

# ANNUAL REPORT OF THE ENGINEERING AND PUBLIC WORKS DEPARTMENT

## 1962



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TO HIS WORSHIP THE MAYOR AND ALDERMEN  
of THE CITY OF FREDERICTON.

Gentlemen:

I submit herewith this report, which is a statement of the work done in the various City Departments under the direct supervision of the City Engineer.

This report covers the period January 1, 1962 to December 31, 1962 and is written for the purpose of maintaining an accurate record on file of the activities and costs of the various departments.

During the year, along with regular maintenance, City crews and contractors constructed the following work:-

Concrete Curb and Gutter .....	4.42 miles
Concrete Sidewalk .....	2.36 miles
Grading and Gravelling .....	4.20 miles
Ditching (Outlying Roads) .....	1.02 miles
New Street Construction .....	1.46 miles
10" to 48" Surface Sewer .....	2.86 miles
6" to 12" Domestic Sewer .....	3.25 miles
4" to 12" C. I. Water Main .....	3.09 miles

Contractors under contract with the Public Works Department of the City of Fredericton in 1962 completed construction on the following projects:-

- |                                       |  |
|---------------------------------------|--|
| Forbes and Sloat                      | - Supply and delivery of Crushed Gravel  |
| Forbes and Sloat                      | - To installing Domestic Sewer, Surface Sewer, Water and Rough Grading Roads at Skyline Acres, Fredericton Housing Ltd. development, Forest Hill.  |
| Ashfield Construction Company Ltd.    | - To installing Domestic Sewer, Surface Sewer and Water on York Street and Pederson Crescent, Atkinson subdivision.                                |
| Canadian Fairbanks Morse Company Ltd. | - Supplying and installing Pumping equipment at the Booster Pumping Station, Montgomery Street.  |
| Everett Farris                        | - To installing Domestic Sewer, Surface Sewer and Water on Noble Street, Carleton Realty subdivision.  |
| Everett Farris                        | - To installing Domestic Sewer and Water for Industrial Area, Wilsey Road.   |
| Everett Farris                        | - To installing Domestic Sewer, Surface Sewer and Water on Beechwood Crescent and on Smythe Street from Montgomery Street to near Prospect Street. |

- Weyman Construction Co. - Construction of a building to house Pumping equipment for Booster Pumping Station, Montgomery Street.
- York Structural Steel - Construction of a 250,000 Imperial Gallon elevated Reservoir near Montgomery and Smythe Street.

The regular expenditures for the twelve-month period January 1, 1962 to December 31, 1962 appear as follows:-

	<u>Appropriation</u>	<u>Net Expenditure</u>	<u>Debit</u>	<u>Credit</u>
Street Lights	\$ 47,875.00	46,989.38		885.62
Public Works	24,100.00	23,266.09		833.91
Roads and Streets	160,000.00	148,895.58		11,104.42
Sanitation	58,400.00	58,883.15	483.15	
Wilmet Park	6,200.00	7,134.51	934.51	
Odell Park	4,330.00	3,820.72		509.28
Carleton Park	6,000.00	7,508.07	1,508.07	
Old Burial Ground	2,850.00	2,037.40		812.60
Street Cleaning	43,650.00	40,400.40		3,249.60
Loyalist Burial Ground	200.00	200.00		
<b>TOTALS</b>	<b>=</b> <b>\$ 353,605.00</b>	<b>339,135.30</b>	<b>2,925.73</b>	<b>17,395.43</b>

	<u>Revenue</u>	<u>Net Expenditure</u>	<u>Credit</u>
Water Pumping Station)		48,273.53	
Water Ordinary )	226,009.91	59,143.01	81,122.66
Sewerage Domestic )		14,768.06	
Salaries		22,702.65	
<b>TOTALS</b>	<b>=</b> <b>\$ 226,009.91</b>	<b>144,887.25</b>	<b>81,122.66</b>

The City of Fredericton occupies a total of some 23.5 square miles. This area excludes the water area occupied by the Saint John River within the boundaries of the City.

The preliminary report on the 1961 census shows the City's population as 19,683.

Following in the body of this report is a detailed statement of the work done, comparative expenditures and unit costs under the various departments. The detailed report of any particular department can be readily found by referring to the index on the preceding page.

Respectfully submitted,

*W.L. Barrett*  
City Engineer.

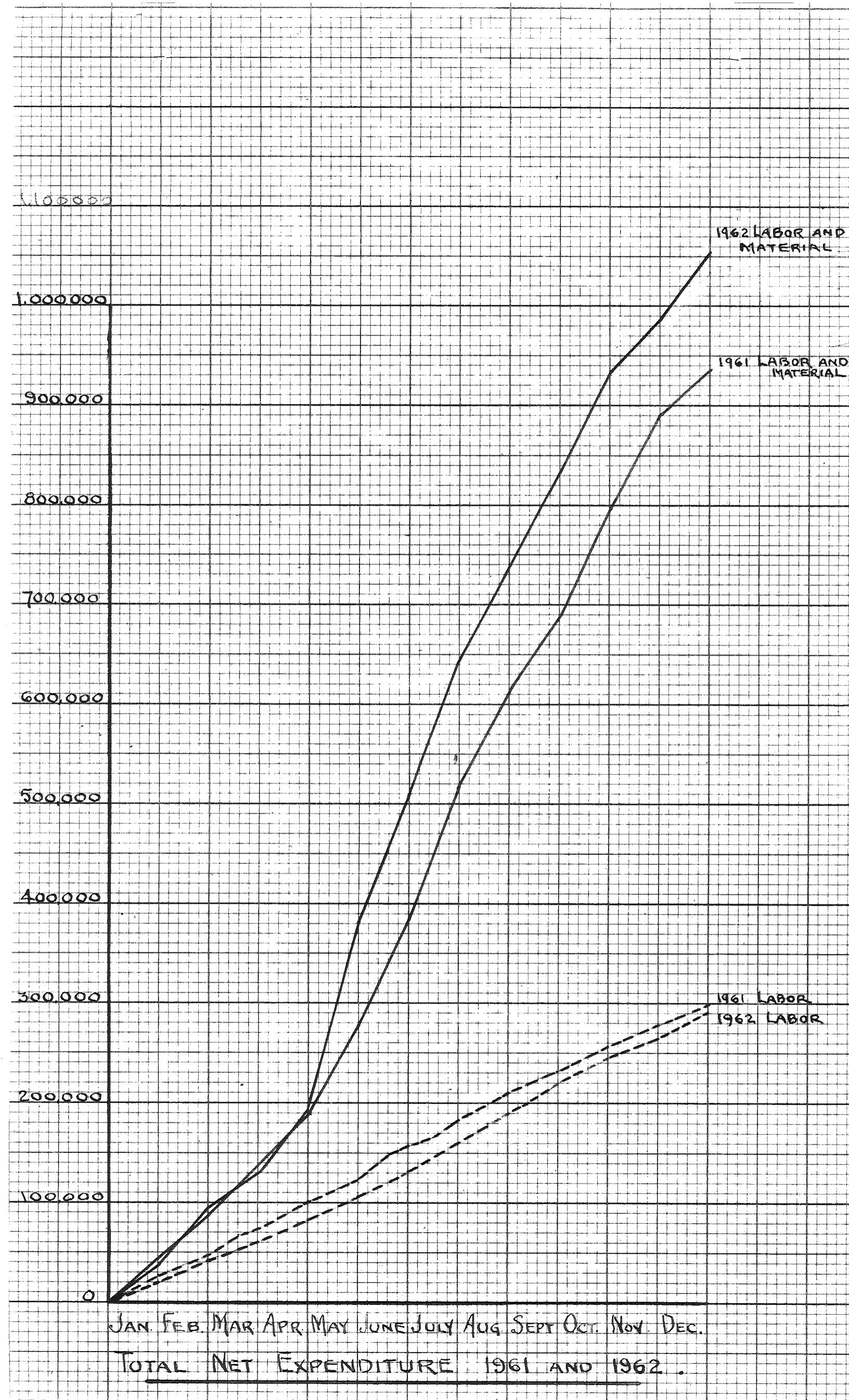
### TOTAL YEARLY EXPENDITURE

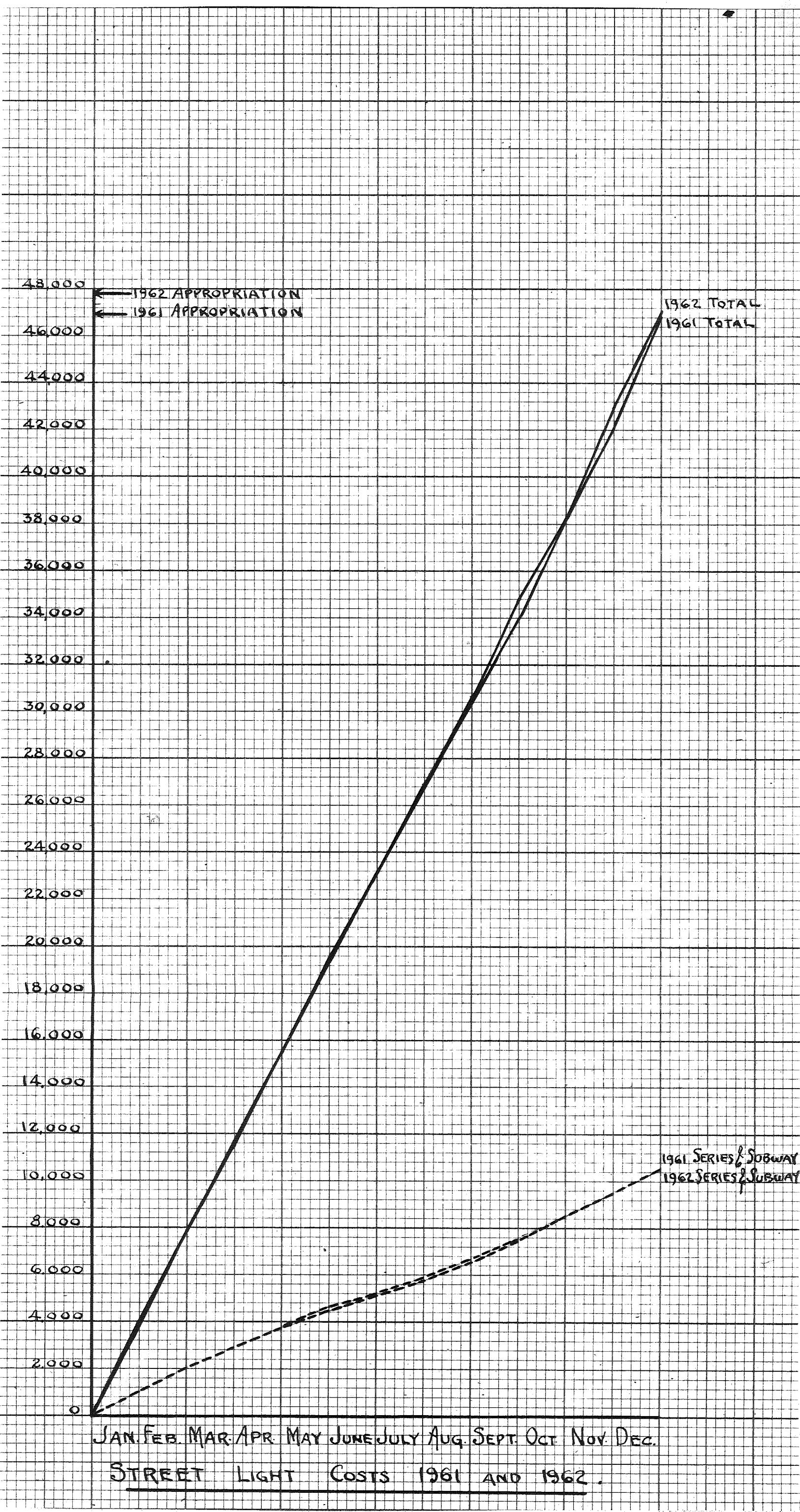
The total yearly net expenditure under the direct supervision of the City Engineer in 1962 amounted to \$1,034,768.98. This expenditure will be taken up in detail under the various headings in this report. The total gross expenditure for 1962 amounted to \$1,240,554.38.

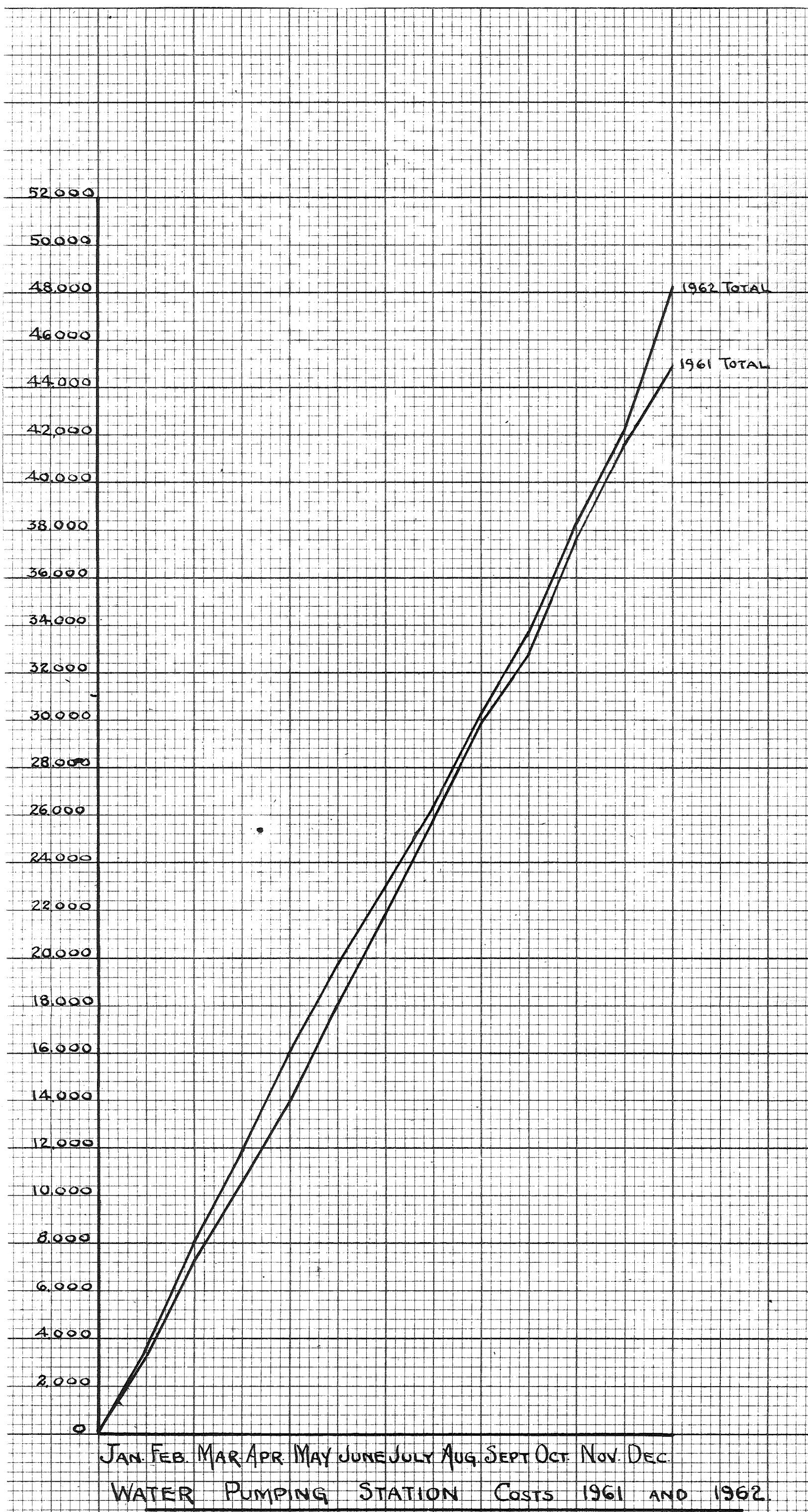
A graphic comparison of expenditures for labor and labor and material for the year 1961 and the year 1962 is shown on the following graph.

The location of new construction completed and commenced in 1962 is shown on maps inserted after page 3 of this report.

Following the maps is a graph showing the distribution of the City of Fredericton Tax Dollar.

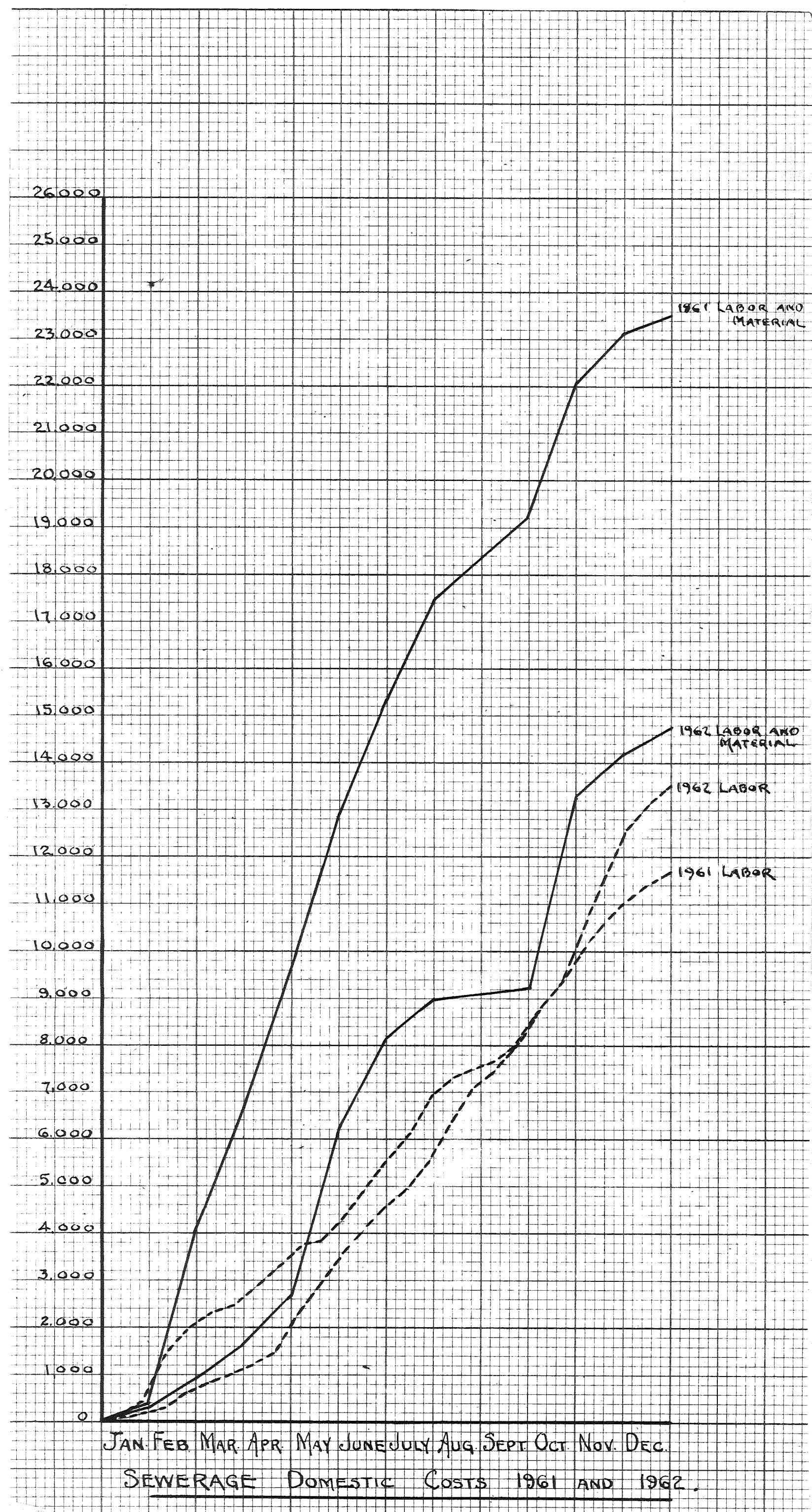


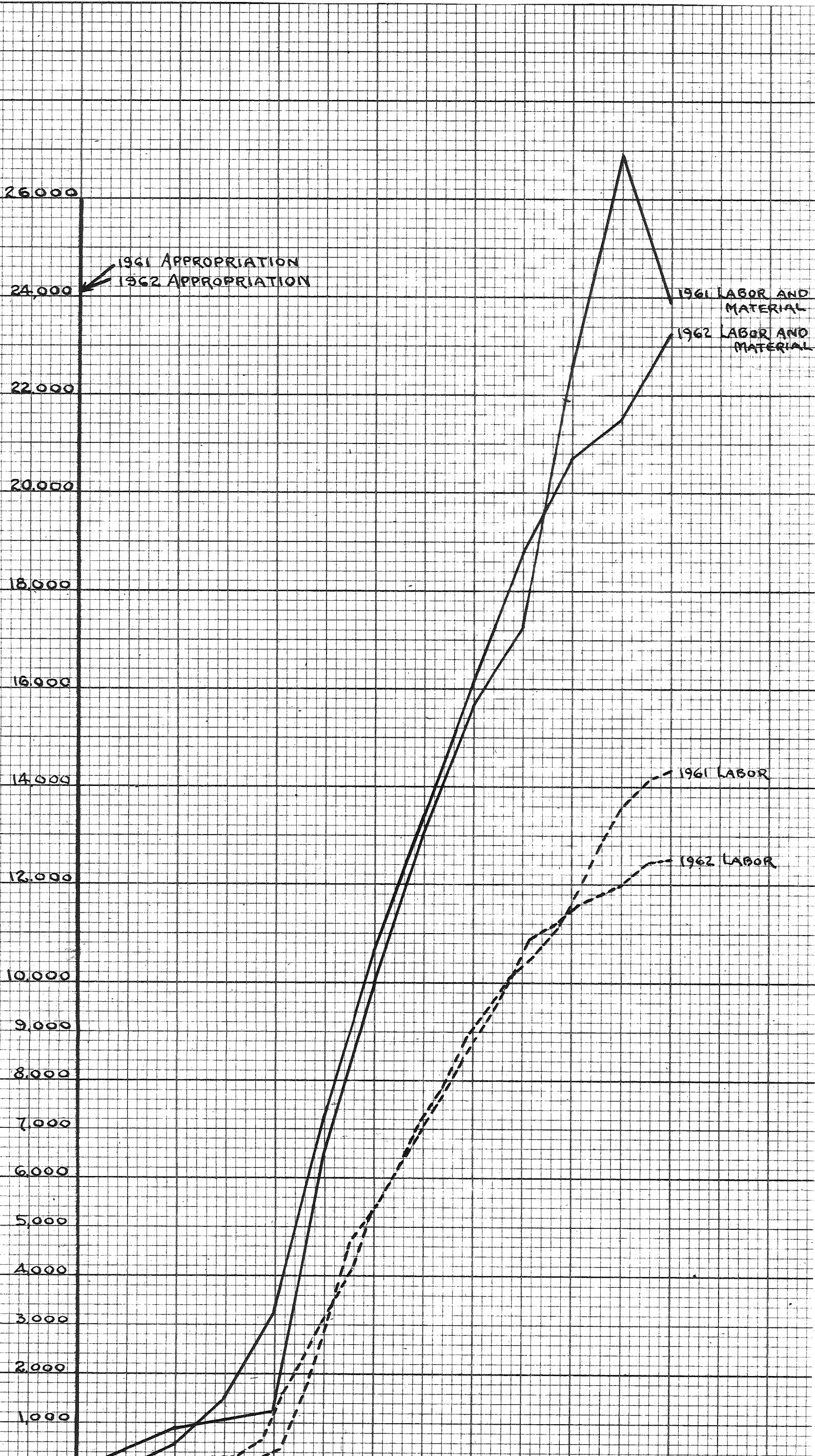




JAN. FEB. MAR APR MAY JUNE JULY AUG. SEPT OCT. NOV. DEC.

WATER PUMPING STATION COSTS 1961 AND 1962.

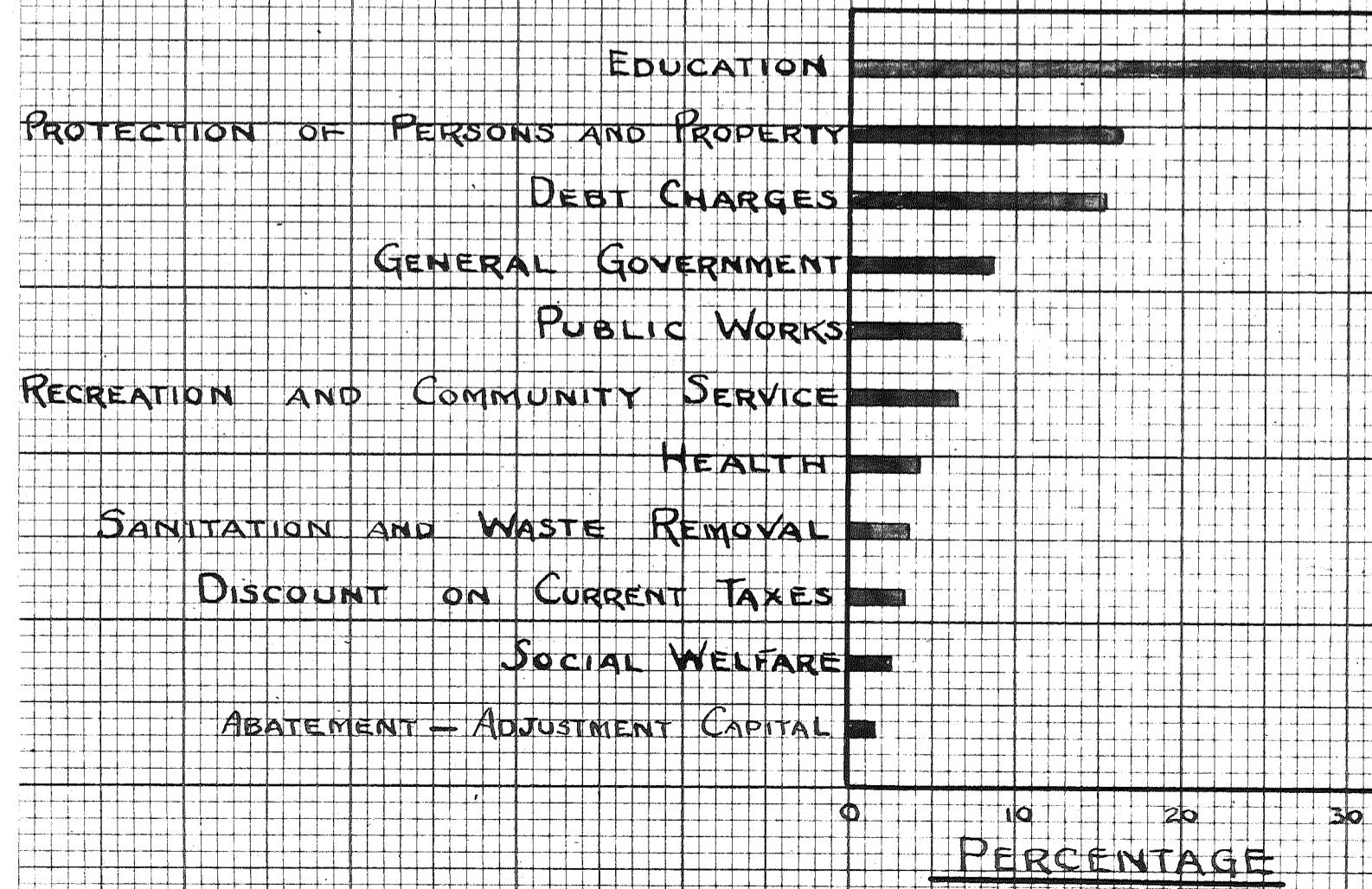




JAN. FEB. MAR. APRIL MAY JUNE JUILY AUG. SEPT. OCT. NOV. DEC.

PUBLIC WORKS COSTS 1961 AND 1962

## DISTRIBUTION OF THE 1962 CITY DOLLAR



## ROADS and STREETS

In 1962 the appropriation for Roads and Streets was \$160,000.00.

There are in Fredericton some 63.39 miles of Roads and Streets; 12.40 miles being located on the north side of the Saint John River and 50.99 miles on the south side. In addition there are 44.83 miles of concrete sidewalks; 7.39 miles on the north side and 37.44 miles on the south side of the Saint John River.

The paved and unpaved Roads and Streets are divided between the Rural and Urban districts. (Inside and Outside Tax Rate) as follows:-

<u>Roads and Streets</u>			
	<u>Urban</u>	<u>Rural</u>	<u>Total (Miles)</u>
Paved	39.55	5.45	45.00
Unpaved	10.02	8.37	18.39
TOTALS =	<u>49.57</u>	<u>13.82</u>	<u>63.39</u>

## Roads and Streets Expenditures - 1962

Gross Expenditure .....	\$ 219,565.87
Credits .....	<u>70,670.29</u>
Net Expenditure .....	148,895.58
1962 Appropriation .....	<u>160,000.00</u>
CREDIT .....	<u>\$ 11,104.42</u>

The above Credits of \$70,670.29 are made up as follows:-

Materials or charges for Machinery to private parties ..\$ 2,500.43  
Journal Voucher (Materials sold to other departments)... 2,796.76  
Journal Voucher (Gas, Oil, Antifreeze, Diesel Fuel).... 6,019.04  
Journal Voucher (Holiday and Sick leave account)..... 2,527.45  
Journal Voucher (Machinery rental on other accounts).... 56,473.12  
Rebate for Winter Works Project N.B.-12 (Federal Gov't.) 353.49

TOTAL .....\$ 70,670.29

The Gross Expenditure is divided as follows:-

Labor - Being the total of Roads and Streets Payrolls, which include the cost of hired trucks or any other machinery hired by the hour .....\$ 91,749.43

Material Charges - Which includes Workmen's Compensation, Unemployment Insurance and all materials including purchase and repairs to City owned equipment.....\$ 127,816.44

The labor charges of \$91,749.43 are divided into the following items. These items give a good idea of the amount and kind of work done by the Roads and Streets Department during the year.

#### L A B O R

ITEM 1 Snowplowing sidewalks:- 44.83 miles .....\$ 1,741.60

44.83 miles of sidewalks were kept plowed in 1962. To the labor cost of \$1741.60 must be added \$1739.33 (Workmen's Compensation, Pension Fund, Gas, Oil, Repairs and Depreciation) giving a total cost of \$3,480.93 or a unit cost for plowing of sidewalks of approximately \$78.00 per mile for 1962.

ITEM 2 Snow Control:- Blowing, shovelling and hauling snow, plowing or scraping roads, cleaning gutters, thawing catch basins of ice and snow and any other means of snow control, 63.39 miles ..... 21,789.10

The following table shows comparative labor costs of Snow Control for the years 1960 to 1962 inclusive:-

	<u>1960</u>	<u>1961</u>	<u>1962</u>
Snowplowing Roads and Streets	6,915.24	9,489.92	5,380.93
Blowing, hauling and shovelling snow	20,240.14	27,624.71	13,416.85
Catch Basins	2,079.39	3,369.45	2,374.16
Snow Fences	618.64	674.19	577.77
Keeping Drains on hills open	1,410.97		
Thawing Culverts	17.99		39.39
TOTALS =	\$ 31,282.37	41,158.27	21,789.10

63.39 miles of Roads and Streets were plowed and maintained during the winter months.

The unit cost per mile of plowing and maintaining City Roads and Streets was approximately \$1,040.00 and was calculated as follows:-

L A B O R  
Continued

Labor (Snow Control) .....	\$ 21,789.10
(Sanding Roads) .....	6,387.58
Workmen's Compensation .....	845.30
Pension and Holiday Fund .....	4,226.50
City Trucks (2221 Hrs. @ \$2.00 per hour).:	5,270.00
City Road Patrols (1140½ Hrs. @ \$6.00 per hour) .....	6,843.00
City Bulldozers (151 hrs. @ \$6.00 per hr.) .....	906.00
(367 hrs. @ \$4.50 per hr.) .....	1,651.50
City Thawing Machines (350 hrs. @ \$2.00 per hour) .....	700.00
Front End Loader (321 hrs. @ \$10.00 per hour) .....	3,210.00
City Snow Blowers (181 hrs. @ \$15.00 per hour) .....	2,715.00
Sand (4000 cu.yds. @ \$1.45 per cu.yd.) ...	5,800.00
Rock Salt (180 tons @ \$17.58 per ton) ...	3,164.40
1960 Ford Sand Spreader (201 hrs. @ \$6.00 per hour) .....	1,206.00
Michigan Shovel T-6K (207 hrs. @ \$6.00 per hour) .....	1,242.00
TOTAL	= \$ 65,956.38

Total Snow Control Costs ??

Snow Fall in Fredericton for the last five years was as follows:-

January 1, 1958 to December 31, 1958 ...	111.25 inches
January 1, 1959 to December 31, 1959 ...	61.5 inches
January 1, 1960 to December 31, 1960 ...	88.4 inches
January 1, 1961 to December 31, 1961 ...	93.89 inches
January 1, 1962 to December 31, 1962 ...	90.8 inches

Snow Fences:- Eleven thousand feet of lath and wire snow fencing was erected under Snow Control to prevent drifting snow from building up on Outlying Roads, 1,000 feet of new fencing was purchased this year from the New Brunswick Wire Fence Company.

#### ITEM #3

Sanding Streets and Walks:- Storing sand in Winter Storage piles and spreading same on slippery streets and walks .....

6,387.58

4,000 cu. yds. of Sand was used during the winter of 1962, purchased from S. S. Baird and Sons.

#### ITEM #4

Streets:- General work of maintenance of streets and sidewalks and any other items such as building culverts, curbs and gutters or pavements which are not mentioned under some particular heading .....

36,709.41

L A B O R  
continued

Repairs to streets (repairs to Curbs, sidewalks, bridges, culverts, erecting of guard rails, cutting grass, constructing barricades, rip-rapping, ditching, etc.) .....	\$ 5,973.14
Repairs to machinery .....	13,053.75
Dust Control .....	657.65
Weather Account (Holidays) .....	16,957.04
Sodding and Seeding .....	33.02
Traffic Control .....	<u>34.81</u>
<b>TOTAL .....</b>	<b><u>\$ 36,709.41</u></b>

In 1962, 216 bags of Calcium Chloride and 19,461 Gallons of Bunker Oil was used for dust control and 180 tons of salt was used for ice control.

ITEM #5

Surface Sewers:- Cleaning, flushing and repairing surface sewers and building new catch basins on existing streets..... \$ 5,031.12

The Surface Sewers in the City were flushed where necessary and all Catch Basins were cleaned and repaired during the year and repairs were made to any breaks that occurred or extensions needed to the sewer outfalls, amounting to \$7,420.59 which includes labor, city machinery and materials.

ITEM #6

Yard:- Caretaker at City Yard, repair work in City Yard, Heat, Power, etc. ..... 3,928.57

The total cost including labor, materials and city machinery amounted to \$6,496.00.

ITEM #7

Grading and Gravelling:- Grading and application of gravel on City Roads and Streets ..... 900.78

3,261.13 tons of crushed gravel was used in the maintenance and repairs to Gravel Roads under Roads and Streets.

The gravel was purchased from Forbes and Sloat. The contract price for gravel was as follows:-

L A B O R  
continued

<u>Class of Gravel</u>	<u>Price per ton delivered to the job</u>
Class C (3" Crushed)	\$ 1.01 per ton
Class A (1½" Crushed)	1.09 per ton

A stock pile was placed at the site of the Old City Dump on Wilsey Road for spring frost boils and excavation repairs.

The total cost including labor, materials and machinery for maintenance of "Gravel Roads" under the heading "Roads and Streets" amounted to \$4,748.97.

ITEM #8

Doak Road:- All work done on the Doak Road, other than work done by the Motor Graders .... \$ 372.62

A section of this Road from the Industrial Road to the Vanier Highway was ditched on both sides. The total cost including labor, materials and machinery for maintenance amounted to \$420.74.

ITEM #9

Wilsey Road:- All work done on the Wilsey Road, other than work done by the Motor Graders ..... 635.03

A section of this Road from near the intersection of the Vanier Highway and Wilsey Road easterly, a distance of approximately 1500 feet was ditched this year. The total cost for the above mentioned construction amounted to \$723.15.

ITEM #10 & #11

New Maryland Road and Rural Roads:-

No expenditures were made on these Roads in 1962 under this heading.

ITEM #12

Asphaltic Concrete Repairs and Paving Entrances:- Patching and repairing Asphalt or Tar Pavement, applying seal coat, light tar or asphalt to pavements and applying asphalt to driveways ..... 10,794.57

L A B O R  
continued

TOTAL COST

Labor and Machinery .....	\$ 18,499.43
Materials .....	13,841.27
<b>TOTAL .....</b>	<b>\$ 32,340.70</b>

The labor expenditure charged to this account amounted to \$10,794.57.

In 1958 a large aggregate dryer and aggregate conveyor belt was purchased to facilitate the mixing of patching material in the City Yard. This equipment has been a big improvement in the quality of the patching material produced at the yard and has also accelerated the operation.

When local contractors have plants set up, patching material can be obtained more economically. Patching material, when available was obtained from Diamond Construction Company (1961) Limited and W. J. Gorman.

The total expenditure for Pavement Repairs and Driveways for 1962 was \$32,340.70 and was computed as follows:-

ASPHALT

7560 Gallons RC <sub>3</sub> .....	\$ 3,145.56
3125 Gallons RS <sub>2</sub> .....	<u>1,539.43</u>
	\$ 4,684.99

Less Stock 1962

990 Gallons RC <sub>3</sub> .....	\$ 405.90
405 Gallons RS <sub>2</sub> .....	<u>198.45</u>
	604.35
<u>Plus Freight and Cartage charges</u> .....	<u>79.50</u>
	\$ 4,150.14

<u>Less</u> 1) Credits on return of drums .....	\$ 1,279.00
2) Liquid asphalt sold to Diamond Construction Co. (1961) Ltd.....	117.35
3) Credit Research Station & U.N.B..	233.80
4) Drying Sand for Provincial Gov't. ....	20.00
	<u>1,650.15</u>
	\$ 2,509.99

Plus Cost of Asphalt used in  
Patching Streets and Drive-  
ways obtained from Diamond  
Construction Co. (1961) Ltd.  
and W. J. Gorman ..... 9,360.11

TOTAL ASPHALT COST ..... \$ 11,870.10

L A B O R  
continued

Total Asphalt Cost (Carried Forward) ..\$	11,870.10
Kerosene (1695 Gallons) .....	444.09
Crushed Rock - 208.65 tons - \$	730.27
Less 1962 stock - 20 tons -	<u>70.00..</u>
	660.27
Crusher Dust - 209.70 tons - \$	419.40
Less 1962 Stock and sale -	<u>170.00..</u>
of Crusher Dust - 95 tons	249.40
Gravel, 18.10 tons .....	15.47
Sand, 175 tons .....	175.00
Depreciation on Conveyor, Hopper and Dryer .....	1,019.84
Maritime Electric Co. (Power) .....	44.47
Repairs to Plant .....	60.50
Coal (7.8 tons) .....	189.00
Labor (City Employees, including Pension Fund, Workmen's Compensation and Holiday Account) 12,737.59	
City Machinery - Trucks, Roller, Loader, Boiler, etc. .....	4,742.00
Miscellaneous .....	<u>132.97</u>
TOTAL EXPENDITURE (ITEM 12) .....	\$ 32,340.70

ITEM #13

City Road Patrols:- (Operator's Wages) ....\$ 1,109.07

The repair charges on City Road Patrols, exclusive of City labor for the last three years were:-

<u>Date Purchased</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>
1950 Austin Western #99H	2,348.96	2,584.98	1,787.05
1955 Allis Chalmers (A. D. 40)	1,661.99	2,155.09	1,773.06
1961 Galion		366.50	2,302.13
1962 Austin Western (300 Pacer)			708.94

In May, the 1950 Austin Western #99H was traded and a 1962 Austin Western Model #300 was purchased from Barker Equipment Ltd.

ITEM #14

Parking Lots:-..... ..... 212.50

Due to the increased demand for Parking facilities, a new Parking Lot was constructed in 1962 on Queen Street, above the Canadian Legion Property. The City Parking lot below Carleton Street on the site of the "Artic Rink" was gravelled. Total amount of gravel used on these Parking lots was 3,360.65 tons.

L A B O R  
continued

The total expenditure, including labor, city machinery and materials under this heading amounted to \$4,030.76.

ITEM #15

Paint Department:- Painting, repairing and installing street signs on City streets .....\$ 960.17

The total expenditure including labor, city machinery and materials amounted to \$2,180.88.

ITEM #16

Flood Repairs:-

There were no expenditures in 1962 under this heading.

ITEM #17

Right of Way Clearing - Doak Road and sections of the Flanagan Road, Montgomery Street, College Hill Road and Forest Hill Road .....\$ 530.75

In 1961 the widening of the above mentioned Roads was commenced under the Winter Works Incentive Program and finished in January, 1962. The labor expenditure in 1962 amounted to \$530.75. The total labor expenditure for the above projects was:-

Labor expenditure 1961 ..\$ 1,019.75  
Labor expenditure 1962 .. 530.75  
TOTAL .....\$ 1,550.50

ITEM #18

Lincoln Road:- .....

646.56

Under this heading the labor expenditure amounted to \$646.56 and was for River Front Improvement from the Canadian National Railway crossing at the Dominion Experimental Station along the Lincoln Highway.

TOTAL LABOR & HIRED MACHINERY COSTS, ROADS & STREETS .....\$ 91,749.43  
1962

LABOR COSTS ONLY .....\$ 82,295.43

Following is a table comparing Labor and Hired Machinery Expenditure on these Items from 1959 to 1962:-

TABLE COMPARING YEARLY COSTS in ROADS AND  
STREETS LABOR & HIRED MACHINERY ITEMS

<u>ITEM</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>
1. Snowplowing sidewalks	1,324.35	2,520.81	3,841.47	1,741.60
2. Snow Control	22,115.72	31,282.37	41,158.27	21,789.10
3. Sanding Streets and Walks	10,657.40	8,972.51	5,818.55	6,387.58
4. Streets	34,627.86	37,255.49	32,384.51	36,709.41
5. Surface Sewer	9,985.73	4,975.35	6,104.26	5,031.12
6. Yard	3,417.00	3,729.32	3,357.61	3,928.57
7. Grading and Gravelling	1,037.11	781.31	105.72	900.78
8. Doak Road	412.34	830.47	134.22	372.62
9. Wilsey Road	877.53	7,023.35	32.64	635.03
10. New Maryland Road	54.82	1,531.92	---	---
11. Rural Roads	441.24	424.30	25.05	---
12. Pavement Repairs and Driveways	4,945.34	9,580.46	9,023.69	10,794.57
13. City Road Patrols	843.59	783.35	770.66	1,109.07
14. Parking Lots	89.94	12.28	241.71	212.50
15. Paint Department	---	---	910.59	960.17
16. Flood Repairs	---	---	8,767.79	---
17. Right of Way Clearing	---	---	1,019.75	530.75
18. Lincoln Road	---	---	130.30	646.56
TOTALS =	\$ 90,829.97	109,703.29	113,826.79	91,749.43

The following items of machinery were purchased this year and charged to Roads and Streets:-

- 1 - New Willys 1962 CJ5 Jeep, Fiberglass Cab, Serial No. 57548 - 135,897, Motor No. C.J. - 10138. Meyer Snow Plow, Curb Idle Generator, Directional Signals, 5-(600 x 16) Mud and Snow Tires, 2nd Seat, Draw Bar, Undercoated ..... \$ 3,348.00 S.S. & E. Tax ... 100.44 \$ 3,448.44
- 1 - New Willys 1962 CJ5 Jeep,  $\frac{1}{2}$  Cab, Serial 57548-142569, Motor CJ10282, Heater and Defroster, Draw Bar, Passenger Seat, Dual Wipers, Undercoat, 1 Snow Plow installed, Curb Idle Generator, Directional Signals ..... \$ 3,575.00 Less - 1959 Willys CJ5 Serial 57548-92758 ..... 975.00 \$ 2,600.00 S.S. & E. Tax ... 78.00 2,678.00
- 1 - 1962 Austin Western Motor Grader Model Pacer "300" Equipped W/GMC, A-71 Diesel Engine; Friction Clutch; enclosed Cab with Wipers, Heater, Defroster, High lights, Hood sides, Hour Meter, Combination

Stop and Tail lights, 11 Tooth  
 Scarifier, Snow Wing, Serial No.  
 P345-6308, Motor No. 4A-91424  
 Complete as Specified ..... \$ 28,876.00  
 Plus - 3% N.B.S.S. & E. Tax ..... 866.28  
\$ 29,742.28

Less Trade-in allowance on 1950  
 99H Austin Western Grader and  
 attached Snow Wing and Controls ... 11,376.00 \$ 18,366.28

1 - Case 420 Diesel Group El Tractor,  
 Serial #3016324, Case Motor Serial  
 613T01465 - Delco Generator  
 #11003950K3, Starter Delco  
 #1108670-OL16 ..... \$ 6,914.00  
 Less trade-in on Caterpillar ..... 2,638.42  
4,275.58  
 Plus - 3% N.B.S.S. & E. Tax ..... 207.42 \$ 4,483.00

14" Heat treated Open Type Mud  
 Grousers in lieu of 14" Standard  
 Type ..... \$ 160.00  
 Plus - 3% N.B.S.S. & E. Tax ..... 4.80 \$ 164.80

1 - G.M.C. 3-Ton Cab and Chassis, serviced,  
 anti-freeze, spare wheel carrier,  
 motor wheels, aux. rear springs, two  
 speed axle, dash heater and defroster,  
 H.D./rear springs, H.D. front  
 suspension, 327 cu.in. V8 engine,  
 installed flaps behind rear wheels,  
 install body and hoist on new truck,  
 undercoat 2- 8.25 x 20, 10 ply  
 power express, 4 - 8.25 x 20, 10 ply  
 nylon ..... \$ 5,034.60  
 Plus - 3% N.B.S.S. & E. Tax ..... 86.54  
5,121.14  
 Less trade-in on 1958 G.M.C. .... 2,150.00 \$ 2,971.14

1 - Only Volcano Model P15 - Portable  
 Boiler 125# P.S.I. - Trailer Skid  
 mounted ..... \$ 1,753.00  
 Freight ..... 62.10  
1,815.10  
 Plus - 3% N.B.S.S. & E. Tax ..... 52.59 \$ 1,867.69

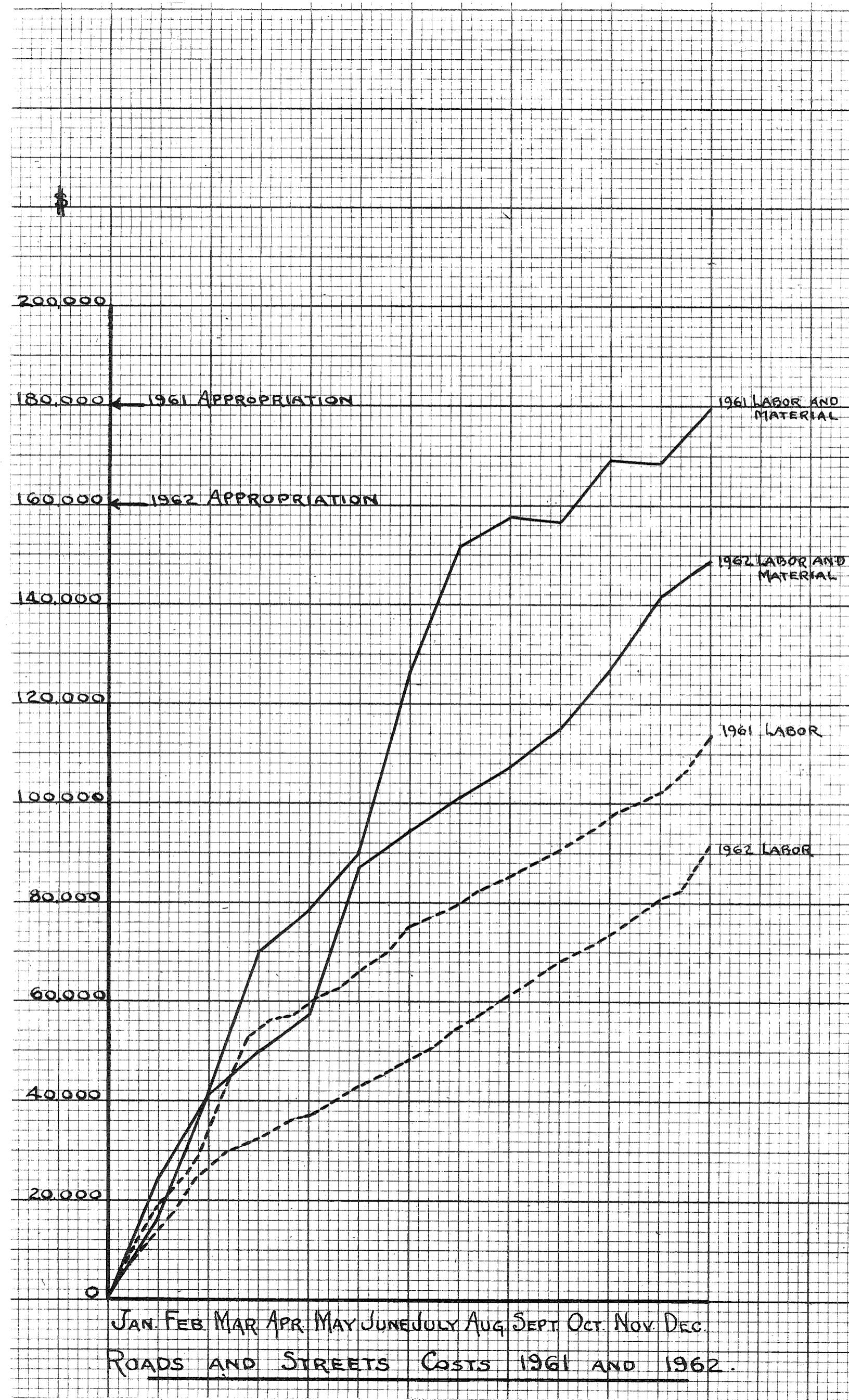
TOTAL ..... \$ 33,979.35

The following is a list of vehicles and machinery used in the Roads and Streets Department, together with the repair costs for 1961 and 1962, including tires and tubes.

<u>Name of Vehicle</u>	<u>Year Purchased</u>	<u>Repairs 1961</u>	<u>Repairs 1962</u>
Austin Western Grader #99H (Traded in 1962)	1950	2,825.78	2,046.99
Austin Western Grader (300 Pacer)	1962	-----	774.76
Allis Chalmers Grader AD-40	1955	2,418.89	2,025.94
Galion Grader	1961	384.37	2,366.23
Caterpillar D-6 Bulldozer	1953	2,333.02	6,014.31
Caterpillar D-2 Bulldozer (Traded 1962)	1957	929.56	265.91
Case 420 Crawler Tractor	1961	84.74	1,046.47
Case 420 Crawler Tractor	1962	-----	115.86
Michigan T6K Shovel (3/8 yard) Unit Shovel (3/4 yard)	1947	2,961.82	3,421.21
	1957	3,369.49	1,383.01
Sicard Snow Blower Jr. #1	1949	1,140.88	335.78
Sicard Snow Blower Jr. #2 (1952 Model)	1961	1,739.30	816.26
Ford Sand Spreader	1960	584.44	92.68
Willys Jeep #12 (Traded in 1962)	1959	290.09	199.39
Willys Jeep #12	1962	-----	61.31
Willys Jeep #11	1961	65.80	201.88
Willys Jeep #17	1960	268.44	377.27
Willys Jeep #40	1962	-----	225.96
G.M.C. - 3 ton (Traded in 1962)	1958	176.32	377.52
G.M.C. - 3 ton	1962	-----	116.50
Chevrolet 3 ton	1960	196.91	271.59
International - 3 ton	1961	167.64	299.04
Ford - 3 ton	1959	200.15	1,090.98
G.M.C. - 1 ton (Pick-Up)	1960	759.42	789.09
International 1 Ton	1959	131.95	390.54
Chevrolet $\frac{1}{2}$ Ton Panel	1957	296.82	221.80
Ford Fairlane (2 door)	1960	459.52	317.61
Airpic Compressor	1953	56.85	217.65
Ingersol Rand Compressor	1957	114.74	1,097.78
Pettibone Mulliken Loader	1958	3,855.47	1,668.38
Tarvia Roller Model #157	1955	169.75	176.42
TOTALS .....		\$25,982.16	28,806.12

Cost of Expendable Accessories  
Such as GARDEN BLADES, BULDOZER BLADES & LUMPS

To Total Cost



### WINTER WORKS PROGRAM

The City of Fredericton took advantage of assistance offered under the Winter Works Incentive Program in 1962 on all projects which qualified for same.

Assistance was obtained on several projects which were part of the Capital Works Program for the year and which were commenced or were in progress during the period during which assistance is available, namely, October 15 to May 31st.

The following is a list of projects on which assistance was obtained and the credits for same appear in the appropriate accounts or will be credited in 1963 when claims are finalized.

JANUARY 1, 1962 - MAY 31, 1962

<u>Project Description</u>	<u>Total Direct Payroll Cost</u>	<u>Amount Claimed</u>	<u>Net Labor Cost to City of F'ton.</u>
1. Industrial Area-Clearing Right of Way	7,235.09	3,584.70	3,650.39
2. Curb & Gutter Construction	1,817.50	908.75	908.75
3. Improvements to Wilmot Park	466.70	233.35	233.35
4. Booster Station-Montgomery Street	1,146.61	573.30	573.31
5. Industrial Area - Water and Sewer	2,041.20	1,020.60	1,020.60
6. Services - Skyline Acres	626.68	313.34	313.34
7. Services - Smythe St. and Beechwood Crescent	2,221.01	1,110.50	1,110.51
8. Services - Colter Court	676.85	338.42	338.43
9. Waterline - Waggoner's Lane	722.15	361.07	361.08
10. Improvements to Carleton Park	1,143.74	571.87	571.87
11. Curb & Gutter - Boulevard Topsoiling	845.01	422.50	422.51
TOTALS for Period Jan. 1/62 to May 31/62	\$ 18,942.54	9,438.40	9,504.14

OCTOBER 15, 1962 - to - DECEMBER 31, 1962

<u>Project Description</u>	<u>Total Direct Payroll Cost</u>	<u>Amount Claimed</u>	<u>Net Labor Cost to City of Fredericton.</u>
1. Curb & Gutter Construction	1,521.55	760.77	760.78
2. Domestic Sewer - Woodstock Road	1,989.94	954.00	1,035.94
3. Concrete Sidewalks	1,710.16	812.73	897.43
4. Services - Noble Street	2,894.14	1,447.06	1,447.08
5. Curb & Gutter - Boulevard Topsoiling	259.95	115.31	144.64
6. Parking Lot - Queen St.	187.63	93.81	93.82
7. Grading & Gravelling	1,130.11	565.05	565.06
8. Clearing Right of Way Montgomery to Priestman Street	1,934.20	937.90	996.30
9. Clearing Park Areas	739.28	369.64	369.64
10. Constructing Footpath- Queen's Square	506.87	253.43	253.44
TOTALS for Period Oct. 15/62 to Dec. 31/62	\$12,873.83	6,309.70	6,564.13

SUMMARY FOR YEAR 1962

Total Direct Payroll Cost ..... \$ 31,816.37  
Amount Claimed ..... 15,748.10  
NET LABOR COST TO CITY OF FREDERICTON ..... \$ 16,068.27

### CAPITAL ACCOUNT CURB AND GUTTER

The Net Expenditure under this heading amounted to \$45,131.66.

For the above expenditure of \$45,131.66 concrete curbs and gutters were constructed at the following locations:-

<u>Location</u>	<u>Lineal Feet</u>
Church Street, Brunswick Street to King Street (east side) .....	394
Aberdeen Street, St. John Street to Church Street (west side) .....	663
Montgomery Street, Regent Street to York Street (both sides) .....	2,544
Squires Street (both sides) .....	1,311
King's College Road, York Street towards Smythe Street (both sides) .....	280
Spruce Terrace (both sides) .....	1,253
Titus Street (both sides) .....	1,663
McEvoy Street, MacLaren Avenue to existing curb (both sides) .....	1,929
Dayton Court (both sides) .....	633
Rookwood Avenue, C.N.R. Crossing to Waggoner's Lane (both sides) .....	790
Inglewood Drive, Sherwood Court to Parkhurst Drive (both sides) .....	2,208
Harewood Court (both sides) .....	1,768
Campbell Street, Westmorland Street to rear of Sobey's Store (east side) .....	502
Waggoner's Lane, Smythe Street to Rookwood Avenue (both sides) .....	2,594
Forest Hill, Vanier Highway to beyond Residence #800 Forest Hill (both sides) .....	2,632
Friel Street, (both sides) .....	1,880
Union Street, near Smith Street (east side) .....	90
TOTAL .....	23,134

All the listed Curb and Gutter was constructed by City crews.

All the concrete poured was purchased ready-mixed on the job from the firm of Elmtree Concrete Ltd. at a price of \$14.50 per cubic yard. In the cold weather 2% Calcium is added to the mix, increasing the price of 1 cubic yard of concrete by 80 cents; thus making the total cost \$15.30 per cubic yard. A cubic yard of concrete poured 20.6 lineal feet of Curb and Gutter.

The unit cost of one lineal foot of Curb and Gutter, found by dividing the total length laid, which equals 23,134 lineal feet into the total cost of \$45,131.66 is \$1.95 per lineal foot.

The topsoiling of Boulevards is included in the above cost.

CAPITAL ACCOUNT SEWER DOMESTIC

Gross Expenditure and Stocked Material .....	\$ 92,465.26
Less Inventory, December 31, 1962 .....	<u>8,256.80</u>
	\$ 84,208.46
Credits .....	<u>12,545.30</u>
Net expenditure .....	<u>\$ 71,663.16</u>

The above credits are made up as follows:-

Work done and materials sold to private parties .....	\$ 290.86
Journal Voucher (Materials paid for by Capital Account Sewer and used by other City Departments) .....	<u>12,254.44</u>
TOTAL .....	<u>\$ 12,545.30</u>

Domestic Sewer Mains were constructed at the following locations:-

<u>Location</u>	<u>8" T.C.</u>	<u>8" Transite</u>	<u>10" Transite</u>	<u>6" Force Main</u>	<u>6" Tyton</u>
Atkinson sub- division			960		
- Colter Court	34		275		
Carleton Realty Company			1,942		
F'ton. Housing subdivision, Forest Hill			3,028		
Beechwood Cres.		1,373			
Smythe Street		982		1,618	
- Union Street		424			
- Woodstock Road		1,983			546
TOTALS =	<u>34</u>	<u>10,967</u>	<u>1,618</u>		<u>546</u>

The actual cost of installing the above listed sewers was as follows:-

<u>Location</u>	<u>Payment to Contractors incl. Reserves for Holdback</u>	<u>City Labor and Machinery</u>	<u>Material</u>	<u>Total</u>
Atkinson subdivision	\$ 2,036.25	228.92	1,828.17	4,093.34
Colter Court		547.45	655.05	1,202.50
Carleton Realty Co.	3,639.00	322.65	3,752.32	7,713.97
F'ton. Housing Subdivision	8,838.80	277.92	5,861.01	14,977.73
Beechwood Crescent	4,441.80	288.64	2,683.18	7,413.62
Smythe Street	8,598.10	536.04	5,709.28	14,843.42
Union Street		1,289.53	1,710.04	2,999.57
Woodstock Road		7,674.80	13,866.72	21,541.52
TOTALS	<u>\$27,553.95</u>	<u>11,165.95</u>	<u>36,065.77</u>	<u>74,785.67</u>

All above costs include any holdback payments, which will appear in 1963 accounts, but do not include credits from Winter Works Incentive Program, thus showing the actual cost of construction greater than the net expenditure.

City Machinery and City Workmen installed the Domestic Sewer on Colter Court, Union Street and Woodstock Road.

A Sewage Lift Station was installed on Woodstock Road at Phyllis Creek.

Included in the net expenditure of \$71,663.16 is the amount of \$1,921.16 holdback from jobs completed in 1961 and showing in 1962 accounts.

Total lineal feet laid, 13,165, at an average cost per lineal foot of \$5.67.

Materials in stock, December 31, 1962:-

785'	lineal feet of 8" T.C.Pipe @ \$0.86 per foot .....	\$ 675.10
29½	lineal feet of 10" T.C.Pipe @ \$1.19 per foot ....	35.10
58	lineal feet of 12" T.C.Pipe @ \$1.55 per foot ....	89.90
3403	lineal feet of 8" Asbestos Cement Pipe @ \$1.53 per foot .....	5,206.59
829	lineal feet of 10" Asbestos Cement Pipe @ \$1.88 per foot .....	1,558.52
171	lineal feet of 12" Asbestos Cement Pipe @ \$2.40 per foot .....	410.40
7	Manholes (Covers and Frames) @ \$40.17 complete...	<u>281.19</u>
	TOTAL .....	<u>\$ 8,256.80</u>

CAPITAL ACCOUNT SURFACE SEWER

Gross Expenditure and Stocked Material	.....
Less Inventory, December 31, 1962...	\$ 109,328.43
Credits .....	<u>14,071.59</u>
Net Expenditure .....	<u>\$ 95,256.84</u>

The above credits are made up as follows:-

Work done and materials sold to private parties .....	\$ 905.88
Journal Voucher (Materials paid for by Capital Account Surface Sewer and used by other City Departments).....	<u>10,584.51</u>
TOTAL .....	<u>\$ 14,071.59</u>

Under this heading Surface Sewer Mains were constructed at the following locations:-

LOCATION	CONCRETE PIPE					CORRUGATED 15"
	10"	12"	15"	18"	24"	
Atkinson sub-division	108	575	365			
Colter Court	36	212				
Carleton Realty Company	170	18	20	994	827	
Forest Hill Road	297		776			
Friel Street	118	400	456			
Montgomery Street	75					
Reid Street	177					
F'ton. Housing subdivision	436	739	546	1505	288	
Beechwood Cres.	184	980	367			
Smythe Street	240		1164	56		
Waggoner's Lane	96			12	1552	
<b>TOTALS =</b>	<b>1937</b>	<b>2924</b>	<b>3694</b>	<b>2567</b>	<b>2675</b>	<b>20</b>

Total lineal footage all sizes - 13817 feet

An itemized account was kept of installing Surface Sewers at the above locations and expenditures were made as follows:-

<u>Location</u>	<u>Payment to Contractors incl. City Labor</u>	<u>Reserves for Holdback</u>	<u>and Machinery</u>	<u>Material</u>	<u>Total</u>
Atkinson sub-division	\$ 3,178.50	\$ 266.61	\$ 2,132.16	\$ 5,577.27	
Colter Court		697.69	576.95	1,274.64	
Carleton Realty	4,033.00	394.50	7,880.25	12,307.75	
Forest Hill Road		7,308.41	3,639.21	10,947.62	
Friel Street		4,866.10	3,122.70	7,988.80	
Montgomery Street		392.25	97.90	490.15	
Reid Street		402.39	203.55	605.94	
F'ton. Housing subdivision	13,649.23	276.38	9,701.98	23,627.59	
Beechwood Crescent	4,809.15	306.27	3,455.20	8,570.62	
Smythe Street	10,361.80	594.53	11,494.43	22,450.76	
Waggoner's Lane		513.45	98.97	612.42	
TOTALS =	\$ 36,031.68	\$ 16,018.58	\$ 42,403.30	\$ 94,453.56	

All above costs include any holdback payments which will appear in 1963 accounts but do not include credits from winter works assistance or holdbacks from 1961 projects.

City Workmen and City Machinery installed Surface Sewers at the following locations:-

Colter Court  
Forest Hill Road  
Friel Street  
Montgomery Street  
Reid Street  
Waggoner's Lane

Following is the cost for laying various sizes of pipe including Catch Basins, in place, by Contractors and City Workmen.

#### COSTS by CONTRACT

<u>Size of Pipe</u>	<u>Atkinson Subdivision</u>	<u>Carleton Realty Co.</u>	<u>Fredericton Housing Ltd.</u>	<u>Smythe and Beechwood Cres.</u>
24"		7.38	9.58	8.89
18"		5.40	7.05	6.46
15"	5.96	4.47	6.47	5.96
12"	5.00	4.01	5.76	5.52
10"	4.88	3.89	5.64	5.40

COSTS BY CITY CREWS AND MACHINERY

<u>Colter Court</u>	<u>Forest Hill Road</u>	<u>Friel Street</u>	<u>Montgomery Street</u>	<u>Reid Street</u>	<u>Waggoner's Lane</u>
15"	10.36 (Rock)	8.22 (Rock)			
12"	<u>5.20</u>	<u>7.76</u> (Rock)			
10"	5.08	9.78 (Rock)	5.56	3.07	4.76

Stock on hand, December 31, 1962:-

285	lineal feet of 10" Concrete Pipe @ \$0.76 per foot ..	216.60
968	lineal feet of 12" Concrete Pipe @ \$0.88 per foot ..	851.84
340	lineal feet of 15" Concrete Pipe @ \$1.34 per foot ..	455.60
434	lineal feet of 18" Concrete Pipe @ \$1.82 per foot ..	789.88
96	lineal feet of 24" Concrete Pipe @ \$4.25 per foot ..	408.00
668	lineal feet of 30" Concrete Pipe @ \$5.07 per foot ..	3,386.76
72	lineal feet of 36" Concrete Pipe @ \$8.67 per foot ..	624.24
12	lineal feet of 42" Concrete Pipe @ \$10.04 per foot..	120.48
32	lineal feet of 48" Concrete Pipe @ \$15.40 per foot..	492.80
40	lineal feet of 48" Corrugated Pipe @ \$13.01 per foot	520.40
	Catch Basins (Covers and Frames) 3 @ \$42.21 complete	126.63
	TOTAL .....\$	7,993.23

CAPITAL ACCOUNT WATER

Gross Expenditure and Stocked Material .....	\$ 219,104.95
Less Inventory, Dec. 31/62 ..	<u>31,191.55</u>
	187,913.40
Credits .....	<u>39,478.97</u>
Net Expenditure .....	<u>\$ 148,434.43</u>

The above credits are made up as follows:-

Work done and materials sold to private parties .....	\$ 1,989.37
Journal Voucher (Materials charged to Capital Account Water and sold to other City Departments) .....	33,947.94
Government of Canada (Winter Works) .....	<u>3,541.66</u>
TOTAL .....	<u>\$ 39,478.97</u>

Water Main installations were made at the following locations:-

LOCATION	SIZE OF C. I. PIPE				
	12"	10"	8"	6"	4"
Atkinson subdivision			395	18	601
Colter Court			1917	72	306
Carleton Realty Co.				154	
Churchill Row			320	1734	1177
Fredericton Housing Ltd.		2547	34	1470	11
Beechwood Crescent				46	45
Smythe Street				960	10
Waggoner's Lane					
TOTALS	=	2547	34	6522	1487
					907

Total lineal footage, all sizes - 11,817 feet

An itemized account was kept of installing water mains at the following locations and expenditures were made as follows:-

Location	Payment to Contractors incl. City Labor Reserves for and for Holdback Machinery Material				Total
Atkinson subdivision	\$ 2,324.25	\$ 239.25	\$ 4,335.53		\$ 6,899.03
Colter Court		549.77	1,331.23		1,881.00
Carleton Realty Company	3,995.10	328.89	9,871.90		14,195.89
Churchill Row		266.08	757.18		1,023.26
Fredericton Housing Ltd.	10,899.97	522.62	19,198.16		30,620.75
Beechwood Cres.	4,499.50	862.22	5,955.46		11,317.18
Smythe Street	9,567.70	1,532.84	21,354.88		32,455.42
Waggoner's Lane		1,880.56	4,171.43		6,051.99
TOTALS	=	\$ 31,286.52	\$ 6,182.23	\$ 66,975.77	\$ 104,444.52

All above costs include any holdback payments which will appear in 1963 accounts but do not include credits from winter works assistance or holdbacks from 1961 projects.

City Workmen and City Machinery installed Water under the above heading at the following locations:-

Colter Court  
Churchill Row  
Waggoner's Lane

The following shows the cost per foot for laying various sizes of pipes by Contractors and City workmen and includes hydrants, gates and manholes:-

COSTS by CONTRACT

<u>Size of Pipe</u>	<u>Atkinson Subdivision</u>	<u>Carleton Realty Co.</u>	<u>Fredericton Housing Ltd.</u>	<u>Smythe Street</u>	<u>Beechwood Crescent</u>
12" C. I.				12.28	
10" C. I.			11.36	10.93	
8" C. I.	7.98	7.18	9.74	9.36	7.62
6" C. I.	7.11	5.86	8.57	8.24	6.50
4" C. I.	6.03				

COSTS BY CITY WORKMEN & MACHINERY

<u>Size of Pipe</u>	<u>Colter Court</u>	<u>Churchill Row</u>	<u>Waggoner's Lane</u>
8" C. I.			6.28
6" C. I.		6.64	5.32
4" C. I.	5.02		

In addition, other projects were carried out under the heading "Capital Account Water" as follows:-

1. Capital Account Drilled Wells
2. Capital Account Reservoir Site, Montgomery Street
3. Capital Account Booster Station, Montgomery Street

CAPITAL ACCOUNT DRILLED WELLS

Expenditure .....\$ 1,821.41

In 1960, the City of Fredericton entered into an agreement with the International Water Supply Company to develop a gravel wall well in Wilmot Park. This Well (#4) is situated in Wilmot Park, approximately 300 feet southeast of Well #1. The construction of the Well was commenced in 1960 and was practically completed in 1961 with the exception of landscaping around the site and placing the pump under automatic control from the Fredericton Pumping Station. The expenditure amounted to \$1,821.41, including \$810.00 holdback on construction of Pump House, paid in 1962.

The total cost for the complete Well #4 is as follows:-

1960-1961 Expenditures (Development of Gravel Wall Well #4) .....	\$ 33,797.87
1961 Expenditure (Connecting Well to City Supply Line and Catch Basin) .....	2,251.31
1961 Expenditure (Construction of Pump House and Electrical) .....	6,785.27
1962 Expenditure (Landscaping and Automatic control)...	<u>1,011.41</u>
TOTAL .....	<u><u>\$ 43,845.86</u></u>

The Contractor's holdback of \$810.00 paid in 1962 is included in the 1961 expenditure, shown for Pump House construction.

#### Cost of Well Water Supply to Date

1953 Test Hole Program .....	\$ 7,500.00
1954 Supply line and partial development #1 Well .....	42,271.16
1955 Develop, House and connecting #1 Well .....	22,883.05
1956 Remote Control and Landscaping .....	3,048.33
1957 Develop, House and connecting #2 Well .....	44,217.72
1958 Holdbacks, etc. .....	7,641.01
1958 & 1959 Test Hole Program .....	24,294.40
1960 & 1961 Develop, House and connecting #3 Well ...	46,554.32
1961 Develop, House and Connecting #4 Well .....	42,834.45
1962 Remote control and landscaping #4 Well .....	<u>1,011.41</u>
TOTAL .....	<u><u>\$ 242,255.85</u></u>

Capacity Available ..... 2300 I.G.P.M.

Present Demand ..... 950 I.G.P.M.

CAPITAL ACCOUNT RESERVOIR SITE - MONTGOMERY STREET

In 1961, the City of Fredericton awarded a contract to York Structural Steel to erect a 250,000 Imperial Gallon Elevated Reservoir at a contract price of \$41,100.00 to take care of future City expansion. The construction of this tank began in 1961 and was completed in 1962.

The total cost for the above construction, including connecting to existing Water Main on Smythe Street and constructing overflow and discharge drains was as follows:-

The expenditure on this project in 1962 amounted to \$24,674.80, the remaining being incurred in 1961.

The above total expenditure of \$58,235.10 includes \$4,110.00 holdback on York Structural Steel which does not show in 1962 cost book but will show in 1963 when payment is due.

CAPITAL ACCOUNT BOOSTER STATION - MONTGOMERY STREET

In 1962, tenders were called for the construction of a Booster Pumping Station on Montgomery Street. This building was constructed by Weyman Construction Co. Tenders were also called to supply and install pumping equipment in this building for a Booster Pumping Station. This contract was awarded to Canadian Fairbanks Morse Company Limited.

The total cost for the above construction and installation of pumping equipment, including holdbacks, amounted to \$36,465.19 and the expenditure was as follows:-

1. Building (including Electrical and landscaping) .....	\$ 28,625.20
2. Installation of Pumping Equipment ....	<u>7,839.99</u>
TOTAL .....	<u>\$ 36,465.19</u>

1/ Building (Including Electrical and Landscaping)

Expenditure (including 1962 holdback) ...\$ 28,625.20

The above expenditure is made up as follows:-

K-Mercer - Chrono-flow Transmitter .....	\$ 2,192.25
K-Mercer - 1 Plastic flow tube .....	325.50
Antworth Transfer(Frt.on Transmitter) .....	10.55
Associated Designers (Designing electrical equipment)....	176.50
J. C. Risteen (Stakes) .....	4.12
Forbes and Sloat (Gravel) .....	12.59
James S. Neill and Sons (Paint, staples, brackets, etc.).	24.23
Bemrose and Kilburn (Top Soil) .....	102.60
Capital Garden Supply (Grass Seed) .....	9.50
Richards Electric Co. (Connecting controls and installing thermostat and cables). ....	86.48
Weyman Construction Co. (including 1962 holdback).....	24,740.00
City Labor .....	730.88
City Machinery .....	206.40
Miscellaneous (Express on Materials) .....	3.60
TOTALS .....	<u>\$ 28,625.20</u>

2/ Installation of Pumping Equipment at Booster Pumping Station

Expenditure .....\$ 7,839.99 + 233.46 = 8,073.45

Canadian Fairbanks Morse Co. (including 1962 holdback) ...\$	7,782.00
E. B. Billings (installing valves and guages) .....	<u>57.99</u>
TOTAL .....	<u>\$ 7,839.99</u>

+ 3% Sales Tax on Pumps (1962) 222.16  
Total 8,073.45

CAPITAL ACCOUNT INDUSTRIAL AREA WATER AND SEWER

In August, 1960, the Fredericton City Council passed a resolution to construct a road through the Industrial Area near Doak Station. In 1962 a contract was awarded to Everett Farris to install Water and Sewer on a portion of this Road.

Gross Expenditure (including 1962 holdbacks) .....	\$ 63,260.94
Credits .....	<u>1,226.40</u>
Net Expenditure .....	<u>\$ 62,034.54</u>

The above credits are made up as follows:-

Government of Canada (Winter Works Assistance) .....	\$ 1,020.60
Journal Voucher (Pipe) .....	<u>205.80</u>
TOTAL .....	<u>\$ 1,226.40</u>

For the above expenditure, the following installations were made:-

WATER			DOMESTIC			SEWER
12" C.I. Tyton Pipe	10" C.I. Tyton Pipe	24" Corrugated Metal	12" Corrugated Metal	12" Transite Pipe	10" Transite Pipe	
2883	912	120	360	2817	912	

Total Water - 3,795 lineal feet

Total Domestic Sewer - 4,089 lineal feet

The total expenditures including holdback, for the laying of a Sewer Main on the Industrial Road, was \$24,950.57.

The following shows the cost per foot for the laying of various sizes of pipe in place, including Manholes:-

24" Corrugated Metal Pipe ....	\$ 8.51 per lineal foot
12" Corrugated Metal Pipe ....	6.70 per lineal foot
12" Transite Pipe .....	5.68 per lineal foot
10" Transite Pipe .....	5.16 per lineal foot

The total expenditure including holdback for the laying of a Water Main on the Industrial Road was \$ 38,310.37.

The following shows the cost per foot for the laying of the various sizes of pipe in place:-

12" Tyton Pipe ....	\$ 10.40 per lineal foot
10" Tyton Pipe ....	9.15 per lineal foot

A number of houses along the Wilsey Road were serviced with Water and Sewer in 1962.

The total expenditure on Industrial Road for Water and Sewer in 1962 was as follows:-

Water .....	\$ 38,310.37
Sewer .....	<u>24,950.57</u>
TOTAL .....	<u>\$ 63,260.94</u>

#### CAPITAL ACCOUNT GRAVEL ROADS

Gross Expenditure .....	\$ 96,199.20
Credit .....	<u>172.92</u>
Net Expenditure .....	<u>\$ 96,026.28</u>

The above credit of \$172.92 was the amount paid by the Government of Canada on Winter Works assistance.

Included in the above expenditures are:-

1. Grading and gravelling newly curbed streets
2. Grading and gravelling streets
3. New road construction and gravelling
4. Clearing of new streets

(1) The following newly curbed streets were graded and gravelled:-

<u>Location</u>	<u>Lineal Feet</u>
Campbell Street, west of Westmorland Street .....	300
Dayton Court .....	300
Forest Hill - Woodbridge Street to House #800 .....	1,200
Friel Street .....	940
Harewood Crescent .....	771
Inglewood Drive, Sherwood Court to Hanwell Road .....	1,136
Montgomery St., York Street to Regent Street .....	1,249
McEvoy Street, from end of former curbing to MacLaren Avenue .....	940
Rookwood Avenue, Canadian National Railway to Waggoner's Lane .....	465
Squires Street .....	714
Spruce Terrace .....	592
Titus Street .....	784
Waggoner's Lane, Rookwood Avenue to Smythe Street .....	<u>1,300</u>
TOTAL .....	<u>10,691</u>

(2) The following streets were graded and gravelled:-

<u>Location</u>	<u>Lineal Feet</u>
Smythe Street, Montgomery Street to near Vanier Highway .....	2,632
Windsor Street, King's College Road to Montgomery St. ...	1,540
Forest Hill - House #800 to Merrill Tims House .....	<u>1,700</u>
TOTAL .....	<u>5,872</u>

(3) The following streets were constructed and  
gravelled under this heading:-

<u>Location</u>	<u>Lineal Feet</u>
Noble Street .....	1,863
Colter Court .....	312
York Street, Montgomery St. to Pederson Crescent .....	350
Pederson Crescent .....	633
Beechwood Crescent .....	1,498
Skyline Acres: Canterbury Drive, Chelsea Court to Essex Street .....	1,179
Cambridge Crescent, Canterbury Drive to Leicester Street .....	530
Leicester Street, Brighton Court to Cambridge Crescent .....	306
Coventry Crescent, Cambridge Crescent to Manchester Court .....	283
Manchester Court .....	543
Essex Street, Canterbury Drive to Cemetery Line .....	230
TOTAL .....	<u>7,727</u>

(4) New streets were cleared on Atkinson subdivision and City property under Winter Works assistance.

Also included in the above expenditure was the amount of \$514.85. This expenditure was for changing the switch on the siding in Carleton Ward, Canadian Pacific Railway, on Hughes Street. The change in location of this switch was necessary in order to widen Hughes Street during the construction of Curb and Gutter on this street.

#### CAPITAL INDUSTRIAL AREA (ROADS)

Gross Expenditure .....	\$ 8,360.07
Credits .....	<u>4,339.95</u>
Net Expenditure .....	<u>\$ 4,021.12</u>

The above credits are made up as follows:-

Government of Canada (Winter Works Assistance) .....	\$ 3,825.95
S. S. Baird & Sons (Sale of Pulp) .....	500.00
Journal Voucher (Labor) .....	<u>14.00</u>
TOTAL .....	<u>\$ 4,339.95</u>

In August 1960 the Fredericton City Council passed a resolution to construct a road through the Industrial Area, near Doak Station. The construction of this road was begun in 1960 and completed in 1961.

In 1962 two proposed roads from the Industrial Road to the Vanier Highway were cleared and all cuttings, other than lumber and pulp, were burned on the site. The pulp and lumber were sold to S. S. Baird & Sons, as shown, in the summary.

LOCAL IMPROVEMENT - 1962

<u>Location</u>	<u>Service</u>	<u>Cost</u>	<u>Subdividers Share at By-Law Rates</u>	<u>Cost to City of Fredericton</u>
Beechwood Crescent	Water	\$ 11,317.18	\$ 2,967.74	\$ 8,349.44
	Domestic Sewer	7,413.62	3,639.68	3,773.94
	Storm Sewer	8,570.62	4,283.65	4,286.97
	Gravel Road	9,510.47	3,359.70	6,150.77
	TOTALS	\$ 36,811.89	\$ 14,250.77	\$ 22,561.12
Skyline Acres	Water	\$ 31,226.23	\$ 5,415.56	\$ 25,810.67
	Domestic Sewer	14,977.73	6,641.72	8,336.01
	Storm Sewer	23,627.59	7,968.35	15,659.24
	Gravel Road	15,168.70	6,235.80	8,932.90
	TOTALS	\$ 85,000.25	\$ 26,261.43	\$ 58,738.82
Pederson Crescent	Water	\$ 6,899.03	\$ 1,300.89	\$ 5,598.14
	Domestic Sewer	4,093.34	1,595.43	2,497.91
	Storm Sewer	5,577.27	1,913.15	3,664.12
	Gravel Road	5,075.95	1,472.70	3,603.25
	TOTALS	\$ 21,645.59	\$ 6,282.17	\$ 15,363.42
Colter Court	Water	\$ 1,881.00	\$ 596.25	\$ 1,284.75
	Domestic Sewer	1,202.50	731.25	471.25
	Storm Sewer	1,274.64	682.50	592.14
	Gravel Road	1,292.03	720.00	572.03
	TOTALS	\$ 5,650.17	\$ 2,730.00	\$ 2,920.17
Noble Street	Water	\$ 14,195.89	\$ 2,016.92	\$ 12,178.97
	Domestic Sewer	7,713.97	2,473.58	5,240.30
	Storm Sewer	12,307.75	2,956.35	9,351.40
	Gravel Road	15,654.45	2,283.30	13,371.15
	TOTALS	\$ 49,872.06	\$ 9,730.15	\$ 40,141.91

All the above services, except Colter Court, were constructed under contract, with City forces and machinery constructing the gravel roads. The costs shown, include holdback payments to Contractors, which are payable in 1963.

PUBLIC WORKS

Gross Expenditure .....	\$ 24,345.95
Credits .....	<u>1,079.86</u>
Net Expenditure .....	\$ 23,266.09
1962 Appropriation .....	<u>24,100.00</u>
CREDIT .....	\$ 833.91

The credits of \$1,079.86 were made up as follows:-

Maps of City of Fredericton sold to private parties .....	\$ 7.30
Government of Canada (Winter Works) .....	362.26
Journal Voucher (Machinery) .....	479.00
Journal Voucher (Oil) .....	3.30
Shell Oil Co. (Return of drums) .....	28.00
Journal Voucher (Maintenance Loyalist Burial Ground) .....	<u>200.00</u>
TOTAL .....	<u>\$ 1,079.86</u>

The labor charge under the Public Works expenditure was incurred as follows:-

Trees .....	\$ 8,762.34
Survey .....	358.05
Back Drain .....	188.13
Back Drain Diversion .....	36.54
Surface Sewer .....	373.47
Unforseen .....	<u>2,876.69</u>
TOTAL .....	<u>\$ 12,595.22</u>

TREES:-

Expenditure .....\$ 13,686.47

The above expenditure includes \$8,762.34 for labor, \$2,951.00 for machinery (jeeps, trucks, shovel, etc.), \$19.41 for oil, \$1,353.72 for material charges and \$600.00 to Mr. Charles Smith, Honorarium for services rendered.

In 1962, 77 trees were removed on the recommendation of the Fredericton Tree Commission. The condemned trees were either in a decadent condition or were a menace to public safety.

Following is the list of trees removed in 1962:-

37 Elms	13 Maple	1 Hornbeam
15 Spruce	2 Ash	1 Basswood
5 Poplar	2 Pine	1 Birch

The procedure followed at the present time is as follows:-

The trees are condemned by four members of the Fredericton Tree Commission, the list signed by the four

members of the commission, is then forwarded to this office.

Trees on private property, which are condemned as possible breeding places for the Elm Bark Beetle, which carries the fungus of Dutch Elm Disease, are also removed by City crews. Two such trees were found this year, one on Gibson Street and the other was on the property of Evald Larsen, Lincoln Road.

Permission for the removal of trees on private property, as well as a statement to the effect that no claim for damage will be filed by the property owner, are obtained before proceeding with this work.

The system is working very well with a minimum of delay, after the tree has been condemned.

661 trees were pruned during the year, as well as the usual planting program.

Spraying for Bark Beetles was carried out in the immediate area of infected trees.

Trees were planted at the following locations:-

<u>Location</u>	<u>Number of Trees</u>
Hanson Street	23
Hughes Street	10
Irvine Street	10
Clark Street	14
Fenety Street	21
Valley View Court	6
Loyalist Court	9
Reid Street	20
Edinburgh Street	8
Albert Street	4
King's College Road	24
Sherwood Court	3
Saunders Street	3
Smythe Street	20
York Street	10
Church Street	1
Aberdeen Street	1
Brunswick Street	4
Waterloo Row	1
Acacia Court	1
Alexandra Street	1
University Avenue	4
TOTAL	= 198

Under the above heading, the following trees were purchased in 1962:-

20 Acer Saccharium @ \$2.75 each .....	\$ 55.00
35 Norway Maples @ \$3.00 each .....	105.00
26 Crimson King Maples @ \$3.50 each .....	91.00
12 Red Oak @ \$2.75 each .....	33.00
5 White Oak @ \$2.75 each .....	13.75
25 Tilia Cordata @ \$3.50 each .....	87.50
25 Tilia Pallida @ \$3.00 each .....	75.00
10 Chestnut @ \$4.00 each .....	40.00
10 Locust @ \$4.50 each .....	45.00
2 Weeping Caragana @ \$3.50 each .....	<u>7.00</u>
TOTAL .....	<u>\$ 552.25</u>

#### SURVEYING:-

Under this heading the expenditure amounted to \$1,624.81 made up of \$358.05 wages for labor and \$1,266.76 for material charges.

The labor charge of \$358.05 was for helpers with the Engineers during the course of their work during 1962, on other than programmed projects.

The material charges of \$1,266.76 were made up as follows:-

J. C. Risteen Co. (Stakes) .....	\$ 67.05
James S. Neill & Sons Ltd. (Crayon, Tapes, Files, Paint, Cord).....	56.17
Horsnell's Machine and Iron Works (Pins).....	5.83
Anric Engineering Co. Ltd. (Surveying) .....	350.20
Kelvin and Hughes (Purchase of Level) .....	378.05
Kelvin and Hughes (Rental on Level) .....	115.36
Express on Levels .....	13.60
C. F. Cook and Associates (Survey) .....	<u>280.50</u>
TOTAL .....	<u>\$ 1,266.76</u>

#### BACK DRAIN:-

Under this heading the expenditure amounted to \$250.13 made up of \$188.13 for labor and \$62.00 for machinery charges. The above expenditure was for general maintenance to the Back Drain.

#### BACK DRAIN DIVERSION:-

Expenditure .....\$ 132.89

The above expenditure was incurred in changing the location of offsets from the Back Drain Diversion, due to the construction of housing in King's College Road. The above expenditure amounting to \$132.89 was made up of \$36.54 for labor, \$12.00 for machinery charges and \$84.35 for material charges.

SURFACE SEWERS :-

Expenditure ..... \$ 911.08

The above expenditure is made up as follows:-

Labor .....	\$ 373.47
Machinery .....	264.00
Material .....	<u>273.61</u>
TOTAL .....	<u>\$ 911.08</u>

Under this heading, repairs were made to the Surface Sewer on MacLaren Avenue between Hughes and Clark Street and on Campbell Street where two Surface Sewers were extended, one on Campbell Street, west of Westmorland Street, and the other back of the Fredericton Armoury near Carleton Street.

UNFORSEEN ACCOUNT - LABOR

Pedestrian Counting at Forest Hill and University Avenue .....	\$ 44.48
Attendant at School on Explosives Course .....	47.92
Rebuilding Dynamite Box .....	102.21
Greens (Cutting raking, seeding, topsoil, etc.) ..	2,477.02
Sweeping Coliseum at Fredericton Exhibition .....	3.10
Construction of Election Tables .....	54.12
Placing Posts at Site of Old Dump .....	17.58
Sir James Dunn Fountain (Queen Street) .....	42.93
Cenotaph Stand .....	9.28
Repairs at Carleton Ward Monument .....	11.30
Spraying Swamps .....	37.62
BENCHES (Painting and repairing) .....	5.64
Cleaning Wharf (Regent Street) .....	17.75
Moving Desk in Engineer's Office .....	<u>5.74</u>
TOTAL .....	<u>\$ 2,876.69</u>

ODELL PARK:-

Gross Expenditure .....	\$ 4,064.69
Credit .....	<u>243.97</u>
Net Expenditure .....	<u>\$ 3,820.72</u>

The above credit of \$243.97 is made up as follows:-

Government of Canada (Winter Works Assistance).....	\$ 217.81
Fredericton Pony Club (24.0 tons 1 $\frac{1}{4}$ " Crushed Gravel)	<u>26.16</u>
TOTAL .....	<u>\$ 243.97</u>

The Gross Expenditure of \$4,064.69 is made up as follows:-

Mussens Canada Ltd. (Repairs to chain saw and parts)....\$	25.42
New Brunswick Telephone Company .....	50.64
Bemrose and Kilburn (96 cu.yds. top soil) .....	172.80
Workmen's Compensation (Assessment 1962) .....	128.79
J. S. Neill & Sons Ltd. (Rake, axe, file) .....	6.10
City Heat and Electric (1 - 21" H. D. Snapper Mower) ...	180.77
Forbes and Sloat (24 tons crusher dust) .....	26.16
Journal Voucher (Gas and Oil) .....	5.16
Journal Voucher (Machinery) .....	289.00
Journal Voucher (Holidays) .....	116.16
Provincial Secretary-Treasurer (S.S. & E. Tax re 1961 Audit) .....	.65
Journal Voucher (Labor) .....	<u>3,063.04</u>
TOTAL .....	\$ 4,064.69

CARLETON PARK:-

Gross Expenditure .....	\$ 8,292.37
Credits .....	<u>784.30</u>
Net Expenditure .....	<u>\$ 7,508.07</u>

The above credit of \$784.30 was the amount received from the Government of Canada for Winter Works Assistance for developing Carleton Park.

The above expenditure includes the following items:-

1. Carleton Park (Maintenance)
2. Carleton Park (Development)

1/ The expenditure for maintenance amounted to \$1,415.00 and was made up as follows:-

Canadian Pacific Railway Co. (Rental) .....	\$ 700.00
Canadian Pacific Railway Co. (Taxes on Park Area) .....	412.93
Journal Voucher (Machinery) .....	104.50
Journal Voucher (Labor) .....	<u>197.57</u>
TOTAL .....	<u>\$ 1,415.00</u>

For the above expenditure, paths were scuffed, grass was kept mowed and in general, the Park was kept in a clean and orderly condition.

In 1961 considerable work was done on the south portion of Carleton Park, that is, the area from Gibson

Street south along Union Street to the Diamond Construction Company property line. The land was levelled and fill was applied where necessary. In 1962 this area was fully developed by the addition of top soil and seeding with the exception of constructing paths and the planting of shrubs and trees. This further development will be completed in 1963.

2/ The above development in 1962 amounted to \$6,877.37 and was made up as follows:-

John Gibson and Sons (Seed) .....	\$ 126.90
Bemrose and Kilburn (2418 cu. yds. top soil) .....	4,352.40
Journal Voucher (Machinery) .....	508.00
Journal Voucher (Labor) .....	1,890.07
TOTAL .....	\$ 6,877.37

#### WILMOT PARK:-

Gross Expenditure .....	\$ 8,171.78
Credit .....	<u>1,037.27</u>
Net Expenditure .....	\$ 7,134.51

The above credit of \$1,037.27 is made up as follows:-

Journal Voucher (Development, landscaping #4 Well) .....	\$ 800.00
Journal Voucher (Gas) .....	2.42
Maritime Electric Co. (Refund) .....	1.50
Government of Canada (Winter Works Assistance) .....	233.35
TOTAL .....	\$ 1,037.27

Included in the above are the following items:-

1. Wilmot Park (Maintenance)
2. Wilmot Park (House)
3. Wilmot Park (Development)

#### 1/ Wilmot Park (Maintenance)

Expenditure ..... \$ 2,881.10

The above expenditure is made up as follows:-

New Brunswick Telephone Co. (Telephone) .....	\$ 10.27
Maritime Electric Co. (Lights) .....	6.60
Hagermans Plumbing & Heating (Repairs to Plumbing) .....	5.65
J. S. Neill & Sons Ltd. (Paint) .....	4.29
City Heat and Electric (Repair and parts for mower).....	79.93
J. C. Risteen Co. (Lumber) .....	2.16
Mack's Drug Store (Seed) .....	17.39
Wassons' Service Station (Gas) .....	19.60
John Hubble (Service on hot beds) .....	25.00
Journal Voucher (Labor) .....	2,246.06
Journal Voucher (Machinery) .....	431.50
Journal Voucher (Gas) .....	1.65
Journal Voucher (Water Rates 1962) .....	25.00
Journal Voucher (Sewer Rates 1962) .....	<u>6.00</u>
TOTAL .....	<u>\$ 2,881.10</u>

2/ Wilmot Park (House)

Expenditure .....\$ 2,952.50

The above expenditure is made up as follows:-

Moncton Foundry Machine (200 Gallon Tank) .....	\$ 30.42
Provincial Secretary-Treasurer (Sales Tax on Tank).....	.84
E. M. Young (Plywood, crack filler, sheet rock, hinges, paint) .....	222.86
Len Bird (Heating System Contract) .....	885.00
J. S. Neill & Sons Ltd. (Cement, brushes, nails, etc.)...	16.08
Hagermans Plumbing & Heating (Couplings, renewing pipes under house).....	18 .96
J. L. Simms & Sons Ltd. (Plywood, paint) .....	205.67
Richards Electric (Wiring House) .....	211.12
H. S. Gill (Lumber) .....	74.02
J. C. Risteen Co. (Lumber) .....	82.15
Journal Voucher (Material) .....	5.79
Journal Voucher (Machinery) .....	12.00
Journal Voucher (Labor) .....	<u>1,020.59</u>
TOTAL .....	<u>\$ 2,952.50</u>

In 1962 the Caretaker's House at Wilmot Park was completely renovated inside and a heating system was installed under contract.

3/ Wilmot Park(Development)

In 1961 considerable work was done to improve the grounds at Wilmot Park and this construction was continued in 1962 with the addition of a path parallel to Rookwood Avenue from Woodstock Road to Saunders Street.

The expenditure amounted to \$2,338.18 and was made up as follows:-

Diamond Construction Co. (106.4 tons crusher dust) .....	\$ 212.80
Bemrose and Kilburn (558.0 cu. yds. top soil) .....	1,004.40
Mr. B. P. MacKay (12 cu. yds. top soil) .....	21.60
Mr. Frank Smith (6 cu. yds. top soil) .....	10.80
Journal Voucher (60 tons crusher dust) .....	100.00
Journal Voucher (Machinery) .....	46.00
Journal Voucher (Labor) .....	<u>942.58</u>
TOTAL .....	<u>\$ 2,338.18</u>

RECREATION

Expenditure .....\$ 2,069.88

The above expenditure does not include all playground expenditure, but only those which appear on department payrolls or costs of materials ordered through the office of the City Engineer. The salaries of the Recreation Director and Playground Supervisors hired for the summer months are not in the above costs, nor does the cost of equipment on the playgrounds appear here.

The above cost is divided as follows:-

Journal Voucher (Gas and Oil) .....	\$ 105.64
Journal Voucher (Machinery) .....	233.00
Journal Voucher (Water, swimming pools) .....	500.00
Journal Voucher (Water, wading pools and rinks) .....	250.00
Journal Voucher (Labor) .....	<u>981.24</u>
TOTAL .....	<u>\$ 2,069.88</u>

The above labor charge of \$981.24 is made up as follows:-

Playgrounds .....	\$ 306.25
Carleton Ward Pool .....	4.47
Henry Park Rink .....	53.59
Henry Park, Carleton Ward .....	186.59
Little League Park .....	3.91
Wilmot Park Rink .....	45.43
Queen's Square, Swimming Pool (Concrete walk) .....	344.18
Forest Hill Rink .....	28.74
Albert Street Rink.....	<u>8.08</u>
TOTAL .....	<u>\$ 981.24</u>

#### CITY HALL

Expenditure .....\$ 415.68

The above cost is of course, only the expenditure for City Hall made through the office of the City Engineer and is not the total expenditure made on City Hall.

The expenditure of \$415.68 is made up as follows:-

Labor at City Hall .....	\$ 221.29
Hagerman's Plumbing and Heating .....	.24
Journal Voucher (Machinery) .....	18.00
Journal Voucher (Material) .....	1.15
Journal Voucher (Sewer Rental 1962) .....	50.00
Journal Voucher (Water Rates 1962) .....	100.00
Journal Voucher (Sprinkler System Charge 1962) .....	25.00
TOTAL .....	<u>\$ 415.68</u>

#### MUNICIPAL HOME

Expenditure .....\$ 42.22

The above expenditure is of course, only part of the Municipal Home costs, but is the expenditure which was made through the office of the City Engineer and is therefore shown in this report.

The above expenditure is made up as follows:-

Journal Voucher (Machinery) .....	\$ 8.00
Journal Voucher (Material) .....	16.84
Journal Voucher (Labor) .....	<u>17.38</u>
TOTAL .....	<u>\$ 42.22</u>

#### SEWERAGE DOMESTIC

*Breakdown  
for 1962*

Gross Expenditure .....	\$ 30,842.32
Credits .....	<u>16,074.26</u>
Net Expenditure .....	<u>\$ 14,768.06</u>

The above credits are made up as follows:-

Material, Labor and Machinery supplied for house connections .....	\$ 14,763.40
Eden Rock Motel (Cleaning Sewer) .....	15.70
Lawson Motors Ltd. (Cleaning floor drain) .....	5.11
Canadian Oil Co. Ltd. (Thawing sewer service) .....	27.99
Nashwaaksis Local Improvement (Sale of 50# Sanfax)....	21.79
Mack Maritime Ltd. (Thawing Septic Tank and Sewer Service) .....	240.29
Gorham Beverages (Cleaning floor drain) .....	4.58
Town of Amherst (Rental on sewer cleaning equipment) ..	633.53
Sussex Ginger Ale (Cleaning floor drain) .....	7.64
Mr. Ian Saunders (Sale of 40' - 4" Transite Pipe)....	16.80
Diamond Construction Co. Ltd. (Cleaning storm drain) ..	8.53
Journal Voucher (Sewer rental Fire Department) .....	100.00
Journal Voucher (Sewer rental City Hall) .....	50.00
Journal Voucher (Sewer rental Wilmot Park) .....	6.00
Journal Voucher (Sewer rental Clark Building) .....	50.00
Journal Voucher (Material) .....	<u>122.90</u>
TOTAL .....	<u>\$ 16,074.26</u>

New customers connected to the City Sewer System in 1962 were 199.

No Domestic Sewer extensions were made under this heading, but do appear under "Capital Account Sewerage Domestic."

All sewer mains were flushed and cleaned, where required, in 1962.

The Fredericton Domestic Sewer System consists of 50.90 miles (11.77 miles in Carleton Ward and 39.13 miles in the City proper) of Sewer Mains and are made up as follows:-

36"	Armco Pipe .....	0.05 miles
36"	Concrete Pipe .....	0.84 miles
30"	Concrete Pipe .....	0.20 miles
24"	Terra Cotta Pipe .....	0.54 miles
18"	Terra Cotta Pipe .....	1.29 miles
15"	Terra Cotta Pipe .....	1.63 miles
12"	Terra Cotta Pipe .....	6.27 miles
10"	Terra Cotta Pipe .....	.92 miles
8"	Terra Cotta Pipe .....	35.38 miles
12"	Transite Pipe .....	0.53 miles
12"	Corrugated Pipe .....	0.07 miles
10"	Transite Pipe .....	0.48 miles
8"	Transite Pipe .....	2.60 miles
6"	C.I.Forced Main .....	0.10 miles

#### OLD BURIAL GROUND

The Old Burial Ground between Brunswick Street and George Street was kept in good condition in 1962.

The tombstones that could be repaired and were not too seriously damaged by vandals, were repaired. The grass was kept mowed and sodding and seeding was done wherever necessary.

Gross Expenditure .....	\$ 2,419.40
Credits .....	<u>382.00</u>
Net Expenditure .....	<u>\$ 2,037.40</u>

The above credit was the amounts received from interest on Trust Funds and Bonds.

The expenditures on the Old Burial Ground were as follows:-

E. M. Young (1 Wheelbarrow) .....	\$ 9.22
City Heat & Electric (Repairs to mower and purchase of mower) .....	204.38
Maritime Electric Co. Ltd. (6 Fluorescent Lights) .....	450.00
J. S. Neill & Sons Ltd. (25' Chain, padlock and rake).....	9.61
Lean Bros. Ltd. (Purchase of mower) .....	88.84
Journal Voucher (Gas and Oil) .....	6.65
Journal Voucher (Machinery) .....	123.00
Journal Voucher (Labor) .....	1,477.70
Journal Voucher (Material) .....	<u>50.00</u>
TOTAL .....	<u>\$ 2,419.40</u>

Under this heading, the following were purchased:-

1 - Lawn Mower #55218 .....\$ 88.84  
1 - Heavy Duty Snapper Mower ... 180.77

CEMENT WALKS

Gross Expenditure .....\$ 24,040.78  
Credits ..... 997.10  
Net Expenditure .....\$ 23,043.68

The above credits of \$997.10 are made up as follows:-

Government of Canada (Winter Works Assistance) .....	\$ 728.60
Y. M. & Y. W. C.A. (Installing entrance walks) .....	238.50
Ivan McCoy (Repairs to broken sidewalk by bulldozer)...	30.00
TOTAL .....	<u>\$ 997.10</u>

For the above expenditure, concrete sidewalks were laid at the following locations:-

<u>Location</u>	<u>Lineal Feet</u>
Windsor Street, Green Road to Fenety Street (west side)...	895
Squires Street (east side).....	950
King's College Road, York Street to Mitchell Street (east side) .....	270
York Street, Oxford Street to Montgomery Street (west side) .....	742
Smythe Street, Hawthorne Terrace to Montgomery Street (west side) .....	1,390
Saunders Street, near Odell Avenue (west side) .....	320
Montgomery Street, York Street to Regent Street (east side) .....	1,265
Inglewood Drive (Sherwood Court to Parkhurst Drive (east side) .....	1,045
Rookwood Avenue, Inglewood Drive to Waggoner's Lane (west side) .....	425
Clark Street, Canadian Pacific Railway to MacLaren Avenue (west side) .....	1,005
Jaffrey Street, Union Street to Canadian Pacific Railway (west side) .....	370
Forest Hill, Vanier Highway to Woodbridge Street (west side) .....	1,185
Beaverbrook Court near Estey and Curtis Co. Building (east side) .....	43
Woodbridge Street (west side) .....	955
Waggoner's Lane, Smythe Street to Rookwood Avenue (east side) .....	1,510
Rookwood Avenue, Waggoner's Lane towards Canadian National Railway (east side) .....	91
TOTAL .....	<u>12,461</u>

The cost of the above sidewalks is apportioned; one-half to the City and one-half to the property owner.

The concrete for the above construction of sidewalks was obtained from Elmtree Concrete Ltd. @ \$14.50 per cubic yard. During the months of October and November, this price was increased by 80 cents per cubic yard due to the addition of 2% Calcium added to the cement mixture, thus making the cost \$15.30 per cubic yard.

The property owner was charged 94¢ per lineal foot which does not include Workmen's Compensation, Pension and Holiday Fund.

#### SANITATION

Gross Expenditure .....	\$ 99,614.76
Credit .....	<u>331.21</u>
Net Expenditure .....	<u>\$ 99,283.55</u>

The above credit is made up as follows:-

Mussens Canada Ltd. (Drill Jig Bushings) .....	\$ 11.21
Rosser Sales and Equipment Ltd. (Sale of Broom Wire)...	200.00
Journal Voucher (Rental on Flusher) .....	100.00
Journal Voucher (Rental on Sweeper) .....	<u>20.00</u>
TOTAL .....	<u>\$ 331.21</u>

Under the heading, "Sanitation" the following projects are included:-

1. Garbage Collection
2. Sanitary Land Fill
3. Street Cleaning

#### 1/ Garbage Collection

The Garbage Collection is operated by H. R. Corey, (Fredericton) Ltd. The amount paid in 1962 for this operation was \$42,450.00.

#### 2/ Sanitary Land Fill

Expenditure .....\$ 16,433.15

The above expenditure is made up as follows:-

James S. Neill & Sons Ltd. (Chain) .....	\$ 14.24
The Daily Gleaner .....	15.60
Forbes and Sloat Ltd. (Crushed Gravel) .....	366.53
Journal Voucher (Material) .....	5.75
Journal Voucher (Machinery) .....	1,037.50
Journal Voucher (City Labor) .....	2,551.81
Mr. Kenneth L. Barker .....	<u>12,441.72</u>
TOTAL .....	<u>\$16,433.15</u>

In 1961 Mr. Kenneth L. Barker was awarded a five-year contract for bulldozing services at the Sanitary Land Fill at a cost of \$12,441.72 per year.

### 3/ Street Cleaning

Gross Expenditure .....	\$ 40,731.61
Credit .....	<u>331.21</u>
Net Expenditure .....	<u>\$ 40,400.40</u>

The labor expenditure charged to this account amounted to \$28,406.12 and city machinery and material charges amounted to \$12,325.49.

The above expenditure of \$12,325.49 is made up as follows:-

Hand Brooms, Shovels, Rakes, Forks, repairs to Carts, etc. ....	\$ 596.63
Main Broom Wire (Canadian Wire Brush Co.) .....	1,047.23
Gutter Broom Wire (Duder and Co. Ltd.) .....	781.77
Rewind with Calabar Fibre .....	581.23
Labor and repairs on 1960 Elgin Sweeper .....	3,350.27
Labor and repair charges on Sicard Flusher .....	296.66
Gas, Oil and Antifreeze to Sweeper and Flusher:-	
4,690.7 Gallons Gas .....	1,172.68
265 Quarts Oil .....	87.45
6 Gallons Antifreeze .....	14.16
Constructing and Painting Waste Cans .....	196.83
Journal Voucher (Machinery) .....	4,148.58
Miscellaneous .....	<u>52.00</u>
TOTAL .....	<u>\$12,325.49</u>

The Elgin Street Sweeper (purchased in 1960) worked 1317 hours. The actual cost for cleaning streets with this machine was \$11,351.13 and was computed as follows:-

✓ Labor and repairs on 1960 Elgin Street Sweeper .....	\$ 3,456.39
✓ Main Broom Wire .....	1,047.23
✓ Gutter Broom Wire .....	781.77
Rewind with Calabar .....	581.23
Gas (1545.7 Gallons) .....	386.43
Oil (92 Quarts) .....	30.36
Water (448,000 Gallons) .....	165.80
Insurance on 1960 Elgin Sweeper .....	54.00
Depreciation on 1960 Elgin Sweeper .....	2,221.56
Labor (including Workmen's Compensation, Holiday and Pension Fund) .....	<u>2,626.36</u>
TOTAL .....	<u>\$ 11,351.13</u>

The operating dates for the above machine (Sweeper) were from March 19, 1962 to December 10, 1962.

In 1955 the City of Fredericton purchased a Sicard Master Flusher with a capacity of 2,250 Imperial Gallons. The price of this machine was \$19,435.00 and was paid for in 1956.

The operating dates for the above mentioned machine (Flusher) were from March 23, 1962 to November 20, 1962.

The Flusher worked 1106 hours. The actual cost for flushing streets with this machine was \$6,257.46 and was computed as follows:-

Labor and repairs to Sicard Flusher .....	\$ 427.82
Gas (3145.0 Gallons) .....	785.25
Oil (173 Quarts) .....	57.09
Antifreeze (6 Gallons) .....	14.15
Water (4,977,000 Gallons) .....	876.01
Insurance .....	58.00
Depreciation .....	1,950.00
Labor (including Workmen's Compensation, Holiday and Pension Fund) .....	<u>2,088.13</u>
TOTAL .....	<u>\$ 6,257.46</u>

Following is the list of machinery used and charged to Sanitation, showing a comparison of repair charges for 1961 and 1962, including tires and tubes:-

Name of Machine	Year Purchased	Repairs 1961	Repairs 1962
Elgin Street Sweeper	1960	2,641.75	3,456.39
Sicard Flusher (2250 I.G.)	1955	776.93	427.82

#### CITY SCALES

Expenditure .....	\$ 215.16
Credit .....	<u>66.60</u>
Net Expenditure .....	<u>\$ 148.56</u>

The above credit of \$66.60 was amount charged to Capital Account Gravel Roads and Administration of Justice and credited to City Scales for weighing Gravel and suspected overweight loads by the Police Department.

The expenditure of \$215.16 was made up of wages for extra help during operator's holidays, thawing scales during the spring of 1962 and relaying floor of Weigh Scales where necessary.

The wages of the Weigh Scale Operator do not appear in the above expenditure.

The City Weigh Scales were completely over-hauled in 1962 by Canadian Fairbanks Morse Company at a cost of \$497.37. This expenditure was not made through the office of the City Engineer and is therefore not shown in this report.

#### FIRE DEPARTMENT

Expenditure ..... \$ 10,162.80

The above expenditure is made up as follows:-

Journal Voucher (2,763.1 Gallons Gasoline) .....	\$ 690.80
Journal Voucher (Sewer Rental 1962) .....	100.00
Journal Voucher (Water Charges 1962) .....	300.00
Journal Voucher (378 hydrants, rental) .....	<u>9,072.00</u>
TOTAL .....	<u>\$ 10,162.80</u>

#### ADMINISTRATION of JUSTICE

Expenditure ..... \$ 3,355.34

Journal Voucher (10,809.9 Gallons Gasoline) .....	\$ 2,702.51
Journal Voucher (150 Quarts Oil) .....	49.50
Journal Voucher (Machinery) .....	222.50
Journal Voucher (Material) .....	56.70
Journal Voucher (Labor) .....	<u>324.13</u>
TOTAL .....	<u>\$ 3,355.34</u>

#### LOYALIST BURIAL GROUND

On the recommendation of the Park Committee of the Fredericton Town Planning Commission, the Loyalist Cemetery on the "Flats" adjacent to the back of the lots in Elmcroft Place was improved in 1958.

In 1962, the upkeep expenditure amounted to \$200.00. It is intended that this area be used as a tourist attraction with pedestrian traffic only from the Little League Ball Field on the "Flats."

### CLEARING PARK AREAS

In 1962 the City of Fredericton acquired two Parks, one in Carleton Ward (Noble subdivision) and the other from Fredericton Housing Ltd. (Skyline Acres) under the subdivision by-law.

Expenditure .....\$ 833.33

The above expenditure is made up as follows:-

Journal Voucher (Machinery) .....	\$ 26.00
Journal Voucher (Diesel Fuel) .....	15.70
Journal Voucher (Labor) .....	<u>791.63</u>
TOTAL .....	<u>\$ 833.33</u>

For the above expenditure, dead trees were cut where necessary, all debris burned and the Parks were put in a satisfactory condition. The above work was done under Winter Works Assistance..

### J. T. CLARK MEMORIAL BUILDING

Expenditure .....\$ 177.31

The expenditure is made up as follows:-

Journal Voucher (Labor) .....	\$ 21.31
Journal Voucher (Machinery) .....	6.00
Journal Voucher (Water charges for 1962) .....	100.00
Journal Voucher (Sewer Rental) .....	<u>50.00</u>
TOTAL .....	<u>\$ 177.31</u>

### CONTINGENT

Expenditure .....\$ 39.96

In 1960 Lord Beaverbrook donated a fountain to the City of Fredericton. This fountain was erected in 1961 on the Green on Queen Street, approximately 100 feet east of the Robert Burns Monument.

The above expenditure was for labor used on removing and placing a protective covering on the fountain during the winter months.

### QUEEN'S SQUARE IMPROVEMENT

Expenditure ..... \$ 547.42

For the above expenditure a path was partially reconstructed with crusher dust across Queen's Square. This work was done under Winter Works Assistance. The work will be completed in the spring, when weather conditions permit same.

### MUNICIPAL PARKING LOT

In 1958 the City of Fredericton constructed a Parking Area on the north side of Brunswick Street, between York Street and Carleton Street, just east of J. Clark & Sons property.

The expenditure for the upkeep of the above Parking Lot for 1962 as shown through the office of the City Engineer was \$126.23 and was made up as follows:-

Journal Voucher (Labor) .....	\$ 82.23
Journal Voucher (Machinery) .....	<u>44.00</u>
TOTAL .....	<u>\$ 126.23</u>

The above labor charge was for plowing snow and keeping the parking lot in a satisfactory condition.

### STREET LIGHTS

The City Street Lighting system on December 31, 1962 consisted of:-

1. A Series Lighting System on the south side of the Saint John River.
2. A Multiple Lighting System on the south side of the Saint John River.
3. A Multiple Lighting System in the C.N.R. Subway.
4. A Series Lighting System in Carleton Ward.
5. A Multiple Lighting System in Carleton Ward.

### System No. 1.

The Series Lighting System consists of some 22.48 miles of line and 292 lamps. This system is divided into four circuits, one of which is controlled by a 25 K.W. constant current transformer, the other three by 15 K.W. constant current transformers. Three of these transformers along with the main switch-board are housed in a building, the site of which was purchased from Willett Fruit Company on Carleton Street, south of Needham Street. The fourth transformer is on a pole situated on Regent Street, between King's College Road and Albert Street and controls the rear circuit for Maryland Heights.

The four circuits are made up as follows:-

<u>Lower Front Circuit</u>	<u>Load</u>	<u>Transformer Size</u>
23-600 C.P.Lamps @ .350 K.W. demand	8.05 K.W.	
37-250 C.P.Lamps @ .160 K.W. demand	5.92 K.W.	
	<u>13.97</u> K.W.	15 K.W.
<u>Upper Front Circuit</u>		
32-250 C.P.Lamps @ .160 K.W. demand	5.12 K.W.	
10 - Fluorescent Lamps @ .50 K.W. demand	5.00 K.W.	
	<u>10.12</u> K.W.	15 K.W.
<u>Upper Rear Circuit</u>		
30-600 C.P.Lamps @ .350 K.W. demand	10.50 K.W.	
73-250 C.P.Lamps @ .160 K.W. demand	11.68 K.W.	
4 - Fluorescent Lamps @ .50 K.W. demand	2.00 K.W.	
	<u>24.18</u> K.W.	25 K.W.
<u>Maryland Heights</u>		
6-600 C.P.Lamps @ .350 K.W. demand	2.10 K.W.	
77-250 C.P.Lamps @ .160 K.W. demand	<u>12.32</u> K.W.	
	<u>14.42</u> K.W.	15 K.W.

### System #2 and #5

The Multiple Lighting System as of December 31, 1962 was as follows:-

234-500 Watt Incandescent Units @ \$60.00 per light per year  
182-200 Watt Incandescent Units @ \$40.00 per light per year  
58-400 Mercury Vapor Units @ \$90.00 per light per year  
28-250 Mercury Vapor Units @ \$60.00 per light per year  
89-4 ft. Fluorescent Units @ \$60.00 per light per year  
19-6 ft. Fluorescent Units @ \$75.00 per light per year

Each of the above units, excepting the Fluorescents, consists of either a 500, 400 Mercury, 250 Mercury or 200 Watt 125 Volt lamp, set in a nouvalex luminair fixture and hung on a bracket attached to the pole. These units are controlled

by a control switch which is energized by the series lighting system. The system was installed and is maintained by the Maritime Electric Company; the City paying the Company \$60.00 per year for each 500 Watt Unit, \$40.00 per year for each 200 Watt Unit, \$90.00 per year for each 400 Mercury Vapor Lamp, \$60.00 per year for each 250 Mercury Vapor Lamp, \$60.00 per year for each 4 foot Fluorescent Lamp and \$75.00 per year for each 6 foot Fluorescent Lamp.

#### System #3

System #3 consists of 4 Multiple Lights, each of 150 Watt strength, located in the C.N.R. Subway. This system is also controlled by a control switch which is energized by the series lighting system.

#### System #4

System #4 is a Series Lighting System which had formerly been installed in the Town of Devon and consists of 8.59 miles of line and 196 lamps. The system originally comprised three circuits, but in 1960 a new circuit was added due to change from 2500 lumen series lamps on Gibson Street to Fluorescent Series Lamps. The three former circuits are controlled by three 15 K.W. constant current transformers, located on a pole platform on Pine Street, while the new circuit is controlled by a 15 K.W. constant current transformer, situated on a pole on the road leading from MacLaren Avenue to the Carleton Ward School.

The four circuits comprise the following areas:-

Carleton Ward (Up) mainly from Hughes Street west; Carleton Ward (Central) mainly between Hughes Street and Pine Street, including Dobie subdivision; Carleton Ward (Down), Pine Street east to Irving Oil Company premises and between Canadian Pacific Railway tracks and Union Street and Carleton Ward (Rear) including Gibson Street from Devon Avenue to the City line and the easterly extremities of the Dobie subdivision.

<u>Carleton Ward (Up)</u>	<u>Load</u>	<u>Transformer Size</u>
2-600 C.P.Lamps @ .350 demand	.70 K.W.	
38-250 C.P.Lamps @ .160 demand	6.08 K.W.	
15-Fluorescent Lamps @ .50 demand	7.50 K.W.	
	14.28 K.W.	15 K.W.
<u>Carleton Ward (Central)</u>		
46-250 C.P.Lamps @ .350 demand	7.36 K.W.	
12-Fluorescent Lamps @ .50 demand	6.00 K.W.	
	13.36 K.W.	15 K.W.

<u>Carleton Ward (Down-Front)</u>	<u>Load</u>	<u>Transformer Size</u>
2-600 C.P.Lamps @ .350 demand	.70 K.W.	
21-250 C.P.Lamps @ .160 demand	3.36 K.W.	
19-Fluorescent Lamps @ .50 demand	9.50 K.W.	
	<u>13.56</u> K.W.	15 K.W.
<u>Carleton Ward (Down-Rear)</u>		
20-250 C.P.Lamps @ .160 demand	3.20 K.W.	
21-Fluorescent Lamps @ .50 demand	<u>10.50</u> K.W.	
	<u>13.70</u> K.W.	15 K.W.

The power for System 1, 3 and 4 is purchased from the Maritime Electric Company at a contract price as agreed upon in a contract between the Maritime Electric Company and the City of Fredericton, made in 1957. This contract also covers the maintenance cost of \$20.00 per year per mile of pole line which is paid for by the City to the Company.

All materials such as wire, poles, pole fixtures, lamps, lamp fixtures, transformers, etc. are paid for by the City, installed by the Maritime Electric Company, under their contract price for maintenance. Any new installations that require an enlargement of circuits must be paid for by the City of Fredericton, including labor and material.

The Street Lighting costs for the year 1962 are as follows:-

Gross Expenditure .....	\$ 47,522.27
Credits .....	<u>532.89</u>
Net Expenditure .....	\$ 46,989.38
1962 Appropriation .....	<u>47,875.00</u>
CREDIT .....	<u>885.62</u>

The above credits of \$532.89 are made up as follows:-

Canadian Wire and Cable Co. (Return of Wooden reel)....	\$ 12.00
Maritime Electric Co. (140' Single conductor #6 Cable).	<u>74.20</u>
Administration of Justice (Amount received for broken lights) .....	5.30
Insurance (Transformer repairs) .....	<u>441.39</u>
TOTAL .....	<u>\$ 532.89</u>

The Street Lighting expenditure of \$47,522.27  
is made up as follows:-

10 -	No. F72T12/CW/HO Fluorescent Lamps .....	\$ 34.27
4 -	No. F48PG17/CW/HO Fluorescent Lamps .....	20.35
116 -	No. F48T12/CW/HO Fluorescent Lamps .....	269.46
9 -	H400W33 Mercury Vapor Lamps (Bridge) ...	149.66
96 -	600 C. P. Series Lamps .....	106.21
588 -	250 C. P. Series Lamps .....	388.00
4 -	500 Watt Lamps .....	5.00
4 -	100 Watt Lamps .....	2.82
	Replacement Cost 1962 .....	975.77

Power Costs for subways and series lighting, Dec. 22/61 to December 28, 1962 (419,910 K. W. Hours) ..... 10,513.20

Charges on Multiple Fixtures owned and operated by the Maritime Electric Company @ \$40.00,	
\$60.00, \$75.00 and \$90.00 per light per year ....	33,249.54
Maintenance and Contract of Pole Line .....	621.36
Maintenance of Lamp Fixtures, including such articles as lamp standards, lamp brackets, heads, sockets, shades, cutouts, time switches, etc. ....	296.17
Material and Labor used in major repairs and new installations .....	834.50
Light Bill - Fredericton Highway Bridge .....	676.56
Cenotaph Light Bill .....	147.73
Journal Voucher (Labor) .....	207.44
TOTAL .....	\$ 47,522.27

Total cost of Series System - \$14,272.73

During the year 1962, various changes and extensions were made to the City of Fredericton Street Lighting System and are listed as follows:-

- 7 - 250 Mercury Vapor Units on Canterbury Drive
- 1 - 250 Mercury Vapor Unit on Chelsea Court
- 2 - 250 Mercury Vapor Units on Sheffield Court
- 2 - 250 Mercury Vapor Units on Leicester Street
- 1 - 500 Watt Incandescent Unit, corner Tower Road and Lincoln Road
- 3 - 200 Watt Incandescent Units, Wilsey Road
- 1 - 500 Watt Incandescent Unit on Prince Street
- 4 - 4' Fluorescent Units on Experimental Farm Hill
- 1 - 6' Fluorescent Unit on Experimental Farm Hill
- 1 - 500 Watt Incandescent Unit on Inglewood Drive
- 10 - 200 Watt Incandescent Units on Hanwell Road
- 1 - 250 Mercury Vapor Unit on Albert Street Extension
- 1 - 6' Fluorescent Unit in front of Victoria Public Hospital
- 2 - 500 Watt Incandescent Units near C.N.R., Hanwell Road
- 1 - 500 Watt Incandescent Unit, corner Waggoner's Lane and Rookwood Avenue
- 1 - 500 Watt Incandescent Unit on Charlotte St., east of Smythe St.
- 7 - 200 Watt Incandescent Units, Waggoner's Lane
- 8 - 250 Mercury Vapor Units on Connaught Street
- 3 - 250 Mercury Vapor Units on Manchester Court
- 3 - 250 Mercury Vapor Units on Cambridge Crescent
- 3 - 4' Fluorescent Units on Smythe Street
- 1 - 6' Fluorescent Unit on Smythe Street
- 1 - 6' Fluorescent Unit at York Arena Entrance, Barker Street

Removals

- 1 - 200 Watt Incandescent Unit from corner Tower Road and Lincoln Road
- 5 - 200 Watt Incandescent Units from Experimental Farm Hill
- 1 - 500 Watt Incandescent Unit from Chancery Lane
- 2 - 200 Watt Incandescent Units from Lincoln Road
- 8 - 200 Watt Incandescent Units from Connaught Street
- 2 - 200 Watt Incandescent Units from U. N. B. Campus

The total per capita charge for Street Lighting for 1962 population of 19,683, as per 1961 census, is:-

$$\frac{46,989.38}{19,683} = \$ 2.39$$

TABLE SHOWING COMPARATIVE YEARLY COST IN  
STREET LIGHTING

<u>Year</u>	<u>Total Yearly Cost</u>	<u>Yearly Appropriation</u>
1948	15,269.12	15,000.00
1949	15,720.93	16,000.00
1950	25,300.30	20,000.00
1951	23,848.42	20,000.00
1952	25,211.39	25,000.00
1953	25,487.71	27,000.00
1954	23,812.54	27,000.00
1955	28,542.77	27,000.00
1956	31,877.10	27,700.00
1957	33,101.56	29,000.00
1958	36,038.79	33,500.00
1959	39,907.64	37,500.00
1960	44,481.71	44,010.00
1961	46,835.74	46,965.00
1962	46,989.38	47,875.00

## W A T E R

There are two separate water systems in the City of Fredericton.

1. During 1962 the south side of the Saint John River derived its water from three Gravel Wells located in Wilmot Park, namely No. 1, No. 3 and No. 4.

No. 2 Well on Saunders Street cannot be used in its present state because of the prohibitive manganese content, which causes "Red" water and stains linen, etc. and is not acceptable as a Municipal supply. The electric power has been discontinued for the operation of this Well.

2. The water supply on the north side of the Saint John River is derived from three Wells. Two of these Wells are outside the City limits and pump into open reservoirs or can be directed into the 1,000,000 I. G. Reservoir, completed by Maritime Engineering Ltd. in 1959. Both of these Wells are used as standbys. The third Well is located on Bridge Street.

Preliminary results of investigation into complaints of rusty water on Barker Street indicated a manganese and iron build-up in dead-end mains.

This condition appears to prevail predominantly in dead-end mains and would indicate that a reaction is taking place between the water and the main, due to lack of circulation and the presence of manganese in the water.

Further tests in dead-end mains on the westerly end of Union Street also shows that there is a manganese and iron build-up taking place, although the complaints of rust have been negligible, compared to Barker Street.

Immediate action taken, was the re-activating of the Rifle Range Well and reduction of output and use of the Bridge Street Well, which appears to be the source of the manganese and iron contamination.

The City Council authorized the drilling of a new Well on higher ground to ensure an ample supply of water for Carleton Ward, as well as trying to avoid areas that are known to contain manganese deposits.

The new Well is being drilled at the site of the 1,000,000 Imperial Gallon Reservoir, off Highland Avenue, under the Winter Works Incentive Program and if an ample and satisfactory supply of water is found at this location, the Well will be put into production in 1963.

Chlorine has been added to the Water in Carleton Ward since the reports from the City Analyst showed objectionable Coliforms in the water. A gas type chlorinator is in use at the Bridge Street Well and a liquid solution (HTH) is added at the Killarney Road Well.

The water costs for the City of Fredericton are divided into two headings:-

"WATER ORDINARY"

and

"WATER PUMPING STATION"

WATER ORDINARY

This account includes all expenditures, other than Capital expenditure for water and expenditures other than the Pumping Station and Pumping Station grounds and includes all current water expenditures in Carleton Ward.

The expenditure under this heading is made up as follows:-

Gross Expenditure .....	\$ 80,349.94
Credits .....	<u>21,206.93</u>
Net Expenditure .....	<u>\$ 59,143.01</u>

The Credits are made up as follows:-

Work done for and materials sold to private parties when installing a water service over ground other than City property or when the material is to be used on parts of the system which do not belong to the City .....	\$ 10,133.89
Canadian Fairbanks Morse (50% credit on Cylinder head) .....	242.31
Hagerman's Plumbing and Heating Ltd. (15' - 1" copper pipe) .....	11.25
Canadian Oil Co. Ltd. (Thawing Water, Service Station corner Friel and Union Streets) .....	7.64
University of New Brunswick (2 - 6" Repair Sleeves)...	71.42
Firefighter's Association (Amount received from Devon Ball Park Water Service) .....	25.00
Mr. Ian Saunders (Sale, 1-5/8" x 3/4" Union) .....	1.30
Mr. Sidney Satter (9090# Scrap Iron) .....	45.45
Mr. Hicks (Damage to Hydrant) .....	95.05
Diamond Construction Co. (Tapping water main) .....	6.34
W. J. Bearisto Co. Ltd. (4 Unions 5/8" Copper) .....	5.20
Hagerman's Plumbing & Heating Ltd. (Water used filling B. and A. Oil Tanks).....	25.00
Diamond Construction Co. Ltd. (6" Repair sleeve and labor) .....	56.38
Thomas Gough (20' - 5/8" Copper Tubing) .....	<u>5.00</u>
Carried Forward .....	\$ 10,731.23

Brought Forward .....	\$ 10,731.23
Fredericton Housing Limited (Damage to Hydrant) .....	42.96
Patrick A. Ryan (Damage to Hydrant) .....	43.18
Journal Voucher (Rental on hydrants - Fire Dept.).....	9,072.00
Journal Voucher (Water supplied to City owned buildings, swimming and wading pools)	1,250.00
Miscellaneous (Changing and repairing frozen water meters at various locations) .....	<u>67.56</u>
TOTAL .....	<u>\$ 21,206.93</u>

The Gross Expenditure is made up as follows:-

City Payroll for Hydrants .....	\$ 3,482.61
City Payroll for Meters .....	4,656.81
City Payroll for Water Ordinary .....	19,559.71
City Payroll for Carleton Ward Pumping Station ....	1,083.50
City Payroll for Lincoln Booster Pump .....	603.28
City Payroll for Smythe Street Booster Pump .....	<u>540.46</u>
Total Payrolls ....	\$ 29,926.37
Material and other charges .....	<u>50,423.57</u>
Gross Expenditure .	<u>\$ 80,349.94</u>

No water extensions were laid under this heading, but they appear under "Capital Account Water."

Sprinkler Systems were installed this year at the following locations:-

General Dairies, Union Street  
Levine's Limited, Westmorland Street  
Lady Dunn Foundation, (Theatre) Queen St.

There are at present 60 Sprinkler Systems in the City. The City charge for water supplied for Sprinkler Systems is \$25.00 per year.

#### Hydrants:-

There are in the City, 402 hydrants, 299 on the south side of the Saint John River and 103 on the north side. The credit for rental charge on these hydrants appear under credits to Water Ordinary.

New Hydrants this year were installed at the following locations:-

<u>Location</u>	<u>Number</u>
Canterbury Drive .....	2
Essex Street .....	1
Coventry Crescent .....	1
Manchester Court .....	1
Colter Court .....	1
Waggoner's Lane .....	1
Beechwood Crescent .....	1
Smythe Street .....	4
York Street .....	1
Pederson Crescent .....	1
Churchill Row .....	1
Noble Street (Carleton Ward) .....	2
Wilsey Road (Industrial Road) .....	5
University of New Brunswick Campus (Private) .....	1
Cambridge Crescent .....	1
TOTAL .....	<u>24</u>

#### Meters:-

There are 4178 water services in the City, 538 are charged under flat rate and 3,640 on meter rate.

The labor cost per meter for installing, reading, repairing, etc. is \$1.28 for 1962.

In 1962, 31 discontinued services were dug out and shut off at the main.

All meters are read twice a year and bills are sent out twice a year. 179 meters are read once a month, although they are billed twice a year. These are meters of customers who ordinarily have large consumptions and where a stopped meter or meter digit turned over without being noticed would mean considerable loss of revenue to the City. All meters on Military Buildings are included in the group of monthly meter readings.

#### Meters in stock, December 31, 1962:-

5/8" Meters	- Repaired and fit for service ...	39
3/4" Meters	- Repaired and fit for service ...	1
1" Meters	- Repaired and fit for service ...	2
1 1/4" Meters	- Repaired and fit for service ...	8
3" Meters	- Repaired and fit for service ...	1
New 1/2" Meters	.....	117
New 1" Meters	.....	3
New 1 1/2" Meters	.....	3

#### Distribution System:-

New services installed 1962 .....	181
Old Services relaid 1962 .....	38
Old Services repaired 1962 .....	1
Frozen services that had to be thawed .....	18

The Fredericton distribution system consists of 52.93 miles of water main, made up of the following sizes:-

18" Main .....	0.98 miles
14" Main .....	0.33 miles
12" Main .....	5.08 miles
10" Main .....	3.99 miles
8" Main .....	10.64 miles
6" Main .....	26.23 miles
4" Main .....	5.41 miles
3" Main .....	<u>0.27</u> miles
TOTAL .....	<u>52.93</u> miles

This does not include the water main installed by the National Defence at the Exhibition Grounds, Military Depot #7, now Department of Health and Social Welfare, Woodstock Road and the Army Garage, Waggoner's Lane.

The supply system consists of .36 miles of 14" Cast Iron Pipe, extending from the Well sites at Wilmot Park to the Pumping Station and .10 miles of 15" Steel Pipe extending from the Intake Pier in the Saint John River to the Pumping Station.

Also included in the above expenditure was the purchase of the following meters from Neptune Meters Ltd.: -

- 200 - 5/8" x 1/2" Trident, C.I.B. cold water meters, straight reading, imperial gallons, complete with couplings included
- 3 - 2" Trident C.I.B. cold water meters, straight reading, imperial gallons, complete with flanges included
- 3 - 1½" Trident C.I.B. cold water meters, straight reading, imperial gallons, complete with flanges included
- 3 - 1" Trident C.I.B. cold water meters, straight reading, imperial gallons, complete with flanges included

The number of meters installed in 1962 was 219.

Following is the list of vehicles used and charged to Water Ordinary, showing a comparison of repair charges for 1961 and 1962, including tires and tubes.

<u>Name of Vehicle</u>	<u>Year Purchased</u>	<u>Repairs 1961</u>	<u>Repairs 1962</u>
Dodge 1 Ton	1958	477.25	508.47
International ½ Ton	1958	465.65	514.76
Chevrolet ½ Ton	1959	33.85	70.14

80,000

76,000

72,000

68,000

64,000

60,000

56,000

52,000

48,000

44,000

40,000

36,000

32,000

28,000

24,000

20,000

16,000

12,000

8,000

4,000

0

1962 LABOR AND MATERIAL  
1961 LABOR AND MATERIAL

1962 LABOR  
1961 LABOR

JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

WATER ORDINARY Costs 1961 AND 1962.

### WATER PUMPING STATION

Gross Expenditure .....	\$ 48,298.53
Credit .....	<u>25.00</u>
Net Expenditure .....	<u>\$ 48,273.53</u>

The above credit was the amount paid by Hagerman's Plumbing and Heating for filling tanks at B. and A. Oil Company.

The above expenditure is divided as follows:-

City Payrolls for salaries of employees at Pumping Station .....	\$ 19,997.64
Work done by other City employees in and around Pumping Station .....	<u>543.95</u>
TOTAL CITY PAYROLLS .....	\$ 20,541.59
Material and Workmen's Compensation charges .....	<u>27,756.94</u>
TOTAL .....	<u>\$ 48,298.53</u>

The material cost of \$27,756.94 is itemized as follows:-

Item # 1 - Light and Power supplied by Maritime Electric Co. (635,600 K.W. Hours) ...	\$ 12,060.79
Item # 2 - Light and Power supplied by Maritime Electric Co. at Wells in Park .....	6,442.42
Item # 3 - Heating (5079.1 Gallons Furnace Oil) ...	763.10
Item # 4 - Gasoline (300 Gallons) .....	69.87
Item # 5 - Liquid Chlorine (1350 lbs.) .....	218.99
Item # 6 - Oil (1 Case H D x 10) .....	8.40
Item # 7 - Maintenance and repair to buildings, machinery and intake pier .....	840.13
Item # 8 - New installations .....	---
Item # 9 - Supplies, Packing Rags, Lamps, etc. ....	121.16
Item #10 - Stationary, Forms, Charts, Chemicals, Ink, etc. ....	247.44
Item #11 - Workmen's Compensation .....	591.68
Item #12 - E. W. Hagerman (City Analyst Salary) 11 months .....	1,384.24
Item #13 - Lime .....	---
Item #14 - Diesel Fuel .....	---
Item #15 - Inspection and reconditioning of Pumping Equipment, Well #1 (Material only) .....	642.67
Item #16 - Maintenance of Pumping Equipment at Wells .....	257.91
Item #17 - Recovery of Casing from Test Well ....	594.00
Miscellaneous - Telephone, trucking, machinery, materials from other City Departments, uniforms, masks, etc. ....	680.77
Journal Voucher (Holidays, Sick Leave, Pumping Station Operators) ...	<u>2,833.37</u>
TOTAL .....	<u>\$ 27,756.94</u>

In reference to Item #15, Inspection and Reconditioning of Pumping Equipment, the total expenditure amounted to \$1,134.73 and was made up as follows:-

International Water Supply Co. ....	\$ 635.80
Journal Voucher (City Labor) .....	430.14
Journal Voucher (City Machinery)...	56.00
Acadia Marble (5 Gallons Hardfast Cement) .....	<u>12.79</u>
TOTAL .....	<u>\$ 1,134.73</u>

Included in the above expenditure, Item #7 were the following:-

1. Painted Walls in Pump Room
2. Painted Pumps in Pump Room
3. Painted Walls and Ceiling in Oil Room
4. Painted Entrance Room Walls and Ceiling
5. Renovated one side wall of Entrance Room
6. Repaired grounds and fence at Pumping Station
7. Painted Diesel Generating Plant

The Pumping Station plant at the present time has all the Wells operating automatically on demand. The St. John River supply operates manually and the supply must pass through the Filter Plant for purification. This supply will only be used in an emergency, that is, when the Wells are not operating due to failure, etc. or when the demand for water is higher than the Wells can produce or during a prolonged electrical interruption, probably longer than 24 hours.

During a 24-hour interruption, the 2,000,000 Imperial Gallon Reservoir will supply the system unless there is a serious break or a fire where a high consumption of water is required.

COMPARISON OF WATER PUMPED AND COSTS  
FOR SOUTH SIDE OF RIVER  
FOR LAST NINETEEN YEARS

<u>Year</u>	<u>Water Pumped Imperial Gallons</u>	<u>Gross Expenditure at Pumping Station</u>	<u>Pumping Station cost per 1,000 Gallons</u>	<u>Gross Expenditure</u>
1944	295,115,000	22,926.61	7.7 cents	
1945	321,355,000	23,900.14	7.7 cents	
1946	338,979,000	25,640.43	7.5 cents	
1947	319,243,000	37,123.42	11.6 cents	
1948	322,339,000	31,050.97	9.6 cents	
1949	345,320,000	30,513.39	9.8 cents	
1950	372,412,000	44,548.09	11.9 cents	
1951	367,130,000	35,058.57	9.5 cents	
1952	339,330,000	40,476.10	11.9 cents	
1953	351,310,000	36,179.74	10.3 cents	
1954	388,540,000	40,403.81	10.4 cents	
1955	376,591,000	48,063.07	12.7 cents	
1956	448,096,000 (13 Months)	41,351.18	9.2 cents	
1957	469,185,000	42,465.50	9.0 cents	
1958	454,765,000	42,888.56	9.4 cents	
1959	487,704,000	47,923.19	9.8 cents	
1960	520,081,000	50,280.09	9.6 cents	
1961	510,250,000	45,081.88	8.8 cents	
1962	499,880,000	48,298.53	9.7 cents	

The column in the preceding comparison, showing Imperial Gallons pumped, does not include water used from Wells in Carleton Ward.

By taking the average consumption of Carleton Ward as 300,000 Gallons per day, the estimated water pumped for 12 months from these Wells was 109,500,000 Imperial Gallons.

The total amount of water pumped from January 1, 1962 to December 31, 1962 therefore, for the whole City, is 609,380,000 Imperial Gallons.

The total net water expenditure for the City from January 1, 1962 to December 31, 1962 is \$107,416.54.

Therefore, the net cost to pump and deliver to the customer, 1,000 Imperial Gallons of Water from January 1, 1962 to December 31, 1962 is  $\frac{107,416.54}{609,380} = 17.6$  cents.

All the preceding costs shown under "Water Pumping Station" and "Water Ordinary" do not include the cost of billing and collecting water bills or any other overhead charge included in the City Government cost, nor do they include bond payment or sinking fund charges.

The Water Pumping Station was under the supervision of the Plant Superintendent, Mr. George Clark.

Accompanying this report is the report of Mr. E. W. Hagerman, City Analyst, on the Fredericton Water Supply from January 1, 1962 to December 31, 1962.

Respectfully submitted,

*A. L. Smith*  
City Engineer.

## FREDERICTON WATER SUPPLY

Year 1962

January 1st to December 31st

The quality of Fredericton's water supply has been generally good for 1962. It satisfies the requirements of the Public Health Service Drinking Water Standards as laid down by the American Public Health Association and the American Water-works Association.

Few cities have water of a quality equal to the Fredericton supply. It comes clear and cold (46 deg. F.) from six wells, three rock wells on the North and three gravel packed on the South side of the Saint John River, with the old Filter Plant for emergency use. A seventh well, too heavily charged with manganese for general use, can likewise be used if need should arise.

Some variation in the hardness may be noticed, for this depends on the proportions in which the waters from the different wells are mixed. The South Fredericton supply varies from 80 to 100 parts per million and on the North side from 80 to 120 parts per million. The Waterworks Association of America says in its manual of water quality and treatment, "Water with a total hardness of 70 to 100 parts per million is considered entirely satisfactory for general consumption and is frequently referred to as absolutely soft water."

Customers complain, occasionally, of chlorine tastes which are often offset by the next door neighbour's assertion that "the water tastes fine in our house." Because there are no undesirable tastes as the water leaves the pumping station and because the complaints are so scattered, it seems reasonable to believe that the trouble is local.

Tastes may be due to the solution of scale, by the new well water (wells in operation 1955). Detergents, improperly rinsed from dishes will cause medicinal tastes. Many people, when washing dishes, do not rinse, but allow a short draining period and then wipe dry. This method does not completely remove all chemicals of the detergent from the surface. Modern dishwashing machines give at least three separate rinses.

Some trouble was experienced in late Summer with tastes and brown stains from the Carleton Ward supply. Here the trouble was due to a build-up of iron, apparently dissolved from the pipes, because there is very little in the well and some manganese concentration in the dead ends. The condition has been rectified by using a minimum amount of Bridge Street water and taking the greater part from the two old wells.

Chlorine is present in both supplies in small amounts. The residual at the pumping station in South Fredericton is from 0.1 to 0.2 parts per million of free chlorine and about the same at the Killarney and Bridge Street wells in North Fredericton. These quantities diminish as the distance from the point of application increases. It is desirable to carry a residual to the end of the system but raising the dose at the present point of application would cause tastes in the immediate vicinity so if water mains continue to extend into the country it

will be necessary to establish secondary chlorinating stations to treat these distant points.

In the examination for bacterial purity, very few positive results occurred. Some build-up, in Coliforms, was found in newly laid pipe but these conditions were corrected by an increased chlorine dose applied locally.

Tests were made on 72 samples to indicate the presence or not of the Coliform group of bacteria. Because this group is present in sewage and because it is easy to detect its presence in potable water, it is used as a quantitative indicator of pollution.

Following is a brief of the United States Treasury Standards test procedures as applicable to Fredericton water.

1. A sample consists of 5 Portions.
2. Each Portion contains 10 cc of water from the Sample.
3. The Confirmed test shall be used to show the presence or absence of the Coliform Group. Primary media is Lactose Broth and the Confirmatory media is 2% Brilliant Green Bile.

#### APPLICATION OF THE TEST

1. Of all the 10 cc. portions examined per month, not more than 10% shall show positive.
2. When less than 20 samples per month are examined, one sample per month may have 3 positive portions out of the 5 portions making up the sample.

A list of sampling stations is attached.

(Signed) E. W. Hagerman.

City Analyst.

Fredericton, N. B.  
February 16, 1963.

<u>Date of Sample</u>	<u>Origin of Sample</u>	<u>Positive reactions only will be recorded</u>	<u>All others Negative</u>
January 5	Greer and Lawson, Gibson St.		
January 10	U.N.B. Engineering Building		
January 15	MacLaren Ave. Fire Station		
January 20	99 Smith Street (North Carleton Ward)		
January 24	127 Charlotte Street		
February 2	U.N.B. Engineering Building		
February 6	127 Charlotte Street		
February 11	Killarney Pump, Carleton Ward		
February 11	MacLaren Ave. Fire Station		
February 17	MacLaren Ave. Fire Station		
February 27	99 Smith St., Carleton Ward		
March 3	277 Gibson Street		
March 7	99 Smith Street		
March 13	Trites Florist Shop, Woodstock Rd.		
March 18	MacLaren Ave. Fire Station		
March 28	Greer and Lawson, Gibson St.		
April 5	Irving Service Station, (Fraser Mill)		
April 13	99 Smith St., Carleton Ward		
April 18	White Rose Station (N. Carleton Ward)		
April 21	Killarney Road Well, Carleton Ward		
April 24	Killarney Road Well		
April 24	#3 and #4 Wells mixed at Pumping Sta.		
May 3	Killarney Road Well		
May 3	99 Smith St., Carleton Ward		
May 8	Killarney Road Well		
May 8	277 Gibson Street		
May 22	Killarney Road Well		
May 22	99 Smith Street		
May 28	Killarney Road Well		
May 28	99 Smith Street		
June 1	U.N.B. Engineering Building		
June 5	277 Gibson Street		
June 11	Greer and Lawson, Gibson St.		
June 18	99 Smith Street		
June 18	Corner Barker and Titus Street		
June 22	Greer and Lawson, Gibson St.		
July 5	Killarney Road Well	.....	1 Plus
July 15	Killarney Road Well	.....	1 Plus
July 15	66 McKeen Street		
July 18	805 Irvine Street		
July 20	Killarney Road Well		
July 25	99 Smith Street		
July 27	Killarney Road Well		
August 5	U.N.B. Engineering Building		
August 14	66 McKeen Street		
August 19	MacLaren Ave. Fire Station		
August 25	120 Titus Street		
August 30	Greer & Lawson, Gibson St.		
August 30	Killarney Road Well		

September 1	Greer and Lawson, Gibson St.	
September 1	Killarney Road	
September 6	?? Canterbury Drive )	1 Plus)
September 13	55 Cambridge Crescent) Forest Hill	5 Plus) New Pipe
September 19	Leicester Street )	
September 25	55 Cambridge Crescent)	
October 1	U.N.B. Engineering Building	
October 8	55 Cambridge Crescent	
October 12	MacLaren Ave. Fire Station	
October 18	U.N.B. Engineering Building	
October 24	55 Cambridge Crescent	
October 31	132 Myles Street, Carleton Ward	
October 31	963 Union Street	
November 3	Bridge Street Well	
November 8	Texaco Bulk Station, Wilsey Road	
November 13	U.N.B. Engineering Building	
November 22	310 Union Street	
November 28	MacLaren Ave. Fire Station	
December 4	U.N.B. Engineering Building	
December 12	284 Argyle Street	
December 16	127 Charlotte Street	
December 21	Greer and Lawson, Gibson St.	
December 26	MacLaren Ave. Fire Station	

666 T E R I N S T A L L A T I O N S 1962

Dec 14	Mrs. Maggie Fraser	267 Smythe Street	5/8" Copper	Relay
Jan. 17	Norman P. Thornton	129 Jaffrey Street	5/8" Copper	Relay
Jan. 18	University of New Brunswick		6" C. Iron	Repair
Jan. 24	D. W. Griffiths Est.	259 Victoria Street	5/8" Copper	Relay
Jan. 16	John Fletcher	Killarney Road	5/8" Copper	New
Jan. 30	Walter J. Beairsto	228 Saunders Street	5/8" Copper	Relay
Feb. 13	Paul Dunphy	113 Jaffrey Street	5/8" Copper	Relay
Feb. 14	John B. Currie	409 Union Street	5/8" Copper	Relay
Feb. 14.	Hyman Budovitch	244 Victoria Street	5/8" Copper	Relay
Mar. 2	W. J. Beairsto Co. Ltd.	263 Saunders Street	5/8" Copper	Relay
Apr. 4	Central Trust Co.	142 Charlotte Street	5/8" Copper	Relay
Apr. 5	L. E. Ryan	267-269 Brunswick St.	5/8" Copper	Relay
Apr. 9	Roy A. Laurie	486 Westmorland Street	5/8" Copper	Relay
Apr. 26	Suburban Construction Co.	2 Spruce Terrace	5/8" Copper	New
Mar. 28	Metropolitan Stores	466 Queen Street	3/4" Copper	Relay
Apr. 20	S. C. R. Construction Co.	267-280 Connaught Street	2-1" Copper	New
Apr. 24	Suburban Construction Co.	20 Harewood Crescent	5/8" Copper	New
Apr. 24	Hill Bros.	214-216 Inglewood Drive	5/8" Copper P	New
Apr. 25	Hill Bros.	170 Inglewood Drive	3/4" Copper	New
May 2	William Wibberley	516 Gibson Street	5/8" Copper	New
Apr. 27	D. R. Watson	866 Windsor Street	5/8" Copper	New
May 5	Union Motors Ltd.	489 Water Street	3/4" Copper	Relay
May 8	Robert B. Harvey	142 Gibson Street	5/8" Copper	Relay
Apr. 26	Gordon Christensen	234 Smythe Street	5/8" Copper	New
May 10	W. T. Hargreaves	846 York Street	3/4" Copper	New
May 9	Bruce Saunders	448 Westmorland Street	5/8" Copper	Relay
May 10	Wendell Thomas	162 Friel Street	5/8" copper	New
May 10	Fredericton Housing Ltd.	85 Sheffield Court	3/4" Copper	New
May 10	Fredericton Housing Ltd.	80 Sheffield Court	5/8" Copper	New
May 11	Fredericton Housing Ltd.	55 Sheffield Court	5/8" Copper	New
May 11	Fredericton Housing Ltd.	75 Sheffield Court	3/4" Copper	New
May 8	Edward L. Morgan	327-329 Dundonald Street	3/4" Copper	New
May 9	Edward Rogers	72 Birch Court <i>various lengths</i>	3/4" Copper	New
May 14	Dr. F. B. Gibson	238 Albert Street	5/8" Copper	New
May 14	Eldon Dunphy (Lot 15)	795 Smythe Street	5/8" Copper	New
May 15	Everett G. Henry	807 Smythe Street	5/8" Copper	New
May 15	Fredericton Housing Ltd.	95 Canterbury Drive	5/8" Copper	New
May 16	Fredericton Housing Ltd.	47 Sheffield Court	5/8" Copper	New
May 17	Fredericton Housing Ltd.	41 Sheffield Court	5/8" Copper	New
May 18	Fredericton Housing Ltd.	35 Sheffield Court	5/8" Copper	New
May 16	Earl Nash	Highland Avenue	5/8" Copper	New
May 18	Aubrey Owens	815 Irvine Street	5/8" Copper	New
May 18	Claude R. Cyr (Lot #1)	302 Hughes Street	5/8" Copper	New
May 23	Harry C. Smith	380 Smythe Street	3/4" Copper	New
May 23	Miss Evelyn Saulnier	113 Aberdeen Street	5/8" Copper	Relay
May 24	Grodon Brewer Est.	395 Union Street	3/4" Copper	Relay
May 22	Fredericton Housing Ltd.	29 Sheffield Court	5/8" Copper	New
May 23	Fredericton Housing Ltd.	20 Sheffield Court	5/8" Copper	New
May 24	Fredericton Housing Ltd.	22 Leicester Street	5/8" Copper	New
May 24	Ralph Freeze	262 Edinburgh Street	3/4" Copper	New
May 25	Fredericton Housing Ltd.	75 Canterbury Drive	5/8" Copper	New
May 28	Hill Bros.	802 Windsor Street	5/8" Copper	New
May 28	Fredericton Housing Ltd.	7 Canterbury Drive	5/8" Copper	New
May 29	Fredericton Housing Ltd.	25 Canterbury Drive	5/8" Copper	New
May 30	Mrs. Caroline Scott (Lot 13A)	756 McEvoy Street	5/8" Copper	New
May 30	Fredericton Housing Ltd.	8 Canterbury Drive	5/8" Copper	New
May 31	Donald McKinnon	268 Sewell Street	5/8" Copper	New
May 31	Robert Jardine	278 Sewell Street	5/8" Copper	New
May 31	Fredericton Housing Ltd.	18 Brighton Court	5/8" Copper	New
May 24	Suburban Construction Co.	762 Kings College Road	5/8" copper	New
May 24	Leslie J. Brewer	435 Montgomery Street	5/8" Copper	New
May 30	Neill McMullin	195 Kings College Road	5/8" Copper	New
June 5	Fredericton Housing Ltd.	50 Leicester Street	5/8" Copper	New
June 5	Eldon Dunphy	17 Forest Acres Court	5/8" Copper	New
June 6	Paul L. Jacques (Lot #1)	188 Montgomery Street	5/8" Copper	New
June 7	Fredericton Housing Ltd.	115 Canterbury Drive	5/8" Copper	New
June 8	Fredericton Housing Ltd.	85 Canterbury Drive	5/8" Copper	New
June 5	Herbert Allen	752 Devon Avenue	5/8" Copper	New
June 4	Fredericton Housing Ltd.	65 Sheffield Court	5/8" Copper	New
June 8	Wendell Ferris (Lot #12)	849 York Street	5/8" Copper	New
June 12	J. P. Babineau (Lot #14)	717 Albert Street	5/8" Copper	New
June 11	Arthur Clark (lot #7)	188 Kings College Road	5/8" Copper	New

June 13	Thomas Davis	434 Gibson Street	5/8"	Copper	New
June 18	Mrs. Elenore Budovitch	160 <del>Clark</del> Street	5/8"	Copper	New
June 19	Arthur Wilkins	778 Smythe Street	5/8"	Copper	New
May 31	W.E. Emerson & Sons Ltd.	(Theater) 624 Queen Street	6"	C. I.	New
June 14	Ron Cronkhite	184 University Avenue	3/4"	Copper	Relay
June 15	Saul Brown	133 Charlotte Street	5/8"	Copper	Relay
June 14	Mrs. Margaret Meagher	Golf Club Road	3/4"	Plastic	New
June 20	Wendell Ferris	381 Montgomery Street	5/8"	Copper	New
June 22	Ernest Scott	936 Smythe Street	5/8"	Copper	New
June 22	Donald Leonard	186--188 Inglewood Drive	3/4"	Copper	New
June 22	Evald Larsen	530 Lincoln Road	5/8"	Copper	New
June 28	Cardinal Construction Co.	Regent Street	1"	Copper	New
June 28	Mrs. Stephen Bancroft	848 Windsor Street	5/8"	Copper	New
June 15	Indian Affairs	Block 1, Lot 19, Reserve	5/8"	Copper	Repaired
June 27	O. E. Merrithew	158 George Street	5/8"	Copper	Relay
June 26	Fredericton Housing Ltd.	140 Canterbury Drive	5/8"	Copper	New
June 27	Fredericton Housing Ltd.	170 Canterbury Drive	5/8"	Copper	New
July 5	Fredericton Housing Ltd.	184 Canterbury Drive	5/8"	Copper	New
July 9	J. Clark & Son Ltd. (Garage)	King Street	3/4"	Copper	New
July 16	Fredericton Housing Ltd.	194 Canterbury Drive	5/8"	Copper	New
July 17	R. A. Brewer	360 King Street	1"	Copper	New
July 18	Ralph Timmins	576 King Street	5/8"	Copper	Relay
July 17	Fredericton Housing Ltd.	204 Canterbury Drive	5/8"	Copper	New
July 18	Fredericton Housing Ltd.	250 Surrey Crescent	5/8"	Copper	New
July 18	Fredericton Housing Ltd.	63 Leicester Street	5/8"	Copper	New
July 19	Fredericton Housing Ltd.	75 Cambridge Crescent	5/8"	Copper	New
July 20	Fredericton Housing Ltd.	55 Cambridge Crescent	5/8"	Copper	New
July 20	Fredericton Housing Ltd.	46 Cambridge Crescent	5/8"	Copper	New
July 23	Fredericton Housing Ltd.	24 Cambridge Crescent	5/8"	Copper	New
July 23	Fredericton Housing Ltd.	125 Canterbury Drive	5/8"	Copper	New
July 24	Robert Jardine	209 Canterbury Drive	5/8"	Copper	New
July 20	Malcolm Cumming	149 Forest Hill	5/8"	Copper	New
July 23	George D. Moore	304 Lincoln Road	5/8"	Copper	New
July 24	Mrs. Mary G. Pond	231 Church Street	5/8"	Copper	Relay
July 25	Miss Mildred Harvey	228 George Street	5/8"	Copper	Relay
July 26	Charles Robichaud	59 Saunders Street	3/4"	Copper	Relay
July 24	Peter Wilson	19 Forest Acres Court	5/8"	Copper	New
July 25	Cardinal Construction Co.	Dundonald Street	1"	Copper	New
July 26	Wendell Ferris	863 Windsor Street	5/8"	Copper	New
July 31	Florence Stevens	423 Pedersen Crescent	5/8"	Copper	New
July 28	Wendell Ferris	283 Montgomery Street	5/8"	Copper	New
July 31	Suburban Construction Co.	251 Inglewood Drive	5/8"	Copper	New
Aug. 2	Howard Moore	Wilsey Road	5/8"	Copper	New
Aug. 1	Texaco Co.	Industrial Area	1"	Copper	New
Aug. 2	Fredericton Housing Ltd.	45 Cambridge Crescent	5/8"	Copper	New
Aug. 3	Fredericton Housing Ltd.	14 Cambridge Crescent	5/8"	Copper	New
Aug. 3	Fredericton Housing Ltd.	58 Cambridge Crescent	5/8"	Copper	New
Aug. 6	Fredericton Housing Ltd.	15 Cambridge Crescent	5/8"	Copper	New
Aug. 6	Fredericton Housing Ltd.	24 Coventry Crescent	5/8"	Copper	New
Aug. 7	Fredericton Housing Ltd.	68 Manchester Court	5/8"	Copper	New
Aug. 8	Fredericton Housing Ltd.	79 Manchester Court	5/8"	Copper	New
Aug. 8	Fredericton Housing Ltd.	19 Manchester Court	5/8"	Copper	New
Aug. 8	Fredericton Housing Ltd.	78 Manchester Court	5/8"	Copper	New
Aug. 9	Fredericton Housing Ltd.	39 Coventry Crescent	5/8"	Copper	New
Aug. 9	Fredericton Housing Ltd.	219 Canterbury Drive	5/8"	Copper	New
Aug. 9	Fredericton Housing Ltd.	69 Manchester Court	5/8"	Copper	New
Aug. 9	Fredericton Housing Ltd.	29 Coventry Crescent	5/8"	Copper	New
Aug. 10	Fredericton Housing Ltd.	59 Manchester Court	5/8"	Copper	New
Aug. 10	Fredericton Housing Ltd.	8 Manchester Court	5/8"	Copper	New
Aug. 10	Fredericton Housing Ltd.	19 Coventry Crescent	5/8"	Copper	New
Aug. 10	Fredericton Housing Ltd.	49 Manchester Court	5/8"	Copper	New
Aug. 6	Maritime Engineering Ltd.	12 Spruce Terrace	5/8"	Copper	New
Aug. 7	Mrs. Laura VanBuskirk	421 Montgomery Street	3/4"	Copper	New
Aug. 9	Harold Maikle	981 Smythe Street	5/8"	Copper	New
Aug. 10	Hill Bros.	973 Smythe Street	5/8"	Copper	New
Aug. 11	Hill Bros.	965 Smythe Street	5/8"	Copper	New
Aug. 14	Wendell Ferris	73 Beechwood Crescent	5/8"	Copper	New
Aug. 13	Fredericton Housing Ltd.	18 Manchester Court	5/8"	Copper	New
Aug. 13	Fredericton Housing Ltd.	58 Manchester Court	5/8"	Copper	New
Aug. 14	Fredericton Housing Ltd.	48 Manchester Court	5/8"	Copper	New
Aug. 14	Fredericton Housing Ltd.	28 Manchester Court	5/8"	Copper	New
Aug. 14	Fredericton Housing Ltd.	38 Manchester Court	5/8"	Copper	New

Aug. 15	Fredericton Housing Ltd.	25 Cambridge Crescent	5/8"	Copper	New
Aug. 15	Fredericton Housing Ltd.	70 Leicester Street	5/8"	Copper	New
Aug. 15	Fredericton Housing Ltd.	35 Cambridge Crescent	5/8"	Copper	New
Aug. 16	Fredericton Housing Ltd.	60 Leicester Street	5/8"	Copper	New
Aug. 16	Fredericton Housing Ltd.	229 Canterbury Drive	5/8"	Copper	New
Aug. 17	Fredericton Housing Ltd.	237 Canterbury Drive	5/8"	Copper	New
Aug. 17	Fredericton Housing Ltd.	247 Canterbury Drive	5/8"	Copper	New
Aug. 20	Fredericton Housing Ltd.	257 Canterbury Drive	5/8"	Copper	New
Aug. 22	Hill Bros.	16 Beechwood Crescent	5/8"	Copper	New
Aug. 23	Hill Bros.	13 Beechwood Crescent	5/8"	Copper	New
Aug. 24	Hill Bros.	6 Beechwood Crescent	5/8"	Copper	New
Aug. 24	Robert Kieley	51 Beechwood Crescent	5/8"	Copper	New
Aug. 26	Hill Bros.	933 Smythe Street	5/8"	Copper	New
Aug. 29	Hill Bros.	81 Beechwood Crescent	5/8"	Copper	New
Aug. 22	Mathews Plumbing & Heating (School)	Montgomery Street	1"	Copper	New
Aug. 30	Harley Mills	913 Smythe Street	5/8"	Copper	New
Aug. 30	Hill Bros.	995 Smythe Street	5/8"	Copper	New
Aug. 24	Fredericton Housing Ltd.	214 Canterbury Drive	5/8"	Copper	New
Aug. 24	Fredericton Housing Ltd.	224 Canterbury Drive	5/8"	Copper	New
Aug. 27	Fredericton Housing Ltd.	234 Canterbury Drive	5/8"	Copper	New
Aug. 27	Fredericton Housing Ltd.	244 Canterbury Drive	5/8"	Copper	New
Aug. 28	Fredericton Housing Ltd.	254 Canterbury Drive	5/8"	Copper	New
Aug. 28	Fredericton Housing Ltd.	264 Canterbury Drive	5/8"	Copper	New
Aug. 29	Fredericton Housing Ltd.	Lot # 180 (No House)	5/8"	Copper	New
Aug. 30	Fredericton Housing Ltd.	274 Canterbury Drive	5/8"	Copper	New
Aug. 30	Fredericton Housing Ltd.	199 Canterbury Drive	5/8"	Copper	New
Aug. 31	Fredericton Housing Ltd,	95 Canterbury Drive	5/8"	Copper	New
Sept. 4	Mark Keays	131 Argyle Street	5/8"	Copper	New
Sept. 7	Carvell Antworth	225 Kings College Road	5/8"	Copper	New
Sept. 10	Harold Tait	805 York Street	5/8"	Copper	New
Sept. 11	Wendell Ferris	65 Beechwood Crescent	5/8"	Copper	New
Sept. 12	Malcolm Cummings	959 Smythe Street	5/8"	copper	New
Sept. 10	N.B. Electric Power Commission	527 King Street	4"	C. I.	New
Sept. 14	Mrs. Helen Jacobson	181 St. John Street	5/8"	Copper	Relay
Sept. 13	Malcolm Cumming	989 Smythe Street	5/8"	Copper	New
Sept. 14	Lillian E. Covey	7 Forest Acres Court	5/8"	Copper	New
Sept. 20	Mrs. Dora White	Wilsey Road	5/8"	Copper	New
Sept. 25	General Dairies Ltd.	480 Union Street	6"	C. I.	New
Sept. 27	Douglas Rouse	11 Forest Acres Court	3/4"	Copper	New
Oct. 2	Ivan Peterson	1071 Smythe Street	5/8"	Copper	New
Oct. 11	Dr. Robert Ogilvie	289 Westmorland Street	1"	Copper	Relay
Oct. 16	Central Trust Co.	683--685 Union Street	5/8"	Copper	Relay
Oct. 10	Vaughan Leachman	149 Gibson Street	5/8"	Copper	New
Oct. 2	Wendell Ferris	57 Beechwood Crescent	5/8"	Copper	New
Oct. 12	Capital Sales Ltd.	Rookwood Avenue	5/8"	Copper	Extension
Oct. 18	Lounsbury Co. Ltd.	College Hill Road	1"	Copper	New
Oct. 19	Hill Bros.	21 Beechwood Crescent	5/8"	Copper	New
Nov. 1	Mrs. Albert Murray	366 George Street	5/8"	Copper	Relay
Oct. 31	Maritime Engineering Ltd. (Levine)	Westmorland Street	1"	Copper	New
Oct. 5	R. Ried Richards	897 Montgomery Street	5/8"	Copper	New
Oct. 26	Mrs. Amy L. Scott	502 Woodstock Road	5/8"	Copper	Relay
Nov. 2	Suburban Construction Co.	85 Harewood Court	5/8"	Copper	New
Nov. 6	Miss Sterling	767 Brunswick Street	3/4"	Copper	Relay
Nov. 7	Norman Young	330 Edinburgh Street	5/8"	Copper	New
Nov. 5	Gorham Beverages	361 Victoria Street	5/8"	Copper	New
Nov. 5	Gorham Beverages	361 Victoria Street	6"	C. I.	New
Nov. 14	Walter McAdam	558 Woodstock Road	5/8"	Copper	Relay
Nov. 14	Fred Mundle Est.	540 Woodstock Road	5/8"	Copper	Relay
Nov. 25	Eldon Dunphy	452 Pederson Crescent	5/8"	Copper	New
Nov. 26	Eldon Dunphy	447 Pedersen Crescent	5/8"	Copper	New
Nov. 26	Eldon Dunphy	428 Pedersen Crescent	5/8"	Copper	New
Nov. 22	Maunder & McPhee	471 Pederson Crescent	5/8"	Copper	New
Nov. 28	P. C. Kelly	61 Forest Acres Court	5/8"	Copper	New
Nov. 28	Maunder & McPhee	459 Pederson Crescent	5/8"	Copper	New
Nov. 29	R. Lloyd Hoben	Wilsey Road	5/8"	Copper	New
Nov. 20	Hill Bros.	228--230 Inglewood Drive	5/8"	Copper	New
Nov. 30	Arthur McKenzie	Wilsey Road	5/8"	Copper	New
Dec. 4	Katherine George Est.	312--314 York Street	5/8"	Copper	Relay
Dec. 10	Matilda A. Hughes	543 Union Street	5/8"	copper	Relay
Dec. 11	Abe Levine & Sons Ltd.	294--296 King Street	3/4"	Copper	Relay
Dec. 12	George Chippin	218 George Street	5/8"	Copper	Relay

Nov. 23	S. C. R. Construction Co.	7 - 17 Birch Court	1"	Copper	New
Ded. 3	Suburban Construction	65 Harewood Court	5/8"	copper	New
Dec. 7	Fredericton Housing Ltd.	836 Churchill Row	5/8"	Copper	New
Dec. 8	Hill Bros.	66 Beechwood Crescent	5/8"	Copper	New
Dec. 10	Cardinal Construction Co.	Union & Clark Streets	1"	Copper	New
Dec. 11	Fredericton Housing Ltd.	825--831 Union Street	1"	Copper	New
Dec. 14	A. E. Hanson	148--150 Neill Street	5/8"	Copper	Relay
Dec. 17	Acme Construction Co.	McLeod & Regent Sts.	3/4"	Copper	New
Dec. 24	Rabbi Daveid Spiro	692--696 Union Street	1"	Copper	Relay

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Repaired 3

DOMESTIC SEWER INSTALLATIONS 1962.

Apr. 26	Suburban Construction Co.	Spruce Terrace	New
Apr. 18	Martitime Engineering Ltd.	637 Windsor Street	New
Apr. 20	S.C.R. Construction Co.	267--280 Connaught Street	New
Apr. 24	Suburban Construction Co.	20 Harewood Court	New
Apr. 24	Hill Bros.	214--216 Inglewood Drive	New
Apr. 25	Hill Bros.	170 Inglewood Drive	New
Apr. 27	D. R. Watson	866 Windsor Street	New
Apr. 26	Gordon Christensen	134 Smythe Street	New
May 10	W. T. Hargreaves	846 York Street	New
May 10	Wendell Thomas	162 Friel Street	New
May 10	Fredericton Housing Ltd.	85 Sheffield Court	New
May 10	Fredericton Housing Ltd.	80 Sheffield Court	New
May 11	Fredericton Housing Ltd.	55 Sheffield Court	New
May 11	Fredericton Housing Ltd.	75 Sheffield Court	New
May 8	Edward L. Morgan	327--329 Dundonald Street	New
May 9	Edward Rogers	72 Birch Court <i>Wagman Lane</i>	New
May 14	Dr. F. B. Gibson	238 Albert Street	New
May 14	Eldon Dunphy	795 Smythe Street	New
May 15	Everett G. Henry	807 Smythe Street	New
May 15	Fredericton Housing Ltd.	95 Canterbury Drive	New
May 16	Fredericton Housing Ltd.	47 Sheffield Court	New
May 17	Fredericton Housing Ltd.	41 Sheffield Court	New
May 18	Fredericton Housing Ltd.	35 Sheffield Court	New
May 16	Earl Nash	Highland Avenue	New
May 18	Aubrey Owens	815 Irvine Street	New
May 18	Claude R. Cyr	302 Hughes Street	New
May 23	Harry C. Smith	380 Smythe Street	New
May 22	Fredericton Housing Ltd.	29 Sheffield Court	New
May 23	Fredericton Housing Ltd.	20 Sheffield Court	New
May 24	Fredericton Housing Ltd.	22 Leicester Street	New
May 24	Ralph Freeze	262 Edinburgh Street	New
May 25	Fredericton Housing Ltd.	75 Canterbury Drive	New
May 28	Hill Bros.	802 Windsor Street	New
May 28	Fredericton Housing Ltd.	7 Canterbury Drive	New
May 29	Fredericton Housing Ltd.	25 Canterbury Drive	New
May 30	Mrs. Caroline Scott	756 McEvoy Street	New
May 30	Fredericton Housing Ltd.	8 Canterbury Drive	New
May 31	Donald McKinnon	268 Sewell Street	New
May 31	Robert Jardine	278 Sewell Street	New
May 31	Fredericton Housing Ltd.	18 Brighton Court	New
June 5	Fredericton Housing Ltd.	50 Leicester Street	New
June 5	Eldon Dunphy	67 Forest Acres Court	New
May 29	Suburban Construction Co.	762 Kings College Road	New
May 29	Leslie J. Brewer	435 Montgomery Street	New
May 30	Neill McMullin	195 King's College Road	New
June 6	Paul L. Jacques	188 Montgomery Street	New
June 7	Fredericton Housing Ltd.	115 Canterbury Drive	New
June 8	Fredericton Housing Ltd.	85 Canterbury Drive	New
June 5	Herbert Allen	752 Devon Avenue	New
June 4	Fredericton Housing Ltd.	65 Sheffield Court	New
June 8	Vendell Ferris	849 York Street	New
June 12	J. P. Babineau	717 Albert Street	New
June 11	Arthur Clark	188 King's College Road	New
June 13	Thomas Davis	434 Gibson Street	New
June 18	Mrs. Elenore Budovitch	160 Clark Street	New
June 19	Arthur Wilkins	778 Smythe Street	New
May 31	W. E. Emerson & Son Ltd. (Theatre)	486 Queen Street	New
June 20	Wendell Ferris	381 Montgomery Street	New
June 22	Ernest Scott	936 Smythe Street	New
June 22	Donald Leonard	186--188 Inglewood Drive	New
June 28	Cardinal Construction Co.	Regent Street	New
June 28	Mrs. Stephen Bancroft	848 Windsor Street	New
June 26	Fredericton Housing Ltd.	140 Canterbury Drive	New
June 27	Fredericton Housing Ltd.	170 Canterbury Drive	New
July 5	Fredericton Housing Ltd.	184 Canterbury Drive	New
July 16	Fredericton Housing Ltd.	194 Canterbury Drive	New
July 17	R. A. Brewer	360 King Street	New
July 17	Fredericton Housing Ltd.	204 Canterbury Drive	New
July 18	Fredericton Housing Ltd.	250 Surrey Crescent	New
July 18	Fredericton Housing Ltd.	63 Leicester Street	New
July 19	Fredericton Housing Ltd.	75 Cambridge Crescent	New
July 20	Fredericton Housing Ltd.	55 Cambridge Crescent	New

July 20	Fredericton Housing Ltd.	46 Cambridge Crescent	New
July 23	Fredericton Housing Ltd.	24 Cambridge Crescent	New
July 23	Fredericton Housing Ltd.	125 Canterbury Drive	New
July 24	Robert Jardine	209 Canterbury Drive	New
July 20	Malcolm Cummings	149 Forest Hill	New
July 23	George D. Moore	304 Lincoln Road	New
July 24	Peter Wilson	19 Forest Acres Court	New
July 25	Cardihal Construction Co.	Dundonald Street	New
July 26	Wendell Ferris	863 Windsor Street	New
July 31	Florence Stevens	423 Pedersen Crescent	New
Aug. 2	Howard Moore	Wilsey Road	New
July 28	Wendell Ferris	283 Montgomery Street	New
July 31	Suburban Construction Co.	251 Inglewood Drive	New
Aug. 1	Texaco Co. Ltd.	Industrial Area	New
Aug. 2	Fredericton Housing Ltd.	45 Cambridge Crescent	New
Aug. 3	Fredericton Housing Ltd.	14 Cambridge Crescent	New
Aug. 3	Fredericton Housing Ltd.	58 Cambridge Crescent	New
Aug. 6	Fredericton Housing Ltd.	15 Cambridge Crescent	New
Aug. 6	Fredericton Housing Ltd.	24 Coventry Crescent	New
Aug. 7	Fredericton Housing Ltd.	68 Manchester Court	New
Aug. 8	Fredericton Housing Ltd.	79 Manchester Court	New
Aug. 8	Fredericton Housing Ltd.	19 Manchester Court	New
Aug. 8	Fredericton Housing Ltd.	78 Manchester Court	New
Aug. 8	Fredericton Housing Ltd.	39 Coventry Crescent	New
Aug. 9	Fredericton Housing Ltd.	219 Canterbury Drive	New
Aug. 9	Fredericton Housing Ltd.	69 Manchester Court	New
Aug. 9	Fredericton Housing Ltd.	29 Coventry Crescent	New
Aug. 10	Fredericton Housing Ltd.	59 Manchester Court	New
Aug. 10	Fredericton Housing Ltd.	8 Manchester Court	New
Aug. 10	Fredericton Housing Ltd.	19 Coventry Crescent	New
Aug. 10	Fredericton Housing Ltd.	49 Manchester Court	New
Aug. 6	Maritime Engineering Ltd.	12 Spruce Terrace	New
Aug. 7	Mrs. Laura VanBuskirk	421 Montgomery Street	New
Aug. 9	Harold Maikle	981 Smythe Street	New
Aug. 10	Hill Bros.	973 Smythe Street	New
Aug. 11	Hill Bros.	965 Smythe Street	New
Aug. 14	Wendell Ferris	73 Beechwood Crescent	New
Aug. 13	Fredericton Housing Ltd.	18 Manchester Court	New
Aug. 13	Fredericton Housing Ltd.	58 Manchester Court	New
Aug. 14	Fredericton Housing Ltd.	46 Manchester Court	New
Aug. 14	Fredericton Housing Ltd.	28 Manchester Court	New
Aug. 14	Fredericton Housing Ltd.	38 Manchester Court	New
Aug. 15	Fredericton Housing Ltd.	25 Cambridge Crescent	New
Aug. 15	Fredericton Housing Ltd.	70 Leicester Court	New
Aug. 15	Fredericton Housing Ltd.	35 Cambridge Crescent	New
Aug. 16	Fredericton Housing Ltd.	60 Leiwester Street	New
Aug. 16	Fredericton Housing Ltd.	229 Canterbury Drive	New
Aug. 17	Fredericton Housing Ltd.	237 Canterbury Drive	New
Aug. 17	Fredericton Housing Ltd.	247 Canterbury Drive	New
Aug. 20	Fredericton Housing Ltd.	257 Canterbury Drive	New
Aug. 22	Hill Bros.	16 Beechwood Crescnet	New
Aug. 23	Hill Bros.	13 Beechwood Crescent	New
Aug. 24	Hill Bros.	6 Beechwood Crescent	New
Aug. 24	Robert Kiely	51 Beechwood Crescent	New
Aug. 28	Hill Bros.	933 Smythe Street	New
Aug. 29	Hill Bros.	81 Beechwood Crescent	New
Aug. 22	Mathew Plumbing & Heating (School)	Montgomery Street	New
Aug. 30	Harley Mills	913 Smythe Street	New
Aug. 30	Hill Bros.	995 Smythe Street	New
Aug. 21	Fredericton Housing Ltd.	214 Canterbury Drive	New
Aug. 24	Fredericton Housing Ltd.	224 Canterbury Drive	New
Aug. 27	Fredericton Housing Ltd.	234 Canterbury Drive	New
Aug. 27	Fredericton Housing Ltd.	244 Canterbury Drive	New
Aug. 28	Fredericton Housing Ltd.	254 Canterbury Drive	New
Aug. 28	Fredericton Housing Ltd.	264 Canterbury Drive	New
Aug. 29	Fredericton Housing Ltd.	Lot # 180 (no House)	New
Aug. 30	Fredericton Housing Ltd.	274 Canterbury Drive	New
Aug. 30	Fredericton Housing Ltd.	199 Canterbury Drive	New
Aug. 31	Fredericton Housing Ltd.	95 Canterbury Drive	New
Sept. 4	Mark Keays	131 Argyle Street	New
Sept. 7	Carvell Antworth	225 King's College Road	New
Sept. 10	Harold Tait	805 York Street	New

Sept. 11	Wendell Ferris	65 Beechwood Crescent	New
Sept. 12	Malcolm Cummings	959 Smythe Street	New
Sept. 13	Malcolm Cummings	989 Smythe Street	New
Sept. 14	Mrs. Lillian E. Covey	7 Forest Acres Court	New
Sept. 20	Mrs. Dora White	Wilsey Road	New
Sept. 27	Douglas Rouse	11 Forest Acres Court	New
Oct. 2	Ivan Peterson	1071 Smythe Street	New
Oct. 10	Vaughan Leachman	149 Gibson Street	New
Oct. 9	William H. Reynolds (Indian School)	Union Street	New
Oct. 2	Wendell Ferris	57 Beechwood Crescent	New
Oct. 12	Capital Sales Ltd.	Rookwood Avenue	Extension
Oct. 19	Hill Bros.	21 Beechwood Crescent	New
Oct. 19	Ellis Cunningham	21 Golf Club Road	New
Oct. 22	G. M. Baker	71 Golf Club Road	New
Oct. 23	L. C. Douglas	79 Golf Club Road	New
Oct. 24	Mrs. Frank Comuzzi	83 Golf Club Road	New
Oct. 24	Mrs. Hazen Perry	646 Woodstock Road,	New
Oct. 28	John L. Bird	684 Woodstock Road	New
Oct. 26	Mrs. R. S. Morrisey	44 Golf Club Road	New
Oct. 31	Maritime Engineering Ltd. (Levines)	Westmorland Street	New
Nov.	Mrs. Gordon Tapley	145 Pine Street	New
Oct. 30	F. F. Creighton	79 Golf Club Road	New
Oct. 5	R. Reid Rishards	897 Montgomery Street	New
Oct. 26	Mrs. Amy L. Scott	502 Woodstock Road	New
November 2	Suburban Construction Co.	85 Harewood Court	New
Nov. 7	Norman Young	330 Edinburgh Street	New
November 5	Gorham Beverages	361 Victoria Street	New
Oct. 30	J. E. Davis	541 Woodstock Road	New
Nov. 9	H. W. Steen	559 Woodstock Road	New
Nov. 9	Allen Greene	549 Woodstock Road	New
Nov. 14	Walter McAdam	558 Woodstock Road	New
Nov. 14	Mrs. G. S. Grant	550 Woodstock Road	New
Nov. 14	Fred Mundle Est.	540 Woodstock Road	New
Nov. 21	Royden Ryan	531 Woodstock Road	New
Nov. 22	Murray Murdock	550 Woodstock Road	New
Nov. 23	Mrs. Thomas Hughes	28 Hanwell Road	New
Nov. 25	Eldon Dunphy	452 Pedersen Crescent	New
Nov. 26	Eldon Dunphy	447 Pedersen Crescent	New
Nov. 19	G. E. Trites	581 Woodstock Road	New
Nov. 21	G. E. Trites	569 Woodstock Road	New
Nov. 26	Eldon Dynphy	428 Pedersen Crescent	New
Nov. 22	Maunder & McPhee	471 Pedersen Crescent	New
Nov. 28	P. C. Kelly	61 Forest Acres Court	New
Nov. 28	Maunder & McOhee	469 Pedersen Crescent	New
Nov. 28	Maunder & McPhee	464 Pedersen Crescent	New
Nov. 29	R. Lloyd Hoben	Wilsey Road	New
Nov. 30	Hill Bros.	228--230 Inglewood Drive	New
Nov. 30	Arthur McKenzie	Wilsey Road	New
Nov. 23	S.C.R. Construction Co.	7-17 Birch Court	New
Dec. 3	Suburban Construction Co.	65 Harewood Crescent	New
Dec. 7	Fredericton Housing Ltd.	836 Churchill Row	New
Dec. 8	Hill Bros.	66 Beechwood Crescent	New
Dec. 10	Cardinal Construction Co.	Union & Clark Streets	New
Dec. 11	Fredericton Housing Ltd.	825--831 Union Street	New
Dec. 17	Acme Construction Co.	McLeod & Regent Streets	New
Dec. 24	Rabbi David Spiro	692--696 Union Street	New

NEW METERS INSTALLED 1962.

1.	Suburban Construction Co	/ 40 Harewood Court
2.	Donald Flynn	/ 226 Montgomery Street
3.	D. Brown	/ 250 Argyle Street
4.	R. McCullough	/ 560 Squires Street
5.	J. A. Friolet	/ 30 Canterbury Drive
6.	Francis J. Corbett	/ 70 Canterbury Drive
7.	L. W. Schemilt	/ 7 Spruce Terrace
8.	Malcolm Cymmings	/ 820 Windsor Street
9.	Alex. Lumsden	/ 865 York Street
10.	Wendell Farris	/ 857 York Street
11.	Hill Bros.	/ 200-202 Inglewood Drive
12.	John Fletcher	/ Upper St. Marys Street
13.	Alden Clark (Gate House)	/ 232 Forest Acres Court
14.	Richard Bagnell	/ 25 Brighton Court
15.	Mrs. D. B. Allen	/ 30 Brighton Court
16.	Suburban Construction Co.	/ 120 Harewood Court
17.	Suburban Construction Co.	/ 70 Harewood Court
18.	Suburban Construction Co.	/ 349 Inglewood Drive
19.	Sobeys Store	/ Dundonald Street
20.	Hill Bros.	/ 289 Inglewood Drive
21.	David Hurley	/ 216 Turnbull Court
22.	Fredericton Housing Ltd.	/ 80 Canterbury Drive
23.	Fredericton Housing Ltd.	/ 10 Sheffield Court
24.	Hill Bros.	/ 176 Montgomery Street
25.	Gordon Christensen	/ 701 Montgomery Street
26.	Malcolm Cymmings	/ 827 York Street
27.	John B. Currie	/ 409 Union Street
28.	H. L. Boone	/ 320 Montgomery Street
29.	Risteen Co. Ltd.	/ 108 Queen Street
30.	F. Dunphy	/ 116 Montgomery Street
31.	Y.M.C.A./Y.W.C.A.	/ 28 Saunders Street
32.	Roy A. Taylor	/ 161 Neill Street
33.	Harrison Parlee	/ 166 Neill Street
34.	R. Atherton	/ 277 Campbell Street
35.	Mrs. Hickey	/ 120 Victoria Street
36.	G. C. Elgee	/ 760 Valleyview Street
37.	I. McKnight	/ 72 Lansdowne Street
38.	Union Motors	/ 479 Union Street
39.	R. B. Harvey	/ 142 Gibson Street
40.	W. Thomas	/ 162 Friel Street
41.	Hill Bros.	/ 365 Inglewood Drive
42.	Gordon Christensen	/ 234 Smythe Street
43.	D. R. Watson	/ 866 Windsor Street
44.	Hill Bros.	/ 214-216 Inglewood Drive
45.	F. B. Gibson	/ 238 Albert Street
46.	Fredericton Housing Ltd.	/ 80 Sheffield Court
47.	D. W. Somerville	/ 75 Sheffield Court
48.	Fredericton Housing Ltd.	/ 65 Sheffield Court
49.	Fredericton Housing Ltd.	/ 55 Sheffield Court
50.	Fredericton Housing Ltd.	/ 47 Sheffield Court
51.	Fredericton Housing Ltd.	/ 41 Sheffield Court
52.	Fredericton Housing Ltd.	/ 35 Sheffield Court
53.	G. R. Brewer Est.	/ 395 Union Street
54.	Levines Ltd.	/ 320 Queen Street
55.	Fredericton Exhibition Ltd.	X Bldg. 33, Saunders Street
56.	Harry Smith	/ 580 Smythe Street
57.	Rogers	/ 72 Birch Court Waggoners Lane
58.	Suburban Construction Co.	/ 2 Spruce Terrace
59.	Robert Jardine	/ 278 Sewell Street
60.	R. M. Cronkhite	/ 182-184 University Avenue
61.	A. A. Young	/ 20 Harewood Court
62.	R. Watson	/ 866 Windsor Street
63.	W. T. Hargreaves	/ 846 York Street
64.	Suburban Construction Co.	/ 753 Windsor Street
65.	P. M. Levine	/ 276-280 Connaught Street
66.	Fredericton Housing Ltd.	/ 85 Sheffield Court
67.	Fredericton Housing Ltd.	/ 29 Sheffield Court
68.	Mrs. Budowitch	/ 168 Clark Street
69.	D. Babineau	/ 707 Albert Street
70.	E. L. Morgan	327 329 Dundonald Street

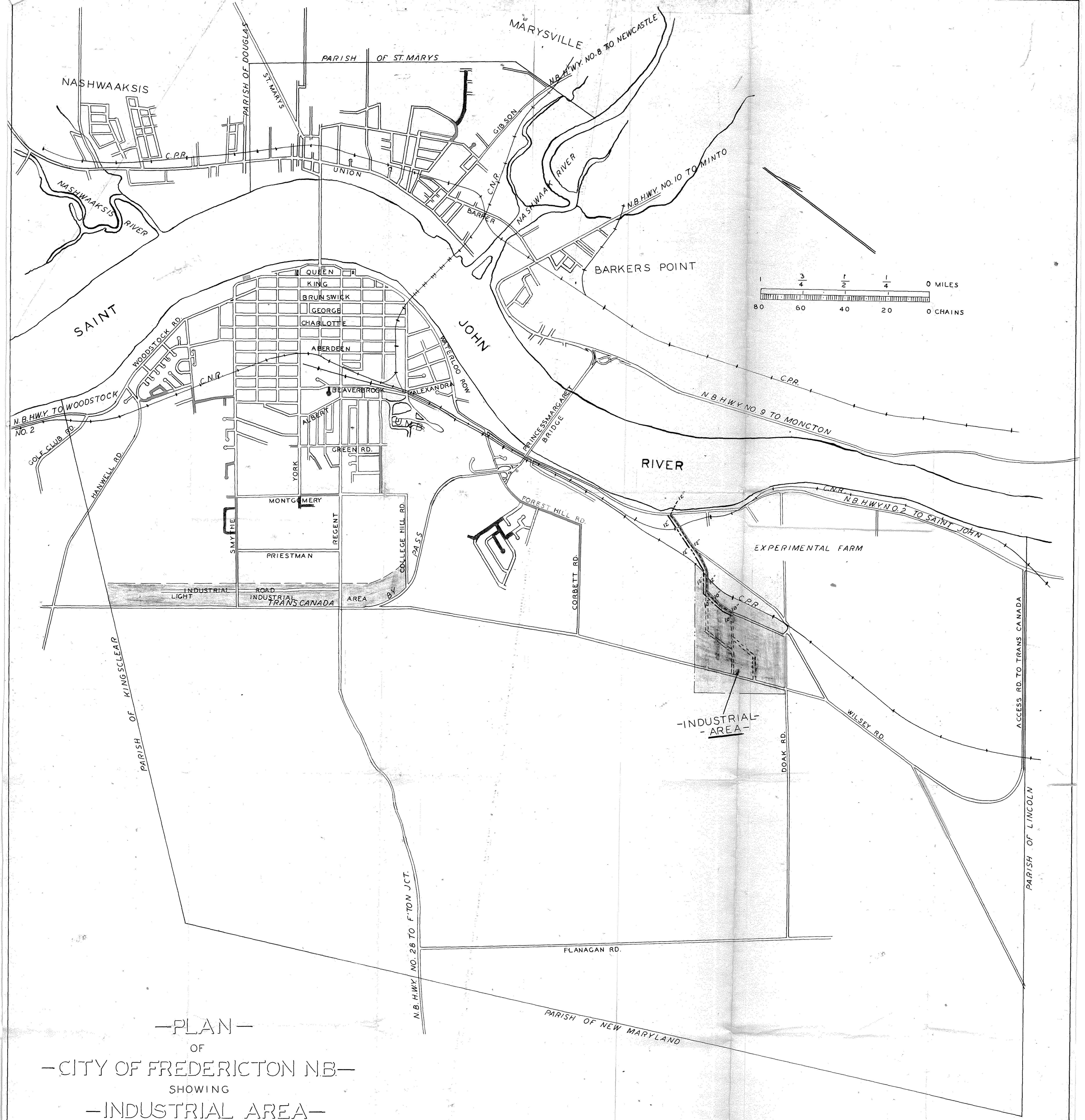
71. Mrs. Sylvia Chrisman  
 72. B. Boone  
 73. Canadian Petrofins Service Station  
 74. E. Dunphy  
 75. Fredericton Housing Ltd.  
 76. Fredericton Housing Ltd.  
 77. Fredericton Housing Ltd.  
 78. Mr. McKinnon  
 79. F. W. McGinley  
 80. Fredericton Housing Ltd.  
 81. G. Moore  
 82. N. O. MacMullin  
 83. Wendell Farris  
 84. R. L. Timmins  
 85. Hill Bros.  
 86. R. Atherton  
 87. Elizabeth McMullen  
 88. Lord Beaverbrook Theatre  
 89. C. D. Scott  
 90. H. Moore  
 91. C. R. Cyr  
 92. A. Clark  
 93. Texaco Service Station  
 94. Roland Brewer  
 95. P. Wilson  
 96. Fredericton Housing Ltd.  
 97. Fredericton Housing Ltd.  
 98. Fredericton Housing Ltd.  
 99. Mr. Sinclair  
 100. P. Jacques  
 101. Fredericton Housing Ltd.  
102XXXXXXFredericton Housing XXXXX  
 102. Mrs. Florence Stevens  
 103. Malcolm Cummings  
 104. Mrs. D. E. Wright  
 105. G. E. Henry  
 106. H. Allen  
 107. J. E. Caissie  
 108. Fredericton Housing Ltd.  
 109. Yolanda Valentino  
 110. G. Fred Cluff  
 111. Vera L. Stone  
 112. Wendell Farris  
 113. J. S. Tripp  
 114. Fredericton Housing Ltd.  
 115. Fredericton Housing Ltd.  
 116. Fredericton Housing Ltd.  
 117. Musselsens Ltd.  
 118. Texaco Oil Co.  
 119. L. G. Milburn  
 120. University of New Brunswick  
 121. Federal Hardware Ltd.  
 122. David Paul  
 123. S. Bancroft  
 124. Demolition Ltd.  
 125. Percy Paul  
 126. Walter Brooks  
 127. George Paul  
 128. Howard Paul  
 129. Diamond Construction Co.  
 130. Ralph Freeze  
 131. Hill Bros.  
 132. Hill Bros.  
 133. H. Boone  
 134. Don Leonard  
 135. Fredericton Housing Ltd.  
 136. Fredericton Housing Ltd.  
 137. Fredericton Housing Ltd.  
 138. Fredericton Housing Ltd.  
 139. Mark Keays  
 140. F. Ames
- ✓ 415--419 Union Street  
 ✓ 334 Union Street  
 ✓ Regent Street  
 ✓ 195 Smythe Street  
 ✓ 7 Canterbury Drive  
 ✓ 95 Canterbury Drive  
 ✓ 8 Surrey Crescent  
 ✓ 268 Sewell Street  
 ✓ 540 Union Street  
 ✓ 80 Cambridge Crescent  
 ✓ 304 Lincoln Road  
 ✓ 195 Kings College Road  
 ✓ 849 York Street  
 ✓ 754 McLaren Avenue  
 ✓ 802 Windsor Street  
 ✗ 299 Campbell Street  
 ✓ 254 Sewell Street  
 ✓ 686 Queen Street  
 ✓ 756 McEvoy Street  
 ✓ Wilsey Road  
 ✓ 302 Hughes Street  
 ✓ 185 Kings College Road  
 ✓ Dundonald Street  
 ✓ 360 King Street  
 ✓ Forest Acres Court  
 ✓ 85 Canterbury Drive  
 ✓ 115 Canterbury Drive  
 ✓ 25 Canterbury Drive  
 ✓ 17 Forest Acres Court  
 ✓ 188 Montgomery Street  
 ✓ 20 Leicester Street  
 ✓  
 ✓ 412 Pedersen Crescent  
 ✓ 149 Forest Hill  
 ✓ 608 McLaren Avenue  
 ✓ 807 Smythe Street  
 ✓ 752 Devon Avenue  
 ✓ 63 Leicester Street  
 ✓ 75 Leicester Street  
 ✓ 374--376 King Street  
 ✓ 80--82 St. Marys Street  
 ✓ 120 Titus Street  
 ✓ 381 Montgomery Street  
 ✓ Queens Square  
 ✓ 125 Canterbury Drive  
 ✓ 75 Canterbury Drive  
 ✓ 18 Brighton Court  
 ✓ Queens Square  
 ✓ Industrial Park  
 ✓ 743 Coombes Street  
 ✓ 530 Windsor Street  
 ✓ 600 Queen Street  
 ✓ Indian Reservation  
 ✓ 848 Windsor Street  
 ✓ 927--931 Union Street  
 ✓ Block 6, Lot 1, Reservation  
 ✓ Block 4, Lot 1, Reservation  
 ✓ Block 2, Lot 1, Reservation  
 ✓ Block 1, Lot 2, Reservation  
 ✓ 939 Union Street  
 ✓ 262 Edinburgh Street  
 ✓ 16 Beechwood Crescent  
 ✓ 51 Beechwood Crescent  
 ✓ 73 Beechwood Crescent  
 ✓ 188 Inglwood Drive  
 ✓ 46 Cambridge Crescent  
 ✓ 15 Cambridge Crescent  
 ✓ 170 Canterbury Drive  
 ✓ 140 Canterbury Drive  
 ✓ 131 Argyle Street  
 ✓ 265 Highland Avenue

141.	H. Meikle	✓ 981	Smythe Street
142.		✓ 863	Windsor Street
143.	Wendell Farris	✓ 283	Montgomery Street
144.	Crane Supplies	✓ 504	Aberdeen Street
145.	Hill Bros.	✓ 973	Smythe Street
146.	Hill Bros.	✓ 965	Smythe Street
147.	L. Thomas	✓ 158	Pine Street
148.	A. Wilkins	✓ 778	Smythe Street
149.	L. J. Brewer	✓ 435	Montgomery Street
150.	<u>Fredericton Housing Ltd.</u>	✓ 46	<u>Cambridge Crescent</u>
151.	Fredericton Housing Ltd.	✓ 58	Cambridge Crescent
152.	Fredericton Housing Ltd.	✓ 24	Cambridge Crescent
153.	Fredericton Housing Ltd.	✓ 184	Canterbury Drive
154.	Fredericton Housing Ltd.	✓ 194	Canterbury Drive
155.	Fredericton Housing Ltd.	✓ 204	Canterbury Drive
156.	Fredericton Housing Ltd.	✓ 189	Canterbury Drive
157.	B. Barnes	✓ 209	Canterbury Drive
158.	DR. Butterwick	✓ 251	Inglewood Drive
159.	F. Blair	✓ 248	Brunswick Street
160.	Lounsbury Co. Ltd.	✓	College Hill Road
161.	Central Trust	✓ 683	Union Street
162.	E. G. Edwards	✓ 224	Highland Avenue
163.	J. Palmer	✓ 12	Spruce Terrace
164.		✓ 995	Smythe Street
165.	Mrs. Scott	✓ 502	Woodstock Road
166.	V. Leachman	✓ 149	Gibson Street
167.	Hill Bros.	✓ 13	Beechwood Crescent
168.	Hill Bros.	✓ 6	Beechwood Crescent
169.	G. G. Greaves	✓ 933	Smythe Street
170.	C. Covey	✓ 7	Forest Acres Court
171.	L. J. Griesbach	✓ 7	Leicester Street
172.	Fredericton Housing Ltd.	✓ 70	Leicester Street
173.	Fredericton Housing Ltd.	✓ 60	Leicester Street
174.		✓ 225	Kings College Road
175.	Harley E. Mills	✓ 413	Smythe Street
176.	Fredericton Housing Ltd.	✓ 214	Canterbury Drive
177.	Fredericton Housing Ltd.	✓ 237	Canterbury Drive
178.	Fredericton Housing Ltd.	✓ 25	Cambridge Crescent
179.	Fredericton Housing Ltd.	✓ 14	Cambridge Crescent
180.	Fredericton Housing Ltd.	✓ 19	Manchester Court
181.		✓ 184	St. Marys Street
182.		✓ 160	St. Marys Street
183.		✓ 119	St. Marys Street
184.		✓ 200	St. Marys Street
185.		✓ 190	St. Marys Street
186.		✓ 292--294	Queen Street
187.		✓ 313--315	Church Street
188.	Fredericton Board of School Trustees	✓	Montgomery Street School
189.	J. Watson	✓ 444	Union Street
190.		✓ 348	St. Marys Street
191.		✓ 155	St. Marys Street
192.	J. F. VanBuskirk	✓ 421	Montgomery Street
193.		✓ 148	St. Marys Street
194.		✓ 287	Carney Street
195.		✓ 151.	St. Marys Street
196.	Fredericton Housing Ltd.	✓ 199	Canterbury Drive
197.		✓ 81	Beechwood Crescent
198.	Bank of Montreal	✓	University of New Brunswick
199.	Lady Dunn Residence	✓	University of New Brunswick
200.	H. Tait	✓ 805	York Street
Gorham	Beverages	✓ 361	Victoria Street
202.	Fredericton Housing Ltd.	✓ 78	Manchester Court
203.	Edward Dunbar	✓ 316	St. Marys Street
204.	Catherine George Est.	✓ 312--314	York Street
205.	Ivan Peterson	✓	Smythe Street
206.	Arthur MacKenzie	✓	Wilsey Road
207.	T. Davis	✓ 430	Gibson Street
208.	Lloyd Hoben	✓	Wilsey Road
209.	Fredericton Housing Ltd.	✓ 49	Manchester Court
210.	Fredericton Housing Ltd.	✓ 14	Coventry Crescent

211. Fredericton Housing Ltd.  
212. Fredericton Housing Ltd.  
213. Fredericton Housing Ltd.  
217. ~~214~~ Fredericton Housing Ltd.  
218. ~~215~~ Fredericton Housing Ltd.  
219. ~~216~~ Murdock Murray  
220. ~~217~~ Wendell Farris  
221. ~~218~~ Wendell Farris  
222. ~~219~~ Hill Bros.  
223. ~~220~~ Malcolm Cummings  
224. ~~221~~ Malcolm Cummings  
225. ~~222~~ Fredericton Housing Ltd.

✓ 45 Cambridge Crescent  
✓ 20 Sheffield Court  
✓ 50 Leicester Street  
✓ 247 Canterbury Drive  
✓ 7 Manchester Court  
✓ 500 Woodstock Road  
✓ 57 Beechwood Crescent  
✓ 65 Beechwood Crescent  
✓ 21 Beechwood Crescent  
✓ 989 Smythe Street  
✓ 959 Smythe Street  
✓ 257 Canterbury Drive





CONSTRUCTION 1962	
GRADING AND GRAVELLING	4.20 MILES.
ITCHING	1.02 MILES.
WATER (INDUSTRIAL AREA)	.71 MILES.
DOMESTIC SEWER (INDUSTRIAL AREA)	.80 MILES.
NEW STREET (GRAVEL ROAD CONSTRUCTION)	1.46 MILES.
PARKING AREAS	

