

"*Eighth*. Can the water at the Long and Chain Lakes be raised above its present level. To what extent, and at what cost? *Answer*: The water at the Long and Chain Lakes can be raised above the present level say three feet, at a cost of \$5800. If raised much higher the cost would be largely increased.

"*Ninth*. What height above its present level can the water at the Birch Cove Lakes be raised." *Answer*: Eight to ten feet is the greatest height that I could recommend.

In the appendix will be found a statement showing the length of pipe of all sizes at present laid in the City of Halifax for the supply and distribution of water; also a table of distances and levels; also a statement of the heights of water in Long Lake from July 31st, 1857, to March 8th, 1860, which may be found useful for reference.

Respectfully submitted,
JAMES LAURIE, C. E.

APPENDIX.

Statement of the length of pipe of all sizes at present laid for the supply of the City of Halifax with water.

MAINS.

12 inch main from Chain Lakes,	13,700 ft.
to St. Andrews Cross,	13,800
15 do do from do to do	—27,500

DISTRIBUTION PIPES.

12 inch pipe, St. Andrew's Cross to Spring Garden road,	3,400
12 inch do do through Cogswell street, to North Barracks,	2,800
	—6,200
9 in pipe in Cogswell, Barrack, and Jacob streets,	840
6 in pipe north of Jacob and Cogswell streets,	4,760
6 in pipe south of do do	8,980
	—13,740
3 in pipe north of Jacob and Cogswell streets,	22,250
3 in pipe between Jacob and Sackville streets,	15,120
3 in pipe all south of Sackville street,	25,140
	—62,510
	110,790 ft

—20 miles 5190 feet.

28 Fire Plugs,
15 combined Fire Plugs and Hydrants,
21 Hydrants.

Table of Distances and Levels.

DISTANCES.

	miles.	feet.
St. Andrews Cross to Pipe House at Chain Lakes,	2	2940
Pipe House at Chain Lakes to Ragged Lake,	2	1940
St. Andrews Cross to top of Shaffroth's Hill,	1	2640
Shaffroth's Hill to Birch Cove Lakes,	4	

HEIGHT OF IMPORTANT POINTS ABOVE CITY DATUM, OR MEDIUM LOW TIDE WATER.

	Feet.
Level of waste weir of Long Lake,	202 2
Ordinary surface of water in 1st. Chain Lake at Pipe House,	199 8
Top of pipe chamber, (15 inch pipe)	200 8
Bottom of pipe chamber,	190 8
Level of street at St. Andrew's Cross,	163 0
Level of street corner of Park and Cogswell streets,	158 1
Camp Hill,	185 5
Hill south of J. Kings,	222 0
Birch Cove Lakes, surface of water,	239 0
Top of Shaffroth's Hill,	249 0
Ragged Lake, surface of water,	325 6
Citadel, sill of entrance gateway,	243 0

Elevation of Streets above Tide.

Intersection		Feet. above Tide.
of	and	
South Street,	Kempt Road,	119.8
do	Queen,	114.2
do	Barrington,	45.8
do	Hollis,	29.0
Morris,	Kempt Road,	138.9
do	Summer,	122.0
do	Park,	94.9
do	Dresden Row,	91.7
do	Birmingham,	102.8
do	Queen,	100.7
do	Barrington,	59.3
do	Hollis,	47.4
do	Lower Water,	25.1
Spring Garden Road,	Kempt Road,	142.5
do	Summer,	133.0
do	Park,	118.0
do	Dresden Row,	118.6
do	Birmingham,	116.8