1				44.0	14.8	41.6	1.3	1.0				102.7	138.67
Gottingen	Young	Duffus	L			1960	647		{ 12" H & S 9" T & B }	2	40	3	3	40	113.7	13.5	75.9	1.1	5.1			209.2	5453.88
Miller	Tower Road	Franklyn	L		570				"	1				53.8	4.2	4.3	0.6					62.9	358.51
Franklyn	Miller	Bower Road	L		1281				"	1	24	6	2	2	85.0	57.3	16.0	4.0	0.5			113.8	1457.97
†Woodill	Maynard	End of pipe	L	129					"	1				85.0	45.5	15.5	104.1	2.0	6.9			174.0	224.54
Smith's Court	Lockman	170 feet West	H	170					H & S T & B	1				80	33.88	8.8	100.3	1.4				144.3	245.44
†North	Agricola	west to end pipe	H		137				"	1				100	74.6	18.3	142.7	3.5	9.3			248.4	345.65
Linden	Louisburg	230 feet West	H	230					"	1				20	42.7	2.3	39.1	1.0				85.1	73.21
†Harris	Agricola	end pipe	H	86					"	1				75	43.2	8.7	42.0		0.7			92.6	213.05
†Bilby	do	west to do do	H	260					"	1				10	42.2		32.2	0.6				75.0	195.00
†Bloomfield	Gottingen	do do	H		219				"	1				10	72.1	11.0	69.3	1.2	1.9			155.5	340.76
*Campbell R'd	N. of Round	H	L			3390			"	3	35	6	3	3	20	100.8	11.6	74.7	0.5	3.1		190.7	6464.52
†Edward	Morris	S. to end pipe	H		352				"	1					70.0	7.1	27.8		0.5			106.9	376.18
Wright's Court	Letson's Lane	196 feet West	L	196					"	1					96.1	10.2	26.6	0.8				133.7	262.06
Sullivan	Gottingen	583 feet West	L		583				"	1					62.0	4.1	20.6	0.3				87.0	507.93

* Part of this work was replacing old pipe. See next table.

† Dead end connected.

Street Mains replaced with larger pipe in 1896.

STREET.	FROM.	To.	Size in Inches		LENGTH IN FEET.
			Old pipe	New pipe	
Hollis	South	Morris	3	4	690
Windsor	Welsford	N. end of pipe.	6	9	1220
Campbell Road.	Reservoir	9 inch main	6	9	1130
Tower Road	Inglis	Gorsebrook	6	9	460

Street Mains Renewed, 1896.

STREET.	FROM.	To.	Size in Inches.	Length in feet.
Hollis	Morris	Bishop	4	457

New Service Pipes, 1896.

$\frac{1}{2}$ inch—feet.	$\frac{3}{4}$ inch—feet.	1 inch—feet.	$1\frac{1}{4}$ inch,—feet	Total feet.
8579	157	135	60	8931

House Services Renewed, 1896.

$\frac{1}{2}$ inch—feet.	$\frac{3}{4}$ inch—feet.	1 inch—feet.	$1\frac{1}{4}$ inch—feet.	Total feet.
973	88			1061

NEW HYDRANTS, 1996.

STREET.	LOCATION.	Kind.	Service	Size of pipe—		No. of Nozzles.	Distance Valve		Pressure—lbs.
				inches	Length of pipe—feet		from Hydrant		
Wellington	opp Lundy Lane	City.	Low.	6	19	3	FT	IN	31
Tower Road	opposite No 48	"	Low.	6	9	3	4	3	12
do	Corner Miller St.	"	Low.	6	3	3	2	0	5
Gottingen	" Duffus	"	High.	6	10	3	10	0	5
do	" Kenny	"	High.	6	10	3	6	8	14
Franklyn	630 ft N. of Miller	"	Low.	6	13	3	7	0	19
do	Corner Bower Road	"	Low.	6	11	3	8	4	20
Gottingen	" Livingston St.	"	High.	6	20	3	3	3	7
Roome	" Albert Street	"	Low.	6	10	3	6	7	11
Campbell Road	opposite Duffus Street.	"	Low.	6	12	3	9	4	25
do	" No. 285	"	Low.	6	14	3	9	0	30
do	" " 351	"	Low.	6	9	3	5	0	29
North	Corner Clifton street	"	High.	6	12	3	6	10	9

OLD HYDRANTS RENEWED, 1896.

STREET.	LOCATION.
Upper Water	119 ft S. of Grays Lane
"	527 " "
Lorne Terrace	Corner North
Jacob	Corner Poplar Grove
Brunswick	Opposite Methodist Church
"	near St. Patrick's Church
"	338 feet S of Gerrish Street
"	between Artz Lane and Gerrish Street
Salter	Corner Pleasant Street
Lockman	395 feet N. of Cornwallis Street
"	116 feet S. of Grays Lane
"	between Gerrish Street and Artz Lane
George	Corner Hollis Street

PIPE STOCK ON HAND, APRIL 30th. 1897.

No of Pieces.	Diameter in inches	Weight of one in lbs.	Total weight in lbs.	Value per lb in cents.	Total Value.	REMARKS.
1	27	3658	3658	13	\$ 64 01	T. & B., 12 ft.
2	24	5110	5110	13	89 42	T. & B., 12 ft.
4	24	....	9698	13	169 72	T. & B., 11 ft.
1	27	2651	2651	24	59 65	.....
1	20	1263	1263	24	28 42	.....
10	15	1200	12000	24	270 00	.....
3	12	680	2040	24	45 90	.....
13	10	550	7150	24	160 88	.....
86	9	500	43000	24	967 50	.....
82	8	386	31652	24	712 17	.....
515	6	280	144200	24	3244 50	.....
21	5	222	4662	24	104 90	.....
157	4	156	24492	24	551 07	.....
14	3	130	1820	24	40 95	.....
236	1½	26	6136	24	138 06	Stand Pipes
90		12	1080	24	24 30	Plates
90		6	540	24	12 15	Caps
106		2	212	24	4 77	Thimbles
1432			301364		\$6688 37	

SPECIALS AND MISCELLANEOUS.

No. of Pieces.	Diameter in inches.	Description.	Weight of one in pounds.	Total Weight, pounds.	Value per lb. in cents.	Total Value.
2	27	Bell Mouth.....	831	1662	2½	\$ 37 39
2	27	Plain thimbles.....	624	1248	"	28 08
3	27	Saddles 27" x 6".....	81	243	"	5 47
13	27	Bevel Collars.....	795	10335	3	310 05
1	27	Plain specials 2 ft. long, class A.....	404	404	1½	7 07
1	27	" " 2 " " " B.....	460	460	"	8 05
1	27	" " 3 " " " ".....	700	700	"	12 25
1	27	" " 4 " " " ".....	920	920	"	16 10
1	27	" " 5 " " " ".....	1248	1248	"	21 84
2	27	" " 5 " " " ".....	1144	2288	"	40 04
1	27	" " 6 " " " ".....	1360	1360	"	23 80
1	27	" " 6 " " " ".....	1472	1472	"	25 76
1	27	" " 3 " " " C.....	820	820	"	14 35
1	27	" " 3 " " " ".....	930	930	"	16 27
1	27	" " 4 " " " ".....	1068	1068	"	18 69
1	27	" " 5 " " " ".....	1332	1332	"	23 31
1	24	Bevel Collars.....	688	688	3	20 64
12	24	Thimbles.....	396	4752	2½	106 92
1	24	Cap.....	290	290	"	6 52
6	24	Split Thimbles.....	620	3720	2½	93 00
4	20	Thimbles.....	230	920	2½	20 70
1	20	Split Thimbles.....	453	453	2½	11 32
3	15	4 Way Branches.....	896	2688	2½	60 48
3	15	4 " " 15" x 6".....	660	1980	"	44 55
1	15	3 " " ".....	812	812	"	18 27
5	15	Y's.....	1012	2024	"	45 54
5	15	Thimbles.....	234	1170	"	26 32
1	15	Reducer to 6".....	400	400	"	9 00
1	15	Saddle 15" x 6".....	122	122	"	2 74
9	15	Split Thimbles.....	260	2340	2½	58 50
4	15	Gun Metal Screws.....	28	112	.60	67 20
3	12	Four way branches.....	615	1845	02½	41 51
4	12	" " " 12" x 9".....	500	2000	2½	45 00
4	12	" " " 12" x 6".....	475	1900	"	42 75
2	12	Three " " 12" x 12".....	524	1048	"	23 58
3	12	" " " 12" x 9".....	494	1482	"	33 34
2	12	" " " 12" x 6".....	469	938	"	21 10
2	12	Reducer to 9".....	240	480	"	10 80
7	12	" " 6".....	200	1400	"	31 50
2	12	" Faucet 6".....	200	400	"	9 00
3	12	Thimbles.....	160	480	"	10 80
4	12	Caps.....	45	180	"	4 05
1	12	Saddle 12" x 3".....	86	86	"	1 93

Specials and Miscellaneous.—(Continued.)

No. of Pieces.	Diameter in inches.	Description.	Weight of one in pounds.	Total Weight, pounds.	Value per lb. in cents.	Total Value
13	12	Split Thimbles.....	222	2886	2½	72 15
2	12	Gun Metal Screws.....	19	38	.60	22 80
2	9	Four way branches 9" x 9" x 6".....	450	900	2¼	20 25
3	9	Three " " 9" x 6".....	306	918	"	20 65
1	9	" " " 9" x 4".....	250	250	"	5 62
10	9	Reducers to 6".....	157	1570	"	35 32
3	9	Offsets.....	156	468	"	10 53
4	9	Thimbles.....	112	448	"	10 08
5	9	Caps.....	34	170	"	3 82
1	9	Saddle 9" x 4".....	45	45	"	1 01
1	9	" 9" x 3".....	40	40	"	90
22	9	Split Thimbles.....	139	3058	2½	76 45
6	9	Gun metal screws.....	14	84	.60	50 40
4	6	Four way branch.....	255	1020	2¼	22 95
6	6	Three " " ".....	209	1254	"	28 21
4	6	" " " 6" x 4".....	200	800	"	18 00
2	6	Y's.....	250	500	"	11 25
1	6	Four way branches 6" x 3".....	200	200	"	4 50
5	6	Reducers to 4" with faucet.....	124	620	"	13 95
1	6	" " " without ".....	114	114	"	2 56
2	8	" " 3" with ".....	114	228	"	5 13
1	6	" " " without ".....	105	105	"	2 36
2	6	Offsets.....	140	280	"	6 30
24	6	Thimbles.....	75	1800	"	40 50
12	6	Caps.....	19	228	"	5 13
15	6	Bends.....	140	2100	"	47 25
14	6	Split thimbles.....	92	1288	2½	32 20
2	6	Gun metal screws.....	9	18	60	10 80
21	5	(For stopcocks).....	15	315	2¼	7 09
22	4	Four way branches.....	123	2706	"	60 88
3	4	Three " ".....	114	342	"	7 69
2	4	Y's.....	96	192	"	4 32
2	4	Reducers with faucets.....	95	190	"	4 27
3	4	" without ".....	84	252	"	5 67
5	4	Offsets.....	66	330	"	7 42
8	4	Thimbles.....	29	232	"	5 22
3	4	Bends.....	88	264	"	5 94
7	4	Split thimbles.....	64	448	2½	11 20
1	4	Gun metal screw.....	6	6	60	3 60
7	3	Three way branches.....	60	420	2¼	10 50
8	3	Thimbles.....	36	288	"	7 20
5	3	Crosses.....	90	450	"	10 25
2	3	Four way branches.....	100	200	"	5 00

Special and Miscellaneous.—(Continued.)

No. of Pieces.	Diameter in inches.	Description.	Weight of one in pounds.	Total Weight, pounds.	Value per lb. in cents.	Total Value.
9	3	Split thimbles	48	432	2 $\frac{1}{2}$	10 80
1	3	Gun metal screws	5	5	60	3 00
7	2	Four way branches	30	210	2 $\frac{1}{2}$	5 25
3	2	Angle branches	23	69	"	1 72
16		Castings for fire hydrants	418	6688	3	200 64
26		Jackets " "	340	8840	3	265 20
12		Brass nozzles " "	2 $\frac{1}{2}$	30	.60	18 00
15		Cast iron caps " "	10	150	3	4 50
16		Split collars " "	61	976	2 $\frac{1}{2}$	24 40
3		Plain " "	81	243	"	6 07
9		Extension pieces for "	124	1116	"	27 90
1		Brass nozzle for suction hose	9	9	.60	5 40
		Brass castings all sorts		150	.35	52 50
		Tin tubing		350	.33	115 50
		Refined iron different sizes		500	1.67 $\frac{1}{2}$	8 37

JOINT STAVES.

NUMBER OF PIECES.							VALUE.	
For 6 inch pipe.	For 9 inch pipe.	For 12 inch pipe.	For 15 inch pipe.	For 20 inch pipe.	For 24 inch pipes.	Keys.	EACH.	TOTAL.
1000	4000	4000	2000	600	4000	4000	\$0 01 $\frac{1}{4}$ 0 00 $\frac{1}{4}$	\$195 00 10 00

VALVES.

Number.	Size Inches.	Description.	Value of each.	Total Value.
1	12	Regulating Valve.....		\$206 66
1	6	“ “.....		103 33
4	15	Stop Valves.....	\$60 00	240 00
2	12	“.....	40 00	80 00
1	9	“.....		25 00
2	6	“.....	15 00	30 00
2	4	“.....	15 00	30 00
5	3	“.....	12 00	60 00
3	1	Service Cocks.....	2 50	7 50
6	$\frac{3}{4}$	“.....	2 00	12 00
60	$\frac{1}{2}$	“.....	1 50	90 00
				\$884 49

METERS.

Number.	Size Inches.	DESCRIPTION.	Value of Each	Total Value.
9	6	Siemen's (in stock).....	\$143 43	\$ 1290 87
1	4	" "	86 75	86 75
7	3	" "	65 67	459 69
4	2	" "	44 65	178 60
9	1 $\frac{3}{4}$	" "	34 42	309 78
7	1	" "	21 50	150 50
11	$\frac{3}{4}$	" "	15 50	170 50
75	$\frac{3}{4}$	" "	14 50	1087 50
1	1	Crown.....	49 25	49 25
1	$\frac{3}{4}$	"	37 92	37 92
1	$\frac{3}{4}$	"	26 25	26 25
1	$\frac{3}{4}$	Hersey	15 87	15 87
2	6	Siemen's (in use).....	143 43	286 86
13	4	" "	86 75	1127 75
16	3	" "	65 67	1050 72
6	2	" "	44 65	267 90
2	1 $\frac{1}{4}$	" "	29 16	58 32
11	1	" "	21 50	236 50
38	$\frac{3}{4}$	" "	15 50	589 00
93	$\frac{3}{4}$	" "	14 50	1348 50
1	1	Crown	49 25	49 25
3	$\frac{3}{4}$	" "	37 92	113 76
2	$\frac{3}{4}$	" "	26 25	52 50
1	$\frac{3}{4}$	Frost.....	31 42	31 42
1	$\frac{3}{4}$	Hersey Disk.....	10 77	10 77

MISCELLANEOUS.

NUMBER.	DESCRIPTION.	VALUE OF EACH.	TOTAL VALUE.
5	Pressure Gauges	\$ 10.00	\$ 50.00
8	Fire Hydrants with jacket	65.50	524.00
4	“ “ without	50.00	200.00
3	“ “ old style 2½	13.00	39.00
1	Pipe tapping machine	127.60	127.60
1	4 H. P. Gas Engine	475.50	475.50
1	5 H. P. Steam Engine and pump	625.00	625.00
3	Derrick Winches	7.00	21.00
2	Hand Winches	8.00	16.00
2	Platform Scales	25.00	50.00
3	Lathes		200.00
	Blacksmith Tools		100.00
	Tape Packing for Meters		93.20
			\$2521.10

RECAPITULATION.

DESCRIPTION.	VALUE.
Pipes	\$ 6688.37
Specials and Miscellaneous	2962.15
Joint Staves, 19600	205.00
Valves, 87	884.49
Meters, 315	9086.73
Miscellaneous	2521.10
	\$ 22347.84

Free Domestic Supply Hydrants, 1896.

STREET.	LOCATION.
Gottingen.....	N. E. Corner Kaye Street.....
Windsor.....	N. W. " Duncan Street.....
Preston.....	S. W. " Quinpool Road.....
".....	West end Cedar Street.....
Louisburg.....	Corner Linden Street.....
Bland.....	S. E. Corner Inglis Street.....
Bilby.....	N. W. " Agricola Street.....

Rented Hydrants 1896.

STREET.	LOCATION.
Windsor.....	N. E. Corner Charles Street.....
Cedar.....	N. E. " Louisburg Street.....
Wellington.....	S. W. " Lundy Lane.....
Windsor.....	S. E. " William Street.....
Louisburg.....	N. W. " Shirley ".....

Free Pumps maintained by City 1896.

No.	LOCATION.
1	Leahyville.....
1	Lady Hammond Road.....
1	Kempt Road.....
1	Duffus Street.....
1	Acadia Street.....
1	Roome Street.....
4	Campbell Road.....
1	Oak Street.....

Hydraulic Hoists in operation 1896.

NAME.	Business.	Size of Service.	How rated.
Kenny & Co.	Dry Goods	4 inch	Meter.
Murdock's Nephews.....	"	4 "	"
Little & Kline.....	"	4 "	"
Metropole.....	Offices.....	6 "	"
Bauld, Gibson & Co.....	Groceries.	4 "	"
Post Office.....	Post Office	3 "	"
Appraisers Office.....	Warehouse	3 "	"
G. M. Smith & Co.....	Dry Goods	4 "	"
Smith Bros.....	"	3 "	"
Wm. Stairs Son & Morrow.....	Hardware	4 "	"
Motors.			
Woodbury Bros.....	Dentists.	1½ "	"
St. Luke's Church.....	Organ.	3 "	"
Brunswick St. " (Methodist).	"	2 "	Indicator.

SERVICE PIPES LAID, 1896.

Number	Name of Owner or Agent.	Location of Premises	No. of Stopcock.	Size of Pipe.	Purpose for which water is used.
1	Mary A. Johnston.....	W. side Edward.....	5665	$\frac{1}{2}$	Dwelling
2	Fred T. DeWolfe.....	" "	5666	"	do
3	"	" "	5667	"	do
4	"	" "	5668	"	do
5	J. M. Creighton.....	W. side Robie.....	5669	"	do
6	Loura S. Bowden.....	" "	5670	"	do
7	H. L. Wallace.....	E. side Gottingen.....	5671	"	Shop and dwelling
8	"	E. side "	5672	"	Dwelling
9	"	" "	5673	"	do
10	Jessie Mackintosh.....	S. side Morris.....	5674	"	do
11	"	" "	5675	"	do
12	Isaac Hiltz.....	E. side Union.....	5676	"	do
13	Geo Pickles.....	W. side Wellington.....	5677	"	do
14	Philip Chaddock.....	" "	5678	"	do
15	P. L. Purcell.....	" "	5679	"	do
16	"	" "	5680	"	do
17	City of Halifax.....	N. side West.....	5681	$\frac{3}{4}$	Engine House
18	T. A. Covey.....	W. side Brunswick.....	5682	$\frac{1}{2}$	Dwelling
19	H. R. Silver.....	W. side Gottingen.....	5683	"	do
20	Robert Storey.....	W. side Wellington.....	5684	"	do
21	Jane Parret.....	" "	5685	"	do
22	Philip Chaddock.....	E. " "	5686	"	do
23	W. J. Chaddock.....	" "	5687	"	do
24	Selina McLeod.....	" "	5688	"	do
25	Thomas Crockett.....	W. side Windsor.....	5689	"	do
26	James Burbidge.....	" "	5690	"	do
27	W. J. Delaney.....	" "	5691	"	do
28	Jessie C. Smith.....	N. side Inglis.....	5692	"	do
29	Freeman H Gaetz.....	E. side John.....	5693	"	do
30	Edward Hartnet.....	E. side Windsor.....	5694	"	do
31	Saul Mosher.....	W. side Lorne Terrace.....	5695	"	do
32	William Caldwell.....	N. side Jubilee road.....	5696	"	do
33	Iohu Williams.....	E. side North Starr.....	5697	"	do
34	H McD. Henry.....	S. Side Victoria road.....	5698	"	Dwelling and Barn
35	Admiralty.....	E. side Gottingen.....	5699	"	Field
36	Henry Bayers.....	E. side Needham.....	5700	"	Dwelling
37	Sarah J. Overy.....	S. side Kaye.....	5701	"	Dwelling and shop
38	Sam Grant.....	W. side Windsor.....	5702	"	Dwelling
39	E. J. Gilfoy.....	S. side West Yonng.....	5703	"	do
40	R. Campbell.....	" "	5704	"	do
41	Lachlan McDonald.....	" "	5705	"	do
42	Dominick Quinn.....	" "	5706	"	do
43	Charles A. Baker.....	S. side Quinpool road.....	5707	"	do
44	Clermout Hand.....	W. side Chestnut.....	5708	"	do
45	Bridget Hayes.....	S. side Morris.....	5709	"	do
46	John Chaddock.....	E. side Wellington.....	5710	"	do

Service Pipes Laid, (Continued).

	Name of Owner or Agent.	Location of Premises.	No. of Stopcock. Size of Pipe.	Purpose for which water is used.
47	Alex Chaddock	S. side Wellington	5711 ½	Dwelling
48	J. W. Power	S. side North	5712 "	do
49	Richard Smeardon	" "	5713 "	do
50	W. J. Curley	" "	5714 "	do
51	Caroline Tilman	N. " "	5715 "	do
52	"	" "	5716 "	do
53	"	" "	5717 "	do
54	David Appleby	S. " "	5718 "	do
55	William Lockyer	" "	5719 "	do
56	Alex Joseph	N. " "	5720 ..	do
57	John McEachern	N. side Richmond	5721 ..	do
58	Maria Hamilton	W. side Robie	5722 ..	do
59	W. H. Fulton	N. side Coburg road	5723 ..	do
60	Ed Gibson	E. side Vernon	6724 ..	do
61	J. L. Donnelly	E. side Belle Air Terrace	5725 ..	do
62	Cemetery Committee	E. end Carlton	5726 ..	Cemetery
63	Saul Bonnell	N. side Allan	5727 ..	Dwelling
64	Peter Walker	E. side Belle Air Terrace	5728 ..	do
65	Vail Bros	N. side Buckingham	5729 1	Laundry
66	George Wright	S. side Morris	5730 ½	Dwelling
67	"	" "	5731 ..	do
68	Edward Clawson	S. side Bloomfield	5732 ..	do
69	Edward Goudge	S. side Edinburg	5733 ..	do
70	Alex Smith	E. side Edward	5734 ..	do
71	Mrs. Sarah Ward	S. side Maera	5735 ..	do
72	Margaret Keefe	N. side Allan	5736 ..	do
73	J. A. Leaman	S. side South	5737 ..	do
74	George Wright	E. side South Park	5738 ..	do
75	" "	" " "	5739 ..	do
76	" "	S. side Morris	5740 ..	do
77	C. A. Hawkins	E. side Windsor	5741 ..	do
78	George Stanhope	W. side Tower road	5742 ..	do
79	"	" "	5743 ..	do
80	J. Crump	" "	5744 ..	do
81	Thomas Power	" "	5745 ..	do
82	James McDonald	S. side Bloomfield	5746 ..	do
83	School Commissioners	W. side Creighton	5747 1	Latrines
84	James Barrowman	N. side Woodill	5748 ½	Dwelling
85	Janet F. Reilly	W. side Tower road	5749 ..	do
86	George Stanhope	" "	5750 ..	do
87	Mrs. Delaney	" "	5751 ..	do
88	John Trider	W. side Pleasant	5752 ..	do
89	William McC Boak	W. side Edward	5753 ..	do
90	Graham Creighton	W. side Gottingen	5754 ..	do
91	Grove Church Manse	E. " "	5755 ..	do
92	Andrew Hubley	N. side Allan	5756 ..	do

Service Pipes Laid, (Continued).

	Name of Owner or Agent	Location of Premises.	No. of Stopcock.	Size of Pipe.	Purpose for which water is used.
93	Andrew Hubley	N. side Allan	5757	1/2	Dwelling
94	Jaut J. Ring	W. side Tower road	5758	..	do
95	P. J. McManus	S. side Fenwick	5759	..	do
96	R. E. Gannon	N. side Uniacke	5760	..	Barn and Stable
97	M. Morrison	S. side Linden	5761	..	Dwelling
98	William Robinson	N. side Linden	5762	..	do
99	James Kelly	" "	5763	..	do
100	Thomas Smith	" "	5764	..	do
101	John Jefferson	N. side Miller	5765	..	do
102	Robert Creer	W. side Gottingen	5766	..	Dwelling and shop
103	Harriet Phelan	" "	5767	..	Dwelling
104	Maggie Andrews	" "	5768	..	Dwelling and shop
105	Andrew Hubley	N. side Allan	5769	..	Dwelling
106	" "	" "	5770	..	do
107	George Harvey	W. side Gottingen	5771	..	do
108	S. J. Harivel	E. side Agricola	5772	..	do
109	M. Shannahan	S. side Macara	5773	..	do
110	" "	" "	5774	..	do
111	" "	" "	5775	..	do
112	Blind Asylum	W. side South Park	5776	1 1/2	School
113	W. E. Crowe	W. side Robie	5777	1/2	Dwelling
114	W. T. Francis	" "	5778	..	do
115	H. Mc C. Hart	W. Side Summer	5779	..	do
116	" "	" "	5780	..	do
117	Lewis Steele	E. side Campbell road	5781	..	do
118	Peter Pendergrast	" "	5782	..	do
119	George A. Currie	" "	5783	..	do
120	Sarah Appleton	" "	5784	..	do
121	Mary A. Brown	" "	5785	..	do
122	" "	" "	5786	..	do
123	Richard Shea	" "	5787	..	do
124	John O'Sullivan	" "	5788	..	do
125	Mary McInnis	" "	5789	..	do
126	John Appleton	" "	5790	..	do
127	Ann McAlpin	W. " "	5791	..	do
128	Ellen Cleland	" "	5792	..	do
129	Margaret McLellan	E. " "	5793	..	do
130	James Stockall	W. " "	5794	..	do
131	James Heffler	E. " "	5795	..	do
132	Dominion Government	W. " "	5796	..	do
133	W. H. Jones	E. " "	5797	..	do
134	James McGill	W. " "	5798	..	do
135	John Flinn	E. " "	5799	..	do
136	" "	" "	5800	..	do
137	" "	" "	5801	..	do
138	" "	" "	5802	..	do

Service Pipes Laid, (Continued).

Name of Owner or Agent.	Location of Premises.	No. of Stopcock.	Size of Pipe.	Purpose for which water is used.
139 Fred Carten	W. side Campbell road ..	5803	1/2	Dwelling
140 Isaac Creighton	" " "	5804	..	do
141 "	N. side Roome	5805	..	do
142 "	" " "	5806	..	do
143 Simon H. Mowatt	" " "	5807	..	Dwelling and shop
144 "	" " "	5808	..	Dwelling
145 Isaac Creighton	" " "	5809	..	do
146 Simon H. Mowatt	" " "	5810	..	do
147 John C. Gaston	" " "	5811	..	do
148 James Leitch	" " "	5812	..	do
149 George Wright	E. side Edward	5813	..	do
150 "	" " "	5814	..	do
151 Mary Munroe	N. side Ross	5815	..	do
152 Thomas Flinn	" " "	5816	..	do
153 George Cameron	E. side Campbell road	5817	..	do
154 William Kennedy	N. side Bilby	5818	..	do
155 John Butler	" " "	5819	..	do
156 L. H. Stevens	" " "	5820	..	do
157 "	" " "	5821	..	do
158 Charles W. Tanner	S. " " "	5822	..	do
159 Andy Sullivan	E. side Belle Air Terrace ..	5823	..	do
160 Philip Boyle	" " " "	5824	..	do
161 James Foley	N. side Willow	5825	..	do
162 Richard King	N. side North	5826	..	do
163 "	" " "	5827	..	do
164 "	" " "	5828	..	do
165 "	" " "	5829	..	do
166 W. K. Thomson	N. side Miller	5830	..	do
167 Wm. Purcell	" " "	5831	..	do
168 James Hutt	N. side Quinpool road	5832	..	do
169 Robert Urquhart	N. side Spring Garden road ..	5833	..	do
170 Emily McKay	W. side Vieth	5834	..	do
171 James Butler	N. side Gerrish	5835	..	do
172 W. K. Thomson	W. side Tower road	5836	..	do
173 Arabella Brady	W. side Kempt road	5837	..	do
174 A. S. Power	S. side Morris	5838	..	do
175 Robert Urquhart	E. side Birmingham	5839	..	do
176 Dr. Smith	W. side Robie	5840	..	do
177 Freeman Bros	W. side Carlton	5841	..	do
178 Mary Worrall	W. side Lorne Terrace	5842	..	do
179 "	" " "	5843	..	do
180 Henry Rhind	S. side Fenwick	5844	..	do
181 Bessie Beech	E. side Wellington	5845	..	do
182 Dennis Kennedy	N. side Bilby	5846	..	do
183 George E. Franklyn	E. side Franklyn	5847	..	do
184 W. K. Thomson	" " "	5848	..	do

Service Pipes Laid, (Continued).

	Name of Owner or Agent.	Location of Premises.	No. of Stopcock.	Size of Pipe	Purpose for which water is used.
185	W. H. Isnor	S. side Harris	5849	$\frac{1}{2}$ "	Dwelling & Office
186	Dr. Jacques	E. side Gottingen	5850	$\frac{1}{2}$ "	Dwelling
187	Mary Belcher	E. side Robie	5851	$\frac{1}{2}$ "	do
188	W. K. Thomson	W. side Franklyn	5852	$\frac{1}{2}$ "	do
189	"	S. side Miller	5853	$\frac{1}{2}$ "	do
190	Pine Hill College Property	W. side Franklyn	5854	$\frac{1}{2}$ "	do
191	"	"	5855	$\frac{1}{2}$ "	do
192	"	"	5856	$\frac{1}{2}$ "	do
193	Pine Hill College	"	5857	$\frac{3}{4}$ "	College
194	David McKean	N. side Bowery road	5858	$\frac{2}{3}$ "	Dwelling
195	W. H. Stevens	S. side South	5859	$\frac{1}{2}$ "	do
196	Stephen Cahill	W. side Pleasant	5860	$\frac{1}{2}$ "	do
197	Mary Moody	W. side Robie	5861	$\frac{1}{2}$ "	do
198	Freeman Bros	E. side Carlton	5862	$\frac{1}{2}$ "	do
199	"	"	5863	$\frac{1}{2}$ "	do
200	A. H. McCaughin	W. side Gottingen	5864	$\frac{1}{2}$ "	Dwelling and shop
201	E. McV Connell	W. side Lorne Terrace	5865	$\frac{1}{2}$ "	Dwelling
202	Gordon & Keith	E. side Barrington	5866	$\frac{1}{2}$ "	Stores
203	Richard King	S. side Bloomfield	5867	$\frac{1}{2}$ "	Dwelling
204	"	"	5868	$\frac{1}{2}$ "	do
205	"	"	5869	$\frac{1}{2}$ "	do
206	E. G. Smith	S. side Smith Lane	4870	$\frac{1}{2}$ "	do
207	"	N. "	5871	$\frac{1}{2}$ "	do
208	James Hillis & Son	W. side Campbell road	5872	$\frac{1}{2}$ "	Foundry
209	A. McDonald	E. side Edward	5873	$\frac{1}{2}$ "	Dwelling
210	George Wright	S. side Morris	5874	$\frac{1}{2}$ "	do
211	James H. Tracey	W. side Gottingen	5875	$\frac{1}{2}$ "	do
212	Frank Smeardon	W. side Kempt road	5876	$\frac{1}{2}$ "	do
213	Albert Gray	E. side Preston	5877	$\frac{1}{2}$ "	do
214	Caleb Tanner	N. side Russell	5878	$\frac{1}{2}$ "	do
215	"	"	5879	$\frac{1}{2}$ "	do
216	Thomas Byrnes	N. side Uniacke	5880	$\frac{1}{2}$ "	do
217	Sarah C. Ward	S. side Macara	5881	$\frac{1}{2}$ "	do
218	J. S. Hubley	S. side McCully	5882	$\frac{1}{2}$ "	do
219	Henry Busch	W. side Gottingen	5883	$\frac{1}{2}$ "	do
220	William McC Boak	E. side Edward	5884	$\frac{1}{2}$ "	do
221	"	"	5885	$\frac{1}{2}$ "	do
222	W. H. Cawsey	W. side Robie	5886	$\frac{1}{2}$ "	do
223	"	"	5887	$\frac{1}{2}$ "	do
224	Charles Kirby	S. side North	5888	$\frac{1}{2}$ "	do
225	"	"	5889	$\frac{1}{2}$ "	do
226	J. H. Conrod	W. side Edward	5890	$\frac{1}{2}$ "	Dwelling and shop
227	Samuel Brown	"	5891	$\frac{1}{2}$ "	Dwelling
228	D. J. Stevens	N. side Morris	5892	$\frac{1}{2}$ "	do
229	Susan Lewis	N. side Bloomfield	5893	$\frac{1}{2}$ "	Dwelling and shop
230	W. B. Freeman	W. side Windsor	5894	$\frac{3}{4}$ "	Dwelling

Service Pipes Laid, (Continued.)

Number	Name of Owner or Agent.	Location of Premises	No. of Stopcock.	Size of Pipe.	Purpose for which water is used.
231	Charles Williston.....	W. side Robie	5895	$\frac{1}{2}$	Stables
232	H. W. Hames.....	W. side Vernon	5896	.	do
233	George Weaver.....	S. side E tinbrg	5897	.	Dwelling
234	William H. McKinlay ...	E. side Windsor.....	5898	.	do
235	Robert Horton	W. side Robie	5899	.	do
236	W. B. Taylor	N. side Spring Garden road	5900	.	do
237	Fred T. De Wolf	W. side Robie	5901	.	do
238	George Wright	S. side Wright's Court....	5902	.	do
239	"	"	5903	.	do
240	"	"	5904	.	do
241	"	"	5905	.	do
242	"	"	5906	.	do
243	"	"	5907	.	do
244	"	"	5908	.	do
245	"	"	5909	.	do
246	"	"	5910	.	do
247	"	"	5911	.	do
248	E. J. Horne.....	E. side Agricola	5912	.	do
249	Robert Irwin.....	W. side Robie	5913	.	do
250	E. H. Roome.....	W. side Windsor	5914	.	do
251	E. G. Smith	N. side Smith's Lane.....	5915	.	do

Detailed Precipitation for the Year 1896.

Day.	LOWER CHAIN LAKE.											
	Jan.	Feb.	March,	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			.03							.15	.07	.04
2	.05	.55	.10	.21				.68		1.50	.09	
3		.30	.72	.45					.07			
4			.10						.04			.05
5			.18	.40	.17	.03	.86		1.24		.30	.42
6		1.10						.07	.95	1.18	.38	
7		.17	.58				1.14	.07		.09		
8									2.88	.15	.11	
9		.20				.63		.01	.65		.63	1.38
10	.76					.98			.12			
11			.98			.31			2.75		.58	
12			.65		.12	.08			.30			.04
13	.09	1.23					.20			2.25	.22	
14	.19	.04		.02		.28				.02		
15						.30	.20	.06		.18		
16	.05	.26	.50	.05				.20	2.15		.08	.83
17			.87		.23		.02	.12		.24		
18				.01					.85	4.55	.02	.05
19		.26	.69	.02	.28	.02		.07	.05	.50		.76
20		.52	.75				.29					
21					.12	.14	.23		.45	.28	.64	
22					.30		.96			.10		
23	.09	.10					.21	.11				
24							.18	1.50		1.58	.13	
25	.92						.41					
26	.20		1.49		.19	.41					.34	
27					.04		.65	.37				
28	.04			.05		.75			.03		.16	
29					1.22					.25	.04	
30			.60	.01			3.25	.03	2.15	.10	.19	
31			.18		.21					.13		
Total	2.39	4.68	8.40	1.22	2.88	3.93	8.60	3.29	14.68	13.25	3.98	3.57

Total for the year.....70.87 inches,

Detailed Precipitation for the year 1896.—Continued.

Day-	SPRUCE HILL LAKE.											
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	..	.30	..	..	..	.17	..	..	..	.27	.09	..
2	.06	.45	.27	.25	..	..	..	.85	..	1.35	.16	..
3	..	..	.80	.22	.11	..	..	..	..	..	..	..
4	..	..	.20	..	..	..	..	..	.13	..	..	.09
5	..	..	.25	.25	..	..	..	..	..	..	.20	.30
6	..	1.65	..	..	..	.04	1.14	..	1.00	1.57	.50	..
7	..	.10	.35	..	..	..	..	.15	.85	.13	..	..
8	..	..	..	..	..	..	.97	..	..	.20	.15	..
9	..	.28	..	..	..	..	..	..	2.00	..	.73	1.55
10	.70	..	..	..	.14	.75	..	..	.78	..	..	..
11	..	.65	.80	..	..	1.25	..	..	.19	..	.57	..
12	..	..	.41	..	..	.32	..	..	2.50	..	..	..
13	.12	.80	..	..	..	.13	..	..	.34	2.50	.20	..
14	.18	..	..	.03	..	..	.35	..	..	.13	..	..
15	..	.10	..	..	..	.38	..	..	..	.16	..	..
16	.06	.22	.30	.05	..	.40	.03	.35	..	..	.10	.55
17	..	..	1.00	..	.35	..	..	.12	1.65	.15	..	..
18	..	.11	..	.03	..	..	.03	..	..	4.00	.03	..
19	..	.20	.71	..	..	..	..	.15	1.00	.76	..	.85
20	..	.22	.46	..	.49	..	..	..	.12	..	..	..
21	..	..	..	..	..	.03	.92	..	..	.30	.40	..
22	.09	..	..	..	..	.10	1.00	..	.44	.06	..	..
23	..	.06	..	..	..	..	.30	..	..	..	..	..
24	..	..	..	..	..	..	..	1.09	..	1.40	.22	..
25	.84	..	..	..	..	..	.70	..	..	..	..	..
26	.37	..	1.52	..	..	..	..	..	..	..	.25	.06
27	..	..	..	..	.23	.63	.50	.48	..	..	..	..
28	..	..	..	.07	..	..	.35	..	..	..	..	..
29	..	..	.20	..	1.25	.76	..	..	..	.30	.21	..
30	..	..	.50	..	..	..	3.00	..	2.50	.15	.22	..
31	..	..	.12	..	..	..	..	..	..	..	..	..
Total ...	2.42	5.14	7.89	0.90	2.57	4.96	9.29	3.19	13.50	13.43	4.03	3.40

Total for the year70.72 inches.

Total Precipitation for the year 1896.

1896.	LOWER CHAIN LAKE.				SPRUCE HILL LAKE.				CITY OF HALIFAX.		
	Snow.	Melted Snow.	Rain.	Total.	Snow.	Melted Snow.	Rain.	Total.	Melted Snow.	Rain.	Total.
January	17½	2 20	0-19	2-39	17	1-99	0-43	2-42	1-460	0-260	1-720
February	19¾	3-22	1-46	4 68	23	2-81	2-33	5-14	2-347	1-852	4-199
March	10½	2-67	5-73	8-40	7½	1-17	6-72	7-89	1-548	7-238	8-786
April	5	0-85	0-37	1-22	5	0-47	0-43	0-90	0-305	1-108	1-413
May .....	.....	.....	2-88	2-88	.....	.....	2 57	2-57	.....	2-532	2-532
June .....	.....	.....	3-93	3-93	.....	.....	4-96	4-96	.....	4 671	4-671
July .....	.....	.....	8-60	8-60	.....	.....	9-29	9-29	.....	8-729	8-729
August .....	.....	.....	3-29	3 29	.....	.....	3-19	3-19	.....	3-037	3-037
September .....	.....	.....	14-68	14-68	.....	.....	13-50	13-50	.....	12-092	12 092
October .....	.....	.....	13-25	13-25	.....	.....	13-43	13-43	.....	15-039	15-039
November ..	9¼	1-18	2 80	3 98	7½	0 97	3-06	4-03	0-957	3 439	4-396
December ..	5½	0-87	2 70	3-57	5	0-61	2-79	3-40	0-630	2 618	3-248
Total	67½	10-99	59-88	70-87	65	8-02	62-70	70-72	7-247	62 615	69-862

Gallons discharged over Long Lake waste weir
during 1896.

Day.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1	5,807,185			10,665,474						2,053,123	2,053,123	256,678
2	2,053,123			5,807,185					30,173,986	30,173,986	725,898	
3	2,053,123			8,112,524					46,452,871	46,452,871	725,898	
4	725,898			10,665,474					38,025,069	38,025,069	256,678	
5				10,665,474					34,026,476	34,026,476		
6				13,441,414					22,953,449	22,953,449	2,053,123	
7				10,665,474					30,173,986	30,173,986	2,053,123	
8				5,807,185					30,173,986	30,173,986	2,053,123	
9				2,053,123					26,482,975	26,482,975	2,935,888	
10				725,898					16,424,984	16,424,984	8,112,524	14,010,137
11									10,665,474	10,665,474	8,112,524	10,665,474
12									5,807,185	5,807,185	14,010,137	8,112,524
13				22,953,449					55,434,189	2,053,123	16,424,984	3,771,748
14				26,482,975					69,852,322	55,434,189	9,365,931	2,935,888
15				16,424,984					38,025,069	46,452,871	5,807,185	725,898
16				10,665,474					16,424,984	34,026,476	2,053,123	256,678
17				13,441,414					10,665,474	22,953,449	2,053,123	
18				30,173,986					46,452,871	55,434,189	256,678	
19				30,173,986					38,025,069	173,340,000		
20				34,026,476					38,025,069	119,265,680		725,898
21				74,904,370					30,173,986	50,882,066		2,935,888
22				30,173,986					22,953,449	30,173,986		2,053,123
23				22,953,449					16,424,984	16,424,984		1,333,376
24				19,680,783					10,665,474	13,441,414		725,898
25				10,665,474					5,807,185	30,173,986		
26				5,807,185					2,053,123	38,025,069		
27				38,025,069					725,898	22,953,449		
28				46,452,871						16,424,984		
29				30,173,986						10,665,474		
30				19,424,984						8,112,524	725,898	
31				16,424,984						5,807,185		
Tls	10,639,329	495,949,894	78,609,225						412,374,620	1,045,458,665	80,678,961	49,409,208

Total for the year 2,173,119,902 gallons.